Introduction

In the previous report, we used dry water hyacinth, rice straw and some agricultural wastes for growing straw mushroom (Volvariella volvacea). Some mixtures gave higher productivity than when grown on rice straw alone (Tansakul and Klitsanaephaiboon, in press). In order to gather more information about straw mushroom grown in the relevant condition to the commercial practice, this study was made to compare the mushroom productivity grown on a mixture of rice straw, chicken manure and dry water hyacinth in 30 kg. of composted components. This study was also done to compare mushroom productivities grown in various containers.

Materials and methods

The materials and methods used in this study were similar to the previous study (Tansakul and Klitsanaephaiboon, in press).

Experiment 1

In order to investigate the different mushroom production methods, straw mushroom was spawn on 3 kg. of non composted rice straw in: 1) 45 x 33 x 18 cm³ plastic container 2) 90 x 60 x 22 cm³ wooden tray and 3) conventional Thai method (Figure 4).

This study was done with 5 replications. Conventional Thai method was conducted by using the water soaked rice straw in a wooden frame (usually 150 x 30 x 30 cm³) with the proper moisture for garden soil. Mushroom spawn was spread