





## T1. Ferndale - Grazing on Nitro Humus®

Property	"Ferndale" - Newbridge NSW (Central Tablelands) Cliff & Robyn Kelly	
Overview	<ul> <li>General: 1500Ha mixed cropping &amp; grazing operation in the undulating hills of the Central Tablelands south-west of Bathurst.</li> <li>Stock: - 10,000 head self-replacing merino flock <ul> <li>150 head Poll Hereford cattle.</li> </ul> </li> <li>Cropping: approx. 200 ha sown each year for Nile grain and hay, and improved pastures and Lucerne.</li> <li>NB: - Cropping can be either fodder cropping &amp;/or certified seed production.</li> </ul>	
Key Farm Issues	<ul> <li>Productivity:</li> <li>Reduced yields in crop yields</li> <li>Uninspiring conversion rates in stock</li> <li>Reduced seed weight</li> </ul> Nutrition:	
	<ul> <li>Declining pasture quality despite increased</li> <li>Depletion of Nutrients in soil</li> </ul>	d artificial nutrient application
Compost Proposal	Yield & nutritional issues most likely linked to soil Application of Nitrohumus to crops to provide a co nutrients, and to enhance current organic content colonization and nutrient availability. Bio-solids to artificial fertilizers on permanent pastures.	omprehensive source of macro and micro in their soils to enhance microbial be applied as a full replacement for
Application Rates	<ul> <li>8 ton/ha applied to fallow and sown oats 2</li> <li>80 ton/ha of bio-solids to permanent past permanent fodder crops 2013-2019</li> </ul>	
Observations	Cropping:	
and Quantifiable		idual seed weight by 12% and in total yield
Outcomes	<ul> <li>from 4 ton/ha in 2015 to 5 ton/ha in 2019</li> <li>Increased returns from seed sold as a result</li> </ul>	an increase of 25%.
	Pasture Improvement:	aning pariod providing the bast growth
	<ul> <li>Increased plant growth provided earlier gr rates in lambs and calves experienced.</li> </ul>	azing period providing the best growth
	<ul> <li>100 calves- daily weight gain 1kg/hd/day f 1400 lambs- daily weight gain 200gr/day for</li> </ul>	
Summary	With a declining pasture quality, uninspiring lamb at the bigger picture, increased application of artif output. He realized to be able to increase what he back in to his soils his focus has changed to a great his livestock underground as well as above.	icials just was not improving his overall was taking out of his farm he had to put
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