Recidue analysis of methomyl and chlorotalonyl on the soil of potatoes (Solanum tuberosum) farmland at Dieng plateau, Central Java has been done. The taking sample approxomately 100 gram of soil extracted by using solvent aceton then purified with column chromatography. Quantitative analysis ai done by using thin layer chromatography, silica gel GF254 and eluent of hexana : toluena : aceton : ethanol (4 : 4 : 1 : 1) to be seen in UV light on wave lenght of 254 nm, the color is violet with white background and also it is maximum λ by using densitometer. Quantitative analysis is done by measuring the spot area a product of the thin layer cromatography by using densitometer.

The result indicated that the soil of potatoes farmland, either before cultivating or after harvesting there is only recidue of chlototalonyl pesticide. The average amount of the residue chlorotalonyl pesticide before cultivating is 0.14343 µg/g, after harvesting on the field soil is 1.35394 µg/g and on the soil pot after harvesting is 2.98117 µg/g.