Carbon Calculator Results

Business Name: Amandalia Robinson Farm

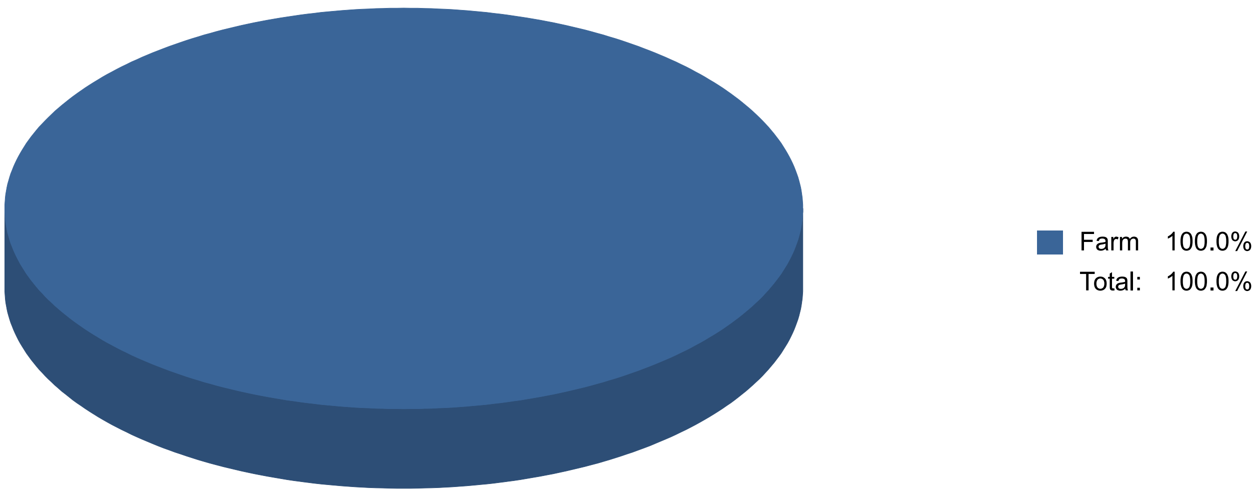
Country Name: South Africa

Creation Date: 2024/07/11 09:17:21

Data Collection Period: May 2023 to Apr 2024

Report Grade: B1 - This dataset has been checked by CCC and is part of the benchmark.

Business Unit - Boundary View



Boundary	Ton CO2e	%
Farm	40.84	100.00
Total	**40.84**	**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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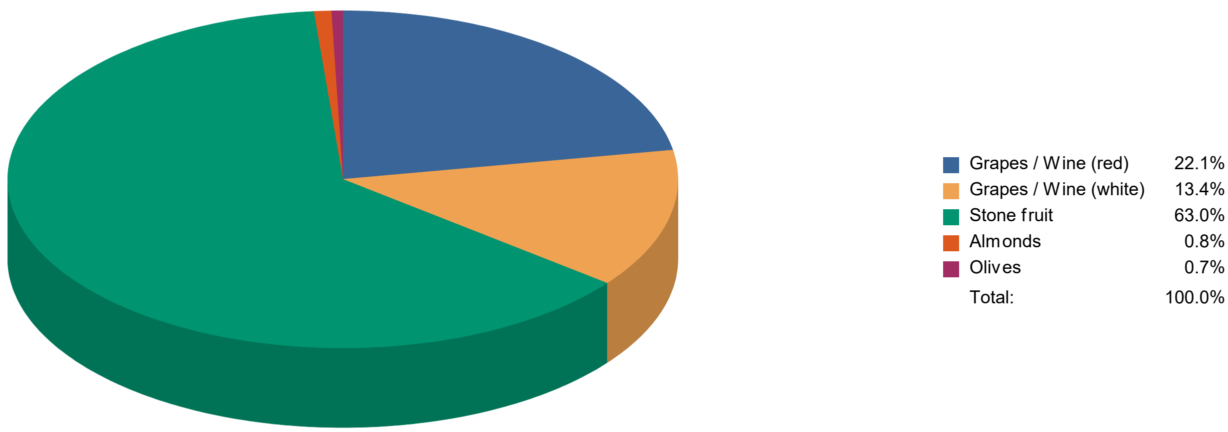
Business Unit - Commodity View



Commodity	Ton CO2e	%
Grapes / Wine (red)	9.02	22.09
Grapes / Wine (white)	5.48	13.42
Stone fruit	25.73	62.99
Almonds	0.34	0.84
Olives	0.27	0.65
Total	**40.84**	**100.00**

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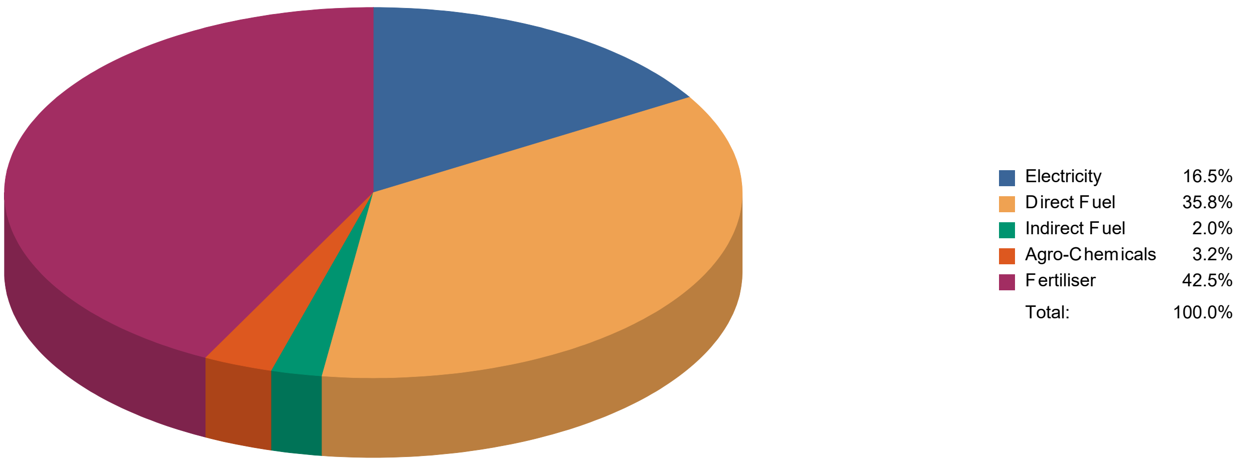
Farm - Emission Source View



Emission Source	Ton CO2e	%
Electricity	6.74	16.51
Direct Fuel	14.64	35.83
Indirect Fuel	0.80	1.97
Agro-Chemicals	1.29	3.17
Fertiliser	17.37	42.52
Total	**40.84**	**100.00**

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Farm Commodity Benchmark

Commodity	Kg CO2e per Kg Fruit	Benchmark
Grapes / Wine (red)	0.17	The CCC regional average is 0.26 Kg CO2e per Kg Fruit and consist of 46 data points.
Grapes / Wine (white)	0.07	The CCC regional average is 0.27 Kg CO2e per Kg Fruit and consist of 50 data points.
Stone fruit	0.16	The CCC regional average is 0.22 Kg CO2e per Kg Fruit and consist of 32 data points.
Almonds	0.00	N/A
Olives	0.51	The CCC regional average is 6.30 Kg CO2e per Kg Fruit and consist of 8 data points.

Farm Hectare Breakdown

Commodity	Ton CO2e per Bearing Ha
Grapes / Wine (red)	1.90
Grapes / Wine (white)	1.51
Stone fruit	2.83
Olives	0.12

Farm Scope Breakdown

	Ton CO2e	%
Scope 1	21.80	53.37
Scope 2	6.54	16.02
Scope 3	12.50	30.61
Total	**40.84**	**100.00**

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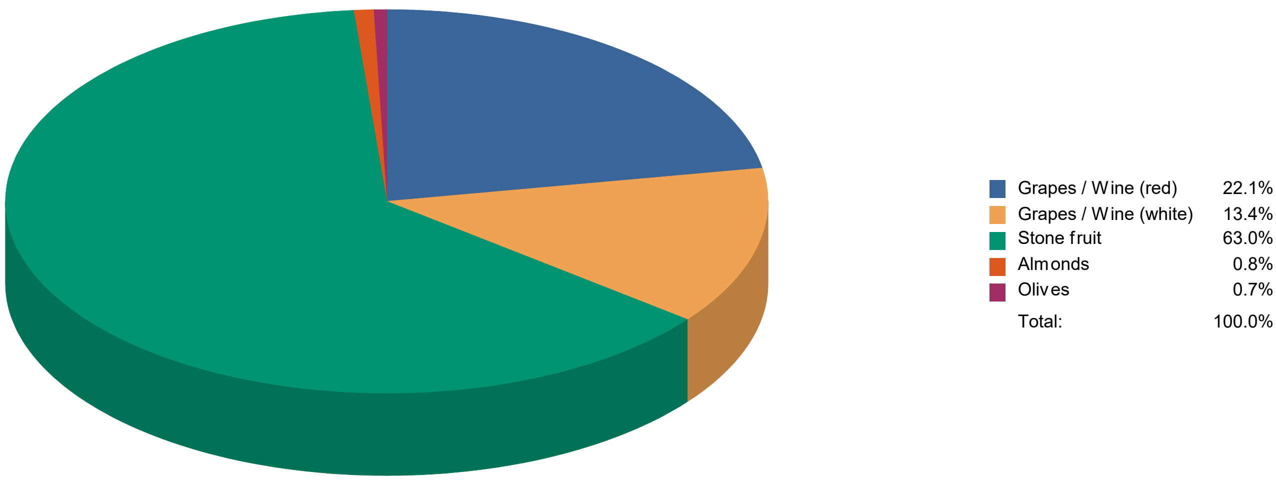
Farm - Commodity View



Commodity	Ton CO_2e	%
Grapes / Wine (red)	9.02	22.09
Grapes / Wine (white)	5.48	13.42
Stone fruit	25.73	62.99
Almonds	0.34	0.84
Olives	0.27	0.65
Total	**40.84**	**100.00**

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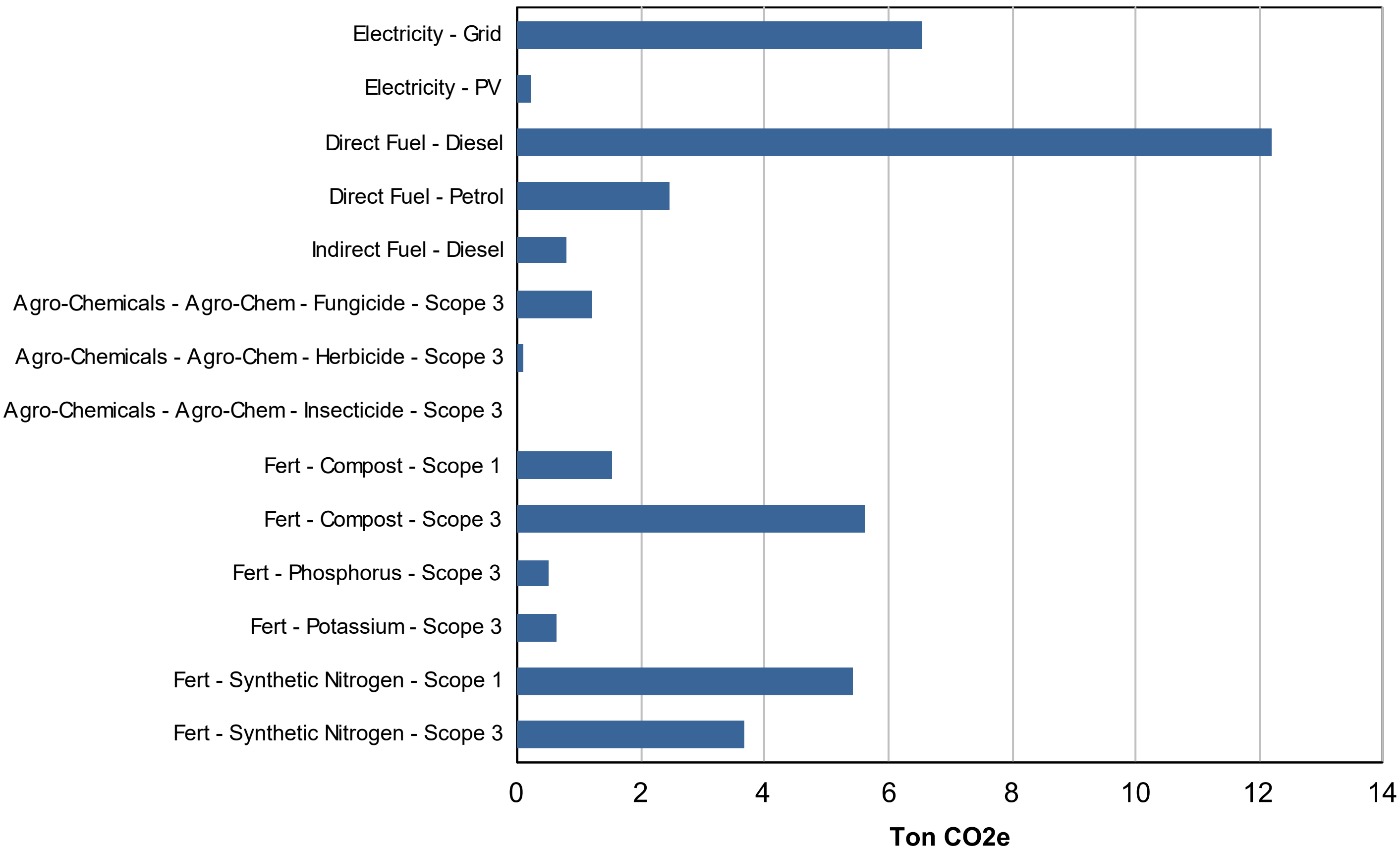
Farm - Emission Source Breakdown



Emission Source	Ton CO2e	%
Electricity - Grid	6.54	16.02
Electricity - PV	0.20	0.49
Direct Fuel - Diesel	12.19	29.85
Direct Fuel - Petrol	2.44	5.98
Indirect Fuel - Diesel	0.80	1.97
Agro-Chemicals - Agro-Chem - Fungicide - Scope 3	1.21	2.95
Agro-Chemicals - Agro-Chem - Herbicide - Scope 3	0.08	0.21
Agro-Chemicals - Agro-Chem - Insecticide - Scope 3	0.00	0.01
Fert - Compost - Scope 1	1.54	3.77
Fert - Compost - Scope 3	5.60	13.71
Fert - Phosphorus - Scope 3	0.50	1.23

Fert - Potassium - Scope 3	0.63	1.55
Fert - Synthetic Nitrogen - Scope 1	5.42	13.27
Fert - Synthetic Nitrogen - Scope 3	3.67	8.98
Total	**40.84**	**100.00**

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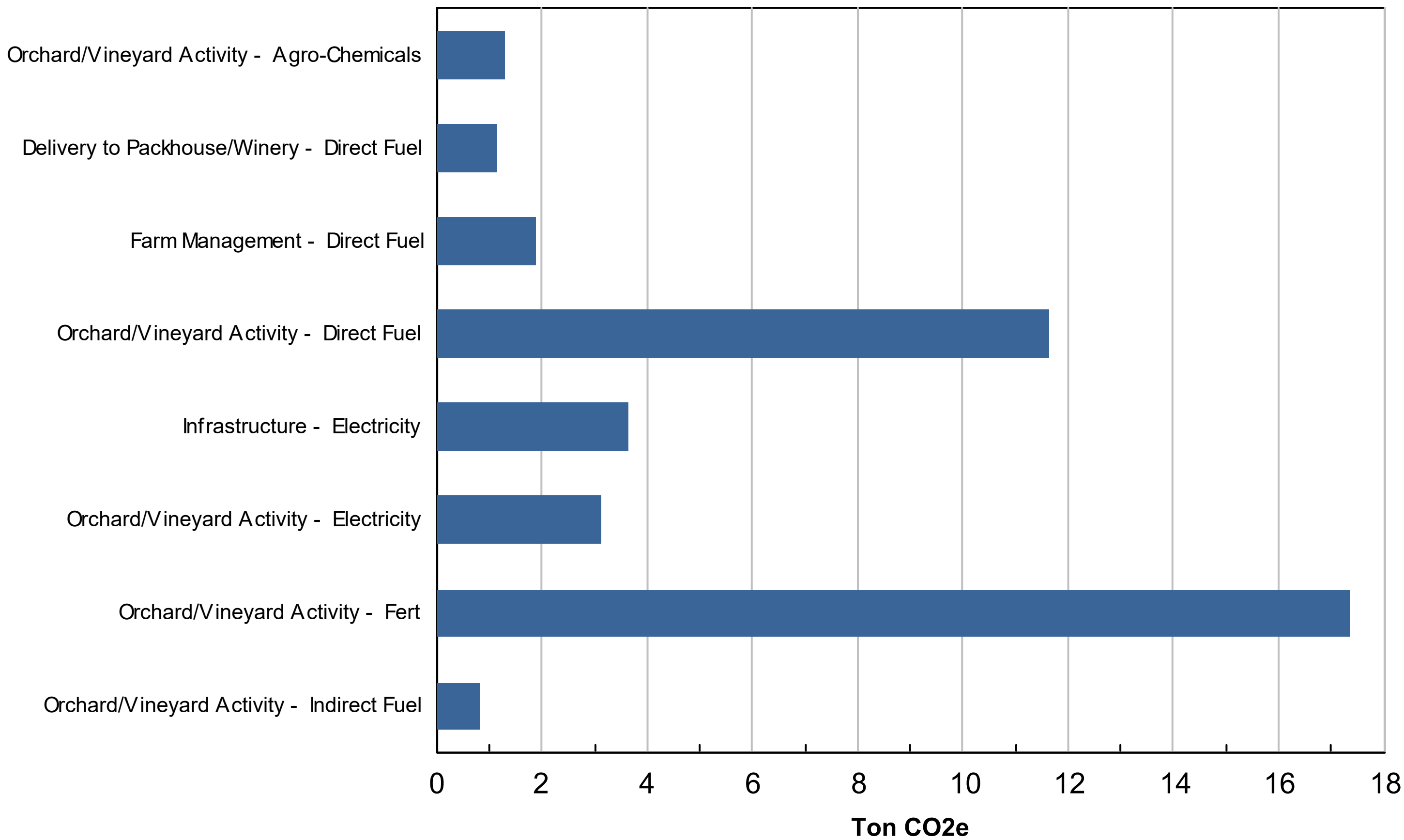
Farm - Activity Breakdown



Activity Breakdown	Ton CO2e	%
Orchard/Vineyard Activity - Agro-Chemicals	1.29	3.17
Delivery to Packhouse/Winery - Direct Fuel	1.16	2.83
Farm Management - Direct Fuel	1.86	4.56
Orchard/Vineyard Activity - Direct Fuel	11.62	28.44
Infrastructure - Electricity	3.63	8.89
Orchard/Vineyard Activity - Electricity	3.11	7.62
Orchard/Vineyard Activity - Fert	17.37	42.52
Orchard/Vineyard Activity - Indirect Fuel	0.80	1.97
Total	**40.84**	**100.00**

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Detailed Carbon Emissions Breakdown

Detailed Activities	Ton CO2e	%
Electricity - Grid - Orchard/Vineyard Activity - BO	2.77	6.78
Electricity - Grid - Orchard/Vineyard Activity - NBO	0.25	0.62
Electricity - Grid - Infrastructure	3.52	8.63
Electricity - PV - Orchard/Vineyard Activity - BO	0.08	0.19
Electricity - PV - Orchard/Vineyard Activity - NBO	0.01	0.03
Electricity - PV - Infrastructure	0.11	0.26
Direct Fuel - Diesel - Orchard/Vineyard Activity - BO	9.82	24.04
Direct Fuel - Diesel - Orchard/Vineyard Activity - NBO	0.01	0.02
Direct Fuel - Diesel - Delivery to Packhouse/Winery	1.16	2.83
Direct Fuel - Diesel - Farm Management	1.21	2.96
Direct Fuel - Petrol - Orchard/Vineyard Activity	1.79	4.38
Direct Fuel - Petrol - Farm Management	0.66	1.60
Indirect Fuel - Diesel - Orchard/Vineyard Activity - BO	0.80	1.97
Fert - - Synthetic Nitrogen - Orchard/Vineyard Activity - BO	9.09	22.26
Fert - - Phosphorus - Orchard/Vineyard Activity - BO	0.50	1.23
Fert - - Potassium - Orchard/Vineyard Activity - BO	0.63	1.55
Fert - - Compost - Orchard/Vineyard Activity - BO	7.14	17.48
Agro-Chemicals - Agro-Chem - Fungicide - Orchard/Vineyard Activity - BO	1.21	2.95
Agro-Chemicals - Agro-Chem - Insecticide - Orchard/Vineyard Activity - BO	0.00	0.01
Agro-Chemicals - Agro-Chem - Herbicide - Orchard/Vineyard Activity - BO	0.08	0.21
Total	**40.84**	**100.00**

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Farm Consumption Benchmarks

Commodity	Consumption Measure	Result	Benchmark
Grapes / Wine (red)	kL Water per Ton Fruit	430.48	The CCC regional average is 327.09 kL Water per Ton Fruit and consist of 42 data points.
Grapes / Wine (red)	kL Water per Bearing Ha	4,875.11	The CCC regional average is 4506.75 kL Water per Bearing Ha and consist of 42 data points.
Grapes / Wine (red)	kWh Orchard / Vineyard Electricity per Ton Fruit	16.80	The CCC regional average is 215.63 kWh Orchard / Vineyard Electricity per Ton Fruit and consist of 42 data points.
Grapes / Wine (red)	kWh Orchard / Vineyard Electricity per Bearing Ha	190.25	The CCC regional average is 2728.76 kWh Orchard / Vineyard Electricity per Bearing Ha and consist of 42 data points.
Grapes / Wine (red)	Liters Orchard / Vineyard Diesel per Ton Fruit	10.86	The CCC regional average is 19.78 Liters Orchard / Vineyard Diesel per Ton Fruit and consist of 42 data points.
Grapes / Wine (red)	Liters Orchard / Vineyard Diesel per Bearing Ha	123.00	The CCC regional average is 252.04 Liters Orchard / Vineyard Diesel per Bearing Ha and consist of 42 data points.
Grapes / Wine (red)	Kg Pure N per Ton Fruit	0.26	The CCC regional average is 4.45 Kg Pure N per Ton Fruit and consist of 42 data points.
Grapes / Wine (red)	Kg Pure N per Bearing Ha	3.00	The CCC regional average is 83.32 Kg Pure N per Bearing Ha and consist of 42 data points.

Commodity	Consumption Measure	Result	Benchmark
Grapes / Wine (white)	kL Water per Ton Fruit	40.39	The CCC regional average is 242.05 kL Water per Ton Fruit and consist of 46 data points.
Grapes / Wine (white)	kL Water per Bearing Ha	913.91	The CCC regional average is 3871.31 kL Water per Bearing Ha and consist of 46 data points.
Grapes / Wine (white)	kWh Orchard / Vineyard Electricity per Ton Fruit	7.84	The CCC regional average is 187.84 kWh Orchard / Vineyard Electricity per Ton Fruit and consist of 46 data points.
Grapes / Wine (white)	kWh Orchard / Vineyard Electricity per Bearing Ha	177.43	The CCC regional average is 2631.76 kWh Orchard / Vineyard Electricity per Bearing Ha and consist of 46 data points.
Grapes / Wine (white)	Liters Orchard / Vineyard Diesel per Ton Fruit	8.96	The CCC regional average is 15.91 Liters Orchard / Vineyard Diesel per Ton Fruit and consist of 46 data points.
Grapes / Wine (white)	Liters Orchard / Vineyard Diesel per Bearing Ha	202.75	The CCC regional average is 234.09 Liters Orchard / Vineyard Diesel per Bearing Ha and consist of 46 data points.
Grapes / Wine (white)	Kg Pure N per Ton Fruit	0.14	The CCC regional average is 3.55 Kg Pure N per Ton Fruit and consist of 46 data points.
Grapes / Wine (white)	Kg Pure N per Bearing Ha	3.10	The CCC regional average is 68.53 Kg Pure N per Bearing Ha and consist of 46 data points.

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Commodity	Consumption Measure	Result	Benchmark
Stone fruit	kL Water per Ton Fruit	288.16	The CCC regional average is 280.58 kL Water per Ton Fruit and consist of 30 data points.
Stone fruit	kL Water per Bearing Ha	4,970.95	The CCC regional average is 4546.44 kL Water per Bearing Ha and consist of 30 data points.
Stone fruit	kWh Orchard / Vineyard Electricity per Ton Fruit	9.83	The CCC regional average is 94.81 kWh Orchard / Vineyard Electricity per Ton Fruit and consist of 30 data points.
Stone fruit	kWh Orchard / Vineyard Electricity per Bearing Ha	169.65	The CCC regional average is 1871.66 kWh Orchard / Vineyard Electricity per Bearing Ha and consist of 30 data points.
Stone fruit	Liters Orchard / Vineyard Diesel per Ton Fruit	11.96	The CCC regional average is 15.42 Liters Orchard / Vineyard Diesel per Ton Fruit and consist of 30 data points.
Stone fruit	Liters Orchard / Vineyard Diesel per Bearing Ha	206.33	The CCC regional average is 255.94 Liters Orchard / Vineyard Diesel per Bearing Ha and consist of 30 data points.
Stone fruit	Kg Pure N per Ton Fruit	3.95	The CCC regional average is 3.65 Kg Pure N per Ton Fruit and consist of 30 data points.
Stone fruit	Kg Pure N per Bearing Ha	68.21	The CCC regional average is 73.00 Kg Pure N per Bearing Ha and consist of 30 data points.

Almonds	kL Water per Non-Bearing Ha	470.18	N/A

Commodity	Consumption Measure	Result	Benchmark
Olives	kL Water per Ton Fruit	3,984.35	The CCC regional average is 51446.16 kL Water per Ton Fruit and consist of 8 data points.
Olives	kL Water per Bearing Ha	963.66	The CCC regional average is 848.39 kL Water per Bearing Ha and consist of 8 data points.
Olives	kWh Orchard / Vineyard Electricity per Ton Fruit	328.56	The CCC regional average is 212023.65 kWh Orchard / Vineyard Electricity per Ton Fruit and consist of 8 data points.
Olives	kWh Orchard / Vineyard Electricity per Bearing Ha	79.47	The CCC regional average is 2086.24 kWh Orchard / Vineyard Electricity per Bearing Ha and consist of 8 data points.
Olives	Liters Orchard / Vineyard Diesel per Ton Fruit	9.31	The CCC regional average is 13678.12 Liters Orchard / Vineyard Diesel per Ton Fruit and consist of 8 data points.
Olives	Liters Orchard / Vineyard Diesel per Bearing Ha	2.25	The CCC regional average is 103.53 Liters Orchard / Vineyard Diesel per Bearing Ha and consist of 8 data points.

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