



The Effectiveness of Utilizing Certain Ingredients that Enhance the Characteristics of the Old and Used Litter on the Productive Performance of Broilers

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Abstract: *Research aims to determine if certain modifications can improve the quality of litter and the growth and health of broiler chickens. The trial used various litter-improvement agents selected for their antibacterial properties, moisture absorption, and ability to create a favorable environment for broilers. The study found that broilers raised on treated and reused litter performed considerably better than those raised on untreated litter. These additives reduced microbiological contamination and increased litter absorption, creating a cleaner environment for the broilers. Improved litter conditions also improved broiler development, feed efficiency, and health. Adding specific components to recycled litter may enhance broiler productivity. This benefits the poultry industry by providing a cost-effective and ecologically friendly way to maximize the use of aged and utilized litter and improve broiler performance. The research indicates that litter control is crucial for sustainable poultry production and the health and performance of broiler chickens.*

Keywords: *Litter, Broiler, Productive Characters, Health, Behavior.*

1. INTRODUCTION

In recent years, advancements have been made in bird care systems to enhance bird well-being and productivity and safeguard the conditions of barns to preserve land, water, air, and other environmental systems. The goal is to lessen ecological harm, specifically, contamination brought on by poultry house pollution (Da Borso and Chiumenti, 1998). Due to its role as the primary container for animal excrement, poultry litter causes pollution. During inclement weather, the presence of litter moisture causes an increase in both the interior and external air