

## The study about three phases distribution of soil in tea fields where farmers practice CHAGUSABA farming method

### 1.Site and method

We researched on the three phase of soil in farm A. Two research sites were set at the farm; one plot is the tea field where Chagusaba farming method is practiced(plot 1), and the other is the field without Chagusaba farming method (plot 2).

Researcher: Staff of Research Institute of Agriculture and Forestry in Shizuoka prefecture

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Soil sampling: 5 samples each from both plots

Method: Soil samples were taken with a 100ml cylindrical soil sampler after getting rid of organic matter phase. The percentage of three phases (solid, liquid and gas) is calculated by measuring volume and weight (before and after drying).

### 2.Result

The research results of the three phases of soil shown that the gas phase percentage of plot 1 was higher than plot 2 (fig 1).

Our research data shows that Chagusaba farming method increases the gaseous phase ratio of soil in, and thus improves soil conditions.

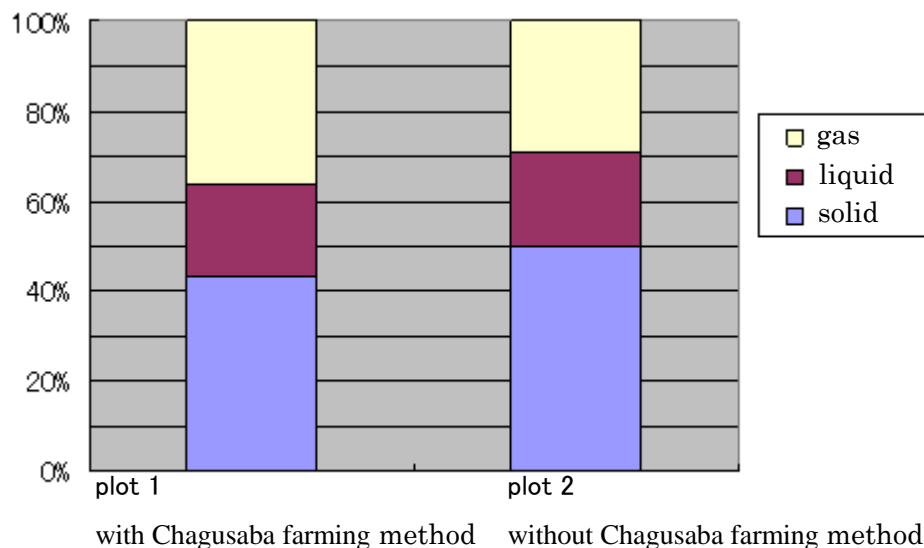


Fig 1.Three phases of soil in tea field where farmers practice Chagusaba farming method and the field without Chagusaba farming method (control)