

Provocation: what is a REGENERATIVE FERTILISER?

To advance on this matter, we have to answer a few questions:

a) Is every organic fertilizer regenerative?

For example, if we fertilize a tropical soil with manure, will it regenerate the soil? The answer may surprise you, but he doesn't have this ability. What does manure do? It promotes a *nutrient* boost available in balanced proportions. So it's a great organic fertilizer, good for growing cultivations "without pesticides". But it's only temporary. Next time we grow it, we'll have to fertilize it with another dose. Same goes for agro-industrial pies and chicken grounding.

Therefore, longevity, the residual effect of an organic fertilizer, is fundamental for it to be regenerative (having an action on the soil that goes beyond a single crop cycle)!

b) So green fertilizers are quite regenerative?!

In terms of residual action, many green fertilizers are longer-acting than manure, pies and other "inputs". Its roots and even the straw can last for months, until they are properly decomposed by the life of the soil.

Another regenerative feature of green fertilisers is their protective effect on the soil:

- as green cover, while growing, protecting against the sun, rain and winds.
- as a dead cover, after being brushed and left as mulching.

Therefore, the quality of forming a "protective skin" of the soil, reducing its temperature and saving its organic matter, is also fundamental to have a regenerative action. With green fertilization every year, the organic matter content of a soil grows significantly!

c) But then the RCW is an excellent regenerative fertilizer?!

Yes, the fragmented *rameal wood* (*chopped branches*) is possibly the best, because it gathers all the qualities mentioned above (long residual action and formation of a protective membrane of the soil) with one more, very important: it is made in loco, by trees and shrubs planted in the Agroforestry itself (place of its use), bringing with it various forms of carbon sequestration, transferring part of it to the soil in the form of humus.

Therefore, regenerative fertilizers need to be generated on the property, benefiting the soils, the climate, agrobiodiversity and crops simultaneously! A regenerative fertilizer does not arrive by truck, generating diesel oil smoke ...!

Resulting in the following equation:

Regenerative fertilizer = lasting biomass + double protective layer + produced within the farm, near by the crops.

There are four regenerative fertilizers usually applied:

- RCW,

- green manures,
- broad-leaved weeds
- perenial bunch grasses.

To go on reading about:

https://www.regenerativa.art.br/files/ugd/55ffb7_173ad7feeb3e49cd826531029b95b98f.pdf

We need new regenerative criteria!

Manfred v. Osterroht

<https://www.regenerativa.art.br>