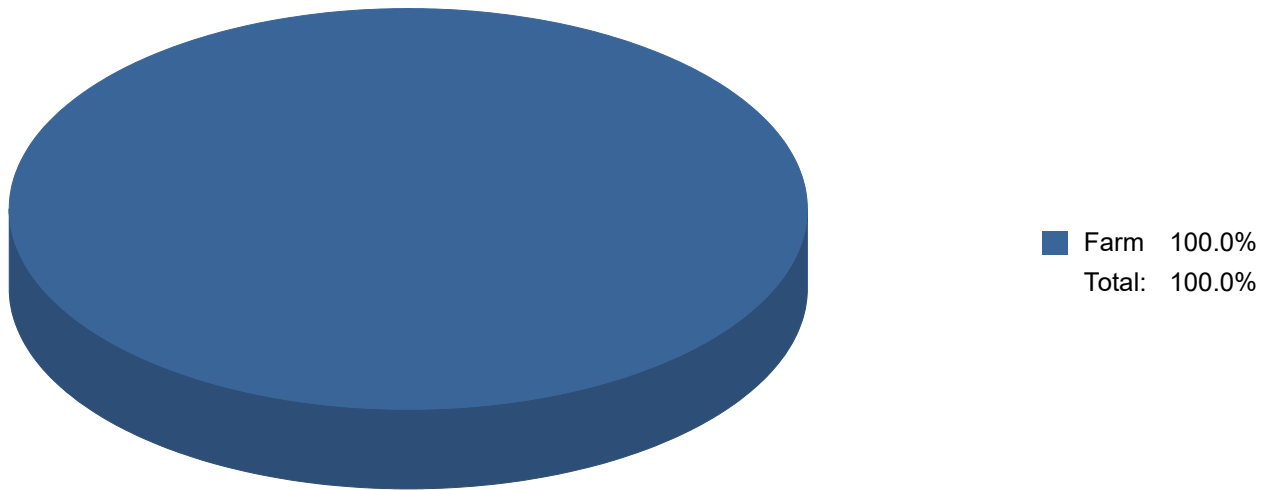


## Carbon Calculator Results

**Business Name:** Namoneng Citrus (Pty) Ltd  
**Creation Date:** 2023/02/07 13:12:26  
**Data Collection Period:** Jan 2022 to Dec 2022  
**Report Grade:** B1 - This dataset has been checked by CCC and is part of the benchmark.

## Business Unit - Boundary View

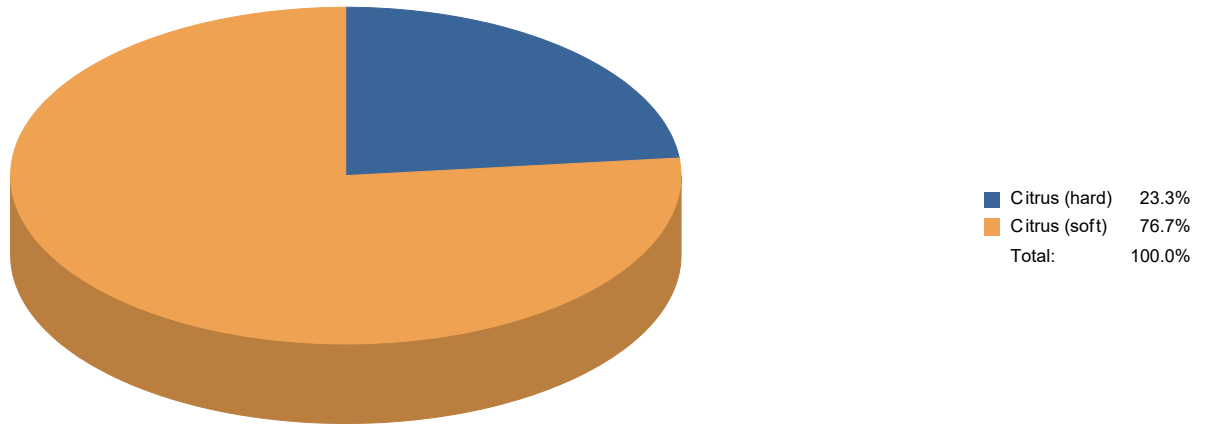


Boundary	Ton CO2e	%
Farm	863.64	100.00
<b>Total</b>	<b>863.64</b>	<b>100.00</b>

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

**Business Name:** Namoneng Citrus (Pty) Ltd  
**Dataset:** 2023/02/07 13:12:26  
**Data Collection Period:** Jan 2022 to Dec 2022

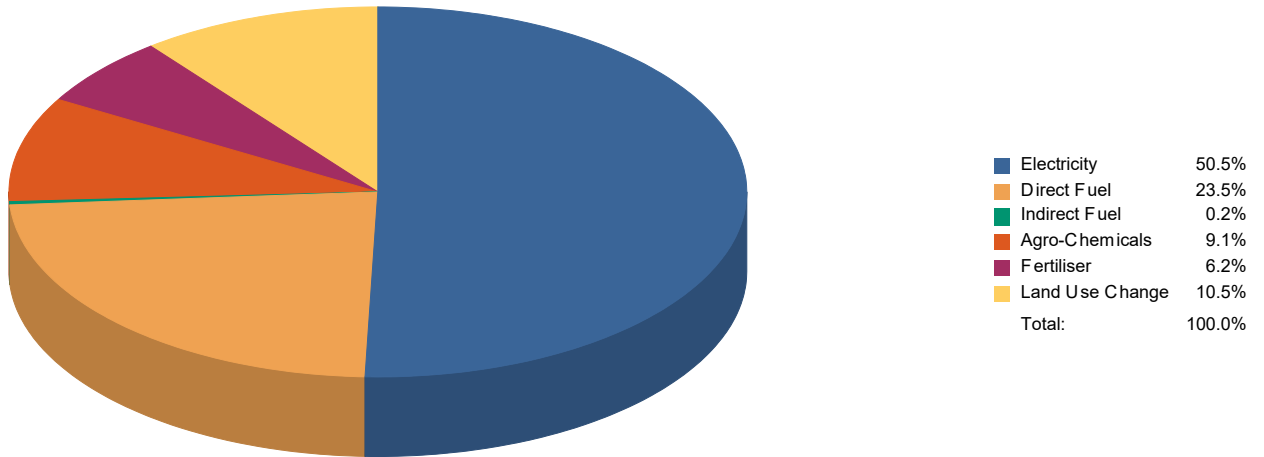
## Business Unit - Commodity View



Commodity	Ton CO2e	%
Citrus (hard)	201.55	23.34
Citrus (soft)	662.09	76.66
<b>Total</b>	<b>863.64</b>	<b>100.00</b>

**Business Name:** Namoneng Citrus (Pty) Ltd  
**Dataset:** 2023/02/07 13:12:26  
**Data Collection Period:** Jan 2022 to Dec 2022

## Farm - Emission Source View



Emission Source	Ton CO2e	%
Electricity	436.03	50.49
Direct Fuel	203.24	23.53
Indirect Fuel	1.97	0.23
Agro-Chemicals	78.30	9.07
Fertiliser	53.85	6.24
Land Use Change	90.25	10.45
<b>Total</b>	<b>863.64</b>	<b>100.00</b>

**Business Name:** Namoneng Citrus (Pty) Ltd

**Dataset:** 2023/02/07 13:12:26

**Data Collection Period:** Jan 2022 to Dec 2022

## Farm Commodity Benchmark

Commodity	Kg CO2e per Kg Fruit	Benchmark
Citrus (hard)	0.06	The CCC regional average is 0.09 Kg CO2e per Kg Fruit and consist of 1 data points.
Citrus (soft)	0.07	The CCC regional average is 0.22 Kg CO2e per Kg Fruit and consist of 1 data points.

## Farm Hectare Breakdown

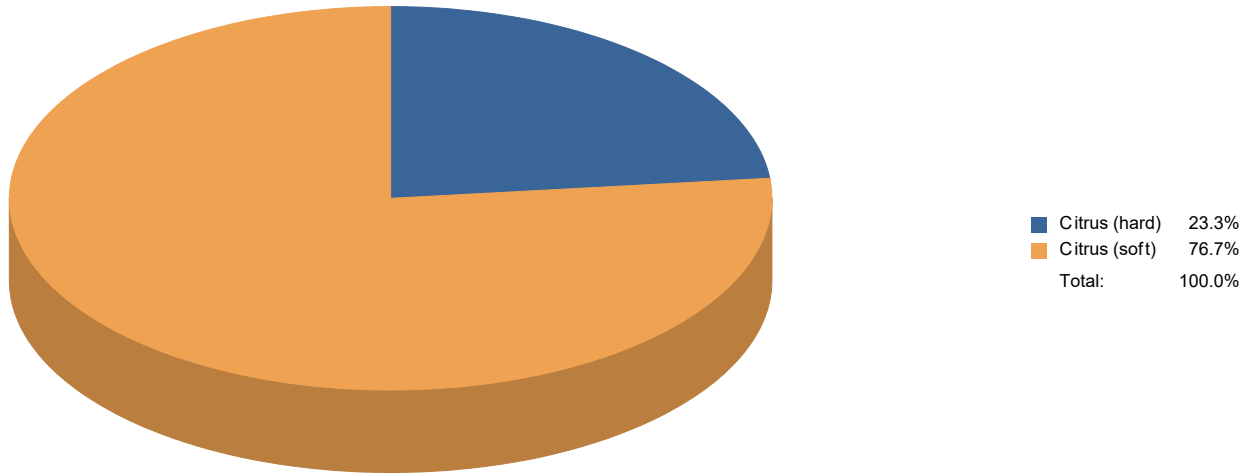
Commodity	Ton CO2e per Bearing Ha
Citrus (hard)	3.21
Citrus (soft)	3.44

## Farm Scope Breakdown

	Ton CO2e	%
Scope 1	293.49	33.98
Scope 2	436.03	50.49
Scope 3	134.12	15.53
<b>Total</b>	<b>863.64</b>	<b>100.00</b>

**Business Name:** Namoneng Citrus (Pty) Ltd  
**Dataset:** 2023/02/07 13:12:26  
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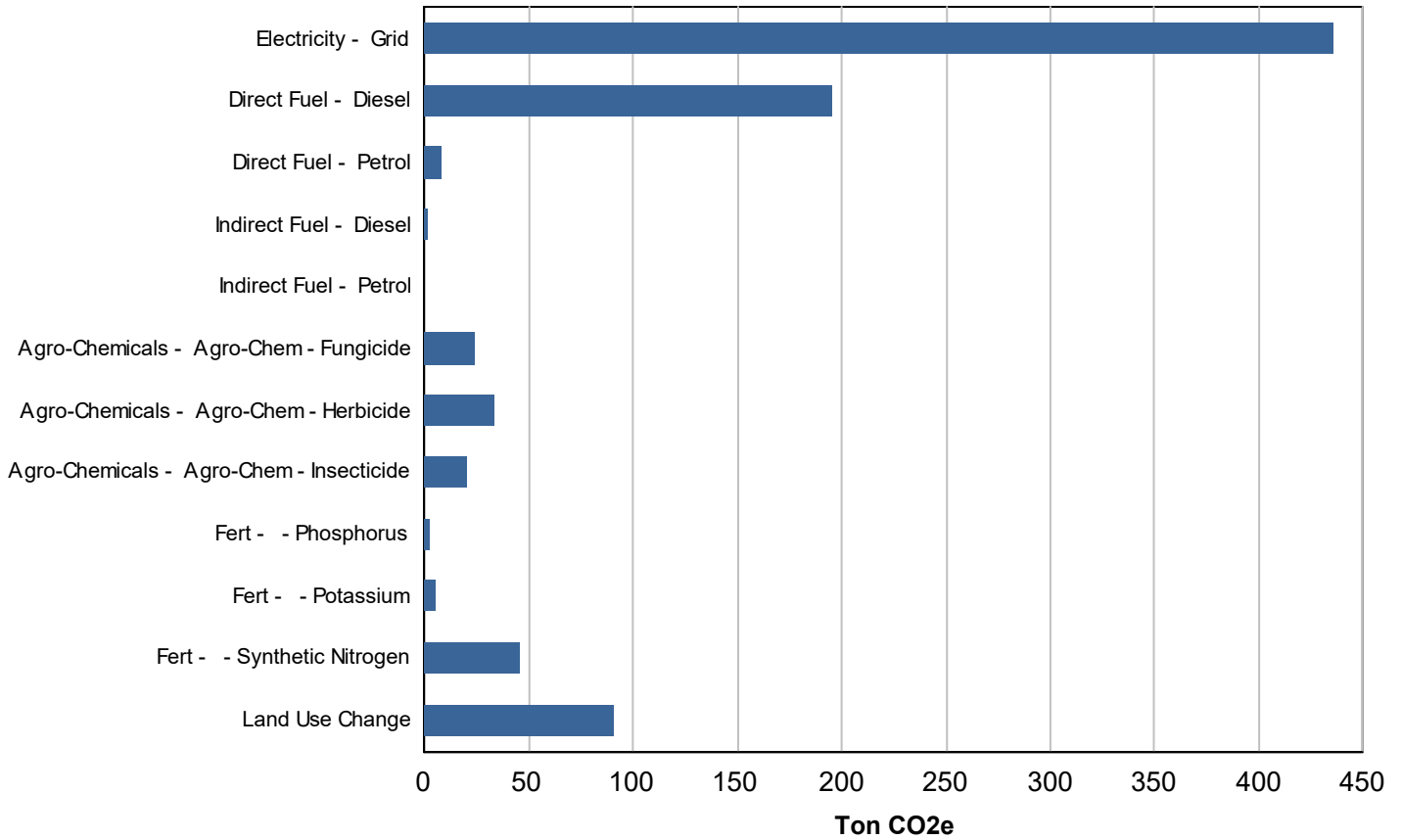
## Farm - Commodity View



Commodity	Ton CO2e	%
Citrus (hard)	201.55	23.34
Citrus (soft)	662.09	76.66
<b>Total</b>	<b>863.64</b>	<b>100.00</b>

**Business Name:** Namoneng Citrus (Pty) Ltd  
**Dataset:** 2023/02/07 13:12:26  
**Data Collection Period:** Jan 2022 to Dec 2022

## Farm - Emission Source Breakdown



Emission Source	Ton CO2e	%
Electricity - Grid	436.03	50.49
Direct Fuel - Diesel	195.07	22.59
Direct Fuel - Petrol	8.17	0.95
Indirect Fuel - Diesel	1.76	0.20
Indirect Fuel - Petrol	0.20	0.02
Agro-Chemicals - Agro-Chem - Fungicide	23.99	2.78
Agro-Chemicals - Agro-Chem - Herbicide	33.67	3.90
Agro-Chemicals - Agro-Chem - Insecticide	20.65	2.39
Fert - - Phosphorus	2.71	0.31
Fert - - Potassium	5.14	0.60
Fert - - Synthetic Nitrogen	46.00	5.33
Land Use Change	90.25	10.45

**Business Name:** Namoneng Citrus (Pty) Ltd

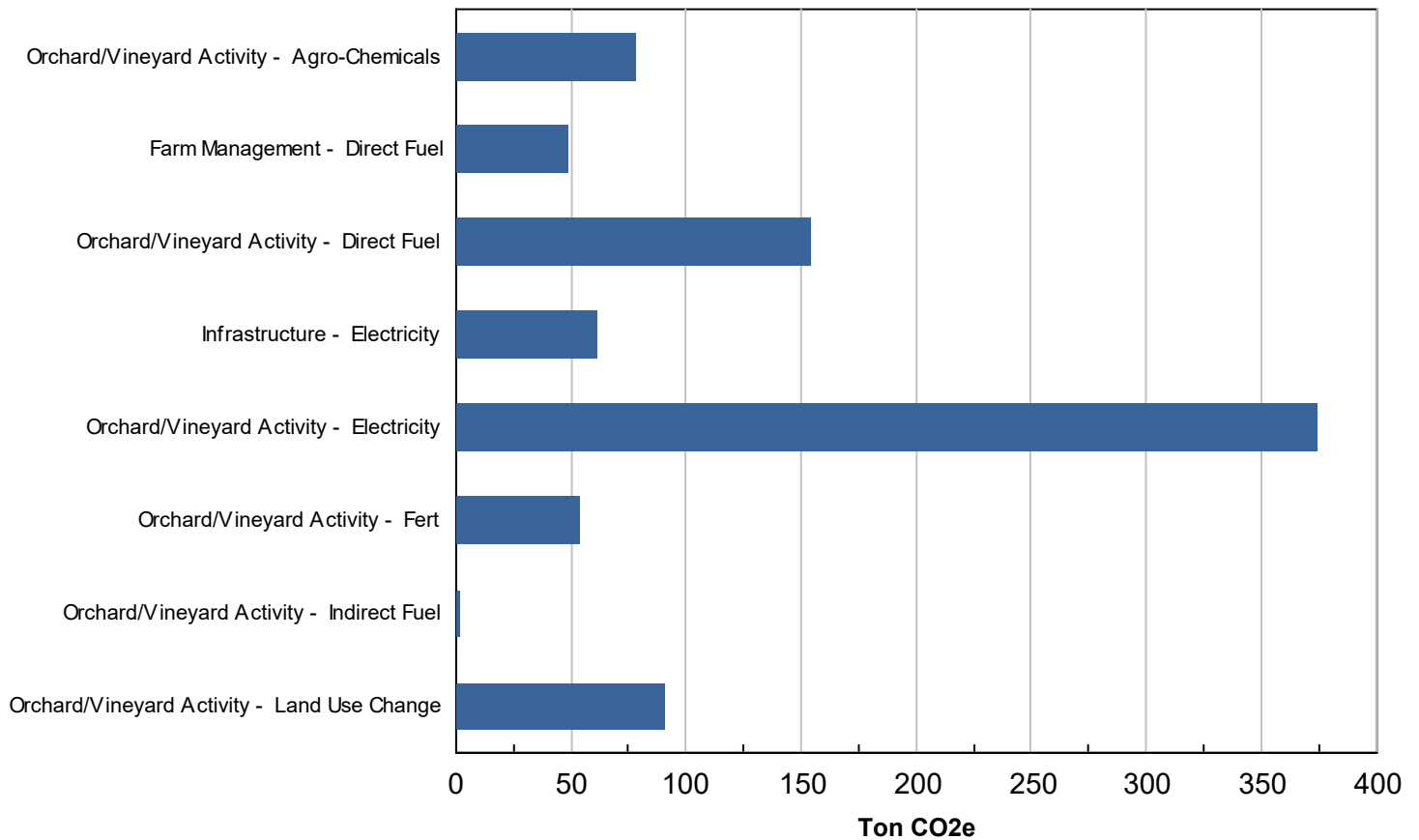
**Dataset:** 2023/02/07 13:12:26

**Data Collection Period:** Jan 2022 to Dec 2022

<b>Total</b>	<b>863.64</b>	<b>100.00</b>
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**Business Name:** Namoneng Citrus (Pty) Ltd  
**Dataset:** 2023/02/07 13:12:26  
**Data Collection Period:** Jan 2022 to Dec 2022

## Farm - Activity Breakdown



Activity Breakdown	Ton CO2e	%
Orchard/Vineyard Activity - Agro-Chemicals	78.30	9.07
Farm Management - Direct Fuel	49.09	5.68
Orchard/Vineyard Activity - Direct Fuel	154.15	17.85
Infrastructure - Electricity	61.28	7.10
Orchard/Vineyard Activity - Electricity	374.74	43.39
Orchard/Vineyard Activity - Fert	53.85	6.24
Orchard/Vineyard Activity - Indirect Fuel	1.97	0.23
Orchard/Vineyard Activity - Land Use Change	90.25	10.45
<b>Total</b>	<b>863.64</b>	<b>100.00</b>



**Business Name:** Namoneng Citrus (Pty) Ltd  
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## Detailed Carbon Emissions Breakdown

Detailed Activities	Ton CO2e	%
Electricity - Grid - Orchard/Vineyard Activity - BO	258.41	29.92
Electricity - Grid - Orchard/Vineyard Activity - NBO	116.33	13.47
Electricity - Grid - Infrastructure	61.28	7.10
Direct Fuel - Diesel - Orchard/Vineyard Activity - BO	86.51	10.02
Direct Fuel - Diesel - Orchard/Vineyard Activity - NBO	59.47	6.89
Direct Fuel - Diesel - Farm Management	49.09	5.68
Direct Fuel - Petrol - Orchard/Vineyard Activity	8.17	0.95
Indirect Fuel - Diesel - Orchard/Vineyard Activity - BO	1.05	0.12
Indirect Fuel - Diesel - Orchard/Vineyard Activity - NBO	0.72	0.08
Indirect Fuel - Petrol - Orchard/Vineyard Activity	0.20	0.02
Fert - - Synthetic Nitrogen - Orchard/Vineyard Activity - BO	27.26	3.16
Fert - - Synthetic Nitrogen - Orchard/Vineyard Activity - NBO	18.74	2.17
Fert - - Phosphorus - Orchard/Vineyard Activity - BO	1.61	0.19
Fert - - Phosphorus - Orchard/Vineyard Activity - NBO	1.10	0.13
Fert - - Potassium - Orchard/Vineyard Activity - BO	3.05	0.35
Fert - - Potassium - Orchard/Vineyard Activity - NBO	2.10	0.24
Agro-Chemicals - Agro-Chem - Fungicide - Orchard/Vineyard Activity - BO	14.21	1.65
Agro-Chemicals - Agro-Chem - Fungicide - Orchard/Vineyard Activity - NBO	9.77	1.13
Agro-Chemicals - Agro-Chem - Insecticide - Orchard/Vineyard Activity - BO	12.24	1.42
Agro-Chemicals - Agro-Chem - Insecticide - Orchard/Vineyard Activity - NBO	8.41	0.97
Agro-Chemicals - Agro-Chem - Herbicide - Orchard/Vineyard Activity - BO	19.95	2.31
Agro-Chemicals - Agro-Chem - Herbicide - Orchard/Vineyard Activity - NBO	13.72	1.59
Land Use Change - Grass land - Orchard/Vineyard Activity	90.25	10.45
<b>Total</b>	<b>863.64</b>	<b>100.00</b>

**Business Name:** Namoneng Citrus (Pty) Ltd  
**Dataset:** 2023/02/07 13:12:26  
**Data Collection Period:** Jan 2022 to Dec 2022

## Farm Consumption Benchmarks

Commodity	Consumption Measure	Result	Benchmark
Citrus (hard)	kL Water per Ton Fruit	126.98	The CCC regional average is 64.24 kL Water per Ton Fruit and consist of 1 data points.
Citrus (hard)	kL Water per Bearing Ha	6,644.68	N/A
Citrus (hard)	kL Water per Non-Bearing Ha	6,280.38	N/A
Citrus (hard)	kWh Orchard / Vineyard Electricity per Ton Fruit	31.34	The CCC regional average is 52.64 kWh Orchard / Vineyard Electricity per Ton Fruit and consist of 1 data points.
Citrus (hard)	kWh Orchard / Vineyard Electricity per Bearing Ha	1,640.05	The CCC regional average is 2405.90 kWh Orchard / Vineyard Electricity per Bearing Ha and consist of 1 data points.
Citrus (hard)	Liters Orchard / Vineyard Diesel per Ton Fruit	2.69	The CCC regional average is 3.66 Liters Orchard / Vineyard Diesel per Ton Fruit and consist of 1 data points.
Citrus (hard)	Liters Orchard / Vineyard Diesel per Bearing Ha	140.94	The CCC regional average is 167.25 Liters Orchard / Vineyard Diesel per Bearing Ha and consist of 1 data points.
Citrus (hard)	Kg Pure N per Ton Fruit	0.23	The CCC regional average is 0.26 Kg Pure N per Ton Fruit and consist of 1 data points.
Citrus (hard)	Kg Pure N per Bearing Ha	12.07	The CCC regional average is 11.82 Kg Pure N per Bearing Ha and consist of 1 data points.

Commodity	Consumption Measure	Result	Benchmark
Citrus (soft)	kL Water per Ton Fruit	79.15	The CCC regional average is 143.72 kL Water per Ton Fruit and consist of 1 data points.
Citrus (soft)	kL Water per Bearing Ha	4,248.16	N/A
Citrus (soft)	kL Water per Non-Bearing Ha	6,512.52	N/A
Citrus (soft)	kWh Orchard / Vineyard Electricity per Ton Fruit	26.41	The CCC regional average is 117.77 kWh Orchard / Vineyard Electricity per Ton Fruit and consist of 1 data points.
Citrus (soft)	kWh Orchard / Vineyard Electricity per Bearing Ha	1,417.46	The CCC regional average is 2418.34 kWh Orchard / Vineyard Electricity per Bearing Ha and consist of 1 data points.
Citrus (soft)	Liters Orchard / Vineyard Diesel per Ton Fruit	2.63	The CCC regional average is 8.19 Liters Orchard / Vineyard Diesel per Ton Fruit and consist of 1 data points.
Citrus (soft)	Liters Orchard / Vineyard Diesel per Bearing Ha	140.94	The CCC regional average is 168.12 Liters Orchard / Vineyard Diesel per Bearing Ha and consist of 1 data points.
Citrus (soft)	Kg Pure N per Ton Fruit	0.22	The CCC regional average is 0.58 Kg Pure N per Ton Fruit and consist of 1 data points.
Citrus (soft)	Kg Pure N per Bearing Ha	12.07	The CCC regional average is 11.88 Kg Pure N per Bearing Ha and consist of 1 data points.

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**Dataset:** 2023/02/07 13:12:26

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