

Poultry Manure

know the facts...



Let's compare:

TERRA FIRMA POULTRY MANURE PELLETS	RAW MANURE
Moisture Content ~ 5-10%	Moisture Content ~ 30-40% +
Typical analysis: N3.78% P2.11% K2.93%	Typical analysis: N3.1% P1.6% K1.8%
Sawdust screened out to produce a more nutrient dense concentrated product	Contains Sawdust which causes Nitrogen Drawdown (refer right) Reduces nutrient analysis
Easy to Spread	Hard to Spread (Belt Spreader - more costly)
Pellets allow more controlled release and won't wash away	Dusty and can blow away or leach quickly in heavy rain. Dust can sit on leaf and has potential for ammonia gas burn.
Composted and Tested to kill harmful bacteria	Potential for harmful bacteria, e-coli, salmonella, listeria, botulism. Risk for Animal Disease
Right form of N (refer right)	Wrong form of N (refer right)

Fully composted, pelletised poultry manure avoids the inherent problems associated with the use of raw manures. The main issue is that raw manures flood the soil with excessive amounts of nitrate, an inorganic form of nitrogen.

This leads to many production problems such as increased pest and disease pressure, unpalatable pastures and increased leaching. As nitrates are negatively charged and therefore repelled by the soil colloids, high levels are lost due to leaching under irrigation or heavy rainfall.

Terra Firma's fully enclosed composting processes avoids these issues through the conversion of unwanted nitrates into more complex nitrogen forms such as amino acids and microbial proteins. These complex forms of nitrogen are more stable and plant available yet easier for the plant to metabolise. This results in increased energy for plant growth.

Why use Terra Firma's Poultry Manure Pellets?

With **all essential and trace elements, high levels of organic carbon** and bio-stimulants, this **biologically active** product is designed to improve soil water and nutrient holding capacity, boost microbial activity, and increase plant growth and crop yields.

At Terra Firma Fertilisers, we compost within a fully enclosed system to avoid leaching or loss of key nutrients and humic & fulvic acid. **Terra Firma's pellets contain up to 30% humic & fulvic acid**, natural bio-stimulants that increase microbial activity and plant nutrient uptake.

Additionally, we screen our poultry manure compost over a 5mm screen prior to pelletising. This removes the sawdust and delivers a **more nutrient-rich product**, as opposed to hammermilling or crushing the sawdust to be kept within the compost base, as other processes do. This also **reduces the risk of nitrogen drawdown in the soil**.

(Nitrogen drawdown occurs when microbe organisms are presented with raw carbon, but insufficient nitrogen to utilise it. The microbes then deplete soil nitrogen levels to break down the carbon, leaving little nitrogen available to the plant.)

Active and Diverse Beneficial Biology: Terra Firma's pellets are proven to contain useful levels of beneficial microbes, including moderate to high levels of plant-associated saprophytic fungi and actinobacteria. These microbes enhance soil health and nutrient availability, promoting vigorous crop growth.

MICROBE GROUP	COMPOST	PMP PELLET	COMMENT (PMP PELLET)
Actinobacteria	53.3	51.8	Very High
Firmicutes	43.8	45.0	Very High
Saprophytic Fungi	70.3	60.6	High
Plant Assoc. Fungi	44.9	42.4	High
Ectomycorrhizae (EMF)	0.1	0.7	High
Endomycorrhizae (AMF)	0.06	0.1	Moderate

Flexible application and use! Terra Firma's pellets are used as a biological activator or a full planting fertiliser in most broadacre crops, rotations and cover crops as they deliver a "shot" of plant-available nutrients and beneficial biology directly to the crop rhizosphere!



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Disclaimer: Terra Firma products are regularly tested to ensure quality standards. However, slight variances can arise due to the nature of the naturally occurring inputs which may in turn produce some variance to the analysis. This information is to be used as a guide only to enable you to best assess whether it best suits your individual requirements. Terra Firma will take no responsibility whatsoever for any errors or omissions in the information.*

Poultry Manure

the base of all our products...



Our fully composted, premium poultry manure base is the foundation of our entire range. Composted fully undercover, this biologically activated organic base is rich in readily available nutrients to supply a wide variety of minerals that boost microbe and plant growth.

Available in Pellets, Granules & Fines, this product is a ACO Certified Organic Allowable Farm & Garden Input.

APPLICATION RATES

HOME GARDEN:

150g - 300g per square metre in the vegetable garden and around established shrubs. Suitable for use on natives at lower rates.

COMMERCIAL VEGETABLES & VINE FRUIT PRODUCTION:

500 - 2500kg/Ha as a pre-plant application depending on the type and quantity of other soil inputs.

TREE CROPS:

250 - 500kg/Ha depending on age of trees or 500g per tree for each year of the trees age, up to 4kg. Apply under trees with more around the drip line. Apply in Spring and Autumn.

BROADACRE CROPS:

75kg - 150kg/Ha in the furrow with the seed as a biological activator.

PASTURE:

200kg-1000kg/ha prior to or throughout growing season.



Nitrogen (N)	4.20%	Iron (Fe)	2000mg/kg
Phosphorus (P)	1.80%	Manganese (Mn)	650mg/kg
Potassium (K)	2.00%	Copper (Cu)	170mg/kg
Sulphur (S)	0.60%	Zinc (Zn)	504mg/kg
Calcium (Ca)	3.00%	Boron (B)	47.50mg/kg
Magnesium (Mg)	0.80%	Molybdenum (Mo)	10.20mg/kg
Silicon (Si)	216mg/kg	Cobalt (Co)	2.91mg/kg
Carbon (C)	38.00%		

Analysis Report Sample updated October 2024

ACO Certified Organic 149AI



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