

Farm Info

Farm name	Location
Growing season	
Total farm area (ha)	Melons area (ha)
Watermelons (tonnes)	Rock melons (tonnes)
Honeydew (tonnes)	



Life Cycle Assessment

- This study follows **ISO 14040** and **ISO 14044**. Full details of the study is available at www.xyz.com
- The functional unit is **one kilogram of melons** produced in Australia and ready for distribution. It covers the melons' lifecycle from orchards (cradle) through to retail (gate).

We're looking at these environmental impacts:

Global Warming Potential (GWP-total) measures greenhouse gas emissions from melon farming. This is also called your carbon footprint. It is measured in kilograms of carbon dioxide equivalent (kg CO₂-eq).

Water Use (WDP) measures the freshwater consumed in production. This helps you to improve your water efficiency. It is measured in cubic metres of water consumed (m³ water-eq).

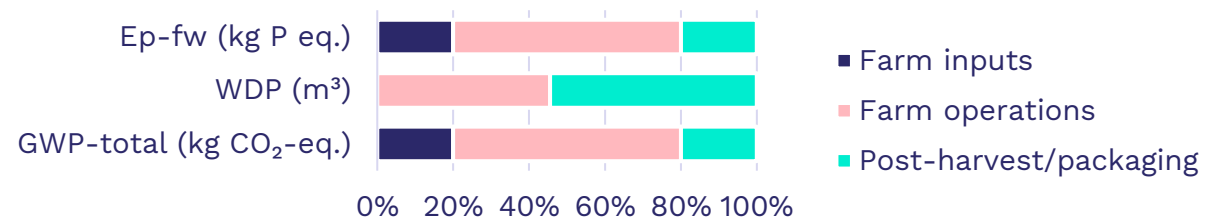
Eutrophication (EP-fw) measures the nutrient runoff, such as nitrogen and phosphorus from farming activities into freshwater systems. It is measured in kilograms of phosphate equivalent (kg PO-eq).

The hotspot analyses where making changes had the biggest impact.

Results

Impact	Unit	Farm inputs	Farm operations	Post-harvest/packaging	Total
GWP-total	kg CO ₂ -eq.	0.14	0.42	0.14	0.70
WDP	m ³		0.167	0.200	0.829
Ep-fw	kg P eq.	2.24 E-04	6.72 E-04	2.24 E-04	1.12 E-03

Hotspot Analysis



Key findings and recommendations

- Farm inputs – especially chemical use are major hotspot
- Packaging is another hotspot – investigate ways to reduce your packaging
- Investigate ways to maintain good water governance
- Investigate the potential of using electric-powered vehicles
- Improve farm productivity – so impacts per kg of melons will be reduced