IMPROVEMENT OF DAIRY HERDS IMPORTANCE OF SPECIALTY WORK

Address by Mr. C. F. Whitley, before the District of Bedford Dairymen's Association Annual Convention held last winter

fore the District of Bedford Dairy- this record testing association. Now, er. because just as a decreased quanmen's association in the Eastern just to show you the possibilities of tity of milk adds to the expense of so full of information, and enthusias- with over 30,000 cows-mind, those of milk per cow and per patron will a man who bought from a neighbor themselves for information and guiit will be welcome to the many are all the cows in that particular it will help, it seems to me, to solve cow. He said she was not giving ing and experience in these matters.

of replacing it by artificial fertiliz- curately without keeping records. the animals in his herd; and it will You cannot keep the animal in healers. Further, political economy Say a man is keeping ten cows. Say broaden his view of life. teaches us that it is always the six of those gave him between 4,000 One of our tests last year was tak- is vitiated. In the construction of manufacturer and the middle man and 4,500 pounds of milk, one gives en in St. Camille, Wolfe county, a dairy buildings, ventilation and light who make the profit rather than the him 2,500 pounds, another gives 3,- district where oxen and spinning are both essential There should be producer of the raw material. There- 000 pounds, and two yield 3,500 wheels are still visible, where we a liberal use of whitewash in the fore, as the dairy farmer is combin- pounds. On the six producing about have a strange mixture of the old, stable, which should be kept perfecting these, as he is running a factory 4.500, which is a fair average, he log house and metal shingle, where ly clean. Will you dairymen rememand using living machines to an- would have a margin of about \$10 there is no race suicide, there being ber that the health of thousands of ufacture for him, and he acts as his above the cost of the feed consumed from seven to fifteen children in individuals depends upon the cleanliown middleman, his own salesman, by them, but on the remainder there, every house, and plenty of old peo- ness of your milk, and further, that he should be making an extra good would be a loss of \$60, an amount ple. Here is the point. That dis- the lives of children depend upon the profit. With fields producing good sufficient to counterbalance that pro- trict, which is not very far from purity of your milk? Give your crops for him under careful and in- fit about six times. I submit that here, is a recruiting ground for the cow every chance to make good milk telligent cultivation, and the antaials no system of bookkeeping whatever New England factories. Unfortunate- in a pure and wholesome atmosphere, that raw material, he is in a posi- cess of such management in any oth- an exodus, of our young people from ed and perfectly clean. Remember tion to sell, at first-class prices, a er line of business; and the fact these eastern township farms to the that anything that tends to manufactured article; and that is that some farmers do not make & United States, and it is a fact, it is cow's comfort is going to bring imwhere profit comes in.

business, there is some element of also shows the possibilities if all her there are 1,700,000 children under know, that old fixed stanchion. Ge speculation. A man may feed his bountiful provisions were properly fifteen years of age employed in the rid of it, because the cow cannot be hogs for six months, and then it is utilized. there no speculation. The cow is production of 7,600 pounds of milk undertaken, there is nothing hum- made a domestic pet, and is treated there with her business end, which for all animals, which is an increase drum about it. Another point, it is with the utmost kindness. It pays pointed and emphatic in their re- just through selection it is possible sent happens. This testing work to hurry them home. They should be marks. Given, then, a good cow to obtain a profit of \$14 more from will get the cows in rivalry with allowed to come home peacefully and and good care of her, you may have each cow that is being handled. That each other instead of the factories, quietly. Do not let the dog run after sure profit, and may derive good is worth keeping in mind and work- It seems to me that there is some them, either. profit every year; with steady in- ing for.

A cow is valued according to her the intense personal satisfaction that those already on hand, leaving the doing what they could, simply ability to give milk, and there is no always results from the accomplish- question of dispensing with the poor cause they are not getting enough to use in wasting good feed on a poer ment of any praiseworthy endeavor, ones. First of all, it stands to rea- cat. They are not giving milk

just wish to refer to one or two very to see. We are proud of the men and their flanks. I submit that this is the Experimental, Farm is this, section only, and I give them just er cheque monthly from the factory, pecially at milking time, so that the five pounds of grain a day, and so that you have started up in that diate benefite to the farmer himself, is this, that you should use the cur-

GOING DATES-

and Midland Divisions.

SEPT. 5 Stations south of, but not including main line, Toronto to Sarnia.

SEPT. 7 Main line Toronto to Sarnia and Stations north, except north of Cardwell Junction and Toronto on North Bay Section.

SEPT. 8 From all points Toronto and east to and including Sharbot Lake an

Tickets will be immed to women as well as to men, but will not be insued at half fare to children Tickets are good only on special Farm Laborers' trains.

For full particulars see nearest C.P.R. ticket agent, or write C.B. Foster, D.P.A., C.P.B., Toronto.

T. C. MATCHETT, Agent, Lindsay.

One way second class tickets will be seld to Willittres only.

Kingston, and north of Toronto and Cardwell Junction on North Bay

The following address delivered be late you again on having started | immediate benefit to the manufacturcause dairying not only improves in Cowansville district in 1904. If age. It is not only the farmers who keep warm, but under improved con- and do hard work on feed that will the land, but it leaves the land in a the cows in this district were pro- are interested in this business, but ditions, when she could produce, she hardly keep others alive. If you good state of fertility. The mar ducing to that extent, I think, Mr. every merchant and banker is glad did. A cow will always respond to take a trip east you will see the who is selling milk is taking off but Chairman, that perhaps the C.P.R. to see a farmer coming in with a big good treatment.

worse failure than they do is a tri- an astonishing and horrible fact, provement and profit as well. There Now I take it that with the hog bute to the generosity of nature and that in the United States, to-day is in use in this neighborhood,

a question, will the market price Denmark is not the only country ten in unsanitary, unhealthy, and im- tie, or the swinging stanchion. equal what he has put into them? that has these testing associations. I say that kind of that she may live and move and be The same thing takes place in re- Germany has sixty-seven, and Nor- thing has got to stop. This cow comfortable. gard to feeding sheep or steers. Will way and Sweden over 200. I can- testing work will counteract that in- Then a cow wants kindness, and the profit be equal to what has been not give you all the figures for these, fluence. It will help to bring those kindness is a most profitable com the cost? But feed the cow, and all but I just want to show what they young people back, and the interest modity. It is the same with regard you have to do is to step right have done in Germany. Inside five in the work will keep the boys and to animals as with man. In the Isround and draw your pay. There is years they have attained an average girls on the farm. If it is rightly land of Jersey the dairy animal is is in contradistinction to the busi- inside five years, of 1,380 pounds of of direct benefit to the factory and to be kind to her, especially at milkness and of the wasp or the mule, milk. That has been accomplished there is no harm done to the neigh- ing time. Let the lazy boy go to which are both likely to be sudden, just through selection. You see, boring factory, as sometimes at pre- fetch the cows, for he is likely not

other side to this question, and that has been undertaken by farmers there patrons. Now I am convinced that in a few minutes. The first function is that it is a fact that many cows has been a relief of the burden that by following this system of record is to support life. the falls on the instructor and the cheese testing we are at the threshold of a point you do not get any return of time spent in growing it. If that is or butter maker, because, for one very great movement, at the dawn of milk, until the cow has enough this thing, farmers take better care of the a new era of prosperity for dairy side of her to support her life and to keeping caws that ity being delivered at the factory.

fertility in the shape of nitrogen, no married man) should have any in- several useful faculties, such as close- cows, the windows were, you might potash and phosphoric acid. He is difference in regard to it. for no ness of observation, sound judgment, say, hermetically sealed. A cow needs therefore relieved from the necessity farmer can work intelligently or ac- business ability, in his dealing with fresh air just as much as you or I.

> factory, mine and workshop, too of comfortable in it. Give her a chain times too much attention paid to Now I would like to turn for a

country, money, and that appeals to the ma- tended to. See that there is no ma-

sentative farmers, appointed by Manitoba and Saskatchewan Governments, will meet abovers on arrival at Winnipeg.

reasportation will be furnished at Winnipeg to points where labovers are needed.

illeate is furnished when each ticket is purchased, and this certificate, when executed by farmer, showing that labover has worked thirty days or more, will be honored from that point for a second class ticket back to starting point in Ontario, at \$12.00, prior to fortable always.

Another point is this, that they absolutely essential that the supply should have plenty of water. I be of nitrogen should be made use of. lieve in having water before the stock We know that four-fifths of the air continuously. A cow will drink as is nitrogen, and that the atmosphere often as ten or fifteen times a day if has a pressure of 15 pounds to the e gets the chance. Have water in square inch; so there is about \$280 front of her always, and you can worth of nitrogen per square foot to trust her to drink it. If a hole is be had if a man will avail himself of cut in the ice for the cow to drink she it. The nitrogen may be obtained cow's body is half water, and milk it. contains 87 per cent. So she wants A further point in feeding is this plenty of water at all times; and it that the cow will relish her rations pays to warm up ice cold water a just in proportion as they are varied little, so that the cow will not have and as they are digestible. Each food

thy condition if the air in the stable

come and good, sensible, quick re- In regard to these testing associa- stealing patrons from the neighbor- minute or two to the question of tions, there is abundant evidence on ing factories, instead of to increasing feeding. That is a big subject, and this point that wherever this work the supply of milk from the present it is not possible to discuss it fully repair the waste. A certain amount There are other methods which we of feed is required to keep the na min- tural functions going. Above that, of milk. So the first principle is to rying out this work. There will be take the better care and handling of feed liberally. Many cows are not Then there is an increased public es- son that the cow should be clean, sufficient quantity, for the simple One point of improvement of dairy teem. A neighborhood is always Unfortunately, a great many do not reason that they do not get enough herds that has already been discussed proud of a man that has a fine herd pay enough attention to this mat- feed from which to manufacture the into that subject fully to-day, but I we are always glad to take visitors to see that no manure is hanging on ing grain?' A simple one in use at striking records that have only just proud of the cattle. There to also one very important principle and one feed one pound of grain for every five water from that going to be increased profit in ready which should be more carefully at- pounds of milk produced by the cow; or for every twenty-five pounds The figures take in one Jority. There is going to be a larg- nure on their flanks, or udders, es- milk that the cow produces, give her

district. And I wish to congratu- There is also going to be a direct ry comb freely on the cow. When minute or two on the question of

both necessary to supply heat-and That brings me to speak on anoth- many, he sold one-any one. looking out for a dual purpose ani- dons and merves, and all the working cord of the previous month as the mal. He would let the wind blow machinery. Carbohydrates, starch yield for the present month. down one side of the cows one week, and fat, supply the heat and energy shrinkage of 10 per cent. is not reand the next week he would turn But it is those important albumi- garded as abnormal. Naturally, the them round, so that they might get noids that we want to get. Their shrinkage varies very much : some a development of good hair on both sole source is the albumbnoids such cows will give a good flow for some sides. We do not want that. We as albumen, casein and fibrin, in the time, while with others the yield of want the cow to be warm and com- plant, and these all come from the milk falls off very rapidly. I was nitrogen in the air. Therefore, it is rather surprised to find, out that here

cannot get half enough in that way by growing leguminous plants, such to keep her going. It is important as pease, beans, clovers, lentils, luto give the cow plenty of water; the cerne, vetches, etc., gather and fix

to warm it up with expensive feed. stuff has a definite feed value and In the matter of keeping cows should be proportioned accordingly Townships, by Mr. C. F. Whitley, is this work. Their average last year manufacturing, so a larger quantity warm, I came across an instance of Men should not be afraid to trust tic encouragement to dairymen, that are not selected animals at all; they decrease the cost of making. Again, what the latter sain was his poorest dance to experts who have had trainreaders of the Watchman-Warder who locality, and that includes all ani- the problem of the poorly equipped enough milk for him. The man who Cows thrive according to these prinmals that were milking, wnether factory and will hasten the day of bought the cow took her home and ciples; therefore, why not study There is no question but that, with their first calf or with their licensing the sanitary Buildings, and gave her the best of care. The re- these feeding principles? We should rightly undertaken, dairying as a twelfth. It includes heifers dry and it will assist in avoiding the unnec- sult was that, under the changed find out just what each particular profitable business. It seems neces- farrow cows, and cows that aborted. essary multiplication of poor facto- conditions, under better conditions, cow needs, and in that way we can sary in this section to go in for the The average production was over ties with a small output. There will be got from her over \$100 worth of feed her economically and increase handling of live stock, because this seven thousand pounds of milk-T,- also be a stimulation of interest all product in a year. The cow could her production. It is very imporis not a fruit section or a grain 300, equal to about 281 pounds of through the country. We are all de- not produce enough milk before, sim- tant to study each cow. Watch the raising section. It is a wise prin- butter fat. That is just about one pendent on the dairy business from ply because she had to shiver away feed and find out what the cow reciple too, this dairy farming, be hundred pounds more than we found early infancy up to manhood and old the bulk of her feed in the effort to quires. Some races of men will thrive sweltering coolies loading ships at very little of those substances of would need to spend a little money load of milk, as ready money is go- Another important matter in good Singapore carrying loads that you plant food which are necessary for in lowering the grades on this sec- ing to flow. All classes in the com- ventilation. The cow wants an or I would stagger under, and they in this district of Cowansville the bought the best cow. If you have the production of good crops. As a tion of the railway, they would be munity are interested and dependent abundance of good, fresh air. By carry them hour after hour, unflinch shrinkage was as high as 15 per to buy, buy a good one. matter of fact, in 6,000 lbs. of milk so busy hauling dairy produce. on the successful dairyman. This defresh air I do not mean simply cool lingly. Those men have hardly any cent. That is too high altogether. I want to go to another point he is only selling off about \$6 worth Every farmer should be interested velopment will also affect the dairyof valuable matter from the soil, in this matter. No single man (and man himself, as it will bring into play which there were twenty or thirty of calico. At meal time they will to produce milk through a reason- but which I did not dwell on very eat only a double handful of rice, able period. To maintain the flow long. I refer to the question of and that is plenty for them, al- of milk is one of the secrets of good manipulation milking; that is, the though it would hardly keep other dairying. In maintaining the flow system of pressing or kneading the men alive. The point is this, that we should have a silo; two tons of udder after milking, both sides, both some races will thrive and fatten on ensilage costing about \$3, are equal ways. The object of this is to infood that an Englishman, for in- to one ton of hay, which would cost crease the yield of milk and fat. May

studied the figures-and I hope you flow of milk.

as against 22 pounds. With regard pounds. So, do not grudge effect. There is a well known law to dry matter, a Holstein took 17 the price for a good bull. I know that 'like begets like,' and it stands pounds of dry matter, while a neigh- an instance of a man who paid \$300 to reason that cows whose milk proboring Shorthorn in the same barn for a bull-it does not matter what ducing capacities have been developtook 354 pounds 'to produce one breed. He paid \$300 for a bull. In. ed to their utmost limit will be more pound of butter fat. There is great side of twelve years he has sold likely to transmit these qualities to difference in animals, and therefore about seventy-five grade cows; and their offspring, than cows whose facit pays to study the individuals so he estimates that they have sold for ulties for transforming plant food inas to feed economically. How easy it at least \$20 more on account of the to milk and butter fat have never is to waste good feed on a poor good breeding there was in them, been developed. A secondary, but cow! For instance, there is a start- Seventy-five animals at \$20 gave him very important advantage from sysling difference in the cost of a pound an extra profit of \$1,500. Then be tematic and clean milking, would be of fat, or of a 100 pounds of milk, sides, he estimates that the increas- fewer diseased udders. This misas produced by a good and a poor ed production of milk from these an- chief is frequently the result of care-

cow. Taking six fairly good typi- imals, on account of the good blood cal cows, as reported on in the state in them, has brought him another of Illinois, we find that the cost of \$1,500. There is \$3,000 which he a pound of fat varied from 61 to has gained in twelve years on an in-131 cents, the average being 10 cents vestment of \$300 in buying a purebut as produced by six poor cows, bred sire. Is that a good investthe cost varied from 14 to 52 cents. ment or not ? So don't grudge the average being 26 cents. Similar- \$200 for a good bull. Don't ly the cost of a 100 pounds of milk the scrub bull at all, but use ranged from 30 to 50 cents with the the pure-bred sire. Make sure that good cows, averaging 38 cents, while he comes of a line of parents with the poor ones the cost was nom have shown their dairy qualities and 54 cents to \$2, averaging 99 cents. have established power of conveying No more striking proof could be giv- dairy quality to their offspring. You en of how easy it is to lose money have the right to demand from the

was having a chat with one of our a bull on his fancy exhibition butter makers, who gave me some fashionable show-ring points. figures, some very startling figures. want to get something better than We often hear about the average pro- color. You do not want a grade duction being low in Ontario, but bull, or to breed 'skim-milk cows,' If just think of these staggering figures | the bull is 'half the herd.' it is cortaken direct from his books. In that | tainly worth while getting one that locality there was one man who was has good dairy quality suppose he was getting from them weeding out poor cows. In regard for the whole creamery season? Just to that, I would say if you want to an average of \$10.84 per cow-for purchase, do not grudge \$50 or \$60 the whole season, from the middle of for a good, healthy cow. It is betthe curry comb a little more on the heap in the stables, as in vogue on butter maker talked to this man. profit from them. Some time ago I it will stimulate the circula- some of the farms in this district. and got him to look after his cows was speaking to a man, and he sald: tion, and that is going to pay, be make the best use of it in fertilizing a good deal better. He got him to I bought a cow last week from cause it tends to the better health of the land. Feed the soil, so that the shift their pasture occasionally, and neighbor. He thinks a cow to soil may produce abundant crops to to give them plenty of green feed; cow, just as a man is a man. Per-Another principle of feeding is this, led the production. From the same there is a great d that the health of the animals will seven cows that had given him an brakeman and the depend upon a mixed diet. As you verage of \$10.84 he got \$21:53 per railway company. This man who snow and ice being removed from the know, the component parts of any cow. There is the result of better was selling the cow thought he had



owner of the ball the record of Down in Nova Scotia last year, I dam and grand-dams. Do not by

That brings me to the question of

stance, would not be content with. from \$6 to \$8. In the summer let I give you briefly the argument in He wants his beef and his beer, and the cow have plenty of shade, and favor of this practice? The milk plenty of them. Further than that, see that she is well protected from glands, just like any other organs of some individuals of the same race, flies. I do not think there is any- the body, are developed by being will fatten on the very rations that thing that will cause greater shrink- worked. That stands to reason. others will hardly gain an ounce on. age than those two things, exposure Further, if the entire secretion of There is the fat man and the lean to the hot sun and letting the flies milk is not removed and the glands man, as we call them in plain Eng- worry the animals. Provide pro- are not thoroughly emptied, they are lish. One will fatten no matter tection from the flies in some way not stimulated into renewed activiwhat the food is like, and you might The cows should get plenty of wat- ty. Nature provides in vain and feed the other all you like and he er, and there should be no excitement gradually they will cease to manuwill never put on fat. He is of dif- because that tends to lessen the sup- facture milk producing materials if utilizing and making over for him could possibly make a financial suc- ly there is an exodus, too much of by having your stables well ventilat; ferent temperament. So it is with ply of milk. Give the cows access not stimulated. I want to say right cows. This power to assimilate a to salt. By these means, and by here that this is the best possible ration economically and produce looking after her comfort in every stimulus to increase production, that milk is undoubtedly a variable quan- way that we can, and milking regu- is the complete emptying of the contity in dairy cows. If you have larly and clean, we may maintain the tents of the milk glands. That applies especially to heifers in their have-in connection with the feed- The next item in this big subject first milking season. I mention this ing of the dairy cows at St. Louis of improvement is the use of pure because I have met men two or three last year, you have been struck with bred sires. That is an exceedingly times who told me that they do not the wonderful variation there is in important matter, and I do not believe in having a heifer milk longi different cows. A Jersey cow pro- think that any dairyman should er than five or six months in her duced a pound of butter fat from grudge \$200 for a good bull-for this first' milking season. The milk 2.8 pounds of protein. There was a reason: Suppose a cow is giving 3.- glands in the case of the young stock variation from that amount all the 000 pounds of milk. If you breed are still in the process of developway up to 6.4 pounds of protein re- her to a bull whose dame gave 10,- ment of which they are capable. Now quired by a Shorthorn to produce 000 pounds, you are likely to get it is obvious that careless or ineffecone pound of butter fat-61 pounds, a heifer that will produce 6,000 tive milking will have the opposite

> less milking. When the milk is not thoroughly removed, an inflamed condition often ensues, resulting, if not properly attended to, in the drying up of the affected quarter. That means a double loss, the loss of product, and depreciation in the value of the cow. If you want to study the matter further, it is fully oiscussed in a good bulletin issued by the Pennsylvania Department of Agriculture. Here is the point. dealing with a large number of cows, they found there that the average gain was one pound of milk per cow per day, or 1-10 of a pound of fat. That does not seem to be much, but I want to show you the possibility involved. They found in several cases that after the regular milking was finished, by this so-called manipulation milking, they obtained as high as 51 pounds of milk extra, which is certainly worth getting Five and one-half pounds of milk, are equal to 6-10 of a pound of tat which is considerably above the avrage total daily production of ordinary cows. The greater portion of the gain is from correcting the lack of care in regular milking, from those that are not milked quite clean. But ren with good milkers, there have A thorough system of ailking is the foundation requirekely to maintain the maximum flow



Societ

THE WATCH

on Ba Fenelon F

Home-Succes was visiting f Miss Bessie

Aileen Lytle, Mr. A. Jack iting his aunt some weeks, last week. Mr. C. Curt the Falls last Mr. W. H. for Saskatoon ily. He has western provid ing there in Dr. H. Grah ish Medical C Miss M. Hol the guest of M

Miss Annie

other p

duties in her s on August 20 Mrs. W. Wha ter, Mrs. J. M Puley, Cecil P. W. Griffin, o Brooks, of Bu Rev. W. T. ton, occupied Sunday last, Rev. A. Cooke Mr. Robt. B Peterboro, ha ment in the fle

Falls last we friends in T points. Mr. Frederick erty, of Guelpi at the Falls. Mrs. M. E. Saturday from Fielding, of Co came down fro day to preach

say, on Sunday

Mercersburg, P

Fotel Kawarth

Mr. and Mrs

Meldrum.

Coboconk. Rev. Jas. W and Rev. R. C Fenelon Falls, next Sunday. Messrs Har Robinson, of 7 the Falls in at urday the 18th over Sunday. Mr. Martin 8 treal last wee

couple of days

mother, Mrs. J

guests at Hote al weeks. Mrs. W. A. 1 son, Mrs. M. M. Gerald McCallu day evening in Mr. and Mrs. Mr. and Mrs. Cincinnati, Ohi weeks' stay at out every day and Russell Mc Seasongood pa nesday evening

Dorset. They

other party bac

so that top at other. time of and is control