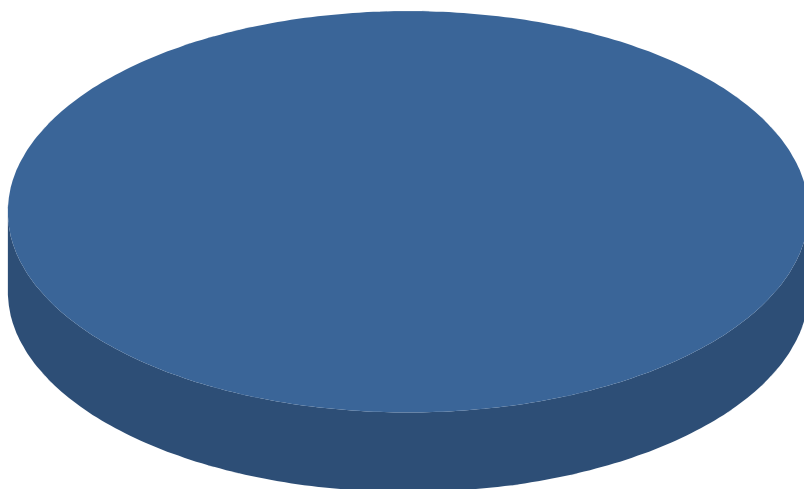


Carbon Calculator Results

Business Name: Graaff Fruit - Lushof
Country Name: South Africa
Creation Date: 2025/11/10 13:53:47
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

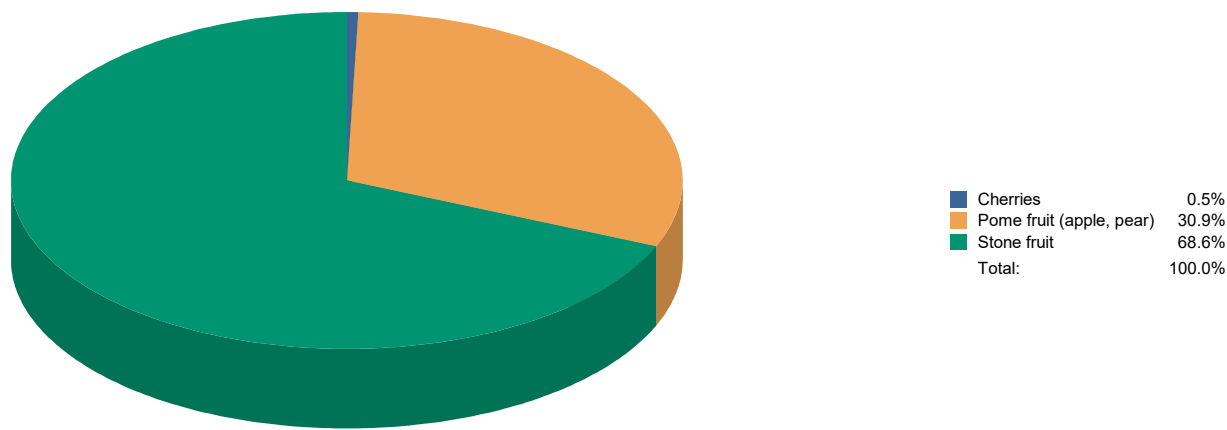


■ Farm 100.0%
 Total: 100.0%

Boundary	Tonne CO ₂ e	%
Farm	2,318.14	100.00
Total	2,318.14	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	%
Cherries	11.84	0.51
Pome fruit (apple, pear)	716.40	30.90
Stone fruit	1,589.90	68.59
Total	2,318.14	100.00

Business Name:

Graaff Fruit - Lushof

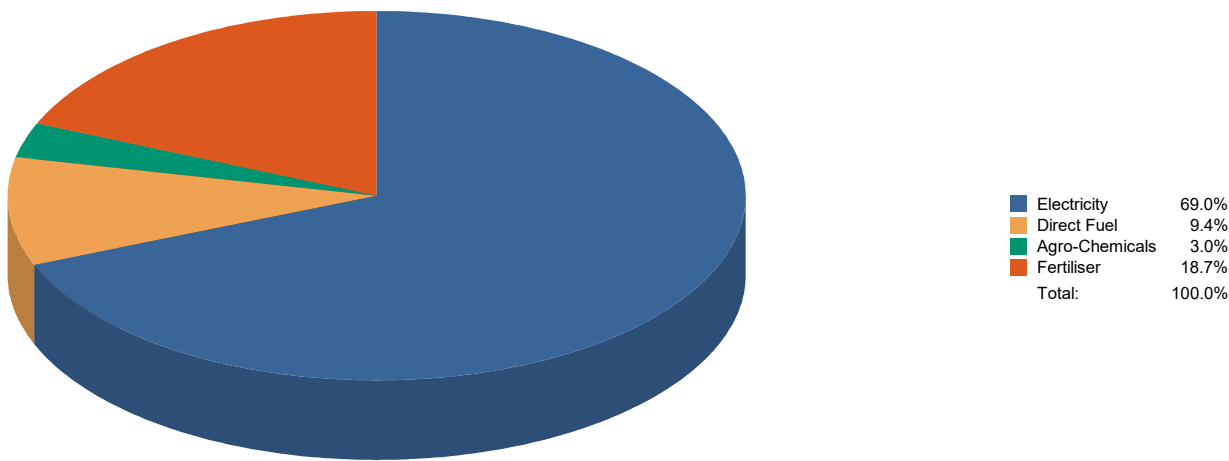
Dataset:

2025/11/10 13:53:47

Data Collection Period:

Jul 2024 to Jun 2025

Farm - Emission Source View



Emission Source	Tonne CO ₂ e	%
Electricity	1,599.62	69.00
Direct Fuel	217.03	9.36
Agro-Chemicals	68.79	2.97
Fertiliser	432.70	18.67
Total	2,318.14	100.00

Business Name:Graaff Fruit - Lushof

Dataset:2025/11/10 13:53:47

Data Collection Period:Jul 2024 to Jun 2025

Farm Commodity Benchmark

Commodity	Kg CO2e per Kg Fruit	Benchmark
Cherries	2.69	The CCC regional average is 1.59 Kg CO2e per Kg Fruit and consist of 12 data points.
Pome fruit (apple, pear)	0.25	The CCC regional average is 0.14 Kg CO2e per Kg Fruit and consist of 96 data points.
Stone fruit	0.41	The CCC regional average is 0.24 Kg CO2e per Kg Fruit and consist of 82 data points.

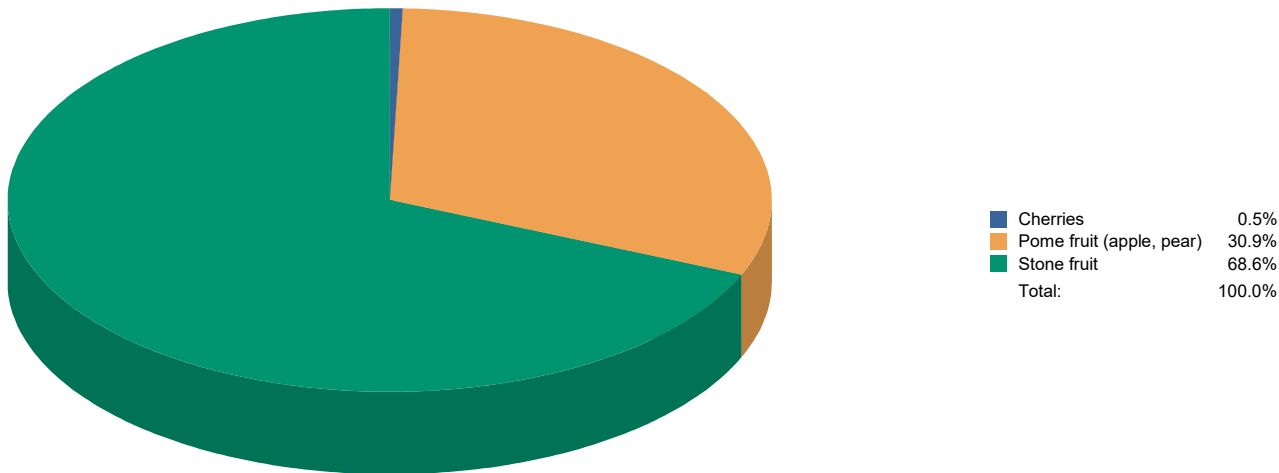
Farm Hectare Breakdown

Commodity	Tonne CO ₂ e per Bearing Ha
Cherries	12.20
Pome fruit (apple, pear)	14.74
Stone fruit	12.15

Farm Scope Breakdown

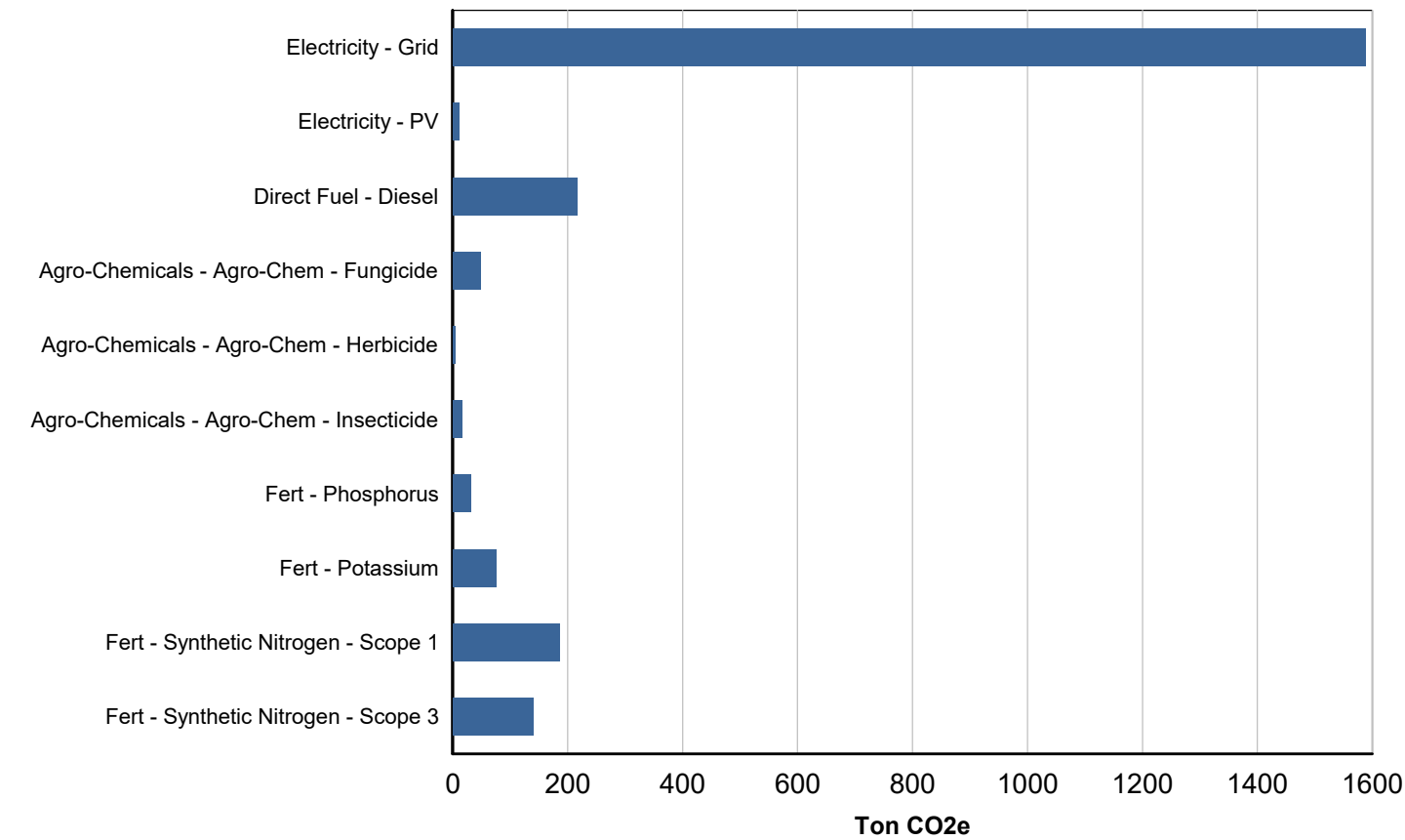
	Tonne CO ₂ e	%
Scope 1	414.37	17.88
Scope 2	1,588.44	68.52
Scope 3	315.34	13.60
Total	2,318.14	100.00

Farm - Commodity View



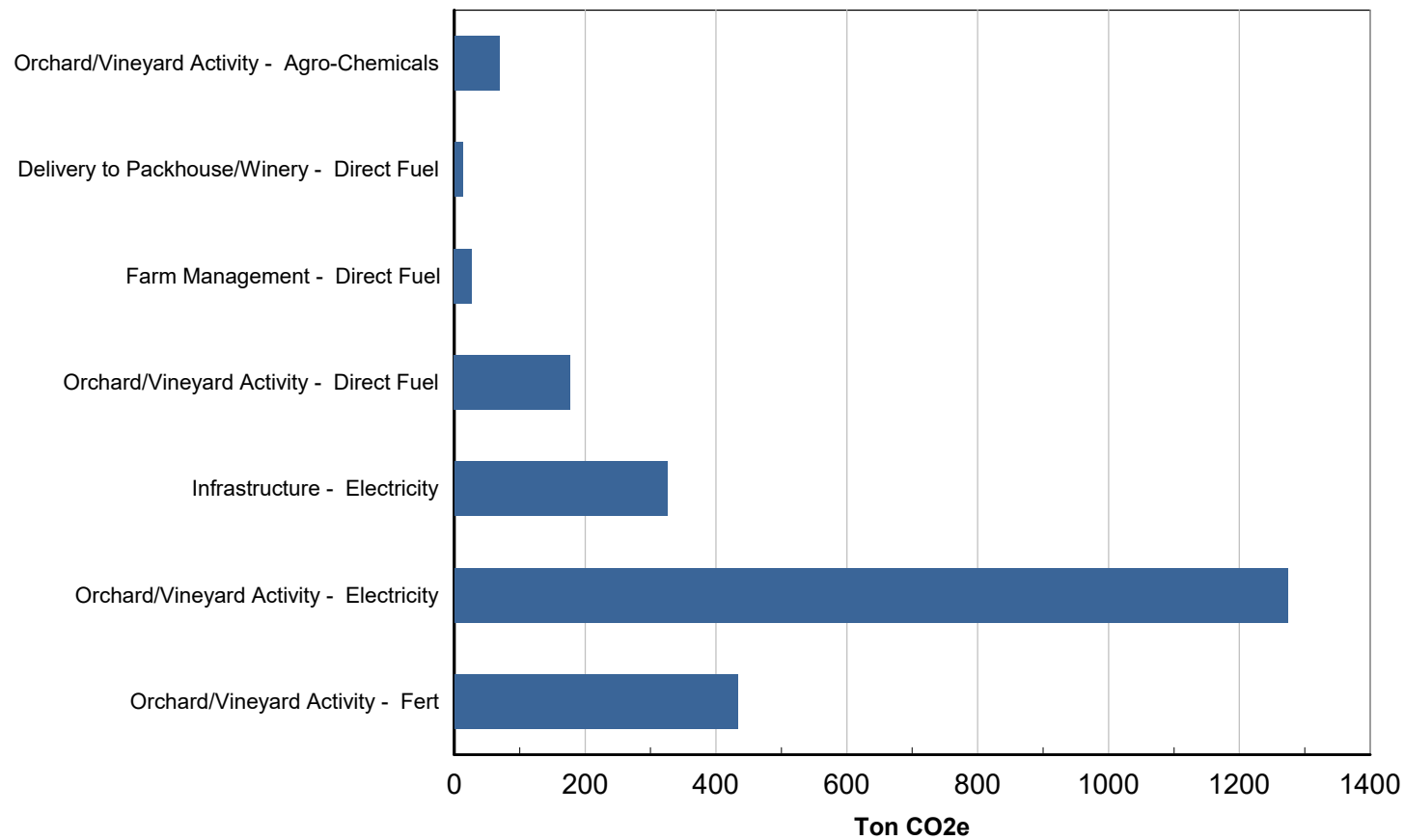
Commodity	Tonne CO ₂ e	%
Cherries	11.84	0.51
Pome fruit (apple, pear)	716.40	30.90
Stone fruit	1,589.90	68.59
Total	2,318.14	100.00

Farm - Emission Source Breakdown



Emission Source	Tonne CO ₂ e	%
Electricity - Grid	1,588.44	68.52
Electricity - PV	11.19	0.48
Direct Fuel - Diesel	217.03	9.36
Agro-Chemicals - Agro-Chem - Fungicide	49.38	2.13
Agro-Chemicals - Agro-Chem - Herbicide	3.94	0.17
Agro-Chemicals - Agro-Chem - Insecticide	15.47	0.67
Fert - Phosphorus	31.11	1.34
Fert - Potassium	75.82	3.27
Fert - Synthetic Nitrogen - Scope 1	186.15	8.03
Fert - Synthetic Nitrogen - Scope 3	139.61	6.02
Total	2,318.14	100.00

Farm - Activity Breakdown



Activity Breakdown	Tonne CO ₂ e	%
Orchard/Vineyard Activity - Agro-Chemicals	68.79	2.97
Delivery to Packhouse/Winery - Direct Fuel	12.57	0.54
Farm Management - Direct Fuel	26.59	1.15
Orchard/Vineyard Activity - Direct Fuel	177.88	7.67
Infrastructure - Electricity	325.56	14.04
Orchard/Vineyard Activity - Electricity	1,274.06	54.96
Orchard/Vineyard Activity - Fert	432.70	18.67
Total	2,318.14	100.00

Business Name:Graaff Fruit - Lushof

Dataset:2025/11/10 13:53:47

Data Collection Period:Jul 2024 to Jun 2025

Detailed Carbon Emissions Breakdown

Detailed Activities	Tonne CO ₂ e	%
Electricity - Grid - Orchard/Vineyard Activity - BO	1,062.74	45.84
Electricity - Grid - Orchard/Vineyard Activity - NBO	202.43	8.73
Electricity - Grid - Infrastructure	323.27	13.95
Electricity - PV - Orchard/Vineyard Activity - BO	7.44	0.32
Electricity - PV - Orchard/Vineyard Activity - NBO	1.46	0.06
Electricity - PV - Infrastructure	2.29	0.10
Direct Fuel - Diesel - Orchard/Vineyard Activity - BO	148.70	6.41
Direct Fuel - Diesel - Orchard/Vineyard Activity - NBO	29.17	1.26
Direct Fuel - Diesel - Delivery to Packhouse/Winery	12.57	0.54
Direct Fuel - Diesel - Farm Management	26.59	1.15
Fert - - Synthetic Nitrogen - Orchard/Vineyard Activity - BO	272.16	11.74
Fert - - Synthetic Nitrogen - Orchard/Vineyard Activity - NBO	53.61	2.31
Fert - - Phosphorus - Orchard/Vineyard Activity - BO	25.99	1.12
Fert - - Phosphorus - Orchard/Vineyard Activity - NBO	5.12	0.22
Fert - - Potassium - Orchard/Vineyard Activity - BO	63.35	2.73
Fert - - Potassium - Orchard/Vineyard Activity - NBO	12.48	0.54
Agro-Chemicals - Agro-Chem - Fungicide - Orchard/Vineyard Activity - BO	41.26	1.78
Agro-Chemicals - Agro-Chem - Fungicide - Orchard/Vineyard Activity - NBO	8.12	0.35
Agro-Chemicals - Agro-Chem - Insecticide - Orchard/Vineyard Activity - BO	12.93	0.56
Agro-Chemicals - Agro-Chem - Insecticide - Orchard/Vineyard Activity - NBO	2.54	0.11
Agro-Chemicals - Agro-Chem - Herbicide - Orchard/Vineyard Activity - BO	3.29	0.14
Agro-Chemicals - Agro-Chem - Herbicide - Orchard/Vineyard Activity - NBO	0.64	0.03
Total	2,318.14	100.00

Business Name:Graaff Fruit - Lushof

Dataset:2025/11/10 13:53:47

Data Collection Period:Jul 2024 to Jun 2025

Farm Consumption Benchmarks

Commodity	Consumption Measure	Result	Benchmark
Cherries	kL Water per Ton Fruit	802.27	The CCC regional average is 1153.67 kL Water per Ton Fruit and consist of 12 data points.
Cherries	kL Water per Bearing Ha	3,639.18	The CCC regional average is 6055.69 kL Water per Bearing Ha and consist of 12 data points.
Cherries	kWh Orchard / Vineyard Electricity per Ton Fruit	2,040.23	The CCC regional average is 1045.77 kWh Orchard / Vineyard Electricity per Ton Fruit and consist of 12 data points.
Cherries	kWh Orchard / Vineyard Electricity per Bearing Ha	9,254.64	The CCC regional average is 6489.42 kWh Orchard / Vineyard Electricity per Bearing Ha and consist of 12 data points.
Cherries	Liters Orchard / Vineyard Diesel per Ton Fruit	97.73	The CCC regional average is 119.56 Liters Orchard / Vineyard Diesel per Ton Fruit and consist of 12 data points.
Cherries	Liters Orchard / Vineyard Diesel per Bearing Ha	443.30	The CCC regional average is 665.85 Liters Orchard / Vineyard Diesel per Bearing Ha and consist of 12 data points.
Cherries	Kg Pure N per Ton Fruit	28.18	The CCC regional average is 25.84 Kg Pure N per Ton Fruit and consist of 12 data points.
Cherries	Kg Pure N per Bearing Ha	127.84	The CCC regional average is 131.70 Kg Pure N per Bearing Ha and consist of 12 data points.

Commodity	Consumption Measure	Result	Benchmark
Pome fruit (apple, pear)	kL Water per Ton Fruit	153.27	The CCC regional average is 128.95 kL Water per Ton Fruit and consist of 73 data points.
Pome fruit (apple, pear)	kL Water per Bearing Ha	8,954.16	The CCC regional average is 6092.17 kL Water per Bearing Ha and consist of 73 data points.
Pome fruit (apple, pear)	kWh Orchard / Vineyard Electricity per Ton Fruit	149.29	The CCC regional average is 66.08 kWh Orchard / Vineyard Electricity per Ton Fruit and consist of 73 data points.
Pome fruit (apple, pear)	kWh Orchard / Vineyard Electricity per Bearing Ha	8,721.93	The CCC regional average is 3207.85 kWh Orchard / Vineyard Electricity per Bearing Ha and consist of 73 data points.
Pome fruit (apple, pear)	Liters Orchard / Vineyard Diesel per Ton Fruit	7.07	The CCC regional average is 12.07 Liters Orchard / Vineyard Diesel per Ton Fruit and consist of 73 data points.
Pome fruit (apple, pear)	Liters Orchard / Vineyard Diesel per Bearing Ha	413.29	The CCC regional average is 482.47 Liters Orchard / Vineyard Diesel per Bearing Ha and consist of 73 data points.
Pome fruit (apple, pear)	Kg Pure N per Ton Fruit	2.20	The CCC regional average is 2.40 Kg Pure N per Ton Fruit and consist of 73 data points.
Pome fruit (apple, pear)	Kg Pure N per Bearing Ha	128.62	The CCC regional average is 95.32 Kg Pure N per Bearing Ha and consist of 73 data points.

Commodity	Consumption Measure	Result	Benchmark

Business Name:

Graaff Fruit - Lushof

Dataset:

2025/11/10 13:53:47

Data Collection Period:

Jul 2024 to Jun 2025

Commodity	Consumption Measure	Result	Benchmark
Stone fruit	kL Water per Ton Fruit	212.29	The CCC regional average is 170.07 kL Water per Ton Fruit and consist of 64 data points.
Stone fruit	kL Water per Bearing Ha	6,905.86	The CCC regional average is 4883.01 kL Water per Bearing Ha and consist of 64 data points.
Stone fruit	kL Water per Non-Bearing Ha	6,890.79	The CCC regional average is 2564.73 kL Water per Non-Bearing Ha and consist of 64 data points.
Stone fruit	kWh Orchard / Vineyard Electricity per Ton Fruit	241.13	The CCC regional average is 82.86 kWh Orchard / Vineyard Electricity per Ton Fruit and consist of 64 data points.
Stone fruit	kWh Orchard / Vineyard Electricity per Bearing Ha	7,843.85	The CCC regional average is 2509.43 kWh Orchard / Vineyard Electricity per Bearing Ha and consist of 64 data points.
Stone fruit	Liters Orchard / Vineyard Diesel per Ton Fruit	11.56	The CCC regional average is 13.32 Liters Orchard / Vineyard Diesel per Ton Fruit and consist of 64 data points.
Stone fruit	Liters Orchard / Vineyard Diesel per Bearing Ha	376.12	The CCC regional average is 359.00 Liters Orchard / Vineyard Diesel per Bearing Ha and consist of 64 data points.
Stone fruit	Kg Pure N per Ton Fruit	3.56	The CCC regional average is 4.26 Kg Pure N per Ton Fruit and consist of 64 data points.
Stone fruit	Kg Pure N per Bearing Ha	115.72	The CCC regional average is 117.98 Kg Pure N per Bearing Ha and consist of 64 data points.

Business Name: Graaff Fruit - Lushof
Dataset: 2025/11/10 13:53:47
Data Collection Period: Jul 2024 to Jun 2025