

THE GRAZIER AND BREEDER.

A CANADIAN FARMSTEAD.

EDS. COUNTRY GENTLEMAN.—The accompanying plans and bird's-eye view of farm buildings are intended to represent a convenient housing of everything required (except the dairy) to carry on a farm of sufficient capacity to winter thirty cows in milk, with all the young stock necessary to keep up the herd, a stud of six brood mares and their produce until old enough to market, forty sheep, four brood sows, and a hundred fowls.

It is not my intention to crowd your columns with a lengthy description of this plan, although there are some points which will require explanation.

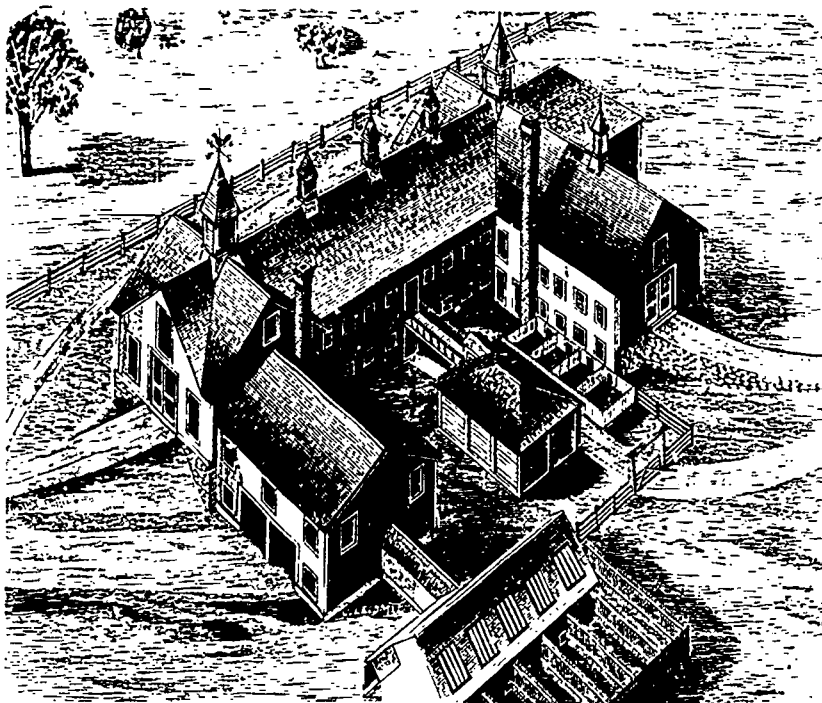
It will be seen that it is intended to be built on a hillside, with the natural surface on the upper side about one-half the height of basement story, to allow for small windows close to

especially in the summer when haying, and at many other times, it would be more convenient to fire up than an ordinary steam boiler for wood or coal. For winter use, it would be necessary to have farm boilers for heating water and cooking food for cattle.

The ensilage-cutter is shown in front of siloes, but it is intended to hoist it into the loft above when siloes are filled, for cutting hay, and belt up from same shaft.

The thrasher is shown in position for work, and it is intended to take the straw from it to the loft above by a carrier worked by the same shaft and power. When not in use, the whole apparatus is to be taken apart and stored in the room near it.

The centre of the grain-barn on first floor is to be 13 feet high, while the bays are to be 8 feet; so that when the grain is drawn in from the fields it is unloaded on the bays, there being 5 feet of height in which to work. The ground-grains



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ceiling on that side, and building up inclines to entrances on front and at the ends of grain barn.

The covered passage from barn to poultry-house and thence to dairy (which adjoins the dwelling) is for the purpose of keeping a clear track for the truck on which is carried the cream from the separator to the dairy, and more especially for the convenience of my wife, who is sole proprietor of the poultry, foster-mother of colts, calves, &c., and supervisor-general of every animal about the place. This passage would be necessary only in a climate like ours, where the snow is just now on an average of four feet deep, with drifts within sight of our windows ten feet deep.

I have shown on the first-floor plan of an engine of the horizontal pattern with two drive-wheels, from which I belt two shafts, one for the thrasher and grinding mill, and one for the ensilage-cutter, drum for hoisting hay to lofts, and then belting down to basement for the root cutter and separator, which are directly beneath. It was my first intention to supply the engine with steam from boilers in the basement. But it might be a better plan to use an "Acme" for all this work, as,

are to be stored in bins, the bottoms of which are on a level with these bays, where indicated by dotted lines in front of siloes, and over the ensilage-cutter; the grain to be drawn down to the basement and first floor through chutes indicated. A larger chute is shown for hay from loft and from siloes when first opened. The larger of the ground-grain bins is of capacity for one carload of 12 tons of bran, and the other for cottonseed meal, oil cake meal, and ground oats, peas, corn and barley mixed, a combination which we call *moulée*. It will be seen that we have learned by experience that Prof. Stewart's combinations of finely cut and ground and thoroughly mixed foods, in the correct quantities, are what our animals require and on which they do the most work for the least money. We have, therefore, tried in this plan to provide all the conveniences for carrying out his instructions, combined with the little experience we have had.

As to the manure question, I have read with great interest the numerous opinions expressed by your readers, and have come to the conclusion that they are nearly all correct—correct for the locality in which they live, and I have tried in