Modeling change in P forms caused by phytoremediation of a P rich sandy soil. (S11-chardon063258-Poster)

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Abstract:

A sandy soil that received large amounts of P in the past was depleted in a pot experiment with grass during 32 months. On average, during the growth period in a greenhouse, grass harvesting took place 12 times a year. Pots were harvested 8 times for soil analysis on water-extractable P (1:2 and 1:60 ratio), P-iron, and P, Fe + Al in an acid oxalate extract. The experiment was used to test a computer simulation model, based on sorption on, and desorption from, a spherical aggregate. Main aspect studied is the decrease in extractability of P with time during the experiment, for different extractants and soil:solution ratio's.

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