**Kurdistan Regional Government of Iraq**

**Ministry of Higher Education and Scientific Research   
  
Salahaddin University - Erbil   
  
Faculty of Agriculture / Department of Livestock   
  
The fourth stage / spring Course   
  
  
The academic year 2021 - 2022   
  
  
Production of dairy cattle**

**Practical Dairy production   
  
  
Contact Person teaching Dr. Joshan Majeed Ahmed (prof assistant)**

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**The practical part**

**The aim of Article**

Dairy cattle (also called dairy cows or milk cows) are cattle cows bred for the ability to produce large quantities of milk, from which dairy products are made. Dairy cows generally are of the species Bo's Taurus.

Historically, there was little distinction between dairy cattle and beef cattle, with the same stock often being used for both meat and milk production. Today, the bovine industry is more specialized and most dairy cattle have been bred to produce large volumes of milk

Its importance in human food, they form part of the national income in many countries of the world, especially in the dairy industry.  
 **Important scientific**• Dairy is the most efficient conversion of starch and vegetable protein into animal protein and starch.  
• give high production of mineral substances and vitamins compared to other  
• can pursuant continuously by large numbers of individuals and their families.  
• can steady income per capita year.  
• Cattle can provide some raw materials for laboratories and factories scene and bones, and others.  
 **• Sources**• 1 - dairy cattle Dr. Ahmed Haji Taha  
                             Dr. Akram Thanon  
                             Dr. Mahmoud Rashed Al-Rashed  
• 2 - cow’s milk Dr. Donald. ‘S. Bath  
                             Dr. Frank. N. Universe  
• 3 - farms produce milk and meat d. Mamdouh Full (1985)  
• 4 - agricultural sites / Internet  
 **The first week**

is a diagram of the Anatomy of a Cow  
Economic importance to dairy cattle and dairy cattle specifications  
**Target**Statement of economic importance to dairy cattle breeders and for the country's economy  
**Sources**• - dairy cattle Dr . Ahmed Haji Taha  
                                              Dr . Akram Thanon  
                                              Dr . Mahmoud Rashed Al-Rashed  
 **Second week**

* Original Dairy cattle (Friesian, Jersey, Jerensey, Brown Swiss, Air shyer)
* To steady a number deferent breeds for Original Dairy cattle in the world.

**Third week**

* Iraqi cows (Southern Cattle, Roustaki cows, Sharabi cows, kurde cows)
* To steady a number deferent breeds for Iraqi Dairy cattle

**The fourth week:**

Milking process

Objective: beginner is to teach how to milk cows in a way no traditional manual

Robot Milking   
Objective: To teach beginner how to milk cows mechanical way  
 **Sources**Farms producing milk and meat Dr. Mamdouh Full (1985)  
• Book automatic milking dairy cattle Dr . Ahmed Haji Taha  
                                                                  Dr. Akram Thanon                                                                                                        Dr. Mahmoud Rashed Al-Rashed

Farms producing milk and meat Dr. Mamdouh Full (1985)  
• Book automatic milking dairy cattle Dr . Ahmed Haji Taha  
                                                           Dr. Akram Thanon  
                                                             
                                                Dr. Mahmoud Rashed Al-Rashed

**Fifth week**

Arbitration in dairy cattle and the foundations of arbitration  
  
• Target: the importance of this topic is to guide beginner and non- exerciser to note descriptions characteristic of the animal and the appreciation and recognition of relatively used as a means to disperse the members of the herd each.  
 **Sources:**  
• - dairy cattle Dr . Ahmed Haji Taha  
                                              Dr . Akram Thanon  
                                              Dr. Mahmoud Rashed Al-Rashed  
• - cow’s milk Dr. Donald. ‘s. Bath  
                                              Dr . Frank. N. Universe **Sixth week**Dairy cattle barns

Dairy cattle housing and specifications  
  
Objective: it became known that environmental factors greatly influence the production of milk, choice of adequate housing for the animals is an important factor to avoid the influence of the atmosphere in different seasons, depending on the type of animal and place of breeding and herd size and securing a suitable space for the animal in order to not affect the production and protection of the diseases on the other. **Sources**• - farms produce milk and meat Dr. Mamdouh Full (1985)  
• - agricultural sites / Inter Nate  
  
ν monthly exam / typical questions for this exam : -  
ν knew : milking process , arbitration , ...:  
ν spoke about :  
ν What are the main differences between :  
Identify the field of livestock and ongoing studies in which **Seventh week**Records and the importance of record-keeping  
  
Objective: records are the basis of the success and development of the project raising dairy cattle , as by records of production can the owner of the field know the productionof milk and fat peranimal monopoly and the herd as a whole and which can choose the animals high production and rejection or exclusion of low-lying production and thus can over the next year’s election animals good and raise the rate of production of the flock **.  
  
Sources**- Agricultural sites / Inter Nate  
- Farms produce milk and meat Dr. Mamdouh Full (1985)

**Eighth week:**

special considerations in the treatment of animals, dairy cattle  
Objective: There are important considerations must be taken into account for clean milk production and a high of each animal herd as the educator must be familiar with the details of each of these processes  
 **Sources**• - dairy cattle Dr . Ahmed Haji Taha  
                                               Dr. Akram Thanon  
                                               Dr. Mahmoud Rashed Al-Rashed  
• - cow’s milk Dr. Donald. ‘S. Bath  
                                                     Dr. Frank. N . Universe

**The ninth week :**

**Bulls**Objective: is the study of all the fields in the specialized field of bulls like the factors affecting the fertility of bulls and pollination .

**Sources:**• - dairy cattle Dr . Ahmed Haji Taha  
                                                Dr. Akram Thanon  
                                                Dr. Mahmoud Rashed Al-Rashed  
• - cow’s milk Dr. Donald. ‘s. Bath  
                                                     Dr . Frank. N. Universe  
      - Internet

**Tenth week**

Care and nutrition during pregnancy and dry period in milk   
  
Objective: The care and feeding a large role in maintaining a herd of cattle and continue the herd to get born healthy new either to increase the size of the herd or to replace the annual and starts of care from pregnancy even entitled to the care nutrition females well and give it meal productivity, especially in pregnancy recent where you must dry them if they are not drying herself and called this period a period of drought.  
 **Sources**• - dairy cattle Dr. Ahmed Haji Taha  
                                               Dr. Akram Thanon  
                                               Dr. Mahmoud Rashed Al-Rashed  
• - cow’s milk d. Donald. ‘S. Bath  
                                                     Dr. Frank. N . Universe  
      Internet

**The elevens week:**

Atheist ten week: A Guide to persevere  
Objective: can see the curved shape of the milk in a manner without resorting to mathematical graph **Sources**• - dairy cattle Dr. Ahmed Haji Taha  
                                               Dr. Akram Thanon  
                                               Dr . Mahmoud Rashed Al-Rashed  
• - cow’s milk Dr. Donald. ‘S. Bath  
                                                     Dr . Frank. N . Universe **Twelfth week:** Field visit to the dairy cattle field and learn about the various aspects of  
 **Thirteenth week:**

Nutrition and the different methods of grazing  
Objective: feeding is the main pillar in animal production, accounting for about 80% of the cost of production. An exploitation good qualification for livestock production requires balanced nutrition is available on all the nutrients needed by the animal.  
 **Sources:**Book grazing and pasture  
Feeding dairy cows **Fourteenth week :**

Taking care of calves  
Target care calves are the most effective means to reach the goals in dairy cattle breeding projects.            Feeding dairy cows  
• - dairy cattle Dr. Ahmed Haji Taha  
                                               Dr. Akram Thanon  
                                               Dr. Mahmoud Rashed Al-Rashed  
• - cow’s milk Dr. Donald. ‘s. Bath  
                                                     Dr . Frank. N . Universe  
**Fifteenth week**Field visit to the field of animal production in grdah Rasha fild.