

CO-OPERATION IN HOG-FEEDING

One Man Handles Five Hundred Hogs at a Time.

WHY AND HOW FORM THE FEED.

Manure Applied in Liquid Form to Land on Which Piggery Stands.

(Toronto Globe)

Down in Hastings county there is a combination of cheese factory and piggery.

The cheese factory known as Zion Hill is located by the roadside. At a lower level, and some distance away is the piggery. Whey flows from the factory through metal pipes to a number of long troughs placed in the aisles of the piggery. Facing these aisles are a number of pens, of varying sizes, in which hogs, also of varying sizes, are fed during the cheese season. In boxes above the feeding troughs, a supply of mixed chop is kept on hand, and the chop and whey furnish the feed with which the hogs are regularly supplied.

The piggery was erected eleven years ago. It is 80 x 80 and it cost at the time of erection about \$4 per foot of pen room. Each patron of the cheese factory who wished to make use of it was assessed at the time of its erection with his share of the cost of construction, his share depending on the amount of floor space required. Some of the patrons have one small pen, some have a larger pen, and some few have two pens each.

At the beginning of the cheese season those who have pen allotments bring to the piggery such hogs as they have available for feeding, or for which they have room in the pens. Each patron is entitled to 90 pounds of whey for each hundred pounds of milk he brings in, and that allowance he can have fed to his pigs in the piggery, or he can haul it home for use on his own farm, as desired.

The meal required for feeding is brought to the piggery by the owners of the pigs, each patron supplying his own meal for his own pigs.

Mr. John W. Bremner, who has been feeding hogs for about a third of a century, looks after both the feeding and the cleaning of the pens, the owners of the pigs paying for his services according to the number of pigs they have under his care. Mr. Bremner, although 79 years of age, is as active as many men a score of years younger, and he does his work well. At the time of my visit there was not an unthrifty-looking hog in the pens, and there was less "pig-odor" about the place, although there were 500 hogs in the pens, than would be observed from a dozen hogs in an ordinary piggery. The absence of odor is partly due to the excellent system of ventilation, and partly due to the conveniences for cleaning, but mainly to the faithful work of Mr. Bremner.

The piggery is of two wings, with a long tank extending the full length between them. The passages between the pens all have a slight slope to wards this tank and the manure, mainly in liquid form (no bedding is allowed) is swept into the long tank once a day. The tank itself being emptied once a week. The floors and troughs are all of cement, thus making flushing easy.

Methods of Feeding.

The pigs are taken in at any age from six weeks up. For the first three or four months they are given shorts or oats ground very fine, with the whey. After that they are usually fed a chop of barley and rye or barley, wheat and rye. They are finished in six months and at that time run from 200 to 250 pounds.

"Frequently," said Mr. Bremner, "I have got the hogs up to 250 pounds in six months. I had a lot of seven that averaged this weight the other day."

Asked as to the weight at which feeding gives the best results, Mr. Bremner said that up to 200 pounds gains are made quickly, but from 200 to 250 pounds the hogs seem to drag.

Manner of Selling.

When a lot of hogs are ready for market Mr. Bremner notifies the owner and the latter arranges with a drover for their sale and provides for their removal to shipping point.

It seems somewhat remarkable, with co-operation carried so far, co-operation in providing the whey, in housing and in attendance, that the same principle is not extended a little farther by the marketing of the hogs in a co-operative way as well. This seems all the more remarkable in view of the fact that only a few miles off a group of farmers, who feed their hogs in the ordinary way, are marketing their output co-operatively, and with marked advantage in the financial results obtained.

Profitable Thing for One Farmer.

The piggery stands on ground leased from a neighboring farmer. When the arrangement was made for the

erection of the building, it was provided that the owner of the land should be allowed to take the manure produced by the pigs for his rent. The owner of the land has a wagon with a tank on top. He drives this wagon into a depression in front of a spout in the end of the tank containing the liquid manure. A tap is opened and the manure pours into the tank on the wagon. The load is then hauled to the field on which the liquid is to be applied, the board of the rear of the tank is raised a trifle with a lever, the tank is driven ahead, and the fertility is sprayed out on the land like the water from a city street sprinkler. Twenty-four to thirty loads are produced each week, and a single team will haul this quantity away and apply it to the land in three or four hours.

The arrangement has been an exceedingly profitable one for the man who gets the manure on such easy terms. The consensus of opinion in the neighborhood appears to be that in the eleven years the present arrangement has been in force the land on which the liquid is applied has been quadrupled in value.

The Advantages.

The advantage to the owners of the hogs are self-evident. The labor of carrying the whey from point of production to the stomachs of the hogs is reduced to the minimum; the cost of feeding operations generally, where these are carried on upon so large a scale, is also at the minimum for each hog fed; the least possible amount of labor is expended on the work of cleaning the pens. Finally all the hog owners have the benefit of the highest skill, based on long experience in the feeding carried out by a man possessed of a Scottish sense of duty. It is doubtful if the best farm feeder in the neighborhood would make the gains on hogs that Mr. Bremner makes for him. The gains made are certainly a long way above the results obtained in average of farm feeding. Moreover, all the labor and worry attendant upon caring for the hogs are removed from the farm at the season of the year when dairy farmers have to get up before five in the morning and keep on going until darkness sets in.

Some Advantages.

These are the advantages. But there are disadvantages that are equally obvious. All the fertility taken from the farms in the form of milk, and all the fertility removed from the farms in the grain used in feeding, is lost to the farmers who combine in this co-operative hog-feeding enterprise. At the present time there is a good profit in hogs, no matter how they are handled. But how will it be when prices drop to the level of a few years ago? In years past, about all the profit there was in hog feeding, or feeding stock of any kind was in the enrichment of land by the manure produced.

That profit is lost under the plan followed at Zion Hill.

.... Meets With Popular Favor.

The plan followed appears, however, to meet popular favor. There is a constant clamor for more space in the pens than there is available. Whenever a farm is sold in the neighborhood, the usual thing is for the owner's rights in the combination piggery to be sold with the place, and the price obtained for these rights is usually double what was paid for them in the first place.

In this connection an interesting story told by Mr. Bremner may be repeated. "Some 30 years ago," he said, "the whey from the factory in this neighborhood was allowed to run into a nearby ravine. It was considered simply an encumbrance to be got rid of. Then two men arranged to take the whey for feeding hogs, and engaged me to do the feeding. They paid no more for the whey than that it costs now to haul whey from the factory to the owner's farm."

Will the estimate of the value of manure increase in the next 30 years as the estimate of the food value of whey has gone up in the last 30? AHMK.

EXCURSION SEASON OPENS ON THE GREAT LAKES.

All indications point to a banner year for pleasure and tourist travel on the Great Lakes. Even now the travel is unprecedented, and the C. & B. Line has taken quick action to care for this increased patronage by placing the Great Ship "Seandeb" on the route between Cleveland and Buffalo much earlier than in previous years.

The Great Ship "Seandeb" is the largest and most costly passenger steamer on inland waters of the world and, with her sister ships, the "City of Erie" and "City of Buffalo" provides daily service that is high classed in all features. Steamers leave either city every evening at 9.00 and arrive at destination at 7.30 the next morning (all Eastern time).

Railroad tickets reading between Cleveland and Buffalo are accepted for transportation on all C. & B. Line steamers, thus giving the traveller an opportunity to break the monotony

THE JOY OF MOTHERHOOD

Words of Encouragement to Childless Women.

Motherhood is woman's natural destiny, but many women are denied the happiness of children simply because of some curable derangement.

Among the many triumphs of Lydia E. Pinkham's Vegetable Compound is its marvelous power to overcome such derangements, as evidenced by the following letter:

Worcester, Mass.—"I suffered from female ills, and was advised to have an operation, but a friend who had taken Lydia E. Pinkham's Vegetable Compound and who has six children, told me to try it. It has helped me so much that I am now well and have a baby who is the picture of health, and I thank the vegetable compound for my restoration to health."

—Mrs. BERT GARVEY, 20 Hacker St., Worcester, Mass.

In many other homes, once childless, there are now children because of the fact that Lydia E. Pinkham's Vegetable Compound makes women normal, healthy and strong.

Write to the Lydia E. Pinkham Medicine Co., Lynn, Mass., for advice—it will be confidential.

of his rail journey by a refreshing night's trip across Lake Erie on a veritable floating hotel.

The fares for this lake trip are considerably less than by rail.

YOUNG PEOPLE BEHAVE ON THE STREETS!

Rentrow does not get such an increase of population as has come to it within the past year without some problems accompanying it. One of these is the young man who has been accustomed to greater freedom of action on the streets that has been customary here, and of a different attitude to young women. That has led to some "situations." At the Council on Monday night the mayor reported that four young men—"Americans" he named them—had called upon him to ask if the chief could take them by shoulders and shove them. The mayor had advised them that the chief probably wanted to keep the streets clear of blockades. The advice was kindly given and sensibly taken by the young men. But others, The Mercury has been told, have been far from sensible. They have been unwarrantably accosting young ladies on the streets; not the flaunting type of girls either, of the kind who might be thought to invite freedom of action and speech, but modest young girls, whose demeanor should protect them from insult or undue familiarity. If the evidence can be gathered that will permit prosecution, an example or two should be made that will give a warning that will tend to protect young ladies from any approaches of the sort.—Rentrow Mercury.

WOUNDED AT THE FRONT.

Mr. Geo. Winters of Bronson received a telegram on Friday that his son George, who went overseas with the 59th Battalion, had been wounded. He is only about sixteen years of age, but was determined to get to the front. He was wounded on May 29. Mr. and Mrs. Winters have another son fighting in Belgium. Another message was received here the same day that Walter Leundry, formerly of this village, who enlisted at Calgary, had also been wounded. Both boys were former employees of this office.—Bancroft Times.

HENS EXERT THEMSELVES.

Seeing an account in last week's Courier of the record number of eggs laid for six months, December to May, by P. S. D. Harding's ten Barred Rocks, Howden Day of Drummond says it was a good one, but his pullets did a little better, and they certainly did. In last week's account ten Barred Rock pullets laid a total of 1092 eggs inside of six months, an average of a hundred a month. Howden Day has six White Wyandotte pullets which laid during the months of March, April and May, 359 eggs, an average of a little over 119 eggs per month and an average of 59 eggs for each pullet. Three weeks of this time one of the six pullets was setting and on May 6th when only five of the pullets were laying, six eggs were laid in the one day, one pullet having laid two eggs during the day. The record for the three months was March, 134 eggs; April 124, and May 101.—Porth Courier.

MASSACHUSETTA NEWS.

The John Street Church spent Wednesday afternoon and evening at the Park enjoying themselves with games of all kinds and dancing.

Mrs. Carroll and party spent Thursday at the Park.

The black bass are biting fine now and a good time may be looked for.

PHYLLIS OF THE TRENCHES

By Rev. O. E. Mann.

One of the most romantic and pleasing stories the war has produced, is that of Phyllis, a little girl who was rescued from death and afterwards went through circumstances particularly strange. Probably as long as she lives Phyllis will want to keep the name given to her by her rescuers, the name of Phyllis Trenches.

Phyllis is described in the Calgary Herald as a bright blue-eyed flaxen-haired baby girl of four years of age and she lives today in Bedford, England. Phyllis is now the pride and joy of the Bedfordshire Regiment, and the story of her rescue will ever remain fresh to its members. One day, while marching through a desolate and unromantic region of northern France, several members of the Bedfordshire Regiment espied what appeared to be a little human form lying in a ditch by the roadside.

One of the soldiers, Private Phillip Impy by name, stepped out of the ranks and picked up the little ill-clad inanimate form, and, father like, gathered her into his arms.

It is not known from whence the little girl came, nor how she happened to be left all alone by the roadside; perhaps it never will be known. In a few moments it was made clear to Private Impy that he must make up his mind either to leave the poor, helpless little creature by the roadside, or take her with him into the trenches; so she went along.

Of course, she must have a name; by common consent it was decided to call her Phyllis Trenches. Within three days after arriving in the trenches Phyllis had recovered from the effects of her exposure, and had become the pet of the company.

When the little girl was first discovered, her clothing was very scanty indeed. Very soon, however, she appeared warmly, if not artistically, clothed, and at the same time it was noticed that several uniforms had lost their shape. Phyllis was warmly clothed out of pieces of cloth torn from the men's garments and fashioned to fit the little body.

There was not a soldier in all the company who would not lay down his life for the little wail; consequently they did all they possibly could to make her happy while she shared the dangerous trench life with them.

The German trenches were only 150 yards away. One day little Phyllis was missing. Wherever could she have gone? Soon, shouts from the enemy trench drew their attention, and very guardedly they peeped to discover what was the matter. To their surprise and dismay there was Phyllis toddling along in the space between the trenches called "No Man's Land," and she was going towards the German trenches. At once all along the line, a hundred Bedford men were ready to lay down their lives to rescue Phyllis.

Two men, quicker than the rest, leaped over the parapet and rushed forth to rescue her. The Germans, however, were humane enough not to fire, and little Phyllis was escorted back to her trench home in safety.

Several times after that, Phyllis ventured over the parapet, but no German would harm her. Possibly many of them had left a little Phyllis of their own at home, away back in the fatherland.

For eight days Phyllis lived in her trench home, as happy as a queen. Sad to say, on the seventh day, Phillip Impy, her rescuer, and foster parent, died from the effects of a bullet wound; and the company quartermaster-sergeant offered to become responsible for the child.

When the men were relieved from their dangerous trench duties, Phyllis was taken to a billet, and was not allowed to share trench life again.

The company storeman, who had children of his own, took care of her for the quartermaster-sergeant. Six months later the sergeant was wounded, and was sent to a hospital in England. Phyllis was not forgotten there she became the idol of the nurses and patients.

At length the sergeant was sent home to recuperate, and Phyllis went with him. Phyllis now has a comfortable home, and is well cared for.

THE SCHOOL OF COOKERY.

Delicious "Sea Pie" Was Made—Italian-French Method Was Followed.

The class of the school of cookery had dinner cooked in their mess tent at Barrielfield on Wednesday. Sergt.-Major Kerrison, W.O., who is in charge of the instructional work of the school, assisted by Staff-Sergt. Rolfe, had the work done in this way to show the men that under all conditions of service it is possible for a soldier to cook and eat his dinner even in the absence of field kitchens or camp stoves. The Italian trench

method was used on Wednesday.

On the side of a little mound small trenches—some ten or twelve inches long and five or six inches deep were dug with a two inch layer of earth left to support the mess tins. The fire is built in the excavated channel and the heat circulating around the mess tin cooks a very delicious "sea pie."

The school of cookery has one of the best exhibits at Barrielfield camp. It is situated near the 93rd Battalion lines, and is very neatly looked after. The various types of ovens and stoves that may be used on active service are used for the instruction of the men.

PROVINCIAL NOTES.

Several Changes.

Mr. G. W. Ecclestone of Bracebridge has been elected by acclamation for the provincial constituency of Muskoka, following the death of Mr. S. H. Armstrong, former member. The Liberals did not offer any opposition.

There are also vacancies in the provincial constituencies of North Perth and South West Toronto; in the former owing to the retirement of James Torrance, M.P.P., to become Collector of Customs for the City of Stratford, and in the second case owing to the death of Hon. J. J. Foy, former Attorney General and lately Minister without portfolio in the Conservative Government.

It is not yet definitely arranged whether or not Liberals will contest these seats.

Farmers of West Durham.

An excellent farmers' meeting at which live problems of interest to the agriculturists of the province were discussed, was held at Bowmanville in connection with the Liberal Convention for the provincial constituency of West Durham. William John Bragg, farmer of Darlington Township was chosen as the candidate for the next provincial election.

G. A. Gillespie, M.P.P., of West Peterborough and Nelson Parliament M.P.P., of Prince Edward County, both of whom are farmers were the leading speakers. Patriotism was the keynote of both their addresses—patriotism both in connection with the war and the duties of Canadian citizens at home, especially in the farming industry. Mr. Parliament emphasized the need of more specialized agriculture of education, co-operation, tile draining and rural credits. Mr. Gillespie devoted his attention largely to the dairying branch of farming, and emphasized the aggressive agricultural policy of the Liberal Party, as promulgated in resolutions in the Legislature the last two sessions.

Partisan politics were not discussed.

HEALTHY BABIES SLEEP WELL AT NIGHT.

A well-chilled sleeps well and during his waking hours is never or is but always happy and laughing. It is only the sickly child that is cross and peevish. Mothers, if your children do not sleep well; if they are cross and cry a great deal give them Baby's Own Tablets and they will soon be well and happy again. Concerning the Tablets Mrs. Chas. Dlotte, North Temiscaming, Que., writes: "My baby was greatly troubled with constipation and cried night and day. I began giving her Baby's Own Tablets and now she is fat and healthy and sleeps well at night." The Tablets are sold by medicine dealers or by mail at 25 cents a box, from The Dr. Williams' Medicine Co., Brockville, Ont.

MILITARY NOTES.

There are several schools of instruction in operation in Barrielfield camp this summer, and the good work being done by schools is a compliment to the ability and energy of Lieut.-Col. Thompson, G.S.O., and Lieut.-Col. Brown, G.S.O. Both these officers are crowding instructional work into every hour of the day, so that a soldier's life is busier than it ever was in the most strenuous days of even the Imperial service.

The infantry school of instruction is under the command of Lieut.-Col. Darragar, assisted by Capt. Wether- spoon. This school has about 90 attendants, and the commandant is a firm believer in military education. The attendants are called probationers and are wearing the scarlet and blue uniform of peace days.

The School of Military Cookery is under the direction of the A.D.T.S., and is being conducted by Sergt.-Major Kerrison, of the R.M.C., assisted by Sergt.-Major Rolfe and Staff-Sergt. Brown. This school is engaged in preparing cooks for the various battalions, and has on exhibition for instructional purposes, 15 different systems to cover everything from the preparation of a meal in the soldier's tin canteen to the expensive field kitchen.

The Machine Gun School is in charge of Lieut. McGie, of the 15th Battalion, a most capable instructor and one that has had extensive ex-

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Though your salary or income will no doubt increase, so will your expenses—and many find that the latter more than keep pace with the former. Now is the time to start a Reserve Fund—and the Savings Department of the Union Bank of Canada is the place to keep it.

Deposit the extra you have on hand now—you can open an account with any sum, down to one dollar—and draw interest on it.

Belleville Branch J. G. Moffat, Manager
Picton Branch C. B. Beamish, Manager.

perience in machine gun work at the front. There are 19 non-coms, taking this course from the various battalions now in camp.

The School of Signalling is under the direction of Major Mundell, assisted by Lieut. Munis, with Sergts. Reid, Redden and Hicks as instructors. This school has 90 men in the junior class, and 150 in the advanced class. There is also a special class in wireless telegraphy.

The School of Physical Drill and Bayonet Fighting is in charge of Lieut. Bews, late of Queen's gymnasium. This school has about 400 officers and non-coms. in attendance and the course is a hard and strenuous one.

The bomb-throwing school has not yet been started, but it is expected that it will be going in a few days.

Piles Cured at Home by New Absorption Method.

If you suffer from bleeding, itching, blind or protruding Piles send me your address, and I will tell you how to cure yourself at home by the new absorption treatment; and will also send some of this home treatment free for trial, with references from your own locality if requested. Immediate relief and permanent cure assured. Send no money but tell others of this offer. Write today to Mrs. M. Summers, box P87 Windsor, Ont.

WHEAT BELOW THE DOLLAR.

On Friday Chicago July wheat ranged between 103 1-8 and 101 1-2. The July option touched 105 3-8 high and a low of 102 5-8. Is it likely to go still lower? Will we see wheat, in the face of a world-wide war, selling below the dollar? Let every man answer for himself, but here are a few facts from which to draw his conclusion:

There has been no lack of effort to chase prices up hill. There has been plenty to work with late season, Winter kill, green bug, Hessian fly, drought in some parts and excessive rains in others, with the net results confirmed by adverse Federal and State crop reports. The indicated crop is 350,000,000 bushels less than last year, while Canada is booked for a twenty-five per cent. decrease from 1915. Yet with all this bullish ammunition to work with, efforts to advance prices have been more difficult than

climbing a greased pole. There is good reason for this. The crop and reserve of last year amounted to 1,066,000,000 bushels. Domestic requirements for the year are about 820,000,000 bushels. In the eleven months since the first of July 237,000,000 bushels have been exported. The shipments in the first two weeks of June justify an estimate of 10,000,000 bushels for the month's exports. Deducting exports and home consumption from the total supply would leave a surplus of 260,000,000 bushels on hand July 1st. Last year the surplus was 55,000,000 bushels.

When Canada finishes its crop year September 1st, it will have at the least 60,000,000 bushels of old wheat on hand. On the first of April it had 196,000,000. All the exporting countries held large surpluses. Importing countries are accumulating large reserves; amounts on ocean passage are large. There is no question of scarcity in the near future.

The market has not been able to advance under the pressure of adverse damage reports. When new wheat begins to move it will come to an overburdened market not eager to welcome it. Such conditions do not make for advancing prices, especially in the near options.—Wall Street Journal.

Pills That Have Benefited Thousands.

—Known far and near as a sure remedy in the treatment of indigestion, and all derangements of the stomach, liver and kidneys, Parmentier's Vegetable Pills have brought relief to thousands when other specifics have failed. Innumerable testimonials can be produced to establish the truth of this assertion. Once tried they will be found superior to all other pills in the treatment of the ailments for which they are prescribed.

There are 18 taking the wireless course under Sergt. Hicks. The course is a most complete one, and covers every detail of wireless work for military purposes.

Public Opinion Indorses

this family remedy by making its sale larger than that of any other medicine in the world. The experience of generations has proved its great value in the treatment of indigestion, biliousness, headache and constipation.

BEECHAM'S PILLS

relieve these troubles and prevent them from becoming serious ills by promptly clearing wastes and poisons out of the digestive system. They strengthen the stomach, stimulate the liver and regulate the bowels. Mild and harmless. A proven family remedy, unequalled

For Digestive Troubles

Prepared only by Thomas Beecham, St. Helens, Lancashire, England.
Sold everywhere in Canada and U. S. America. In boxes, 25 cents.

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