Marketing of Dairy Products

A Cooperative Experiment that is Succeeding

THE Richmond Farmers' Cooperative Association, of Richmond, Vermont, is an excellent illustration of what dairy farmers can accomplish when they get together cooperatively and decide to have something jo say about the marketing of their own products. Previous to the formation of this co have something to say about the marketing of their own products. Previous to the formation of this co-operative association, farmers were selling their milk individually to the Borden Condensed Milk Company at a price fixed by that company. If these farmers at a price fixed by that company. If these farmers had formed an organization and sent a committee to Boston or New York to try to induce another buyer to come into the territory, that buyer would probably have reasoned that the Richmond district was already occupied by one of the strongest concerns in the United States, and that he would be going to a considerable risk in crecting a shipping plant at considerable risk in erecting a shipping plant at a cost of \$10,000 or so, and in the end, perhaps, receive a small amount of milk. The Richmond farmers realized this and decided to erect a plant of their own. Stock to the amount of \$10,000 was sold to 30 farmers at a par value of \$25 per share, one share being issued for each five cows. The company was been also also been being issued for each five cows. The company was incorporated under the cooperative laws of Vermont, which enabled one person to hold not more than 10 per cent of the capital stock and limits dividends to The plant is equipped to ship milk or m and make butter or cheese.

cream and make putter or cheese.

The Richmond farmers are now in an exceilent position to invite competition in the marketing-of their produce. They know just how much mitk they wild have each month in the year. The mith dealer does not have to erect a plant of his own and he can uoes not have to erect a plant of his own and he can bid for the supply of milk without the additional risk of investing his capital. His bid accordingly will go higher. Buyera, are also asked to bid on the butter and fancy cheese which is turned out in

The plant has not been running long enough to talk at length of its success. Already 40 different buyers from several distant cities have made offers for the from several distant cities have made offers for the output to the plant. Sales are made to the highest bidders wherever they may be located and highest process received. A new interest in dairying has been hold of the community, and an addition is now being built to the creamer, so that the anticipated histories of next summer may be taken care of. Output the summer of the sum

O.P.V. Ensilage for the North The Mainstay of the Livestock Industry By C. E. McDowell.

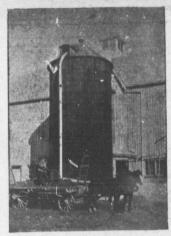
T this time it is likely that nearly all the various At this time it is likely that nearly all the various materials grown for the silo have been cut up reports, I would judge that the silos, as a rule, are filled to overflowing. This is especially true of those cases where corn was grown for enalises. However, we must keep in mind that corn is used to write a consultance extent for this purpose than any other fodder crop.

roader crop. When passing through the western prairie prov-inces, the clay belt of Northern Ontario, and the northern sections of old Ontario, the thought of what the people in those districts could use for anwhat the people in those districts usuable for successful production, constantly came to my mind. These people of the colder districts have a very different story to relate to those of the milder corn-growing sections. If they are compelled to depend entirely upon the production of corn to furnish succulent and abundant feed for their live stock in winter, I am afraid that the live stock industry is bound to build up slowly. They are under a tremendous disadvan-tage compared to their neighbors living in sections

tage compared to their neighbors living in sections where corn can be grown. Surely there is some way of overcoming this disadvantage!

There are many substitutes or corn. Some give fair results, some poor. They have been tried in all our districts. Corn has been trie! everywhere from our sorthern boundaries to the far acotth. We know it is a failure in the colder districts. As i rode along and observed the attention of the section of th and observed the attempts at growing corn where corn never was intended to be grown, I thought of what a boon some good substitue would be to this

To my mind there is only one good substitute so far known. That is a mixture of oats, peas and vetch. I observed this mixture growing two years in aucodesion in a borthern district of New Ontario. Moreover, these two seasons were very unfavorable for the production of any crop. If this mixture can be grown aucoessfully as far north as Cochrane, surely it can be grown almost anywhere. These experiments under actual field conditions and on a large scale, have convinced me that a mixture of succession in a northern district of New Ontario.



Filling the Silo at Monteith. This 108-ton sile is being filled with 0, P. V. is it is the fourth time the sile at the Montei mental Station, New Ontario, has been mental to the silage mixture will be the maintage of the live sto Industry in the north.

oats, peas and vetch is an excellent substitute for the code sections where corn cannot be grown successfully. Moreover, I am not so sure but that in many cases, it would give better results than corn, even in the counties where corn is grown.

in the counties where corn is grown.

It is true that corn makes excellent silage and where handled well gives heavy yields. I do not want to give the impression that I am running down corn and boosting O. P. V. mixture. What I do want to impart is an idea of the value of this mixture for northern sections. I have seen corn growing in the Winnipeg district. True, some fields were very good, but alsa, more were not. On the best, the grain on the cobe were mere bilsters. I have also observed ensilage corn growing in the northern the grain on the cods were here blisters. I have also observed enslage corn growing in the northern districts of old Ontario and found that excepting on an odd field, it was poor. I feel quite safe in saying that had the same fields been sown to O. P. V.,

saying that had the same fields been sown to O. P. V. the results would have warranted the vecture. The quantity of silage would have been bettere. The quantity would have far exceeded the silage would have been bettered to be suffered to the silage with the silage of the solid has to be rich and in good to be suffered to the solid has to be rich and in good to handle at harvest time. This is not so much the case with O. P. V. There is no after cultivation or beeting. The land does not need to be any richer, or better cultivated than does land for corn. At harvest time it is not so hard to handle. It is cut with the grain binder and tied into small sheaves. For the last three years the Ontario Government's

cut with the grain binder and tred into small successor. For the last three years the Ontario, has been sowing farm at Monteith, New Ontario, has been sowing this mixture with splendid results. In that district, of course, it is impossible to grow corn. As the clay belt is better suited for stock raising than any other line of farming, the desire arose to substitute some fodder crop for corn in order that the stock industry fooder crop for corn in order that the about insularly might be assured of success. Although clovers grow inxuriantly, they are not considered a suitable substitute for corn ensilage. Consequently in 1915 a start was made in producing a mixture of 0. P. V. for the silo. Since then this mixture has been pre-

for the eilo. Since then this mixture has been produced with good results each year.

As stated before, the land for O. P. V. need not be richer or better worked than for corn. At Mondeth each year the land is plowed in the fall. One year it was manured in the fall, the manure being spread on the plowed land. In other years the manure was applied in the spring and worked in. Spring culdivation consisted of disking and harrowing the land vation consisted of disking and harrowing the land vation consisted of disking and harrowing the land until it was in good tith, and seeded in the ordinary manner with the grain drill. The seeding dates each year varied considerably. In 1917 this crop was not sown until June 6, while the year previous it was sown about May 10th. Last spring it was about May 20th. The difference in the time of seeding, however, did not seen to affect the quality or yield

In 1917 the farm management endeavored to select in 1917 the farm management endeavored to seeker strong growing cats and peas, suitable to that clim-ate. One-half of the field was seeded with O. A. C. No. 72 cats, the other half seeded with Abundance. Prince Albert peas and common yetch were used

over the entire field. The mixture that was used was made up of two and one-half bushels was made up or two and one-half bushels of osta-three-quarters of a bushel of peas and one-half bushel of common vetch. These grains were mixed together and sown with the grain drill at the rate of three ane one-half bushels per acre. The season was bad, but the grain germinated very well and produced a fairly oven stand

The cron was cut when the oats were in the firm dough stage. At that time the peas and vetch were in a fair state of maturity. It was cut with the grain binder and tied into small sheaves. When ready to put into the silo the sheaves were picked off the ground, loaded on to the w gons and taken to the ground, loaded on to the w gons and taken to the sito. Special care was taken to cut it fine and got it well tramped into the sito. The previous year some difficulty was experienced in getting the en-altage to keep. Some of it spoiled. I attribute this directly to the fact that the sito was a rough stave sito, and very open at all the joints. Last whiter this trouble was not experienced as the enslage went that a good sito.

into a good silo

I cannot say that cattle like O. P. V. silage any I cannot say that cattle like O. P. V. silage any better than they do corn, but I can say that they like it as well. The advantage in feeding value compared with corn is in favor of the O. P. V. mixture. According to analysis, O. P. V. contains a little more dry matter than corn, while the food elements balance each other fairly closely. The yield of green matter for the past three years at Mouteith, averaged matter for the past three years at anothern, averaged about 10 tons per acre. How many growers of corn, even in the corn sections, get much more than 10 tons per acre? It is true that many get 15 to 20 tons per acre? tons per acre? It is true that many get 15 to 29 tons, but in getting it the grower has the extra work of summer cultivation, which is considerable. I am convinced that the O. P. V. mixture is the cheapest ensuling feed to be grown in the districts where good rank, well-cared corn cannot be grown it will do much to solve the problem of the stock raisers of the north,

Tuberculin Test and Milk Yield Does Testing Reduce the Flow

J. J. Hooper, Kentucky Experiment Station

A GREAT many dairymen would test their corn for their own information if for no other reson if they were certain it would not materially reduce the milk flow. Some believe it very detrimental. There need be no hesitancy, because experience shows that when the cows are tested under ence shows that when the cows are tested under natural conditions the milk flow is not materially affected. When the cow is taken away from her mates, put into a hot, badly ventilated stable and tested, she does usually decrease in milk productor, but it is due to the treatment and not the test.

To determine if the tuberculosis test really reduces the milk flow, we tabulated the milk produced by ten cows before and after the test was made on the Kentucky Experiment Station herd last February Rentucky Experiment Station nerd last reordary. The accompanying table shows the results. The ten cows were giving on an average 21.45 lbs. of milk daily (for three days preceding and succeeding the tuberculin test), and on the two days of test they averaged 20.98 lbs. There was an inappreciable decrease of 2.24 per cent on the two days that they were tested. No one need have any fear of unfortunate effects from the test.

counte oncos non	4 644	2 1001					
Pebruary,	10th	11th	12th	13th	14th	15th	16th
Baronetti's Countess Countess Baronetti. Raleigh's Countess Belle Holstein Hebro.i's Betty Aggie Betsy Cornucopia Dora Cornucopia Aggie.	12.7 26.6 30.6 17.0 13.2 30.6	26 3 19.7 18.1 12.3 31.1	14.1 25.3 30.0 18.0 12.0 32.9	25.5 20.0 17.6 12.1 28.9	11.4 24.0 30.0 18.1 12.0 28.5	30.0	12.6 24.7 31.1 17.2 10.1 32.4
Dora Olin 2nd	20.3	15.9 19.5 29.8	16.0 19.1 29.5		14.9 17.0 26.6		17.1
			-	-	-	-	

Total fbs, milk.... 220.6 210.6 221.0 210.8 208.8 200 7 210.9 Average fbs, per cow. 22.06 21.06 22.10 21.08 20.88 20.97 21.09 The test began at noon of February 13, the tuber-

culin was injected at 8 p.m., and on February 14 the temperatures were taken until 4 p.m. The average daily milk production for three days preceding and two days succeeding the tuberculia

test was 21.45 lbs., and on the two days of the test 20.98 lbs.

Decrease, .47 lbs. or 2.24 per cent.

It is better to have the heavy flow of milk in wis-ter, when prices are higher and help more plentiful. Cows in November and December get on grass just when there is a tendency to a falling-off in the milk flow. The change to fresh pasture stimulates the secretion of milk and it is like a second freshening. Autumn calving is better for the cow and the Autumn calving is better for the cow and secalf. They receive better care and are not so etposed to extremes of weather. It must be remembered that a cow must not be neglected when dr. That is the building-up period, and she should ge plenty of good food and be in a vigorous condition at freshening time.—The Dairy.

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During th again visit closely, it was evidently ha pecta for a phad been ra lain on part practically d