



What is Promeal's Frasstgrow?

FrasstGrow™ is a carefully balanced blend of mealworm, superworm, and cricket frass—a natural insect manure. It concentrates N-P-K, organic matter, beneficial microbes, and chitin to steadily nourish the soil. As modern insect farming expands worldwide for sustainable protein and fertilizers, FrasstGrow offers farmers a powerful, nature-made manure that supports strong roots, healthy leaves, and resilient yields.

FrasstGrow uses three complementary frasses to deliver a broader, more reliable effect across crops, soils, and seasons.

- **Mealworm & Superworm → Nutrient density:** Known for higher total N and P along with organic matter that steadily mineralizes in soil. Good base for vigour and biomass.
- **Cricket → Biostimulant / Elicitor effect:** At low rates, cricket frass behaves like a biostimulant (better rooting, chlorophyll); at slightly higher rates it can prime plant defences (elicitor), helping plants stay resilient.

Blend → Soil biology boost: The tri-species mix supports a diverse rhizosphere. Farmers often notice faster early growth, stronger root hair development, and better nutrient uptake when frass is used alongside routine manures or fertilizers.



Mealworms



Superworms



Crickets

Mealworm Frass



N ~ 2.5–3.5 %
P ~ 2.5–3.0 %
K ~ 2.0–3.0 %
Moisture: ~ 1 – 2%



Superworm Frass



N ~ 3.5–4.5 %
P ~ 3.0–5 %
K ~ 1.5–2.5 %
Moisture: ~ 2–3%



Cricket Frass



N ~ 2.0–4.0 %
P ~ 3.5–6 %
K ~ 2.5–3.0 %
Moisture: ~ 8%



Promeal Frasstgrow

N ~ 3.5% Organic Matter – 86%
P ~ 2.8% Organic Carbon – 50%
K ~ 1.5% PH – 6.5–7.5%
Moisture:- 3%

How Moisture Decides the “Real Strength” of Organic Manures

Moisture decides the real strength of manures. Every organic manure is essentially a mix of two things—nutrients and water. When moisture is high, most of what you are transporting and spreading is just water, with only a small fraction of real nutrients. This means you need larger volumes and more labour to deliver the same nutrient effect in the field. On the other hand, a drier product concentrates the nutrients, so every kilogram you apply carries more fertilizing power.

For example, fresh cow dung often has around 75–80% moisture, which means that out of one ton, only 200–250 kg is actual dry matter, while the rest is water. In contrast, a low-moisture product like FrasstGrow™ (around 3% moisture) delivers nearly a full ton of dry matter in every ton you buy. This difference directly affects how much nitrogen, phosphorus, and potassium your crop actually receives per load.

That’s why agronomists always measure nutrients on a dry basis—to see the true concentration—and then convert them to the as-received form that farmers apply in the field. It is the only way to compare manures fairly.

In simple words:

- ☞ More water = less nutrient per kilo.
- ☞ Less water = more nutrient per kilo.

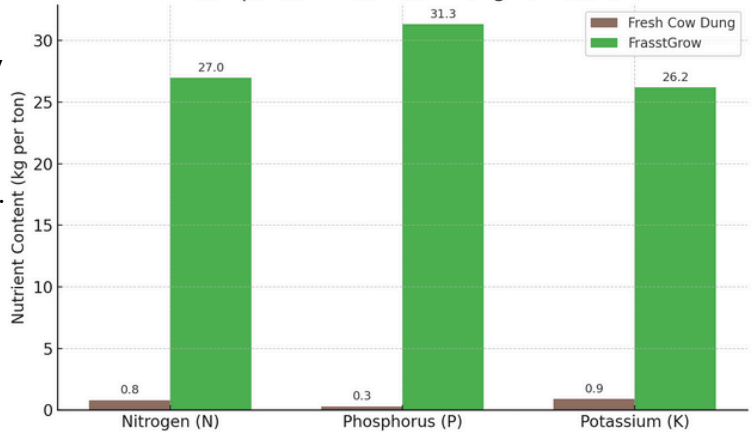


Fresh Cow Dung vs FrasstGrow

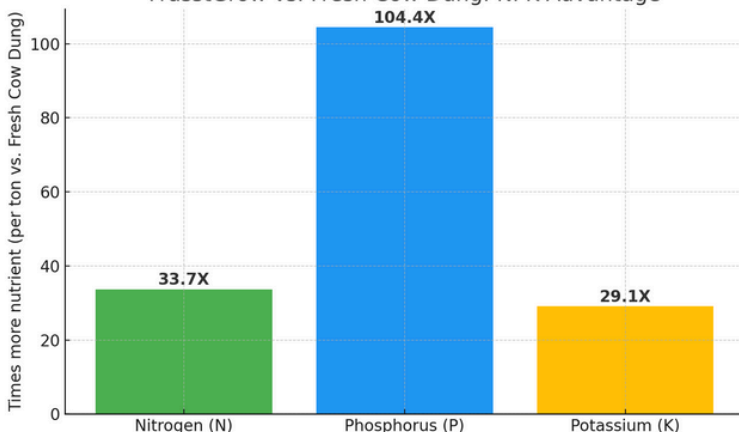
	Fresh Cow Dung		FrasstGrow	
Wet Weight (kg)	1000		1000	
Moisture	80%		3%	
Water Content (kg)	800		30	
Dry Weight in (Kg)	200		970	
	Percentage	Weight (kg)	Percentage	Weight (kg)
Nitrogen	0.40%	0.8	2.78%	26.966
Phosphorous	0.15%	0.3	3.23%	31.331
Pottasium	0.45%	0.9	2.70%	26.19
Organic Matter	45%	90	86.00%	834.2
Organic Carbon	22%	44	50.00%	485

When we compare Fresh Cow Dung to FrasstGrow, the nutrient advantage is dramatic. A ton of cow dung (at 80% moisture) provides only 0.8 kg Nitrogen, 0.3 kg Phosphorus, and 0.9 kg Potassium. In contrast, the same ton of FrasstGrow (with just 3% moisture) delivers nearly 27 kg Nitrogen, 31 kg Phosphorus, and 26 kg Potassium.

NPK Comparison: Fresh Cow Dung vs FrasstGrow



FrasstGrow vs. Fresh Cow Dung: NPK Advantage

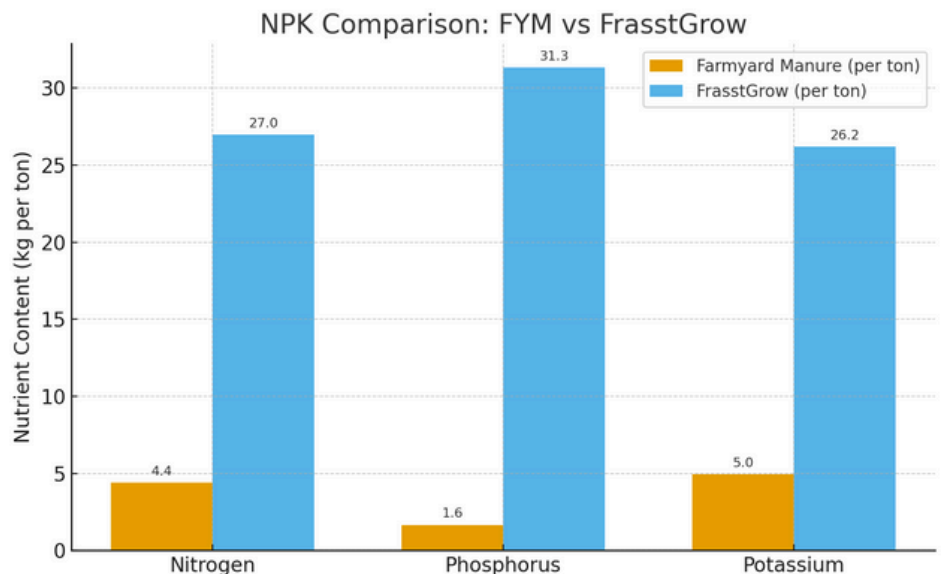


That means FrasstGrow contains about 34 times more Nitrogen, over 100 times more Phosphorus, and 29 times more Potassium than fresh cow dung. In practical terms, farmers need far fewer truckloads and labour to deliver the same nutrient power, making FrasstGrow both cost-effective and highly potent as an organic fertilizer.

FYM vs FrasstGrow

	Farmyard Manure		FrasstGrow	
Wet Weight (kg)	1000		1000	
Moisture	45%		3%	
Water Content (kg)	450		30	
Dry Weight in (Kg)	550		970	
	Percentage	Weight (kg)	Percentage	Weight (kg)
Nitrogen	0.80%	4.4	2.78%	26.966
Phosphorous	0.30%	1.65	3.23%	31.331
Pottasium	0.90%	4.95	2.70%	26.19
Organic Matter	50%	275	86.00%	834.2
Organic Carbon	25%	137.5	50.00%	485

When we compare Farmyard Manure (FYM) with FrasstGrow, the difference in nutrient density becomes striking. A ton of FYM at 45% moisture carries nearly half its weight as water, leaving only 550 kg of actual dry matter. In contrast, FrasstGrow with just 3% moisture delivers 970 kg of dry matter per ton. This difference translates directly into nutrients: FYM provides only about 4.4 kg nitrogen, 1.65 kg phosphorus, and 4.95 kg potassium per ton, while the same weight of FrasstGrow delivers 27 kg nitrogen, 31 kg phosphorus, and 26 kg potassium. Organic matter and carbon also show a massive jump, with FrasstGrow supplying more than three times the organic matter and over three times the organic carbon of FYM. In simple terms, every truckload of FrasstGrow delivers many times the nutrient power of FYM, thanks to its low moisture and high concentration of valuable components.



Vermicompost vs FrasstGrow

	Vermicompost		FrasstGrow	
Wet Weight (kg)	1000		1000	
Moisture	45%		3%	
Water Content (kg)	450		30	
Dry Weight in (Kg)	550		970	
	Percentage	Weight (kg)	Percentage	Weight (kg)
Nitrogen	1.25%	6.875	2.78%	26.966
Phosphorous	0.75%	4.125	3.23%	31.331
Pottasium	1%	5.5	2.70%	26.19
Organic Matter	35%	192.5	86.00%	834.2
Organic Carbon	18%	99	50.00%	485

When compared to vermicompost, FrasstGrow™ shows a far higher nutrient density per ton. Vermicompost delivers around 6.9 kg Nitrogen, 4.1 kg Phosphorus, and 5.5 kg Potassium, while the same ton of FrasstGrow supplies nearly 27 kg Nitrogen, 31 kg Phosphorus, and 26 kg Potassium. This means FrasstGrow provides about 4 times more Nitrogen, 8 times more Phosphorus, and 5 times more Potassium than vermicompost. In practice, farmers need much smaller quantities of FrasstGrow to deliver the same nutrient punch, saving on transport, labour, and application effort while enriching the soil with higher organic matter and carbon.

