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It was then the second week in June, the weather showed no sign of improving, and there was still a large acreage of grain to be sown, after which the corn and roots land had to be attraded to. Circumstances such as these must be taken into consideration by the practical farmer.

What Drainage Did.

The next field we came to was in striking contrast to the one we had just passed. It had formerly been one of the wettest fields on the farm, and, therefore, one of the last to be sown. For the same reason it was one of the first that Mr. Allison drained, and it has a complete system of tiles underlying it. I was informed by Mr. Allison that this year it was the first field on the farm to become ready for cultivation. It had all been sown and the grain was beginning to show up nicely. The fine soil, perfectly dry on top and in the best of with, was absorbing the heat of the sun, and we knew that just beneath the surface, where the young toots were feeding, the moisture and heat were meeting to provide ideal conditions for growth. We also knew that down further still the drains were working 24 hours a day and seven days in the week, drawing away the surplus water and making seeding operations and growth possible.

is Mr. AlHson's intention to proceed with age programme as fast as the conditions 2.1oil and the scarcity of labor will permit. nt Previous to this year, he informed me, the latest corn he had ever sown had been put in the ground on the 12th of June. This year it would be well after that date before he would be able to get the first corn in. In order to avoid a repetition of the unsatisfactory experience which he has had on undrained land in getting this year's crop in, no time will be lost in extending the drainage system to all parts of the farm; for Mr. Allison is firmly convinced that it pays to underdrain

The Stability of Dairying E. P. Bradt, B.S.A., Dundas Co., Ont.

THE dairy farmer occupies a rather unique position in the great

agricultural industry of our country. He is indispensable to the human race, and the products from his herds are a necessity for the maintenance and unbuilding of the nation. The child requires milk from its birth, in fact, must have it or perish; the invalid often lives for years on it; the aged very often use it almost exdusively; the athlete uses it when in training for some trying experience of physical endurance; in short, it is the greatest of all foods for all people under all conditions. The young, the old; the weak, the strong; the poor, the rich; all these are customers of the producer of milk.

From this we gather the reason of the stability of the dairy industry. Other commodities are unstable, and we find a great rise and fall in the supply and demand for them on the market, depending on times and money conditions. Financial strin-

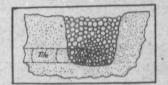
gencies and periods of tightness of money do not need to worry the dairy farmer. He knows that the commodity he has for sale is one of the necessities of life, and that in periods of hard times it will be the luxuries that the careful housewife will dispense with while the consumption of the dairy products will go on practically the same.

There is no reason for the dairy farmer losing heart in his business. If some of his fellow farmers go out of dairying, all the more reason why be should stay with it.

FARM AND DAIRY. A Hoopless Silo

A BOUT two years ago a cut showing a hoopless file, owned by P. J. Harvey, Stanstead, Co. Que., was published in Farm and Dairy. Recently a subscriber living in British Columbia asked for details aboving how this allo was constructed. Mr. Harvey, who has now had three years' experience with his allo, has kindly supplied the following information regarding It:

"Although my silo is said to be hoopless, in the strict sense of the term this is not the case. The



Catch Basin for Leading Water From a Low Spot

misconception has probably arisen because the hoops never need tightening, and because they are invisible either from the outside or from the inside.

Making the Hoops.

"Thy sile is constructed as follows: A circular cement foundation, such as is used for an ordinary stave sile is first built. Two by four atudding, placed 18 inches apart, are stood on this foundation, care being taken to keep them about one and one-half inches in from the outside of the foundation. These are furnity braced in position. The hoops are made from half-such eim boards, four, five and six inches wide, the wider ones being used near the bottom, and the anrower ones further up. To make the first hoop, sixinch baards are best around the studding close



Prosperity or an Ekistence? The Reason Why.

The cartion ason horsewith has been published by the North Dakeds Agricultures bolings. In the partner of the Dates second from to the hor to as burdes, and the Dates of the Dates of the Date second from the Date burdes, along to is sharting the unspecifiable cover from his herd. The cover in the pasture to be right or all breaded with a creasion mark. There over has bolin profitble and unspecifiable cover, but does not know which is which: Covereductly Dates and the Dates over the Dates of the Dates over the Dates of the Date over the Dates over the Dates over the Dates over the Dates and the Dates over the Dates over the Dates over the Dates over the Date over the Dates over the Date

> to the Lundation and Lacked to the uprights. Three blocknesses are put on in this way, making a hoop one and a half inches thick with the joints well hroken. Nails are then driven through the hoop and firmly clutched to hold the boards together.

> "Another hoop, similar to this one, is placed about two feet further from the foundation and so on to the top, the distance between the hoops being gradually increased until at the top they are four feet apart. When one-third of the way

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up the five-inch boards are used, and nearer the top the four-inch ones.

Boarding In the Cila.

"When the hoops are in position the outside is covered with good lumber, ninced verifically, and firmly nailed to the hoops. A start is then made with the inning. Narrow lumber is nailed vertically between two of the studs. When the dristud is reached is is taken down, for the framwork is only required whiles the silo is under construction. The sheeting is then continued, the stude being removed one by one until the complete round is made on the inside of the hoops.

"When the first ply of sheeting is in place a start is made with the tar paper and the second ply. The paper is tacked in place one atrip at a time, this reaching, of course, from top to botom. The second ply of sheeting is also placed vertically, and is best made of narrow boards. When it is completed the wall of the sile consists of three thicknesses of lumber, one thicknesse of lar paper and a dead air space of one and a half inches. This prevents the ensinge from freesing.

"I have filled my silo three times since I built R, and the ensilage has kept perfectly. The silo has not budged a har's breadth since I put it up, and if I were to build another I would build eajust like it. T⁶ it did happen to blow over it would not be damaged, for it would roll 10 miles without coming apart. It has certainly proved to be entirely suthafactory in every respect."

A cut, showing Mr. Harvey's silo after three years' service, appears on the opposite page.

Feeding Pointers for Dairymen Henry Glendinning, Ontario Co., Ont.

The dairy farmer, as a rule, confines himself to one of the well known recognized dairy should be registered animals of their respective breeds, but the dairyman should use a pure bree size of whatever breed he may have chosen is build up a herd.

It is easier and more economical to handle one breed than two or three. as the farmer can concentrate his mind on that one breed and his money in procuring a first class sire. The sire should be descended on both sides from good milkers having a high test in butter fat. Dairymen should, as far as possible, raise their own cowe. With the creamery this is easily done, as there is always an abundance of fresh skimmed milk. The young calf should be fed the whole new milk from the mother for a week. After that a little skimmed milk can be added and the skimmed milk gradually increased, so that at the end of three weeks the new milt can be cut off altogether.

It is a good plan to add a little ground flax seed to the skimmed milt to supply the natural fat that has been taken from the milk in the form of cream. In advising ground flax, I wish to impress upon my readers that I do not mean oil cake, as the mail

of the oil has been laken from the flax in the process of making the oil cake. Oil cake ast skinned milk have a good deal in common is their composition as feedstuffs. With a simulmilk, the green grasses and clovers in the summer and plenty of whatde, calf raising becomes us easy matter. For winter feeding substitute the grasses by using alfalfa or clover hay, corn alags and roots. If alfalfa extnot he had, ground sid should take fits place.

(Concluded on page 11.)

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M R. A. C. HAI one of the w Canada was

Farm and Dairy a tional notes deal wi farmer. Here, too, ber in advance of his in his neighborhood man in the county was the first in the making his first as which he made his tions his aim is to a he grows. Really, he o "I grow consider

Hallman at one fin proceeds buy feed, a the farm are all fed In 1915, the fall wi

to the acre on this jo to 14 acres of co rots. A few sugar factory, which gives add the sugar pool and cheap fee 50 to 60 tons of it to 3,000 bushels of the determined the far the acreage devoted

No Fixed

Speaking of his "I have no fixed as land gets manure e grow the fall wheat gives me a lot of ro cut and goes throug used for bedding. T and the hoe crops. fall wheat without if crop, except in 191 reduced the yield to "As the corn land

good crops on stubi the land clean and short rotation, where

