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competition is keener.

little, while the difference in market values is often very great.

In taking up work in some line entirely new to us, it is well to find out man. the experience of others on the subject. Experiments are often expensive, and connection.

Economy is necessary about the to economize, as what cannot be used for one thing can for another, but stinginess is not always economy.

Sometimes people stick to pringiffigure methods when, by the outlay of a adopts the ordinary gravitation method methods. The money, more modern and uses the shot gun can set in icemethod or machinery might be intro duced, which would much more than pay for the extra outlay. There are many cases, however, in which, in the interests of true economy, we have to put up with inconveniences.

Farming is a large subject, and there are very few of us but have much to

learn.

There are many issues which go to make the profits or losses which are not within our control. To be sucnot within our control. cessful we must try to make the best use of those things which are under our control.

## THE KIND OF DAIRYING THAT PAYS.

That the business of dairying is becoming more profitable in Canada, and our dairymen are each year gaining cows, is evidenced by the increased out of their cows. In these days of keen competition, to make a profit out and marked business ability in managing the affairs of the farm. This applies to dairying as well as to anything else. In fact, there is no branch of farm work that will respond to skill, care and attention given it as quickly as the dairy business. Notwithstanding the low values for dairy products there are many farmers to-day making a large profit out of their cows just because they have given strict attention to business and to the little details in connection with the handling of the cow and her products. Unless this is done success cannot be attained.

done by applying the best methods is that of Mr. Wm. Willis, of Newmarket, Ont. In 1897 Mr. Willis had twelve cows, which returned him \$50 apiece in cash for the season's work. Shorthorn. Four of the cows were recover.

two-year-olds with their first calves.

During the past few years a good In addition to the \$50 which each of horse could be disposed of at some producing such horses even from our iums.

good article, as the cost in production ronto. But even if a reasonable al- as each year more land is brought butter, the net income which Mr. unbroken horses or colts in Ontario Willis received from his cows last year is far above that of the average dairy-

Mr. Willis milks his cows on an average of ten months a year. He it may be that others can give us light has several Jersey cows which give over on the subject and save us from mak. 6,000 lbs. of milk in one year. One ing serious mistakes. The reports of cow produced over 450 lbs. of butter the various Government Experimental during the year. Mr. Willis makes a Stations are of much service in this practice of feeding some grain to his cows all the year round. His winter ration consists of 40 lbs. of corn enpeas and oats mixed per day. the chop, and out chaff or hay at noon.

In making the butter Mr. Willis water for creaming. He claims to get very good results from this method. He churns not less than three times a week, and sometimes four times when the weather is warm. The success of this dairy as well as a great many other private dairies is in a large measure due to the women folk on the farm. Mrs. Willis is a very successful butter-maker, and takes particular care that each pound of butter made is of the first quality. There are many other dairymen who are getting good results from their herds. We would like very much if they would let us have these results for publication.

## HORSE-BREEDING.

By ALDERT DAVIDSON.

subject, although I know that horsemore knowledge as to the best meth-breeding has become unpopular. Dur-ods of feeding and caring for their ing the past few years prices dropped so low that horse-breeders sustained a number who are making a large profit serious loss. The market has not yet improved sufficiently to warrant any large ventures; still, I prefer to have of any branch of farming requires skill an occasional horse to sell rather than one to buy. Horse-breeding ceased so suddenly that there may be a shortage of horses and a consequent rise in prices. The low prices of our horses will introduce them where otherwise they would probably never have gone.

The Canadian horse has proved himself to be among the best of his kind wherever tested, and for this reason those who buy him may want more from the same source in the future. The exportation of live cattle to Great Britain being in a measure restricted, would it not pay us better to send A good instance of what can be horses, against which there is no renow than we had in 1894. These cows were made up of purebred had the effect of putting us in a posi- action and weight. Jerseys, Jersey grades, and one grade tion from which it will take years to I prefer a cor

To make a successful farmer a man the cows brought in during the year price, while an inferior animal could miscellaneously bred mares, as well must have brains, and use them. The Mr. Willis had the calves and skim- not be sold. In this way we were breddraughtstallionshave proved themthe same time. It is evident then that horses will be wanted, but as to the kind of horses we should endeavor to every breed and type of horse in the known world.

Very little intelligent effort has been made to keep the breeds pure. We have crossed in and out until it is only farm. Mixed farming makes it possible silage, to lbs. of chop consisting of occasionally possible to trace a pedis mals of superior quality, and to profeeds ensulage night and morning with out finding an admixture of blood of blood in the stock selected for breeding purposes is to be attributed some of the disappointments and failures we have had in breeding. have been told that like produced like, but this is true only of characteristics which have become finally fixed in the ancestry. For this reason we should use a purebred male as a sire, even though we are obliged to use a mare less well-bred. The breeder must first decide what kind of a horse he wishes to produce. Farmers seldom agree on this point, and are, I believe, too ready to change from breed to breed according as there appears to be a demand in the market. If we would cease trying to breed trotters, cavalry horses, or extreme high steppers, and would have fewer disappointments, and soon a vastly better and more saleable class of horses would appear It is with pleasure I introduce the than we have at present. For the best price may yet be high, but I do not think that the ordinary farmer can afford to breed for speed. That should be left for gentlemen of means, who, with the choicest of brood mares as well as stallions, may take the chances of breeding a racer, for they are not produced with certainty even by the most experienced breeders, and when produced require an expensive train-The ordinary farmer must raise has found them a market abroad, and a horse that he can sell. He must breed from mares that are able to do the farm work satisfactorily and produce colts which at an early age will be saleable. As to what class of horses will be saleable four or five years hence, we can only conjecture, but I believe that there is a growing demand for farm horses, and those will be the most profitable to produce. Electricity or other motive power may displace the horse to a great extent in striction? If we refer to the statistics our cities and from our roads, but it is on the above date. The secretary of for Ontario, we find that we have over not likely to do so on the farm for the above institute is Mr. E. Morden, 22,000 less brood mares in the province many years. We may differ as to the of Niagara Falls South, who has charge Thus we kind of horse the farmer needs, but he of the arrangements. find that the low prices of horses has should combine in a fair degree both

I prefer a compact, short-legged

impression prevailing in some quarters milk to the good, and milk and butter forced to sell our best animals, whether selves successful sires of this class of that anyone can be a farmer is an enough for a family of nine. This is gelding or mares, and thousands of our stock. Such a horse can be raised alentirely mistaken one. When land was a very good record, and far above best mares have been shipped out of most as cheaply as a steer of the same new and prices high this may have what the average farmer gets for his the country. We also find that we re- age, the only additional cost being the been the case, but it is not so now. cows per year. Of course nothing is quire over 38,000 more work horses stallion fee, which is now at a very Prices for farm produce rule lower, and allowed here for manufacturing, as the in this province now than we required reasonable figure. There will be little milk of the cows was all made into in 1804, and we know that this demand or no expense for training or breaking, Farmers should strive to turn out a butter on the farm and sold in To- for home use will continue to increase and as soon as old enough such a horse will sell readily unless seriously between first and second grades is very lowance is made for the making of the under cultivation, while the number of blemished. We have made mistakes in the past in being anxious to proshow a decrease of over 60,000 during duce horses of extreme size and have bred for that regardless of quality. The product was not very satisfactory; they lacked endurance, were apt to breed, there is a great difference of have poor feet or unsound jointsopinion. The horse stock of this especially the hock joint—with legs country seems to be an admixture of round and beefy, and predisposed to scratches and other ailments. The depressed horse market and the consequent close discrimination exercised by buyers have shown us the necessity of endeavoring to produce useful ani-He gree for eyen four generations, with duce such we must select our breeding stock with more care. It is frequently from distant types. To this admixture the case that mares which have become worthless through some defect in the feet or legs, or on account of a baulky or vicious temper, are used to breed from, and the probabilities are that they will transmit to their offspring a predisposition to like defects, for defects are as likely to be transmitted as more desirable qualities. It is unprofitable to produce an unsound or vicious horse of any class, and if you wish to breed horses I would advise you to provide yourself with a good-tempered mare free from any unsoundness, and mate her with a sound horse of good quality. The time has gone by when the mere fact of being imported should commend a stallion to patronage, and breeders must be as careful in selecting a sire as they are in selecting a try to produce the kind of horses that horse fo their own work. Size, shape, are most suitable on the farms, we color, action, and style should all receive some consideration, but un-doubted soundness should be made the first requisite. The owner of the stallion or his groom may have very class of carriage and road horses the plausible excuses for apparent defects in their horses, but breeders must learn to discriminate very closely if they would produce good saleable horses, and those only are profitable.

## FARMERS' EXCURSION TO THE ON-TARIO AGRICULTURAL COLLEGE.

Through the secretary we learn that the Welland County Farmers' Institute have arranged an excursion to the Ontario Agricultural College, Guelph, to take place on Saturday, June 18th. The train conveying excursionists will take on passengers at all stations on the G.T.R. between Fort Erie and Stoney Creek via Port Colborne and Welland R.R. Niagara Falls passengers take the early morning train. This is the first notification we have had of excursions this season, and no doubt a large number of farmers from the Niagara district will visit the College and Farm

You cannot spend five minutes