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Emergy Analysis for Brazilian Cotton Agriculture

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Abstract

The aim of this paper is applying environment accounting in Emergy to analysis the Brazilian cotton agricultural production system. To determine which cotton agricultural production items, have more relevance. This study takes into consideration the diversity of Brazilian cotton production characteristics per region, the calculation data are the weighted mean per production per productive area. The results of this paper are compared into with two Brazilian and one North American Articles and the Emergy Sustainability Index results at all studied cotton production systems shown results <1 that characterize cotton agriculture as a short term value for sustainability classification. Demanding high amount of fertilizers and pesticides. Those are purchased inputs into the production system.

Keywords: *emergy; environmental accounting; cotton agricultural systems, environmental sustainability metrics in cotton agriculture.*
