Phosphorus (P) Desorption Kinetics From Field and Laboratory Amended

Y. Arai and J. T. Sims

Long term P sorption/desorption on natural materials can greatly affect the transport and bioavailability of P in soil and water environments. The effect of residence time on P desorption was investigated for long times (>30 days) on Atlantic Coastal Plain soils that have received long term field applications of P and an unamended soil. The latter soil was spiked with P as NaH$_2$PO$_4$ such that the ammonium oxalate extractable P (Pox) was equal in both soils. Temperature studies were conducted and activation energies will be determined to assist in elucidating rate determining steps.