Sistema de Notación Munsell y CIELab como herramienta para evaluación de color en suelos [

Instituto Nacional de Investigaciones Forestales, Agrícolas y Pecuarias (INIFAP),
2012

text (article)

Analítica

The color is one of the most important morphological features, the most obvious, easy to determine and relevant taxonomic identification of soils. The color of soils is closely related with the solid components (organic matter, texture, mineralogical composition, morphology) being the transition metals, mainly those soils can provide this characteristic. Munsell Notation System and CIELab are two techniques for determining the color of the soil. The aim of this study is to evaluate the physical, chemical and mineralogical properties of Denganthza hills soil, and its relationship with the characteristic color showed in the samples, using methods of assessment color Munsell Notation System and CIELab Spectrophotometric System. In the Munsell Notation System soils have colors from pale yellow to reddish to values <<hue>> between 2.5Y, 5Y, 2.5YR, 7.5YR and 10YR showing clear staining indicating a depletion of Fe and Mn, leading to suggest that due to palaeosols causes, there has been a podzolization process. In CIELab color of the soils studied are located in quadrants +a* and +b* and correspond to red and yellow, the color of wet soils corresponds to a reddish-yellow, high a higher yellow saturation occurring in the soils 1, 6 and 13, the rest is a trend toward lighter shades, but in dry soils shows the same yellow-red, without saturation with light shades in all samples
The color is one of the most important morphological features, the most obvious, easy to determine and relevant taxonomic identification of soils. The color of soils is closely related with the solid components (organic matter, texture, mineralogical composition, morphology) being the transition metals, mainly those soils can provide this characteristic. Munsell Notation System and CIELab are two techniques for determining the color of the soil. The aim of this study is to evaluate the physical, chemical and mineralogical properties of Denganthza hills soil, and its relationship with the characteristic color showed in the samples, using methods of assessment color Munsell Notation System and CIELab Spectrophotometric System. In the Munsell Notation System soils have colors from pale yellow to reddish to values <<hue>> between 2.5Y, 5Y, 2.5YR, 7.5YR and 10YR showing clear staining indicating a depletion of Fe and Mn, leading to suggest that due to palaeosols causes, there has been a podzolization process. In CIELab color of the soils studied are located in quadrants +a* and +b* and correspond to red and yellow, the color of wet soils corresponds to a reddish-yellow, high a higher yellow saturation occurring in the soils 1, 6 and 13, the rest is a trend toward lighter shades, but in dry soils shows the same yellow-red, without saturation with light shades in all samples

Título: Sistema de Notación Munsell y CIELab como herramienta para evaluación de color en suelos electronic resource]

Editorial: Instituto Nacional de Investigaciones Forestales, Agrícolas y Pecuarias (INIFAP) 2012

Tipo Audiovisual: Color espectrofotometría sistemas suelo Color spectrophotometry systems soil

Documento fuente: Revista mexicana de ciencias agrícolas, ISSN 2007-0934, Vol. 3, Nº. 1, 2012, pags. 141-155

Nota general: application/pdf

Restricciones de acceso: Open access content. Open access content star

Lengua: mul

Enlace a fuente de información: Revista mexicana de ciencias agrícolas, ISSN 2007-0934, Vol. 3, Nº. 1, 2012, pags. 141-155