

Pakpong Saipan 2008: Effect of Road on Salinization in Kamphaeng Saen District Nakhon Pathom Province. Master of Science (Agriculture), Major Field: Soil Science, Department of Soil Science. Thesis Advisor: Assistant Professor Audthasit Wongmaneeroj, M.S. 71 pages.

Salt affected soils in central region trend to expand. The salinity is one of factor affected to agricultural production in Kamphaeng Saen district, Nakhon Pathom province. The study was determined effect of road type to salinization. Aerial photo interpretation with Geographic Information System techniques were used in this study. Statistical correlation between soil conductivity (ECe) and distance from roadside (three types: concrete road, asphalt road and rock pieces road) was analysed from 9 locations. In each site, soil sampling was collected from soil surface (0-2 cm) 0-30, 30-60, 60-100, 100-150 and 150-200 cm. from soil surface respectively. Result showed that type of road was affected to soil salinization. Salt accumulation occurred near the roadside in the area that concrete road and asphalt road crosswise with water flow direction. In contradiction, soil salinization was spreading in the vicinity of rock pieces road road and show no relation with road especially in the high underground table in location 3

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2 / June / 08