

57. 白肉雞墊料裝袋堆置溫度變化

歐修汶⁽¹⁾ 蕭庭訓⁽¹⁾ 翁義翔⁽¹⁾ 楊子良⁽¹⁾ 何玉玲⁽¹⁾ 翁嘉鴻⁽¹⁾

⁽¹⁾行政院農業委員會畜產試驗所

本研究旨在評估雞糞墊料於堆置期間攪拌對溫度之影響並提供業者參考。墊料來自剛完售白肉雞之養雞場，將墊料裝填、秤重與封口成 6 袋，橫式 2 袋平放，再上方置放 2 袋後堆置。電子溫度感應器分別插入各袋雞糞墊料中心點，並在堆置區放置電子式溫濕度計，全天記錄環境溫濕度及各袋溫度變化。其中一袋 (T (B)) 於堆置之第 1、14、21 與 28 日時拆開倒出，攪拌再裝回原袋並與其他 5 袋堆置在先前位置。其餘各袋 (T (F)) 則保持原狀。試驗期間之平均環境溫度 (temperature A, TA) 為 30.6°C (範圍在 25.2 - 32.6°C)，平均相對濕度 (relative humidity, RH) 為 67.2% (範圍在 60.6 - 75.4%)，雨天具較高之相對濕度。結果顯示 T (B) 目前溫度為 31.9°C，於堆置期間最高溫可達 62.5°C，T (F) 目前溫度為 41.5°C，於堆置期間最高溫可達 49.3°C，溫度下降較有攪拌組為慢。T (B) 目前含水率由 30.7 降至 20.6%，且經攪拌之墊料堆置溫度下降較快。

關鍵語：肉雞糞墊料、堆置、溫度

The temperature change of white broiler manure litter by bagging and stacking

H. W. Ou⁽¹⁾, T. H. Hsiao⁽¹⁾, Y. H. Weng⁽¹⁾, Z. L. Yang⁽¹⁾, Y. L. He⁽¹⁾ and J. H. Weng⁽¹⁾

⁽¹⁾Livestock Research Institute, Council of Agriculture, Executive Yuan

The aim of this study is to evaluate the effect on the temperature whether agitated of broiler manure litter during stacking and to provide other factory references. The broiler manure litters come from a chicken farm that has just sold out. These fully mixed litters were packed weighed and packed into 6 bags. The two bags were placed horizontally, and two bags are placed on top and then stacked. Inserting an electronic thermometer into the center point of each bag. Hanging an electronic temperature-humidity meter on the wall of the stacking area to monitor and record. One of the bags T (B) was unpacked, stirred, repacked, and restacked with other bags to the previous position on days 1, 14, 21, and 28. The other five bags T (F) were kept intact. The result showed that the average ambient temperature (temperature A, TA) during the test period is 30.6°C (range 25.2 - 32.6°C), and the average relative humidity (RH) is 67.2% (range 60.6 - 75.4%). The T (B) current temperature of is 31.9°C, and the highest temperature during the stacking period is 62.5°C. The T (F) current temperature is 41.5°C, and the highest temperature during the stacking period is 49.3°C. The T (B) moisture content has dropped from 30.7 to 20.6%, and the temperature of agitated litter drops rapidly.

Key Words: Broiler manure litter, Stacking, Temperature