

**THE SHARPLES MECHANICAL MILKER**

**If You Keep 20 or More Cows We Want You to Have This Free Book**

It shows the Sharple's Mechanical Milker at work in large dairies; tells what other dairymen think of these wonderful machines; shows how much more profit you can make on every quart of milk your cows yield; proves that

**The Sharple's Mechanical Milker** cannot possibly injure the finest animals; shows how it completely solves the milking problem; frees you from this most irksome job; makes you independent of "hired help" and adds \$300 to \$1,000 more each year to your dairy profits. "The Sharple's" is the only mechanical milker having

**"The Teat Cup with the Upward Squeeze"** absolutely preventing congestion and swelling of the teats; removes the last stumbling block in the way of mechanical-milker success. Read what Henry Fielden, Supt. of Brandford House Farms, Groton, Conn., owners of one of the highest priced dairy cows in the world, says: "It is one of the most profitable investments that we have ever made on this farm."

Write for Free Catalog M

**THE SHARPLES SEPARATOR CO.**  
WEST CHESTER, PA.  
Toronto, Can.      Winnipeg, Can.

**VILLOW BANK STOCK FARM**  
**Shorthorns and Leicesters**



Herd established 1855, flock 1848, have a special good lot of Shorthorns of either sex to offer of various ages; also a grand lot of Leicester sheep of either sex—a few imported ones to offer.

**JAMES DOUGLAS**  
Caledonia, Ontario

**1854 Maple Lodge Stock Farm 1912**

Have some **SHORTHORN HEIFERS** two years old from cows giving 50 pounds milk per day, and in calf to my stock bull, Senator Lavender. Grand young **LEICESTERS** from imp. Wooler of Sandy Knowe, champion at Toronto, and imp. Royal Connaught.

**A. W. SMITH, MAPLE LODGE, ONTARIO**  
Lucan Crossing, G. T. Ry., one mile.



Lump Rock Salt, \$10.00 for ten lots, f.o.b. Toronto  
**Toronto Salt Works, 128 Adelaide St. E., G. J. CLIFF, MANAGER.**  
Toronto, Ont.

**SPRING VALLEY SHORTHORNS**

Herd headed by the two imported bulls, Newton Ringleader, =73783=, and Scottish Pride, =36106=. The females are of the best Scottish families. Young stock of both sexes for sale at reasonable prices. Telephone connection.

**KYLE BROS.**      Ayr, Ontario

**"The Manor" Scotch Shorthorns**

Present offering: Three choice yearling bulls. Young cows in calf. Yearling heifers: Clippers, Minas, Wimples, Julias, etc. Inspection solicited. Prices moderate. Phone connection.

**J. T. GIBSON, DENFIELD, ONTARIO**

**OAKLAND SHORTHORNS**

Present offering is five choice young bulls, from 7 to 22 months old, reds and roans, out of good dual-purpose dams, and sired by our champion Scotch Grey bull 72692. Visitors find things as represented. Good cattle and no big prices.

**JOHN KILDER & SON, HENSALL, ONTARIO**

**Fletcher's Shorthorns**

Herd headed by (Imp.)—Royal Bruce =55038= (89909) a choice lot of Heifers for sale, bred or calves at foot.

**Geo. D. Fletcher**      Binkham P. O., Ont.  
Erin Sta., C. P. R.

**Shorthorns of Show Calibre**

At present one nice red bull 12 months old (of the Bellona family) for sale at low price. Heifers of breeding age all sold.

**Geo. Gier & Son, Grand Valley, Ont.**

**Shorthorns and Swine**—Am now offering a very choice lot of cows and heifers, safe in calf, and some choice young bulls for the fall trade; also Berkshire and Yorkshire pigs; showyard material.

**ISRAEL GROFF, Elmira Ont.**

**QUESTIONS AND ANSWERS.**  
Miscellaneous.

**ANOTHER PLANK-FRAME.**

As I am preparing to build a barn, and as timber is very scarce and costly in our part of the country, thought I would build a plank-frame. Our framers here have never had any experience in building plank-frames. The carpenter I intend to have for my job, says he thinks he could do it if he had the number of pieces and the length, and where they were to go. My barn will be 50 x 70 feet, 20 posts, hip roof. Our mill men charge about \$30 per thousand for square timber.

G. S. W.

Ans.—Owing to the difficulty in getting long planks, I have not been recommending barns being built over 16 feet high in the side wall, and so I am giving you a list of material for one 50 x 70 x 16 feet, and if you find that you can procure the planks of a suitable length, you can add 4 feet on to all the vertical timbers, and make your barn 20 feet high. However, I think that one built with a gambrel roof, will hold plenty if the walls are 16 feet high.

Possibly a few suggestions on the materials to use may be helpful, and in this direction I would suggest, if you use two-ply floor, to lay building-paper over the first, and then use 1-inch strips on 24-inch centres between this and the second, so an air space is provided which prevents the moist air in the stable below from condensing on the ceiling.

The covering for the walls of the barn may be corrugated iron, and I would strongly recommend this for the roof. If you use any cupalos, set one at 17 feet 9 inches from each end, to give a proper appearance to the roof.

In the frame, use 6 bents on about 14-foot centres, and provide the following material for a 50 x 70 x 16-foot barn.

**One End Bent.**

- S. Posts—10 pieces 2 x 12 in. x 16 ft.
- T. Purlin posts—4 pieces 2 x 12 in. x 31 ft. 3 ins.
- U. Cross sills—4 pieces 2 x 8 in. x 25 ft.
- V. Beams—4 pieces 2 x 8 in. x 25 ft.
- W. Beam stiffeners—1 piece 2 x 10 in. x 30 ft.
- 10. Post stiffeners—3 pieces 3 x 6 in. x 16 ft.
- Y. Purlin brace—2 pieces 2 x 8 in. x 16 ft.
- X. Gable stiffeners—2 pieces 2 x 10 in. x 25 ft.
- Z. End girths—20 pieces 2 x 6 in. x 13 ft.
- Y. 1. End braces—2 pieces 2 x 6 in. x 20 ft.
- Z. 1. Gable girths—4 pieces 2 x 6 in. x 24 ft.
- Z. 2. ————4 pieces 2 x 6 in. x 22 ft.
- Z. 3. ————4 pieces 2 x 6 in. x 20 ft.
- Z. 4. ————2 pieces 2 x 6 in. x 17 ft.
- (13) End truss—2 pieces 2 x 10 in. x 26 ft.
- (11) Post fillers—3 pieces 2 x 4 in. x 15 ft.
- (12) 8-in. bolts—8 lbs.
- 5-in. spikes—35 lbs.
- 4-in. spikes—12 lbs.

**One Interior Bent.**

- A. Side post—4 pieces 2 x 12 x 16 ft.
- B. Purlin post—4 pieces 2 x 12 x 31 ft. 3 in.
- C. Roof supports—2 pieces 2 x 12 x 34 ft. 6 in.
- D. Sub. supports—2 pieces 2 x 6 in. x 14 ft.
- E. Struts—4 pieces 2 x 4 in. x 4 ft. 9 in.
- F. Main ties—2 pieces 2 x 8 in. x 5 ft. 7 in.
- G. Sub. ties—2 pieces 2 x 6 in. x 6 ft.
- H. Minor ties—2 pieces 2 x 6 in. x 5 ft.
- Z. Collar ties—2 pieces 2 x 12 in. x 4 ft. 6 in.
- J. Braces—2 pieces 2 x 6 in. x 6 ft.
- K. Cross sills—2 pieces 2 x 8 in. x 50 ft. or 4 pieces 2 x 8 in. x 25 ft.
- L. Short sills—2 pieces 2 x 8 in. x 2 ft.
- M. Roof support stiffeners—2 pieces 2 x 6 in. x 24 ft.
- N. Purlin post—2 pieces 2 x 6 in. x 24 ft. 4 in.
- O. 11-in. bolts—4 lbs.
- P. 7-in. bolts—16 lbs.
- Q. 5-in. spikes—28 lbs.
- R. 4 in. spikes—8 lbs.

In getting the total estimate of material, double that given for one end

(Concluded on next page.)

**Raise a big crop of GOOD wheat**



**WHY** be satisfied with 15 or 20 bushels per acre when you can double the crop if you try? Those who use the A. A. C. Co. fertilizers are harvesting large crops of first quality A-1 wheat, and if you are not yet acquainted

with the merits of these fertilizers it will pay you to investigate them. To ripen large crops of early plump grain requires a large amount of available phosphoric acid derived from the best sources.

**HOMESTEAD BONE BLACK FERTILIZERS**

are well known crop producers and every analysis is guaranteed to be as represented. They are easily applied because they are so finely ground. They can be sown with a grain drill before planting or scattered by hand from the wagon if you have no drill, and then harrowed in.

At Dashwood, Ontario, Louis Walper says: "I had one of the biggest crops ever seen on this farm, following the use of 'HOMESTEAD' fertilizers."

At Thetford, Ontario, Wilson Bros., say: "We are well satisfied that it does not pay to sow wheat without them" and Mr. H. Wilson, of the same place writes: "Each year I sow a piece without fertilizer and the difference is so great I am fully convinced it does not pay me to sow wheat without the 'HOMESTEAD'."

At Arkona, Ontario, Mr. J. A. Gordon, says: "I have used 'HOMESTEAD' fertilizer about five years. The first year I shut it off once across the field and my neighbor said he could see that strip 8 rods away; and it could be seen for two years afterward in the meadow, so I think it pays all right."

Consult our nearest local agent for prices and terms, or send your name and address to us and we will mail you free, postage paid, a 52 page book on Fertilizers and Dr. Widsöe's article on "How to Fight Drought with Fertility."

WE WANT AGENTS FOR UNOCCUPIED TERRITORY

**The American Agricultural Chemical Co.**

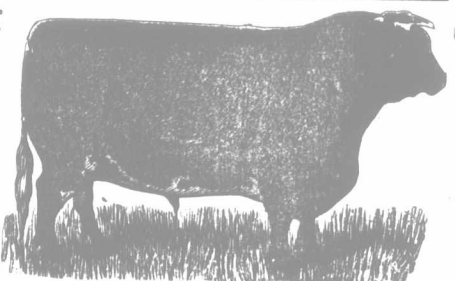
Michigan Carbon Works, Detroit, Mich.

**Present Special Offering**

- 20 High-Class Scotch Shorthorn Heifers
- 10 High-Class Young Shorthorn Cows
- 5 High-Class Scotch Shorthorn Bulls

At moderate prices, including Marr Missies, Emmas, Cruickshank Nonpareils, Duchess of Glosters, Village Girls, Bridesmaids, Butterflies, Kinellar Claretts, Miss Ramsdens, Crimson Flowers; also a number of the grand old milking tribe, which have been famous in the showing.

**ARTHUR J. HOWDEN & CO.**  
Columbus, Ontario



**SHORTHORNS**

Have now a choice lot of young bulls to offer; also with something nice in heifers. Catalogue of herd and list of young animals on application.

**H. CARGILL & SON, Proprietors, Cargill, Ont., Bruce Co.**  
JOHN CLANCY, Manager



**THIS IS A GOOD TIME, AND I HAVE A GOOD PLACE, TO GET A HIGH-CLASS SCOTCH SHORTHORN BULL CALF** by my great Whitehall Sultan sire, or a young cow in calf to him, to start a herd that will be gilt-edged. SHROPSHIRE RAMS AND EWES, too, at low prices. CHILDREN'S PONIES, A CLYDES-DALE FILLY, such as I can send you, is one of the best things any man can buy. Just write me and say as nearly as possible what you want, and I will surprise you with prices on goods that are genuine.

**ROBERT MILLER, STOUFFVILLE ONTARIO**

**Scotch Shorthorn Females for Sale** I am offering at very reasonable prices, females from one year to five years of age. The youngsters are by my grand old stock bull, Scottish Hero (imp.) =55042= (90065), and the older ones have calves at foot by him, or amongst them. Their breeding is unexcelled, and there are show animals



**SALEM SHORTHORNS**  
Headed by Gainford Marquis, undefeated bull of three countries. See our show herd at the leading fairs, starting at Winnipeg. J. A. WATT, SALEM, ELORA STA., G. T. and C. P. R.