



HUMUS C™

Benefits

- Improved Soil structure
- Increased Cation Exchange Capacity
- Increased pH Buffering Capacity
- Enhanced Biological activity
- Increased Soil fertility

For soils low in organic matter these benefits lead to:

- Improved soil aggregation for increased aeration, reduced bulk density, reduced erosion and increased root development
- Increased water holding capacity (sandy soils) and improved drainage (clay soils) for improved water use efficiency
- Reduced nutrient leaching and increased nutrient availability for Improved fertiliser efficiency
- Reduced harmful effects from soil acidifying agricultural practices
- Enhanced disease suppression

All these benefits result in increased productivity

Humus C™ is available as raw product, 4mm and 10mm screened and pellet form. Pellet Humus C improves transport, handling and spreading efficiencies.

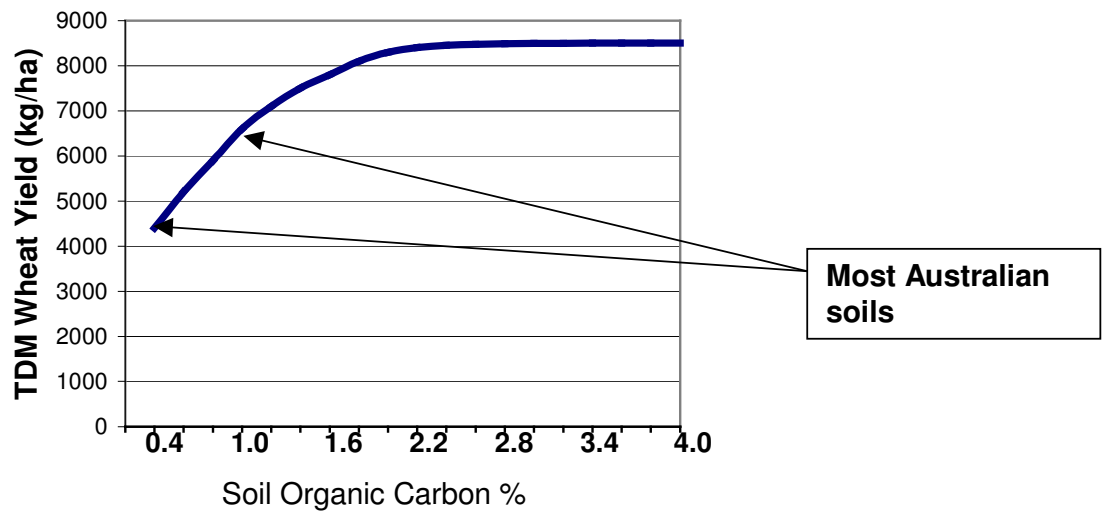
Humus C™ contd/...

Application Rates

Approximately 75% of Australian soils have less than 1% organic carbon. Given this widespread and severe soil organic carbon deficiency, most soils will benefit from the on-going application of Humus C™.

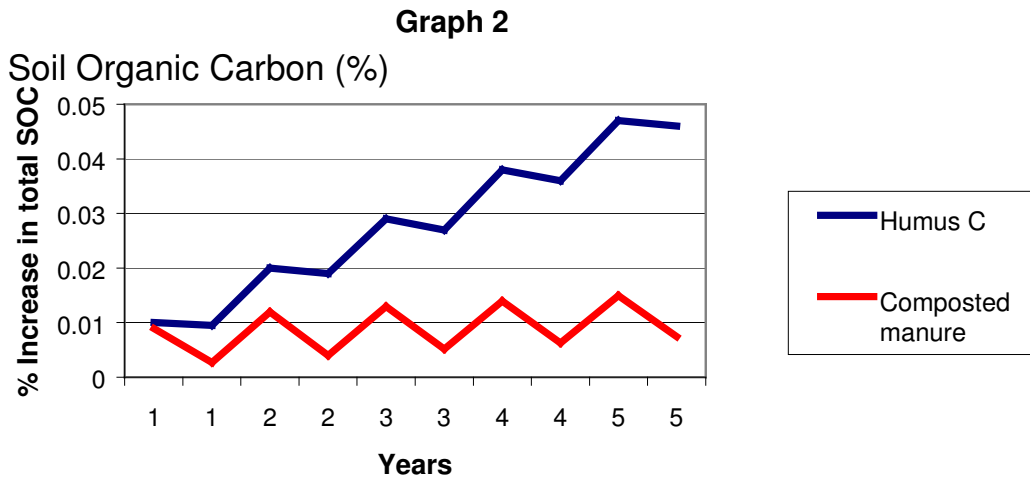
Graph 1 (Adapted from Jansen *et al.*, 1992) illustrates that Humus C™ application will result in greater long-term crop yields through improved soil health for low organic carbon content soils. Humus C™ leads to additional economic savings through more efficient water and fertiliser use.

Graph 1



Humus C™ contd/...

Graph 2 shows the estimated % increase in SOC from 250 kg/ha per annum applications of Humus C™ and composted manure over 5 years. Note the greater decomposition rate of the composted manure.



The table below gives estimates of the required application rates of Humus C™ for expected percentage increases in total soil organic carbon.

To increase total soil organic carbon by X% in the top 5cm of soil profile using Humus C™ Pellets

% Increase in Total SOC after one year	0.01	0.02	0.05	0.1	0.15	0.2
Humus C™ tonne/ha	0.25	0.5	1.25	2.5	3.75	5.0

Note: The indicated Humus C™ application rates and effects on soil organic carbon levels are estimates based on indicative organic carbon and moisture contents, soil bulk densities and decomposition rates. A soil's organic matter content is approximately double its organic carbon content.