

Intake, growth performance and nutrient digestibility of broiler chicken fed diets containing black soldier fly larvae meal

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Abstract

The effects substitution of soya bean meal with black soldier fly larvae meal (BSFLM) in iso-nitrogenous diets on the growth performance, apparent ileal nutrient digestibility of broiler chickens were investigated in this study. Black soldier fly larvae produced on fruit and vegetable wastes were harvested on the 14th day. The larvae were oven-dried and milled into a meal. The insect meal was included at 0%, 10%, 20% and 30% in broiler chicken starter diets and 0%, 10%, 20% and 27% in broiler chicken finisher diets. A total of 204 broiler chicks (Cobb-500 strain) were randomly selected and divided into four treatment groups of 51 birds. Each treatment group was further divided into three replicates of 17 birds in a completely randomised design. From the age of 8 to 49 days, the birds were fed with the experimental diets. Feed and water were given *ad libitum*. Feed intake, digestibility and body weight gains were measured. Data collected were subjected to one-way analysis of variance and significant differences among means separated using the Student-Newman Keuls (SNK) test. The results showed that the inclusion of black soldier fly larvae meal up to 20% did not have any adverse effects on feed intake, growth performance and profitability of broiler chickens. However, the inclusion of more than 20% black soldier fly larvae meal resulted in poor apparent ileal digestibility of dry matter, crude protein and ether extract. It was concluded that black soldier fly larvae meal can be included in broiler chicken diets up to 20% without any adverse effects on growth performance and nutrient digestibility.

Key words: poultry, insect meal, dietary protein, nutrient digestibility

Introduction

The Ghanaian poultry industry relies mostly on imports for its protein concentrates (fishmeal and soybean meal (SBM)) for producing feed for chickens (Anankware et al 2018). These ingredients are expensive on the market leading to high chicken production cost. There is therefore the need to find more available, cost effective and high-quality alternative protein sources for chicken feed.

The use of insects for human and animal feed is receiving increasing attention in recent times. The larvae of black soldier fly (*Hermetia illucens*), a non-pest fly in tropical and temperate areas (Maglangit and Alosbanos 2021), are a promising source of dietary protein in broiler chickens (Anankware et al 2018; Facey et al 2023; Heita et al 2023). Black soldier fly larvae meal (BSFLM) has high metabolisable energy (2,567–5,745 kcal/kg) and crude protein (38-65%)

Soldier Intake In 2016

Meredith Reifschneider



Soldier Intake In 2016:

The British Army Guide, 2016-2017 Charles Heyman, 2015-11-30 In 1984 the first edition of the British Army Guide was published and in September 2015 the 13th edition will be on sale This invaluable information resource which deals with all aspects of British Army organisation recruitment and training has been extremely popular with service personnel the defence industry military libraries and other groups who are interested in the British Army worldwide Copies can be seen on desks throughout the UK Ministry of Defence and it would be fair to say that almost every foreign defence attache in London has a copy in his briefcase Chapters include a Defence Overview Army Organisation International Commitments Armour Infantry Artillery Army Aviation Engineers Communications and Combat Service Support Units of the Army Recruiting and Training Reserve Forces plus a final Miscellaneous Chapter which deals with a number of items essential to understanding How the British Army functions on a daily basis Lavishly illustrated throughout there is no comparable publication available on the market

Advances in the Assessment of Dietary Intake. Dale A. Schoeller, M. Westerterp, 2017-08-15 Diet is a major factor in health and disease Controlled long term studies in humans are impractical and investigators have utilized long term epidemiological investigations to study the contributions of diet to the human condition Such studies while valuable have often been limited by contradictory findings a limitation secondary to systematic errors in traditional self reported dietary assessment tools that limit the percentage of variances in diseases explained by diet New approaches are available to help overcome these limitations and *Advances in the Assessment of Dietary Intake* is focused on these advances in an effort to provide more accurate dietary data to understand human health Chapters cover the benefits and limitations of traditional self report tools strategies for improving the validity of dietary recall and food recording methods objective methods to assess food and nutrient intake assessment of timing and meal patterns using glucose sensors and physical activity patterns using validated accelerometers *Advances in the Assessment of Dietary Intake* describes new avenues to investigate the role of diet in human health and serves as the most up to date reference and teaching tool for these methods that will improve the accuracy of dietary assessment and lay the ground work for future studies

Research Handbook on Child Soldiers Mark A. Drumbl, Jastine C. Barrett, 2019 Child soldiers remain poorly understood and inadequately protected despite significant media attention and many policy initiatives This Research Handbook aims to redress this troubling gap It offers a reflective fresh and nuanced review of the complex issue of child soldiering The Handbook brings together scholars from six continents diverse experiences and a broad range of disciplines Along the way it unpacks the life cycle of youth and militarization from recruitment to demobilization to return to civilian life The overarching aim of the Handbook is to render the invisible visible the contributions map the unmapped and chart new directions Challenging prevailing assumptions and conceptions the Research Handbook on Child Soldiers focuses on adversity but also capacity emphasising the resilience humanity and potentiality of children affected rather than afflicted by armed conflict

Helping Soldiers Leverage Army

Knowledge, Skills, and Abilities in Civilian Jobs Jeffrey B. Wenger, Ellen M. Pint, Tepring Piquado, Michael G. Shanley, Trinidad Beleche, Melissa A. Bradley, Jonathan Welch, Laura Werber, Cate Yoon, Eric J. Duckworth, Nicole H. Curtis, 2017-01-04 This report discusses the results of occupation surveys administered to soldiers in selected Army military occupational specialties MOSs to assess the level and importance of the knowledge skills and abilities needed in these MOSs and to develop better crosswalks between military and civilian occupations The report identifies both a broader range of military civilian occupation matches and higher quality matches than existing crosswalks

German Soldiers and the Occupation of France, 1940-1944 Julia S. Torrie, 2018-10-11 From 1940 to 1944 German soldiers not only fought in and ruled over France but also lived their lives there While the combat experiences of German soldiers are relatively well documented as are the everyday lives of the occupied French population we know much less about occupiers daily activities beyond combat especially when it comes to men who were not top level administrators Using letters photographs and tour guides alongside official sources Julia S Torrie reveals how ground level occupiers understood their role and how their needs and desires shaped policy and practices At the same time as soldiers were told to dominate and control France they were also encouraged to sight see to photograph and to consume the country leading to a familiarity that limited violence rather than inciting it The lives of these ordinary soldiers offer new insights into the occupation of France the history of Nazism and the Second World War

Insects as food and feed: From production to consumption Arnold Van Huis, Jeffrey Tomberlin, 2017-09-15 Alternative protein sources are urgently required as the available land area is not sufficient to satisfy the growing demand for meat Insects have a high potential of becoming a new sector in the food and feed industry mainly because of the many environmental benefits when compared to meat production This will be outlined in the book as well as the whole process from rearing to marketing The rearing involves large scale and small scale production facility design the management of diseases and how to assure that the insects will be of high quality genetics The nutrient content of insects will be discussed and how this is influenced by life stage diet the environment and processing Technological processing requires decontamination preservation and ensuring microbial safety The prevention of health risks e g allergies will be discussed as well as labelling certification and legislative frameworks Additional issues are insect welfare the creation of an enabling environment how to deal with consumers gastronomy and marketing strategies Examples of production systems will be given both from the tropics palm weevils grasshoppers crickets and from temperate zones black soldier flies and house flies as feed and mealworms and crickets as food Detailed photographs are shown at the beginning of each section and chapter

Soldiers, Wages, and the Hellenistic Economies Charlotte Van Regenmortel, 2024-05-15 This book explains the military and economic developments that engulfed the ancient Mediterranean in the late Classical and early Hellenistic periods from the perspective of labour history It examines the changing nature of military service in the vast armies of Philip and Alexander the Successors and the early Hellenistic kingdoms and argues that the paid soldiers who staffed them were

not just mercenaries but rather the Greek world's first large scale instance of wage labour Using a wide range of sources Charlotte Van Regenmortel not only offers a detailed social history of military service in these armies but also provides a novel explanation for the economic transformation of the Hellenistic age positioning military wage labourers as the driving force behind the period's nascent market economies This title is part of the Flip it Open Programme and may also be available Open Access Check our website Cambridge Core for details

The basics of edible insect rearing Teun Veldkamp Wageningen Livestock Research, J. Claeys, O.L.M. Haenen, J.J.A. van Loon, T. Spranghers, 2021-12-15 Looking for a handbook on how to design and upscale edible insect rearing This easy to read handbook describes the basic knowledge and a detailed step by step plan for rearing edible insects The book presents information essential for further development of the entire insect chain and contains many practical recommendations for the start setup of professional insect rearing The reader is first submerged into the fascinating world of edible insects such as black soldier fly housefly mealworm cricket and locust A concise overview is provided to get more familiar with the biology and physiology of edible insects Based on this basic knowledge the book focuses on design principles for large scale insect production facility design engineering insect production management management of unwanted organisms economics and aspects related to the legal framework The chief editor co editors and lead authors of the chapters are from Belgium Denmark and The Netherlands These countries have a tradition of professional insect rearing Reading this handbook will contribute to a successful entrepreneurship in edible insect rearing This handbook also contains very interesting teaching materials for secondary higher and university education

Handbook of Research on Consumption, Media, and Popular Culture in the Global Age Ozgen, Ozlen, 2019-05-15 The mass production and diversification of media have accelerated the development of popular culture This has started a new trend in consumerism of desiring new consumption objects and devaluing those consumption objects once acquired thus creating a constant demand for new items Pop culture now canalizes consumerism both with advertising and the marketing of consumerist lifestyles which are disseminated in the mass media The Handbook of Research on Consumption Media and Popular Culture in the Global Age discusses interdisciplinary perspectives on media influence and consumer impacts in a globalizing world due to modern communication technology Featuring research on topics such as consumer culture communication ethics and social media this book is ideally designed for managers marketers researchers academicians and students

The Archaeology of American Medicine and Healthcare Meredith Reifschneider, 2025-02-11 In this book Meredith Reifschneider synthesizes archaeological research on healthcare and medicine to show how practices in the United States have evolved since the nineteenth century demonstrating that historical archaeology can provide important insights into healthcare and modes of self care in the past

Department of Defense Authorization for Appropriations for Fiscal Year 2014 and the Future Years Defense Program United States. Congress. Senate. Committee on Armed Services, 2014

Brill's Companion to Diet and

Logistics in Greek and Roman Warfare ,2023-12-04 The adage that an army marches on its stomach finds renewed emphasis in this collection of essays Focusing on military diet and supply from Homer through the Roman Empire Diet and Logistics in Greek and Roman Warfare explains regional dietary options and reassesses traditional notions of provisioning while exploring topics ranging from strategy and subterfuge to trade and terror Through fresh insights drawn from current research and excavation spanning the Greco Roman world contributors confirm how providing food and drink for soldiers was critical to every army's success and survival This volume stimulates reevaluation of ancient militaries and encourages new research

Representations of Child Soldiers in Contemporary African Narratives Ademola Adesola,2024-09-11 In Representations of Child Soldiers in Contemporary African Narratives Ademola Adesola examines the dominant factors that writers privilege in their portrayals of child soldiering in sub Saharan Africa In his textual interpretive analyses of selected novels in the African child soldier genre Adesola contends that critical discussions of African child soldier literature have depended on the interpretive frameworks supplied by Western humanitarian discourses which oversimplify and de historicize experiences of war in Africa The author argues that such reductive decontextualization of war realities serve to champion a narrow vision of war in African contexts centered on a moral and humanitarian urge for Western intervention Regardless of whether the casus belli legitimating those wars are genuine or not those conflicts and children's involvement in them are understood within the same racist colonial and ethnocentric stereotypes about Africa that have been privileged in Western thought and the Western moral political imagination for centuries Thus in studying African child soldier narratives this book provides an alternative reading of novels whose settings feature African ethnopolitical conflicts such as in Sierra Leone Liberia Congo Brazzaville Nigeria notable for their exploitation of children for military ends The author maintains that these works are significant in the varying ways they reify and challenge the Western ideas of child and childhood as well as privilege child soldiers as social actors whose intricate makeups disavow being simply understood as innocent victims or irredeemable perpetrators of atrocities

The Imperial Army Project Douglas E. Delaney,2018-01-25 How did British authorities manage to secure the commitment of large dominion and Indian armies that could plan fight shoot communicate and sustain themselves in concert with the British Army and with each other during the era of the two world wars What did the British want from the dominion and Indian armies and how did they go about trying to get it Douglas E Delaney seeks to answer these questions to understand whether the imperial army project was successful Answering these questions requires a long term perspective one that begins with efforts to fix the armies of the British Empire in the aftermath of their desultory performance in South Africa 1899 1903 and follows through to the high point of imperial military cooperation during the Second World War Based on multi archival research conducted in six different countries on four continents Delaney argues that the military compatibility of the British Empire armies was the product of a deliberate and enduring imperial army project one that aimed at standardizing and piecing together the armies of the empire while at the same time accommodating

the burgeoning autonomy of the dominions and even India At its core this book is really about how a military coalition worked

Historical Record of The Queen's Own Gurkha Logistic Regiment, 1958-2018 J. R. Cawthorne, 2023-01-31 The Gurkha Army Service Corps the predecessor of The Queen's Own Gurkha Logistic Regiment was raised in Singapore in 1958 ten years after the transfer of Gurkha regiments from the Indian Army to the British Army and towards the end of the Malayan Emergency Within four years of being formed it was committed to continuous operations in Brunei and Borneo during Confrontation with Indonesia between 1962-66 It was also redesignated the Gurkha Transport Regiment in 1965 to reflect changes to the Army's logistic structure Between 1966-71 the Regiment was substantially reduced in size along with the rest of The Brigade of Gurkhas as Britain withdrew its forces from East of Suez Concentrated in Hong Kong the Regiment provided transport support to the Garrison for the next 20 years In 1991 a composite squadron was sent to reinforce British Forces in the Gulf War after which in preparation for the handback of Hong Kong to China the Regiment moved to and became permanently stationed in the UK In recognition of its past services it was granted the royal title The Queen's Own Gurkha Transport Regiment in 1992 The following two decades saw it undertake multiple operational tours to the Balkans Iraq Cyprus and Afghanistan as well as providing humanitarian assistance to the Ebola crisis in Sierra Leone It also expanded both its role to incorporate supply and catering and size which led in 2001 to it being redesignated to its current title The Queen's Own Gurkha Logistic Regiment This history records the events and activities of the Regiment during its first 60 years of service to the Crown While of wider interest to military historians it is principally written for members of the Regiment past present and future

Moral Injury and Soldiers in Conflict Tine Molendijk, 2021-03-16 This book advances an interdisciplinary understanding of moral injury by analyzing the stories of military veterans of combat and peace missions In the past decade the concept of moral injury has emerged to address the potential moral impact of deployment This book contributes to an interdisciplinary conceptualization of moral injury while at the same time critically evaluating the concept's premises and implications It paints an urgent and compassionate picture of the moral impact of soldiers' deployment experience and the role of political practices and public perceptions in moral injury It does so by drawing on the experiences of close to a hundred Dutch veterans deployed to Bosnia Srebrenica and Afghanistan and analyzing their stories from the perspectives of psychology philosophy theology and social sciences Ultimately this book advances the understanding of moral political and societal dimensions of moral injury and contributes to practical efforts aimed at its prevention This book will be of much interest to students of ethics and war cultural anthropology conflict studies and international relations

The Decline of British Industrial Hegemony Indrajit Ray, 2022-06-01 Through two World Wars and the Great Depression this book explores the turbulent history of colonial Indian industry in the period immediately prior to independence Focusing on five major industries in Bengal coal mining iron smelting jute manufacturing paper making and tea plantation the book looks at the impact of the war efforts on production employment and capital some industries experienced rapid growth due to

additional investment others suffered due to the dislocation of markets Moreover by drawing lessons from the war economy especially the dearth of various essential commodities including war materials the colonial government took up various measures in the inter war period to promote India s domestic industries for the first time Additionally the book also argues that many of the expatriate firms in India became financially weak because of the Depression which paved the way for the Indianisation of corporate houses These elements were significant factors in the decline of British industrial hegemony in India and aided the de colonisation process which followed This book will be of interest to scholars of Indian economic history as well as those with wider interests in decolonisation industrial history and the first half of the twentieth century

Historical Dictionary of The Salvation Army John G. Merritt, Allen Satterlee, 2017-10-06 The Salvation Army is an integral part of the Christian Church although distinctive in government and practice The Army s doctrine follows the mainstream of Christian belief and its articles of faith emphasize God s saving purposes Its objects are the advancement of the Christian religion of education the relief of poverty and other charitable objects beneficial to society or the community of mankind as a whole The Salvation Army was founded in London in 1865 by William Booth its first General and has continued growing ever since In 2015 it celebrated its 150th anniversary and today it has a presence in 127 countries This second edition of Historical Dictionary of The Salvation Army contains a chronology an introduction appendixes and an extensive bibliography The dictionary section has over 300 cross referenced entries on its leaders personalities events facts movements and beliefs of The Salvation Army This book is an excellent resource for students researchers and anyone wanting to know more about The Salvation Army

Standard Daily Trade Service , 1918

Dark Gastronomy in Times of Tribulation Genceli, Demet, 2023-05-02 Dark tourism involves travel to historical sites associated with death and tragedy While the main attraction of such sites is their historical value visitors may also seek to understand others pain or achieve educational goals Dark tourism helps enhance society s capacity to understand and learn from the past Dark Gastronomy on the other hand explores the culinary traditions under dark times such as wars battles disasters epidemics genocides famines and unusual mass deaths With the guidance of Dark Gastronomy in Times of Tribulation readers can better understand the role of gastronomy in dark times such as which foods were accessible and what menus were served to prisoners This book will appeal to scholars and professionals in history tourism sociology gastronomy and related fields as well as those curious about the topic This book is also ideal for graduate and undergraduate students human resources consulting companies university libraries research institutions tourism associations and culinary professionals

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Table of Contents Soldier Intake In 2016

1. Understanding the eBook Soldier Intake In 2016
 - The Rise of Digital Reading Soldier Intake In 2016
 - Advantages of eBooks Over Traditional Books
2. Identifying Soldier Intake In 2016
 - 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 Soldier Intake In 2016
 - User-Friendly Interface
4. Exploring eBook Recommendations from Soldier Intake In 2016
 - Personalized Recommendations
 - Soldier Intake In 2016 User Reviews and Ratings
 - Soldier Intake In 2016 and Bestseller Lists
5. Accessing Soldier Intake In 2016 Free and Paid eBooks
 - Soldier Intake In 2016 Public Domain eBooks
 - Soldier Intake In 2016 eBook Subscription Services
 - Soldier Intake In 2016 Budget-Friendly Options
6. Navigating Soldier Intake In 2016 eBook Formats

- ePub, PDF, MOBI, and More
- Soldier Intake In 2016 Compatibility with Devices
- Soldier Intake In 2016 Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Soldier Intake In 2016
 - Highlighting and Note-Taking Soldier Intake In 2016
 - Interactive Elements Soldier Intake In 2016
- 8. Staying Engaged with Soldier Intake In 2016
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Soldier Intake In 2016
- 9. Balancing eBooks and Physical Books Soldier Intake In 2016
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Soldier Intake In 2016
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Soldier Intake In 2016
 - Setting Reading Goals Soldier Intake In 2016
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Soldier Intake In 2016
 - Fact-Checking eBook Content of Soldier Intake In 2016
 - 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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