



# Superfly<sup>®</sup>

## Probiotic Superfood for Plants



**Superfly<sup>®</sup> certified organic fertiliser is packed with beneficial microbes, chitin and nutrients to improve soil health, activate natural plant defences and accelerate plant growth.**

### **Beneficial microbes**

Builds healthy, resilient, bio-diverse soil with 240 million living microbes per gram.

### **Boosts natural defenses**

Prevents root rot, protects against pathogenic fungi & nematodes and activates plant defenses against insect attack.

### **Enhances growth**

Improves soil structure and accelerates plant growth with a balance of fast and slow-release nutrients, calcium and 10+ trace elements.

### **Soil wetter**

170% moisture holding capacity, and high in organic matter to enhance water penetration, maximise nutrient uptake and increase watering efficiency.

### **Suitable for all soil types**

Neutral pH, low in salt and high in humic acid for all soil types, including clay.

### **Sustainable**

Every tonne of Superfly fertiliser offsets 5 tonnes of CO2 emissions.





## Nutrient Analysis

Analysis (dry weight basis)	%w/w
Nitrogen (N)	3.5
Phosphorus (P)	1.9
Potassium (K)	2.1
Sulphur (S)	0.4
Calcium (Ca)	8.6
Magnesium (Mg)	0.7
Iron (Fe)	0.2
Manganese (Mn)	0.0424
Zinc (Zn)	0.031
Copper (Cu)	0.0045
Boron (B)	0.00144
Molybdenum (Mo)	0.00018
Silicon (Si)	0.084
Cobalt (Co)	0.00014
Carbon (C)	41.5
Organic Matter	70.50%
Water holding capacity	170%
Chitin	10%

### Ingredients:

100% Black Soldier Fly Larvae Frass and Exoskeletons

### Available as:

Superfly fertiliser ingredients are available as a fine granule, in 10kg pillow bags, Bulka Bags or by tonne.



Fine Granule

Superfly fertiliser can be packaged as standalone product or blended. Bardee can custom blend to your specifications.

## What is a probiotic superfood for plants?

Superfly is made with unique ingredients from Black Soldier Fly Larvae (BSFL) frass and exoskeletons. It's a powerful tool for plant nutrition alive with 240 million beneficial microorganisms per gram, contains 10% chitin and nutritionally beneficial minerals for increased bio-diversity and healthy, well-structured soil.

### Rich source of natural chitin

The presence of insect chitin triggers the activation of natural plant defences to grow thicker stalks and stems and produce natural toxins which fend off insects that feed on sap and leaves.

Scientific research has shown chitin:

- Accelerates germination, growth and increases seedling survival;
- Prevents root rot and leads to less pathogenic fungi and nematodes in the soil;
- Improves the proliferation of legume-rhizobia (symbiotic root nodules), supporting the higher capture of atmospheric N.





## How to Apply

### Horticulture, Viticulture, and Hemp

- Apply 500kg per hectare OR 5kg per 100 square meters.
- Spread with a fertiliser or compost spreader.

### Lawns, Ovals, and Golf courses

- Broadcast 250kg per hectare OR 2.5kg per 100 square meters.
- Golf Tees
  - Spring to Autumn: Every 4-6 weeks apply 2.5kg per 100m<sup>2</sup>
  - Autumn to Winter: Every 4-6 weeks apply 3-4kg per 100m<sup>2</sup> (or apply twice at half rate).
- Ovals:
  - Apply 200kg per hectare or 2kg per 100 square meters.
- Lawns apply in Spring and early Autumn.

### Flowers, vegetable beds and garden beds

- Apply 50g per square metre and water in.
- Gently incorporate into the soil for best results.
- After planting, top dress by sprinkling a thin layer above the root zone.
- Re-apply every six weeks during growth season.

### Acid-loving, and Australian indigenous plants

- Apply 25g per square metre, or 35g for fast-growing plants, starting a minimum of 10cm from the base of the plant, then water in.
- Re-apply in spring and autumn.

### Ornamental shrubs & roses

- Apply 50g per square metre, starting a minimum of 10cm from the base of the plant, then water in.
- Re-apply every 6 to 8 weeks from spring until mid-autumn.

### Potted plants

- Sprinkle a thin layer leaving a small clearance around the stem of the plant and water in.
- Re-apply as a top dress every six weeks.

### Planting trees and shrubs

- Apply 15g per 10cm pot size at the root base during planting and water in.

### Fruit trees (all types)

- For young trees, apply 300g in spring and autumn, and water in.
- For mature trees, apply 600g in 10cm holes across the root area of the tree, in spring and autumn, and water in.

These are general guidelines. Please adjust application rates for specific use.

## Reshaping the global food system.

Bardee is founded by Phoebe Gardner, an ex-architect, and Alex Arnold, an entomologist, who started the company in 2019. We started with processing food waste in a university car park over the weekend to feed our insects. Now, we're the largest insect breeding facility in Australia.

At our pilot facility, Moonbase, we process 10 tonnes of food waste every 8 hours and transform it into all-natural protein, oil, and organic fertilisers that offset CO<sub>2</sub> emissions.

We're a world-leading team of entomologists, technicians, operators, and leaders driven to creating the circular economy the world needs.

We're insect-obsessed, solutions-focused, big picture thinkers who thrive on constantly innovating.



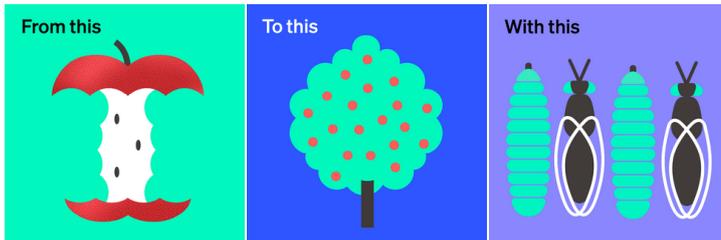


For every kilo of Bardee products you use, you are helping to offset CO2e emissions, so from us, the planet, and your plants... Thank you!

**5 kg  
CO<sub>2</sub>  
offset**  
per kilo

# Bardee

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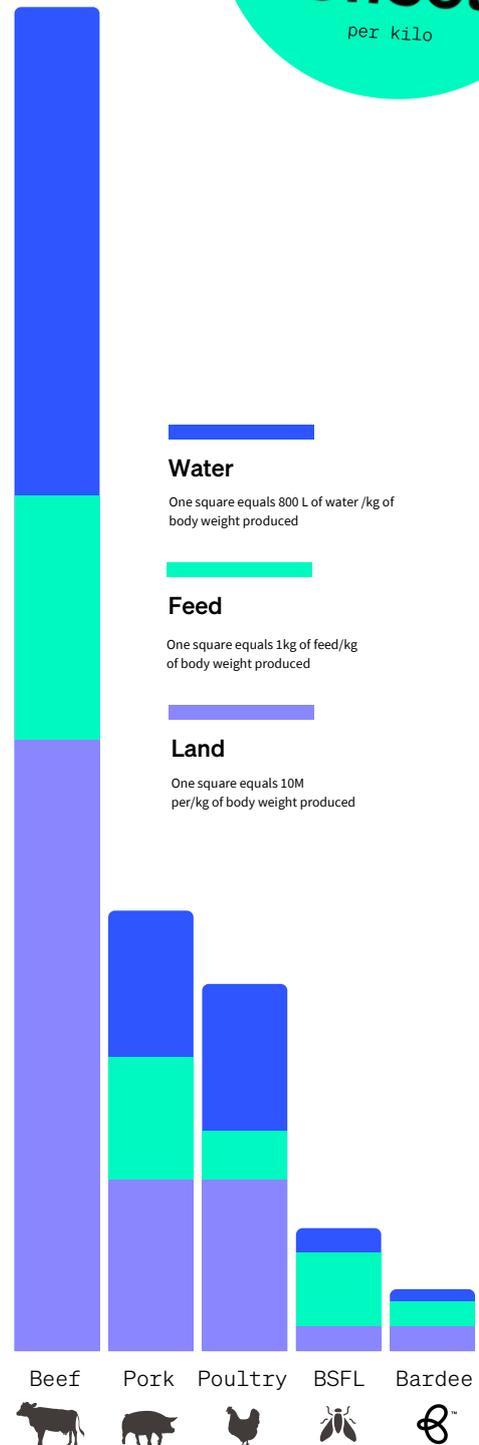


70% of food wastage occurs before we see food on our plate, and most usually ends up in landfill.

When food goes to landfill and rots, it produces methane – a greenhouse gas 30x more potent than carbon dioxide.

Bardee turns food waste into a perfect feed for black soldier fly larvae. This process uses no additional water and those little grubs gobble it up, growing 3,000x in size in less than a week!

Our world-leading vertical farming system uses less resources, even more efficiently than traditional BSFL manufacturers.



### Efficiency of the Black Soldier Fly

Annual land, feed & water usage of beef, pork, poultry and black soldier fly farming

