

## Manitoba's Dairy Train

Prof. J. W. Mitchell, Winnipeg. Having in view the furthering of scientific and practical dairy husbandry in the province of Manitoba, the Manitoba Agricultural College has made arrangements to run, each year, special dairy cars to different sections of the province. Two cars are employed in this work. One, a refrigerator car, is supplied with ice and is used for storing the milk and butter. The other, a passenger coach, fitted with separators, churns, butter workers, and all other appliances necessary in an up-to-date farm dairy, is used as a lecture and demonstration room.

The writer, as head of the dairy department at the Manitoba Agricultural College, was in charge of the cars, and had with him a staff of competent lecturers and demonstrators. Demonstrations were given in the use of the hand separators, butter making, and milk testing. Lectures were delivered dealing with such live topics as the selection, breeding, care, and management of dairy stock, the growing and harvesting of fodder crops suitable for dairy purposes, and the care and handling of milk and cream.

## A STRONG STAFF.

Professor Peters, head of the Animal Husbandry Department of the College, who accompanied Professor Mitchell, gave demonstrations in the judging of dairy animals, and spoke on the proper methods of stabling this class of animals. Others who rendered valuable assistance were W. J. Crowe, instructor in butter making; M. A. C. E. H. Farrell, instructor in charge of milk-testing; and Cow-testing Association work; A. E. Gibson, chief dairy inspector for the City of Winnipeg; M. Sharman, of the "Northwest Farmer"; and Prof. Brodick, head of the Horticultural Department Manitoba Agricultural College.

The dairy special, thus equipped, left Winnipeg on Monday, June 13th, and was out until Saturday, July 2nd. During that time it toured the entire southern part of the province, covering approximately 650 miles. Meetings were held at all the important points on the railways in that section of the province. In all, about 35 meetings were held.

## A GREAT SUCCESS.

At all meetings held, great interest has been manifested. The seating capacity of the demonstration car has been taxed to the utmost, and it was



A MANITOBA AGRICULTURAL COLLEGE DAI

## The Manitoba Dairy Special at Cartwright

This illustration gives an idea of the interest which the special dairy train sent out by the Manitoba Government, has created among the people of the prairie provinces. Some people drove many miles to attend the meetings held. This photo was taken at Cartwright, Man.

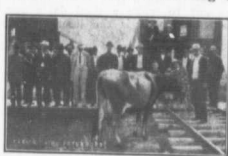
necessary to provide additional accommodation at almost every meeting. A noticeable feature is the large number of ladies who attended these meetings. Many of these ladies, notwithstanding the intense heat of the past weeks, had driven 10 to 15 miles to be present.

All points on the route where there are agricultural societies, the meetings were held under their auspices, and the support of these societies is contributing largely to the success of the undertaking. The Canadian Pacific and Canadian Northern Railways, by providing free transportation and assisting in advertising and planning the tours, have made pos-

sible this campaign in the interests of scientific agriculture. Principal Black, of the Agricultural College, is well pleased with the undertaking, and speaks of it as the most successful series of meetings ever conducted by the College.

## The Traction Ditcher in Nova Scotia

Prof. M. Cumming, Principal Nova Scotia Agricultural College. The new traction ditcher recently purchased by the Nova Scotia Government is attracting great interest in that province. This ditcher is already a proven success, and is stimulating a marked interest in draining. The management are not endeavoring to



## Dairy Cow Demonstration

An interesting feature of work carried on by the Manitoba Trailing Dairy, was the practical demonstration of the points to be desired in the conformation of a dairy cow. These demonstrations were given by Prof. Peters, of the M. A. C. This photo was taken at Pilot Mound.

make the machine a financial success. 20 cents per rod for digging and grading drains from three to four feet deep is the charge made.

An effort is being made to place the machine in several parts of the province during the year. Nowhere in Canada is drainage more needed than in the farms of Nova Scotia, and if this machine arouses as much interest in the next few years as in the operation as it has during the past few weeks it will repay its cost many times over.

## A Water Trough That Will Not Leak or Rot

Peter De Linde, Zion City, Ill. To make a water trough that will not leak, nor rot, take pine planks and make a trough three feet long, one foot deep and one foot wide, outside measure. Now, make another trough three feet four inches long, one foot four inches wide, and one foot two inches deep.

Put the small trough, upside down in the large one, being very careful to have just two inches of space all around it. Fill in the space with mortar composed of one part cement to three parts clean, coarse sand, stamping it firmly together. Fill in the trough even with top and beat it firm and smooth with a flat stick. Then cover it with carpet or sacks, and leave standing a day. Then turn mold upside down and remove the large trough. Take the small box out of the cast water trough. Place it in the shade sprinkle it daily for three weeks and it will be ready for use.

Troughs for pigsties, for the poultry house, for the horse and cow stables can be made in the same manner.—"Cement."

The Roughage for Calves should first be fed at two or three weeks of age when the calf begins to eat grain. Good clean hay, either timothy, blue grass, clover or alfalfa may be used. Corn silage is an excellent calf feed when fed in moderate amounts. Good pasture is an essential after four to six months of age, and if the calf is turned out for only a few hours each day at first, scours will be avoided.—D. H. Otis, Madison, Wis.

## Our Veterinary Adviser

SWEENEY.—Horse was sweened two years ago. He got well for a time, but now goes lame again.—M. McAl, Oxford Co., Ont.

Treatment for sweency is tedious. If you are sure this is the cause of lameness, you should give him rest, and blister the muscles of the shoulder blade once monthly until they grow to their normal size. Mix four drams each of biniodide of mercury and cantharides with two ounces of vaseline. Clip the hair off and rub the blister in. Tie so that he cannot, bite the parts. In 24 hours rub well again with the blister, and 24 hours later apply sweet oil. Turn loose in box stall or on grass, and oil every day. Repeat monthly as long as necessary. I would advise you to consult a veterinarian, as it is seldom that sweency causes lameness. I am of the opinion that the trouble is in the foot, and if so the coronet instead of the shoulder should be blistered.

MILK FEVER.—What is the most approved treatment for milk fever? Is it safe to use the bicycle pump under ordinary farm conditions?—E. C. Hastings Co., Ont.

The most approved treatment is to disinfect the udder and teats with a warm five per cent. solution of creolin. Then milk dry. With a special apparatus fill each quarter with oxygen gas. This requires a tank of compressed oxygen. A rubber tube with a teat siphon at one end is attached to the tank. The siphon is disinfected, then inserted into the milk duct, and the oxygen turned on, and allowed to pass until the quarter is full. All quarters are filled. The udder is then massaged every 15 minutes until the cow rises. She should not then be milked for 24 hours, and after that only a little at a time for 24 hours longer. Then milk at the ordinary intervals.

The next best treatment is the use of etherized air, which also requires

a special apparatus. The immediate results of a bicycle pump are the same as the others, but on account of the danger of introducing septic matter into the udder there is much greater danger of udder complications following.

Exhibitions stimulate greater interest in stock, and whether the prize be large or small, they should make little difference; the prize itself is of comparative insignificance. The real value lies in the extra investment, the farmer's increased interest in that investment and his increased interest in himself and his own education.—H. Barton, B. S. A., Macdonald College, Quebec.

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