ber 31, 1914.



odern Idea array of win-disposal. Fresh The building Clarkson, Ont.

rkson

portion, as also individual calf the herd sire, dairy stable is tier of stalls to ne side being r stock. The d passage down stable is fitted modern conve f labor and the the big herd. movable mancalf pens and of galvanized of windows light as day ipment includ. the feed and talls, etc., for supplied by The building The building kmans up, and one for the 25 ngerveld of the basis of the big Segis Pontiac \$50,000 bull, is

t Manor Farm o big silos of et high and 20 y are situated tween the calf and the main i-east.

the barn is of the plate, and ilating system he peak. The The grain rations Hydro elecin the build-



Gooderham's ing over pails are six that

December 31, 1914.

ing and practically every phase of the farm work is carried on by means of it, even to the threahing. It also supplies a lighting system to all parts of the building. An immense steel tank near the barn furnishes a plenti-tial sumit of water to be head. The

tank near the bara furnishes a plenti-ful supply of water to the herd. This tank is kept supplied from the lake by means of an electric pump. While the elaborate, equipment of Manor Farm is scarcely possible to the average man in the dairy business, it is well worth any dairy breeder's time and inney to visit this farm for the many new ideas and augustions that could be put into practice in the case of his own buildings.

Ration for Dairy Cows

Please suggest a ration for new milkers from the following feach. Being halled out badly I am short of grain, but have abundance of good corn allage and a large quantity of good mixed clover hay. Ig other Hungarian grass, alfaita hay and 300 shocks eared corn-subscriber, Middleser On an superstance of the second second second of the second sec

Co. Ont. In compounding a ration of the feeds mentioned we would auggest that the alfalfa hay be used in combina-

also in protein quality. Either of ton seed or oil cake meal would desirable for this purpose.

Main and Control of the part part part of the part of t

27.614 2.515 13.397 .733

76.44 1.56 11.397 733 This ration balances well according to orientific standards, and approxi-mates very closely the restion actually fed by one of the most successful dairymen of Ontario. A good order of feeding would be ensilage and meal first thing after milking in the morta-ing, and when these are cleared up, alfaffa hay. At night a feeding of Hungaricz grass could follow ensilage and meal. Unless the cover are mil-ing very heavily two feeds a day would be aufficient. Ensilage might be re-dueed to make room for some shocked corr in the ration. If would also be advisable to throw some stalks in front of the cover last thing at night that they may have a chance to pick its or.

One of the great secrets in success

Comfort and Profits Go Hand in Hand in the Keeping of a Dairy Herd

Different rom brans beings, the dairy cow works hardest when she is the most confortable. Manor Farm Holsteins receive every care. Even the floors are of Kent cork brick. No capeed knees as on hard ellipper, floors. The modern dairy is hut a comfortable sun-room for the cove. - Phores by an editor of Farm and Dairy.

tion with Hungarian grass during the the most atsifactory call feeder was flush of the milk flow and that the made of a round wooden block with mixed hay be abstituted later on a one-inch hole borde in the middle, when the demands on the cors are through which the nipple was placed sould prove astisfactory for cors giv-nog 26 lbs. of milk a day. Cove milk-ing in excess of this should have the meal ration increased in quantity and the meal ration increased in quantity and the meal ratio in the shucket with the nipple was blaced on top of the milk in a bucket and in spite and it cost very little. One also in protein quality. Either one to meal or oil cake meal would he

we never had any trouble cleaning this nipple and it cost very little. One type of calf feeder had the nipple placed in the bottom of the bucket which was hung above the calf's head.

Because of the fact that the bucket was not very strong, we had some trouble from leaks and this "feeder" did not give absolute satisfaction. The third type was composed of a

The third type was composed or a rubber tube, a metal core, a spring and a nipple. The bucket in this type was hung on a hook outside the call's stall, and the rubber hose extended from the bucket through the wall and spring to the nipple. This

wall and spring to the nipple. This feeder was quite successful and alto gether satisfactory. CONDITIONS OF EXPERIMENT CONDITIONS OF EXTREMENT. The lots of calves were divided equally into two groups with regard to age, sex, weight and thrift. The same amount of feed, pasture and milk was given to all calves. In the beginning of the experiment the calves

beginning or she experiment the carves were approximately two weeks of age. Careful weights of each calf were taken on three successive days of each month. The milk was warmed before being fed to the calves and the subber parts were soaked in three per

FARM AND DAIRY

in feeding dairy cattle is to keep them well filled up. A cow is Lever so com-fortable as when she is full. Hence fortable as when she is full. Hence the advisability of giving the more palatable and nutritions feed in the morning, the alfalfa hay and ensuitage, in order that ahe may fill up well on the less palatable feed later on, as corn fodder and Hungarian grass.

Nipple versus Bucket Feeding

By J. J. Hooper of the Experiment Station.

Eighty calves 'principally jerseys) were employed in five separate experi-ments by J. J. Hooper, of the Experi-ment Station, to determine the advisament Station, to determine the advisa-bility of using the calf nipple for feed-ing the young calf. In all the tests two lots of calves were fed, one lot of calves being fed milk direct from the bucket and the second lot was fed through a nipple. Three kinds of patern nipples or "calf feed.es" were used. The results of these experi-tion.

tin. The simplest and in most respects

ceat. formalin solution after each feeding. The calves were fed milk twice each day and hay and grain as they grow.

It required on an average for all calves, 39% seconds for the bucket-fed calves to drink their milk, while the calves sucking their milk through the nipple required an average of two minutes and 21 seconds to drink the same quantity of milk. Our weights show conclusively that during the first seven or 10 weeks of the calf's life, they were more thrifty when fed through the nipple, which was due to the fact that as they suck the milk they mix it thoroughly with saliva they mix it thoroughly with saliva and take it slowly. After the 70th day the nipple was no more effective than bucket feeding, and in fact calves fed carefully from the bucket, will make almost as large growth by the time they are six months old as those fed on the nipple when they are young.

Shoeing the Farm Horse (Continued from page 4)

(Continues from page 4) Now for the rasping. When the shoe is nailed on firmly and the ex-tra length of nails is cut off almost flush with the hoof, the corner of the rasp may be used to make a slight in-dention to permit of turning down and clinching. It may then be run lightly clinching. It may then be run lightly around to remove any sharp or uneven ends where hoof and shoe meet. This done the foot is correctly shod. I will close with a few points taken

from a most excellent article by Mr. Frank R. Shaw, in a recent number of Successful Farming. Mr. Shaw's points coincide with my own conclusions reached after a period of many years' experience with horses and many heated arguments with blacksmiths who seemed to think I had no right to dictate how my own horse should be shod:

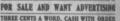
"Don't ever rasp the outside of the hoof to give it a smooth, finished ap-pearance; nature has covered the foot with an enamel to protect it against heat and cold and to enable it to retain the moisture necessary to its bealthy growth. Don't cut away any of the frog—it is placed where it is to act in connection with the plantar cushion or sensitive frog as a buffer in meeting the concussion caused by the foot coming in contact with the ground. Don't cut away the sole of the foot—it is put there to protect the entire structure and mature provides for the shedding or scaling away of old and dead growth. Don't place a red hot shoe to the foot; it is im-possible to have fire and a live fibrous possible to have fire and a twe nbrows substance come together without in-jury to the latter, and where a hoof is thin and inclined to shellines, it will be fired to a point where in time it will be almost impossible to have it retain a shoe. Don't cut away or interfere with the brace extending from the heel toward the frog; this a wise vuryinion. Of nature to is a wise provision of nature to strengthen the wall or hoof and to prevent contraction and can never grow too large or strong.

Dairying on Sandy Land

Rearrying on Sandy Land (Romsel from page 6) rearrying on Sandy Land hans: I have ever used when rown on light soil. We plow the land in the fall. In the winter or early sing we spread seven loads of manue per free. As soon as the land is it in the spring, we drag twice over, in a with the days cultivate both ways. The other days cultivate both ways the other days and the seven the days with the following week we days the other to ways, it estart our age they are a good size, then use a one-bother sculture. (Continued from page 5)







EXECUTORS' SALE OF FARM in Oxford county. 233 acres. Extra good situation, soil and buildings. Write J. J. McNally, Otterville, Ont.

PRIE-We will give free to any person interested in stock or ponitry one of our Separe illustrated books on how to feed mon diseases of poultry and stock with remedies for many, tells all arout car four days, tells all arout car for days, tells all arout car and arout the stock of the stock of the day of the stock of the stock of the day of the stock of the stock of the Mig. Co. London, Canada.



