

Dedication

To the soul of my grandfather, grandmother and my aunt

My father and mother

Brothers and sisters

Wife and our children

I dedicate this work with my deep love

Acknowledgment

Who do not thank Allah do not thank people , so firstly I would like to thank the Greatest maker for making, look after and giving me fortune, aptitude and patience to conduct and complete this study , my great and deepest thank to my great supervisor Dr.Elfadil Ahmed Adam for his supervision, guidance and support throughout this study. My thanks is also extended to all workers of poultry department in animal production research center for their help, my thanks also extended to my sisters in kuku diagnostic unit specially Dr. Ihsan Mattar , Dr. Wafa Atif and Makah Salih for their support and encouragement.

Abstract

A total of 120 twenty one days old unsexed broiler finisher chicks (Arbor acres) were used in this experiment to study the effect of feeding rejected dried green banana on the performance of broiler chickens during the finishing period. Four experimental iso-caloric iso-nitrogenous diets were formulated to meet the nutrient requirements for broiler finisher recommended by NRC (1994). Diet one which does not contained rejected dried green banana serve as control diet (0.0), in the other three diets graded levels of rejected dried green banana (10%, 15% and 20%) were incorporated. Chicks were randomly distributed into four treatment groups of 30 chicks each in a completely randomized design. Each group was further subdivided into 3 replicates of 10 birds each. Feed and water were supplied for adlibtum consumption, light was provided for 24hs throughout the experimental period. The experiment was extended for three weeks. The performance data (Feed intake , Body weight ,Weight gain and Feed conversion ratio) were calculated on weekly basis, at the end of the

experiment 2birds from each replicate were selected (one male and one female) then slaughtered and eviscerated dressing percent was calculated. Some internal organs (liver, gizzard, hearts, spleen and abdominal fat weights) were recorded. Statistical package for social science (SPSS) was used to analyze the data obtained.

The results showed a significant ($P < 0.05$) reduction in the final body weight and dressing percent with increased feed conversion ratio and gizzard weight. On the other hand, feeding rejected dried green banana had no significant effect on feed intake, weight gain, internal organs (liver, spleen, heart) and abdominal fat weight.

It could be concluded that feeding rejected dried green banana up to 20% has adverse affect on body weight, FCR and dressing percent, so it is recommended that rejected dried green banana can be incorporated in broiler finisher diets up to 15% without deleterious effect.

ملخص الدراسة

تم استخدام عدد 120 كتكوت للاحم ناهي عمر 21 يوم غير مجنس (اربر إكر) لدراسة أثر التغذية علي مستبعد الموز الاخضر المجفف علي الاداء الانتاجي لكتاكت اللاحم خلال فترة الناهي, تم تكوين اربعة علائق تجريبية متوازنة الطاقة والبروتين لمقابلة الاحتياجات التغذوية لكتاكت اللاحم الناهي حسب NCR (1994). العليق الاولي والتي لاتحتوي علي مستبعد الموز الاخضر المجفف تمثل العليقة الضابطه ، بينما أضيف مستبعد الموز الاخضر المجفف وبنسب متدرجة للعلائق الثلاث الاخري (10%، 15% و 20%) تم توزيع كتاكت التجربة الي اربعة مجموعات باستخدام التصميم العشوائي الكامل حيث احتوت كل مجموعة علي 30 كتكوت, قسمت كل مجموعة الي 3 مكررات 10 كتاكت لكل تكرار ، وقد تم توفير العليقة والماء للكتاكت بصورة مفتوحة بالاضافة الي توفير إضاءة لمدة 24 ساعة يوميا طوال فترة التجربة والتي امتدت الي 3 اسابيع. قياسات الاداء (استهلاك العلف, الوزن الحي ، معدل التحويل الغذائي ، الوزن المكتسب) تم تسجيلها اسبوعيا. في نهاية فترة التجربة تم إختيار فرختين (ذكر وأنثي) من كل تكرار ومن ثم ذبحها وتسجيل وزن بعض الاعضاء الداخلية (الكبد، القانصة، القلب، الطوحال بالاضافة لدهن البطن) كما تم حساب نسبة التصافي. تم تحليل البيانات المتحصل عليها بواسطة تحليل التباين وذلك باستخدام البرنامج الاحصائي SPSS اظهرت النتائج المتحصل عليها وجود إنخفاض معنوي في الوزن النهائي ونسبة التصافي مع إرتفاع معدل التحويل الغذائي ووزن القانصة وذلك كلما زاد معدل إضافة مستبعد الموز

الاخضر المجفف في العليقة وأيضاً لوحظ عدم وجود أي تأثير معنوي علي الوزن المكتسب ، العلف المستهلك ،وزن القلب ،الكبد ،الطوخال بالاضافة لوزن دهن البطن خلصت الدراسة الي أن إضافة مستبعد الموز الاخضر المجفف في العليقة حتي 20% أدي الي نتائج سلبية في معدل التحول الغذائي ووزن الجسم النهائي ونسبة التصافي بينما لم يظهر اي تأثير علي وزن بعض الاعضاء الداخلية وعلية يمكن إضافة مستبعد الموز الاخضر المجفف الي علائق كتاكييت اللاحم الناهي حتي 15% بدون اي تأثيرات سالبة.

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