Impact of biochar amendment on phosphorus retention by riparian soil

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pH = 7.3 - 7.5
Total N = 105 - 290 mg L⁻¹
Total P = 21 - 62 mg L⁻¹
(50kg N ha⁻¹ = 7 - 12 kg P)
N:P = 4.1 - 7.2
solids = 0.17-1.27%
Energy from the sun

Carbon Dioxide capture by Photosynthesis

Pyrolysis of Waste from Crops & Trees

Renewable Energy Bio-Oils & Gas

Increased Productivity of Crops

Bio-char

Long-term Carbon Sink
BIOCHAR

Atmospheric benefits
- Reduced methane soil emissions
- Carbon negative energy
- Reduced odor

Carbon capture

Soil benefits
- Increased soil carbon
- Improved soil fertility
- Improved soil tilth
- Decreased nutrient runoff

Viable Sustainable

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In grazed pastures urine patches are the main sources of nitrous oxide emissions and nitrate leaching.
Cumulative N$_2$O-N flux from soil determined over 28 days incubation.
BIOCHAR.

BURRING THIS COULD BE THE PERFECT WAY TO FIX CARBON AND FIGHT CLIMATE CHANGE.

OR IT COULD BE A DELICIOUS MEAL...