

**Dairy Cattle**

I. We have tested 85 Jerseys, 13 Guernseys and 40 Holsteins for the Register of Merit during the past year. The highest testing cow that we have had the pleasure of authenticating in Kentucky, is Meadow Queen of Allendale, that produced 12,556.3 pounds of milk, and 679.33 pounds of fat in a year. The cows tested for the Register of Merit during the past year, are owned by twelve different dairymen.

II. Observations and measurements have been made on 1,024 dairy cows to find if there is any correlation between the shape and size of the escutcheon and milk and butter production. A French investigator, M. Francis Guenon, collected data in 1838 to prove that the escutcheon was a positive milk indicator. The French Government helped to finance the publication of his book, which went thru four editions in France and three in America, and has been widely quoted. Our data on over one thousand dairy cows fail to corroborate or substantiate Guenon's correlation. This material is now ready for publication.

III. During the past year a number of cows in the Experiment Station herd have been tested for the Register of Merit and have produced sufficient milk and butter to win a place in that book. A heifer with her first calf produced 7,996.5 pounds of milk and 442.1 pounds of fat, while another heifer gave 6,947.9 pounds of milk and 302.4 pounds of fat. By adding such heifers of our own raising to our herd year after year we will greatly improve the quality of the herd. Mrs. S. T. Henning, of Shelbyville, Kentucky, has presented to the Experiment Station a very valuable bull calf that belongs to the famous Fairy Glen's Raleigh family. He is out of a dam that produced 9,086.7 pounds of milk and 526.5 pounds of fat in a year. His grand-dam produced 581 pounds of butter in a year. The sire of this calf, Meadow Queen's Fairy Lad, was Junior champion at the National Dairy Show, Springfield, Mass., in 1916.

IV. It is interesting to note that the steam sterilizer