

## **ABSTRACT**

### **THE AFFECT OF MEDIA AND AMOUNT OF CHILLING WATER TO LIFE TIME OF FRESH CASSAVA (*manihot utilissima*, Pohl) ON STORING**

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The cassava is one of kind tuber that is fast deterioration of quality. The Cassava was stored in sand or sawdust. The sand or sawdust was put into metal container. The metal container was put into water. The function of water is to countdown the sand or sawdust temperature. This technology is needed by cassava farmer for maintaining of cassava quality. This technology can decrease respiration and transpiration.

The objective of research were study to affected sand or sawdust to cassava quality when it is storing, the amount of mass of water affected to the temperature of sand or sawdust and to study the life time of cassava that was stored in sand or sawdust. This research uses two treatment are the amount of water is covered the metal container ( water surface higher than sand or sawdust surface, water surface the same of sand or sawdust surface and water surface lower than sand or sawdust surface) and two kind of medium storing (sand and sawdust). The cassava was put on the floor in room as control. The parameter of observation are sand temperature, decreasing of cassava mass, total soluble solid (TSS), and life time.

The result of the research is the life time of cassava that was stored in sand medium longer than it has stored in sawdust. The life time of cassava that was stored in sand was 18 days and it was stored in sawdust was 14 days. Meanwhile the life time of cassava that was put on the floor in room (control) was 6 days. The amount of mass of water could affect life time of cassava that it was stored in sand or sawdust medium. The greater amount of mass of water covered the metal container, then sand temperature would be lower and the life time of cassava would be longer. The longest of life time at this research was 18 days that it treated at the cassava stored in sand and water surface higher than sand surface.

Key word : Cassava, storage, sand, sawdust and life time.