

Economy of the Round Dairy Barn by Wilber John Fraser.txt  
 RE-ARRANGEMENT OF BARN TO ACCOMMODATE 40 COWS

If it is desired to keep cows in stalls in a round barn of this size, the circular manger can be enlarged to 38 feet in diameter, which gives room for forty cows, as shown in Fig. 25, and the silo, to hold sufficient silage to feed the year round, enlarged to 18 feet in diameter. The present mow room is sufficient to store enough hay and bedding for this number of cows.

The barn on the Twenty-acre Demonstration Dairy Farm was built this large, as it was thought it might be desired at some future time to increase the size of the farm and herd, and the barn could easily be changed to accommodate a larger herd by simply enlarging the silo, without rebuilding the barn.

[Illustration: FIG. 25. SHOWING HOW THIS 60-FOOT BARN MAY BE ARRANGED TO ACCOMMODATE 40 COWS IN STALLS. TO SUPPLY THIS SIZED HERD AND THE NECESSARY YOUNG STOCK WITH SILAGE FOR EIGHT MONTHS WOULD REQUIRE A 370-TON SILO, OR ONE 18 FEET IN DIAMETER AND 56 FEET DEEP; WITH A SEVEN-FOOT FEED ALLEY AND A 2-1/2-FOOT MANGER, THE CIRCLE AT THE STANCHIONS WOULD BE 38 FEET IN DIAMETER, OR 119-1/3 FEET IN CIRCUMFERENCE; ALLOWING 4-1/4 FEET FOR TWO PASSAGE WAYS, THE STALLS WOULD BE 2 FEET 10-1/2 INCHES WIDE AT THE STANCHION, AND 3 FEET 6 INCHES AT THE DROP.]

ITEMIZED COST OF THIS ROUND BARN

Excavating, foundation, and first story brick wall \$904.00

Lumber:

149 pieces,	1	x	4	x	16	Y. P.
31 "	1	x	4	x	14	Cypress
16 "	1	x	4	x	12	"
165 "	1	x	6	x	16	Y. P.
17 "	1	x	6	x	14	"
226 "	2	x	4	x	12	"
20 "	2	x	4	x	16	"
6 "	2	x	4	x	14	"
15 "	4	x	4	x	14	"
120 "	2	x	12	x	16	"
23 "	2	x	12	x	14	"
100 "	2	x	6	x	20	"
144 "	2	x	6	x	16	"
67 "	2	x	6	x	18	"
4 "	2	x	6	x	26	"
60 "	2	x	6	x	12	"
30 "	2	x	6	x	22	"
4 "	2	x	6	x	24	"
6 "	2	x	8	x	10	"
9 "	2	x	8	x	16	"
4 "	2	x	10	x	14	"
11 "	2	x	10	x	12	"
1 "	2	x	10	x	22	"
1 "	1	x	10	x	12	"
1 "	1	x	10	x	14	Cypress
2 "	1	x	12	x	14	"
22 "	1-1/8	x	8	x	10	Cyp. S2S
2 "	1	x	1-1/8	x	12 x 14	"
2 "	1	x	1-1/8	x	12 x 16	"
6000	feet of 8-inch	ship lap				
3150	feet of 10-inch	ship lap				
71 M	5/2 red cedar	shingles				
165	Lineal feet of 2-inch	Cr. molding				
240	Lineal feet of	Cr. molding				
270	feet of 4-inch	Y. P. S1S				
4000	feet of 6-inch	rough pine				
62	feet of 3/8-inch	Y. P. Ceiling				
850	feet of 6-inch	No. 1 flooring				
230	feet of 6-inch	fence flooring				