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Sommario/riassunto	Agronomic efficiency and management of environmental P inputs can be improved by understanding soil-phosphorus interaction. Iron oxides and other clay minerals, P forms, and P sorption in young alluvial and weathered residual soils were determined. Phosphorus retention related to crystallinity and phase distribution of iron oxides. CBD and oxalate extractable iron and aluminum and smectite and kaolinite explained 90% variation while soil CaCO <sub>3</sub> role was only insignificant in explaining P sorption.