

ชื่องาน: EFFECT OF SPENT WASH LIQUOR ON SOIL PH, ELECTRICAL CONDUCTIVITY, ORGANIC MATTER, EXTRACTABLE CALCIUM AND MAGNESIUM OF COARSE-TEXTURED AND FINE-TEXTURED SOILS

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Abstract:

Two sets of completely randomized design with 4 replications to investigate some changes of soil properties after applying 7 rates of spent wash liquor (0, 45, 90, 140, 190, 380, and 560 ton/ha) were performed on coarse-textured and fine-textured soils. Daily irrigation depending on annual rainfall distribution of 2015 was supplied into each experimental unit. After applying treatments for a year, it was found that spent wash liquor significantly increased soil pH, electrical conductivity (EC), and organic matter content of both coarse-textured and fine-textured soils. However, this effect was clearly shown in topsoil in that pH and EC were higher than that in subsoil. Regarding soil fertility, this research study also revealed that spent wash liquor significantly improved the availability of secondary nutrient elements (Ca and Mg), particularly in topsoil.