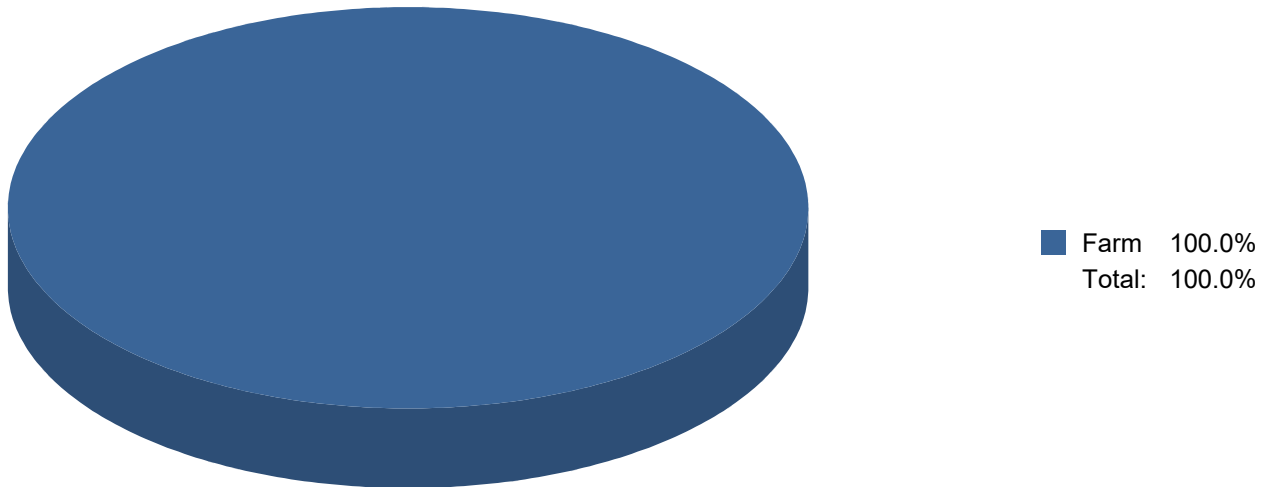


## Carbon Calculator Results

**Business Name:** Bersdale Farm  
**Country Name:** South Africa  
**Creation Date:** 8/20/2025 9:08:00AM  
**Data Collection Period:** Mar 2024 to Feb 2025  
**Report Grade:** B1 - This dataset has been checked by CCC and is part of the benchmark.

## Business Unit - Boundary View



| Boundary     | Tonne CO <sub>2</sub> e | %             |
|--------------|-------------------------|---------------|
| Farm         | 128.54                  | 100.00        |
| <b>Total</b> | <b>128.54</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:

Bersdale Farm

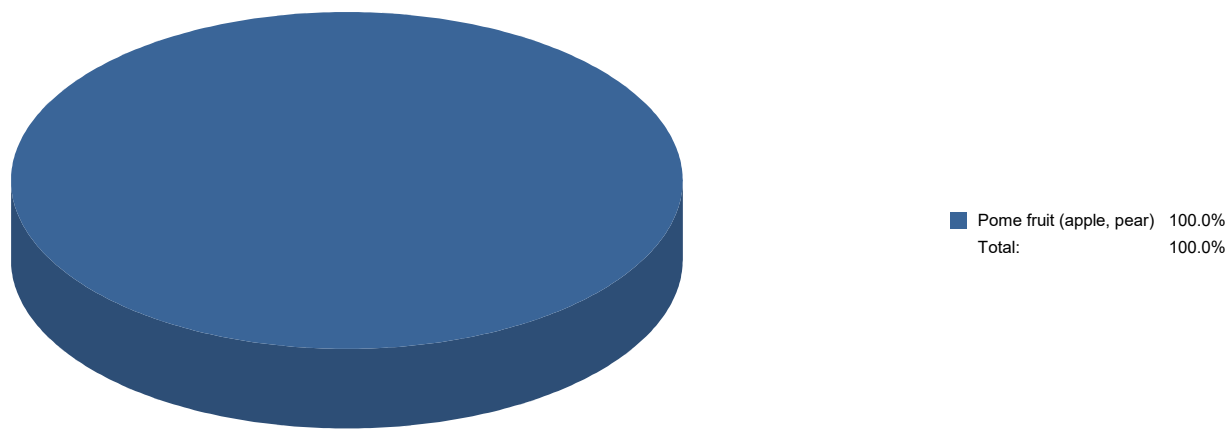
Dataset:

8/20/2025 9:08:00AM

Data Collection Period:

Mar 2024 to Feb 2025

# Business Unit - Commodity View



| Commodity                | Tonne CO <sub>2</sub> e | %      |
|--------------------------|-------------------------|--------|
| Pome fruit (apple, pear) | 128.54                  | 100.00 |
| Total                    | 128.54                  | 100.00 |

Business Name:

Bersdale Farm

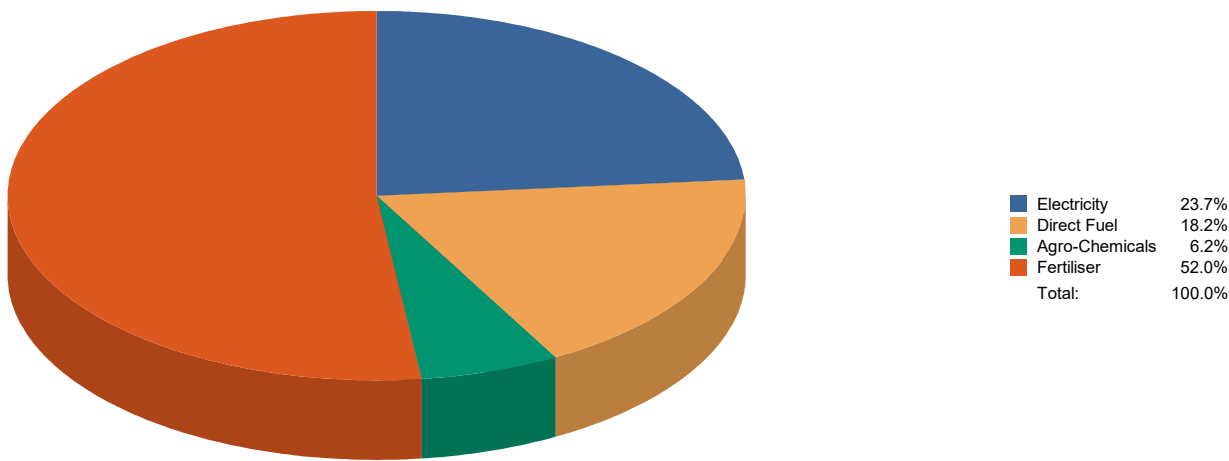
Dataset:

8/20/2025 9:08:00AM

Data Collection Period:

Mar 2024 to Feb 2025

# Farm - Emission Source View



| Emission Source | Tonne CO <sub>2</sub> e | %      |
|-----------------|-------------------------|--------|
| Electricity     | 30.41                   | 23.66  |
| Direct Fuel     | 23.35                   | 18.17  |
| Agro-Chemicals  | 7.92                    | 6.16   |
| Fertiliser      | 66.86                   | 52.02  |
| Total           | 128.54                  | 100.00 |

Business Name:

Bersdale Farm

Dataset:

8/20/2025 9:08:00AM

Data Collection Period:

Mar 2024 to Feb 2025

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 96 data points. |

Farm Hectare Breakdown

| Commodity                | Tonne CO <sub>2</sub> e per Bearing Ha |
|--------------------------|----------------------------------------|
| Pome fruit (apple, pear) | 3.13                                   |

Farm Scope Breakdown

|         | Tonne CO <sub>2</sub> e | %      |
|---------|-------------------------|--------|
| Scope 1 | 52.77                   | 41.05  |
| Scope 2 | 30.39                   | 23.64  |
| Scope 3 | 45.38                   | 35.30  |
| Total   | 128.54                  | 100.00 |

Business Name:

Bersdale Farm

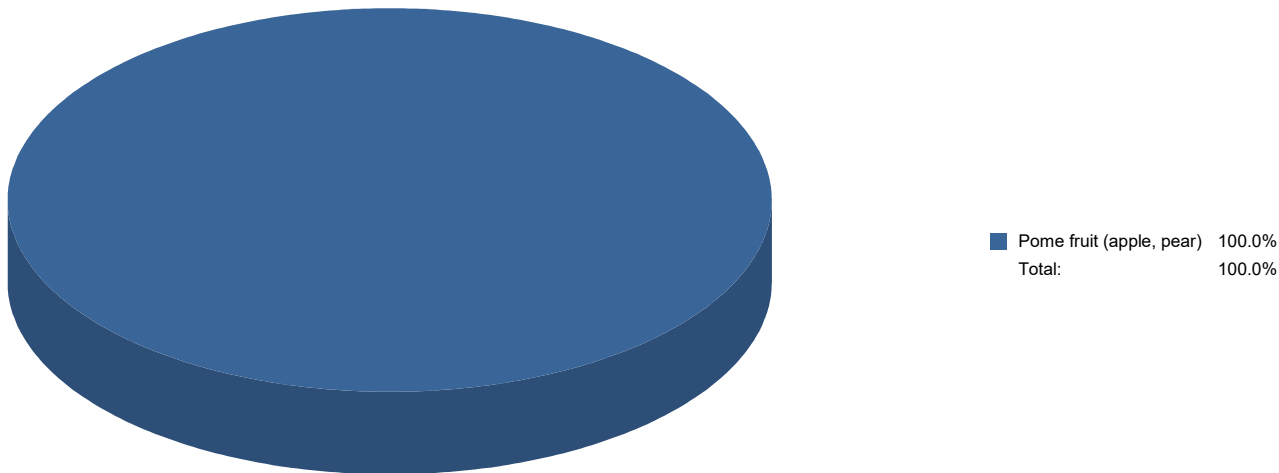
Dataset:

8/20/2025 9:08:00AM

Data Collection Period:

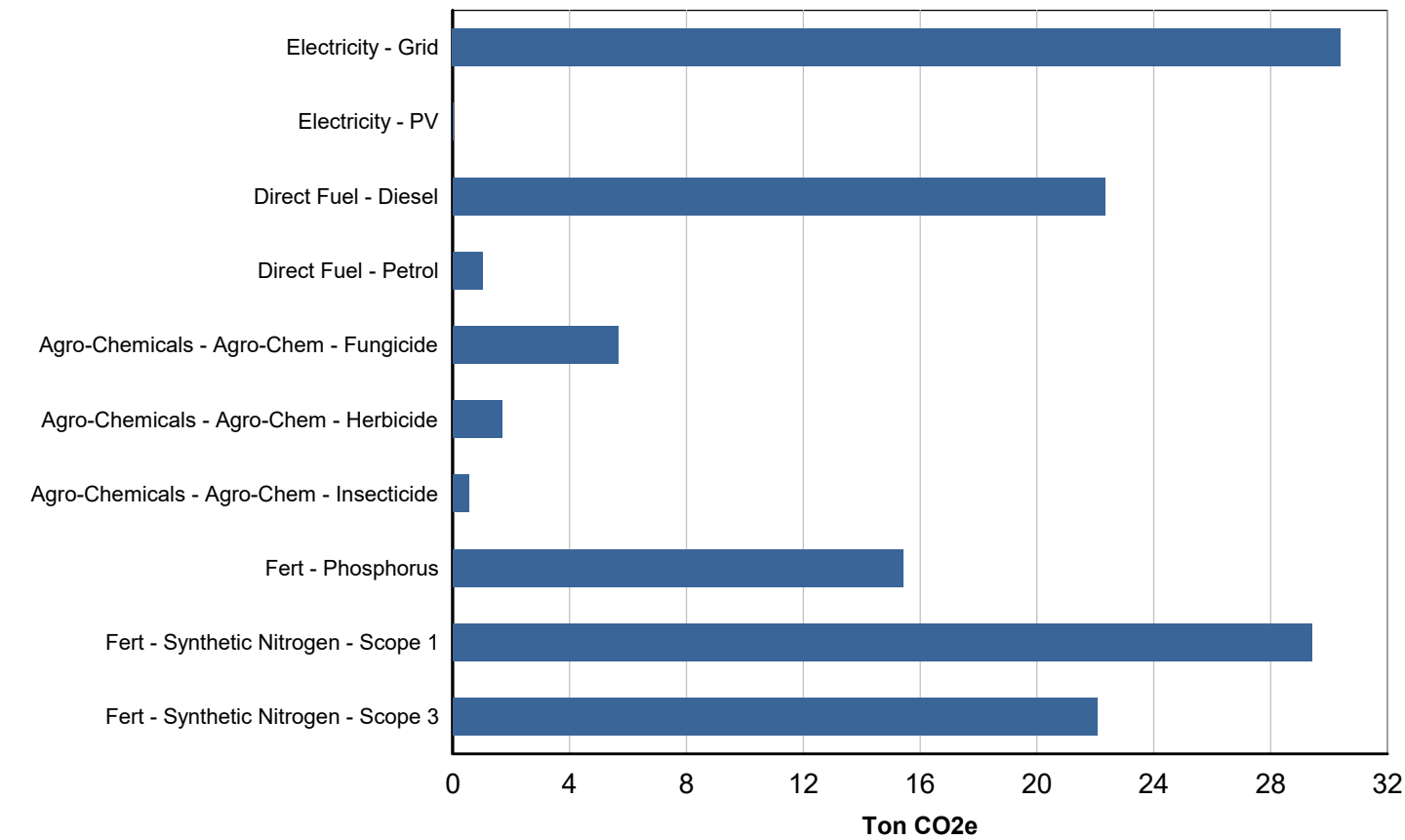
Mar 2024 to Feb 2025

# Farm - Commodity View



| Commodity                | Tonne CO <sub>2</sub> e | %      |
|--------------------------|-------------------------|--------|
| Pome fruit (apple, pear) | 128.54                  | 100.00 |
| Total                    | 128.54                  | 100.00 |

## Farm - Emission Source Breakdown



| Emission Source                          | Tonne CO <sub>2</sub> e | %      |
|------------------------------------------|-------------------------|--------|
| Electricity - Grid                       | 30.39                   | 23.64  |
| Electricity - PV                         | 0.02                    | 0.01   |
| Direct Fuel - Diesel                     | 22.32                   | 17.36  |
| Direct Fuel - Petrol                     | 1.04                    | 0.81   |
| Agro-Chemicals - Agro-Chem - Fungicide   | 5.66                    | 4.40   |
| Agro-Chemicals - Agro-Chem - Herbicide   | 1.70                    | 1.32   |
| Agro-Chemicals - Agro-Chem - Insecticide | 0.57                    | 0.44   |
| Fert - Phosphorus                        | 15.41                   | 11.99  |
| Fert - Synthetic Nitrogen - Scope 1      | 29.40                   | 22.87  |
| Fert - Synthetic Nitrogen - Scope 3      | 22.05                   | 17.15  |
| Total                                    | 128.54                  | 100.00 |

Business Name:

Bersdale Farm

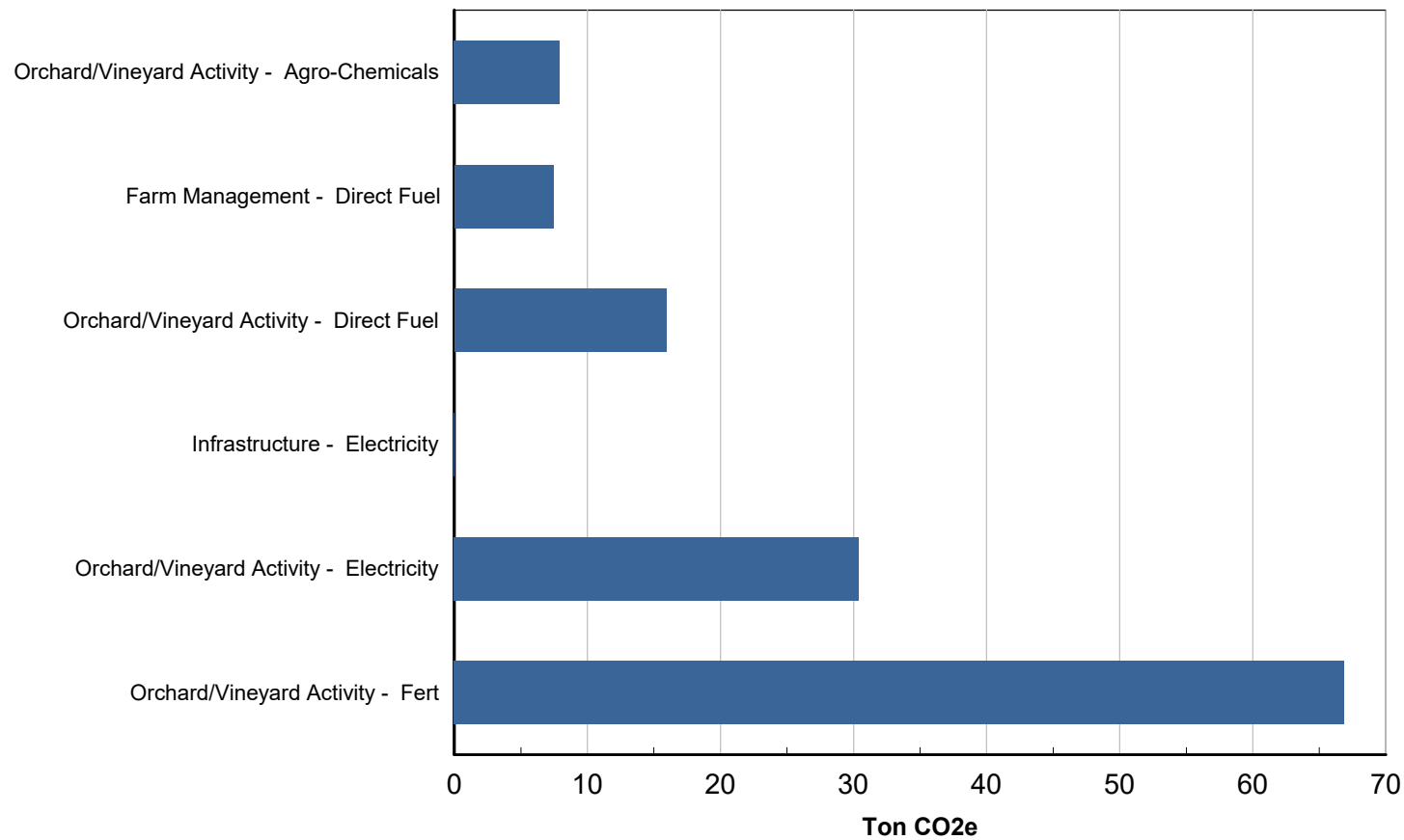
Dataset:

8/20/2025 9:08:00AM

Data Collection Period:

Mar 2024 to Feb 2025

## Farm - Activity Breakdown



| Activity Breakdown                         | Tonne CO <sub>2</sub> e | %      |
|--------------------------------------------|-------------------------|--------|
| Orchard/Vineyard Activity - Agro-Chemicals | 7.92                    | 6.16   |
| Farm Management - Direct Fuel              | 7.44                    | 5.79   |
| Orchard/Vineyard Activity - Direct Fuel    | 15.91                   | 12.38  |
| Infrastructure - Electricity               | 0.02                    | 0.01   |
| Orchard/Vineyard Activity - Electricity    | 30.39                   | 23.64  |
| Orchard/Vineyard Activity - Fert           | 66.86                   | 52.02  |
| Total                                      | 128.54                  | 100.00 |

Business Name:

Bersdale Farm

Dataset:

8/20/2025 9:08:00AM

Data Collection Period:

Mar 2024 to Feb 2025

# Detailed Carbon Emissions Breakdown

| Detailed Activities                                                       | Tonne CO <sub>2</sub> e | %      |
|---------------------------------------------------------------------------|-------------------------|--------|
| Electricity - Grid - Orchard/Vineyard Activity - BO                       | 30.39                   | 23.64  |
| Electricity - PV - Infrastructure                                         | 0.02                    | 0.01   |
| Direct Fuel - Diesel - Orchard/Vineyard Activity - BO                     | 14.88                   | 11.57  |
| Direct Fuel - Diesel - Farm Management                                    | 7.44                    | 5.79   |
| Direct Fuel - Petrol - Orchard/Vineyard Activity                          | 1.04                    | 0.81   |
| Fert - - Synthetic Nitrogen - Orchard/Vineyard Activity - BO              | 51.45                   | 40.03  |
| Fert - - Phosphorus - Orchard/Vineyard Activity - BO                      | 15.41                   | 11.99  |
| Agro-Chemicals - Agro-Chem - Fungicide - Orchard/Vineyard Activity - BO   | 5.66                    | 4.40   |
| Agro-Chemicals - Agro-Chem - Insecticide - Orchard/Vineyard Activity - BO | 0.57                    | 0.44   |
| Agro-Chemicals - Agro-Chem - Herbicide - Orchard/Vineyard Activity - BO   | 1.70                    | 1.32   |
| Total                                                                     | 128.54                  | 100.00 |

Business Name:

Bersdale Farm

Dataset:

8/20/2025 9:08:00AM

Data Collection Period:

Mar 2024 to Feb 2025

# Farm Consumption Benchmarks

| Commodity                | Consumption Measure                               | Result   | Benchmark                                                                                                            |
|--------------------------|---------------------------------------------------|----------|----------------------------------------------------------------------------------------------------------------------|
| Pome fruit (apple, pear) | kL Water per Ton Fruit                            | 44.12    | The CCC regional average is 76.17 kL Water per Ton Fruit and consist of 90 data points.                              |
| Pome fruit (apple, pear) | kL Water per Bearing Ha                           | 1,829.27 | The CCC regional average is 4779.49 kL Water per Bearing Ha and consist of 90 data points.                           |
| Pome fruit (apple, pear) | kWh Orchard / Vineyard Electricity per Ton Fruit  | 17.65    | The CCC regional average is 46.96 kWh Orchard / Vineyard Electricity per Ton Fruit and consist of 90 data points.    |
| Pome fruit (apple, pear) | kWh Orchard / Vineyard Electricity per Bearing Ha | 731.71   | The CCC regional average is 2591.13 kWh Orchard / Vineyard Electricity per Bearing Ha and consist of 90 data points. |
| Pome fruit (apple, pear) | Liters Orchard / Vineyard Diesel per Ton Fruit    | 3.53     | The CCC regional average is 7.42 Liters Orchard / Vineyard Diesel per Ton Fruit and consist of 90 data points.       |
| Pome fruit (apple, pear) | Liters Orchard / Vineyard Diesel per Bearing Ha   | 146.34   | The CCC regional average is 430.90 Liters Orchard / Vineyard Diesel per Bearing Ha and consist of 90 data points.    |
| Pome fruit (apple, pear) | Kg Pure N per Ton Fruit                           | 2.06     | The CCC regional average is 1.30 Kg Pure N per Ton Fruit and consist of 90 data points.                              |
| Pome fruit (apple, pear) | Kg Pure N per Bearing Ha                          | 85.37    | The CCC regional average is 78.01 Kg Pure N per Bearing Ha and consist of 90 data points.                            |

|                                |                      |
|--------------------------------|----------------------|
| <b>Business Name:</b>          | Bersdale Farm        |
| <b>Dataset:</b>                | 8/20/2025 9:08:00AM  |
| <b>Data Collection Period:</b> | Mar 2024 to Feb 2025 |