

Research Article

**Ectoparasitic Effects of Citronella Grass (*Cymbopogon nardus*) and Lemongrass (*Cymbopogon citratus*) Shampoo Against Mites (*Dermanyssus gallinae*) of Native Chickens (*Gallus gallus domesticus*)**

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**ABSTRACT**

This study was conducted to produce an herbal shampoo using the extracts of citronella grass, lemongrass, and mixed of both grasses. It was conducted to find out which among the produced herbal shampoos was the effective against red mites of native chicken and their time observed to kill mites. In addition, it was conducted to determine the cost analysis of using the different grasses as a shampoo. Sixty laying native chickens naturally infested with mites were used in the study the chickens were grouped randomly and distributed to five (5) treatments. Herbal shampoos were prepared before bathing the native chickens; the bathing process was begun and lasted for four (4) weeks with seven (7) days interval. Overall the positive control or the commercial shampoo Wash Out Intense® was the most effective among all other treatments with 92.83% efficacy. The notable efficacy of the commercial shampoo was followed by the herbal shampoo produced which was the citronella shampoo then the lemongrass shampoo followed by lemongrass shampoo, with 76.14%, 71.14%, and 68.80% efficacy respectively. The treatment that shows the lowest observed time to kill mites was the positive control (Wash Out Intense®) which consist the effective components to kill mites, it was then followed by T3 the citronella shampoo, T5 the lemongrass shampoo and lastly T4 the lemongrass shampoo. Lastly the cost analysis of making shampoo using citronella, lemongrass and mixed of both grasses' extracts revealed that were less economical than the commercial shampoo available.

**Keywords:** Citronella grass, herbal shampoo, lemongrass, red mites

**Introduction**

The Philippines is an agricultural country wherein poultry production contributed most

to the progression of animal enterprises today. Traditionally, native chicken production began as a backyard enterprise and raised by the local

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# International Journal Of Mixed Methods In Applied Business

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### **Table of Contents International Journal Of Mixed Methods In Applied Business**

1. Understanding the eBook International Journal Of Mixed Methods In Applied Business
  - The Rise of Digital Reading International Journal Of Mixed Methods In Applied Business
  - Advantages of eBooks Over Traditional Books
2. Identifying International Journal Of Mixed Methods In Applied Business
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an International Journal Of Mixed Methods In Applied Business
  - User-Friendly Interface
4. Exploring eBook Recommendations from International Journal Of Mixed Methods In Applied Business
  - Personalized Recommendations

- International Journal Of Mixed Methods In Applied Business User Reviews and Ratings
- International Journal Of Mixed Methods In Applied Business and Bestseller Lists
- 5. Accessing International Journal Of Mixed Methods In Applied Business Free and Paid eBooks
  - International Journal Of Mixed Methods In Applied Business Public Domain eBooks
  - International Journal Of Mixed Methods In Applied Business eBook Subscription Services
  - International Journal Of Mixed Methods In Applied Business Budget-Friendly Options
- 6. Navigating International Journal Of Mixed Methods In Applied Business eBook Formats
  - ePub, PDF, MOBI, and More
  - International Journal Of Mixed Methods In Applied Business Compatibility with Devices
  - International Journal Of Mixed Methods In Applied Business Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of International Journal Of Mixed Methods In Applied Business
  - Highlighting and Note-Taking International Journal Of Mixed Methods In Applied Business
  - Interactive Elements International Journal Of Mixed Methods In Applied Business
- 8. Staying Engaged with International Journal Of Mixed Methods In Applied Business
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers International Journal Of Mixed Methods In Applied Business
- 9. Balancing eBooks and Physical Books International Journal Of Mixed Methods In Applied Business
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection International Journal Of Mixed Methods In Applied Business
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine International Journal Of Mixed Methods In Applied Business
  - Setting Reading Goals International Journal Of Mixed Methods In Applied Business
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of International Journal Of Mixed Methods In Applied Business
  - Fact-Checking eBook Content of International Journal Of Mixed Methods In Applied Business

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements
  - Interactive and Gamified eBooks

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