

Dedication

I dedicate this to the soul of my kindest and greatest heart in the world with love my mother , the soul of my brother with his beautiful lived kids, Saba and Suoad and to :

My really manhood and brave father

My absolute wonderful and smarts sisters and brothers

My united, strength and connected family

My tremendous best friends and colleagues.

Acknowledgement

Praise and unlimited thanks to Allah, who gave me the strength and patience to complete this work.

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Abstract

The objective of this study was the comparison the growth performance of three broiler hybrids (Ross308, Hubbard and Arbor acres) reared in closed system of housing in Khartoum State.

Data of 48 records performance was collected from Alamin commercial broiler farm at alaylafoon district, 40 km south-East of Khartoum for the period from 2011 to 2014, the data was statistically analyzed using statistical Package for Social Science (SPSS version 16) (2007). Result showed highly significant differences ($p < 0.01$) for body weight, weight gain, feed intake, feed conversion ratio, mortality and production efficiency factor between the hybrids. The hybrid Ross308 showed the more favored and superior body weight, weight gain, feed intake, feed conversion ratio and production efficiency factor compared to the other hybrid. However mortality percent was low by Hubbard than ross308 and Arbor acres respectively.

ملخص البحث

تهدف الدراسة لمقارنة الأداء الإنتاجي لثلاثة من الهجينات التجارية (الروس308 ،الهبرد والاربريكر) والمرباه في حظائر نظام مغلق في مزرعة الامين للإنتاج الفراه اللحم التي تقع علي بعد 40 كجم في منطقة العيلفون جنوب شرق الخرطوم للاعوام من 2011 الي 2014 تم استخدام 48من السجلات الأداء الإنتاجي ثم تحليلوها باستخدام البرامج الحزم الاحصائية للعلوم الاجتماعية (SPSS)نسخة 16 لعام 2007 اظهرت الدراسة وجود فرق معنوي عالي ($p \leq 0.01$) في كل من الوزن النهائي،الوزن المكتسب،معدل التحول الغذائي،ومعدل استهلاك العلف،نسبة النفوق ومعامل الكفاءة الانتاجية بين كل الهجينات التجارية خلال الاربعة سنوات وكانت الافضل اداءًهي هجين الروس ومتفوقة في الوزن المكتسب،الوزن النهائي،معدل التحول الغذائي،معدل استهلاك العلف ومعامل الكفاءة الانتاجية مقارنة مع الهجينات التجارية الاخري بينما نسبة النفوق منخفض في الهبرد ثم الروس يليه الاربريكر..

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