

DEDICATION

To soul of my father
To my mother, my wife and my little daughter Areege.

With gratitude and appreciation.

ACKNOWLEDGEMENT

I am very much indebted to my supervisor:

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ABSTRACT

The present study was conducted to assess the milk production and some reproductive patterns of cross-bred dairy cows with Friesian (inheritance over 50%) in North Darfur (El-fashir)

Records of 153 cross-bred cows were studied in three selected dairy farms: (Farm-1, Farm-2 and Farm-3) . It was also found that the total herd structures were 47.7%, 16.34%, 17%, 15.7% and 3.18% lactation cows, dry cows heifers, calves and bulls respectively.

The farms were visited weakly for recording daily milk production, daily feed intake and daily observations.

The study revealed that the overall mean of milk production per cow per day and age at 1st calving was 10.52 ± 5.25 kg and 30.8 ± 3.23 months in farm 1, 2 and 3 respectively with non-significant differences and highly correlation with milk production and age at 1st calving to ($p > 0.05$).

The total average of lactation length, open period, dry period and calving interval was 252.22 ± 51.6 , 80.22 ± 19.86 , 78.91 ± 31 and 374.94 ± 23.55 days for farm 1, 2 and 3 respectively.

The study also revealed that 1.33 ± 0.40 as the overall mean of number of services per conception.

ملخص البحث

أجريت هذه الدراسة لتقييم انتاج اللبن وبعض الخصائص التناسلية لأبقار اللبن الهجين ذات الدم الاجنبي اكثر من 50% في شمال دار فور (الفاشر).

تمت دراسة عدد 150 سجل لثلاث من مزارع الالبان .

العدد الكلي لا قطع 153 راس يتتركب كما يلي:

47.7%، 16.34%، 17%، 15.7% و 3.18% أبقار جلوب، أبقار

جافة، عجلات عشارة، عجول و فحول على التوالي.

تم تسجيل كمية الادرار اليومي والعلف المستهلك في اليوم و

الملاحظات أسبوعياً .

خلصت الدراسة على ان متوسط الادرار اليومي في المزارع الثلاث

5.25 ± 10.52 كيلو جرام في اليوم وهناك ارتباط معنوي بين ادرار البن

والعمر عند أول ولادة (للمعنوية اقل من 0.05% وكان متوسط العمر عند

أول ولادة 30.8 ± 3.3 شهراً من غير اي فروقات معنوية (للمعنوية اقل

من

(0.05% بين المزارع الثلاث).

في هذه الدراسة وجد ان متوسط طول موسم الادرار ، الفترة المفتوحة ،

فترة التجفيف و الفترة بين الولادتين كان: 51.6 ± 252.22 ، 19.86 ± 80.22 ،

31 ± 78.91 و 23.55 ± 374.94 يوم على التوالي ومتوسط عدد مرات

التلقيح 1.33 ± 0.401 تلقيحة للبقرة.

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