Recommendation sheet



Date palm organic amendment production

Recommendations based on ISFERALDA project results

Compost production

Aim: decrease mineral matter, salinity and increase compost maturity

- \rightarrow Proportion of 70% date palm residues, 30% manure
- → Have a concrete structure for production to limit contamination –
 by mineral particles and be able to collect compost juices.
- → Cover the compost windrows with a tarpaulin or roof to limit wind input and evapotranspiration.
- \rightarrow If possible, use good quality, low-salt water to moisten windrows.

Biochar production

- \rightarrow Pyrolysis temperature around 450°C
- → Atmosphere that can contain a few % of oxygen during pyrolysis. A pure nitrogen flow is not mandatory to obtain quality biochar.
- → Optionally rinse the biochar several times to leach out soluble salts. On the other hand, rinsing leads to loss of nutrients such as K. Priorities must be identified before rinsing biochar.
- → Use, if possible, a part of date palm residues as a heat source
 <u>for pyrolysis of the other part. allows not to use fossil energy.</u>

Good balance between porosity, chemical stability and water retention

mineral

matter content

salinity

Possibility of using an industrial or artisanal pyrolyzer

> Optimizing the quality of biochar

> > Improve carbon footprint

