

SUMMARY OF BULLETIN NO. 143

1. Round barns would be more generally built if their advantages were known and if the few which have been erected had been rightly constructed. Page 1.
2. The round dairy barn offers greater convenience in storing, handling and distributing the feed. Page 5.
3. In the circular construction, much greater strength is secured with less lumber. Page 6.
4. The material for rectangular barns costs from 34 to 58 percent more than for round barns of the same area and capacity. Page 7.
5. Round and rectangular barns compared. Page 11.
6. Round and rectangular barns, including silos, compared. Page 13.
7. Detailed account, with illustrations showing how the round barn at the University was built. Page 17.
8. Itemized statement of cost of a 60-foot round barn. Page 29.
9. Brief descriptions with illustrations and plans of several round dairy barns in actual use. Page 31.
10. Conclusions. The advantages of the round dairy barn are convenience, strength and cheapness. Page 44.

ECONOMY OF THE ROUND DAIRY BARN

FULL SPECIFICATIONS AND DETAILED COST AND CONSTRUCTION OF THE NEW SIXTY-FOOT CIRCULAR DAIRY BARN AT THE UNIVERSITY. SAVING OF ROUND OVER RECTANGULAR BARNS. NOTES ON SEVERAL ROUND BARNS ON DAIRY FARMS. [A]

[A] Special acknowledgment is made to Mr. H. E. Crouch and Mr. R. E. Brand for their assistance in working out the detailed data which are the bases for the economic comparisons of the round and rectangular barns made in this bulletin.

BY W. J. FRASER, CHIEF IN DAIRY HUSBANDRY

The planning, construction, and arrangement of farm buildings do not usually receive the thought and study these subjects warrant. How many dairymen have compared a circular, 40-cow barn with the common rectangular building containing the same area? How many understand that the circular structure is much the stronger; that the rectangular form requires 22 percent more wall and foundation to enclose the same space; and that the cost of material is from 34 to 58 percent more for the rectangular building?

In a community in which everyone is engaged in the same occupation, one person is likely to copy from his neighbor without apparently giving a thought as to whether or not there is a better way.

In a district of Kane county, Illinois, a certain type of dairy barn is used by nearly everyone, while in the next county a distinctly different type prevails, and the dairy barns of another adjacent county differ