

VOL. XXVIII

NUMBER 33

RURALHOME

PETERBORO, ONT.

AUGUST 19 1909



A HARVEST SCENE THAT DEPICTS THE PROSPERITY OF THE PROGRESSIVE ON TARIO FARMER.

Good crops do not come by chance. They are rather the reward of careful management. Well drained, well cultivated, and well fertilized fields rarely fail to return an abundant harvest. It is true that crops are affected by the season even under such conditions, though to a much less extent than they are on farms poorly managed, where the farming practised savors more of - taking from the soil and returning nothing. The photo reproduced above shows a field of oats being harvested on Mr. John Jackson's farm in Lincoln County, Ont. The crop of rape, clear-

ly discernible among the stubble, will provide a lot of fall feed for the cattle

DEVOTED TO BETTER FARMING AND SANADIAN GOUNTRY LIFE

BOWL SPINDLES

This is one of the most important parts of the Separator, and is a part that has, perhaps, given more trouble than any other. Any slight accident to the spindle generally disables the entire bowl, throwing it out of balance and making it run rough and hard.

In the Self-Balancing "SEMPLEX" Separator the spindle is relieved of carrying the weight of the bowl, therefore, it is relieved of all the strain which spindles in other machines are subjected to. The only function of the spindle in the "SIMPLEX" is to drive the bowl. In other machines the spindle carries the weight of the bowl, and is subject to all the strains resulting from the high speed. In the "SIMPLEX" it is merely a means for conveying the driving power from the gearing to the bowl. This driving power, on account of the high gearing, is very slight indeed.

The "SIMPLEX" spindle is made of a special high carbon steel. It is specially treated in the drop forging process, and straightened by hydraulic pressure so as to make it as free from internal strains as possible. We use the same care with the spindles that we did formerly when they carried the weight of the bowl, so that there is a very large factor of safety in the spindles of the Self - Balancing "SIMPLEX." In the "SIMPLEX" the spindle, instead of being one of the most important and sensitive parts of the bowl, becomes of secondary importance only, and is one of the great benefits derived from the Self Centering Bearings.

D. Derbyshire & Company

Head Office and Works: BROCKVILLE, ONT.

Branches: PETERBOROUGH, ONT. MONTREAL and QUEBEC, P. Q.

WE WANT AGENTS IN EVERY DISTRICT

SECURE TWO NEW SUBSCRIPTIONS

For us at \$1 a year each, and we will renew your own subscription for one year—FREE

SECURE ONE NEW YEARLY SUBSCRIPTION

For us and we will renew your own subscription for six months :: :: Write—

Circulation Manager

THE RURAL PUBLISHING COMPANY, LIMITED

Great Loss from Sow Thistle

Ed. Farm and Dairy,-It was with Ed. Farm and Dairy,—It was with satisfaction that I noticed your strong editorial against perennial sow thistle in Farm and Dairy Aug. 5. If any action that you can take will stamp out this weed, the very worst of weed pests, you will accomplish more good than 90 per cent, of the gentlemen who occupy scats as our representa-tion of the second of the second your agistation will sative Halls. If your agistation will sative the second two blades of grass or grain grow where one sow thistle new occuriose.

two blades of grass or grain grow where one sow thistle now occupies the voil, you will be a public bene-factor of the highest order. How is the good work to be accom-plished? Men who grow the most sow thistle will never see your edito-rial. They don't as a rule attend In-stitute meetings or read agricultural papers. Some action should be taken to arrest their attention, to prevent them from conducting their farm covarations at a loss to thomeslyes and to arrest their attention, to prevent them from conducting their farm operations at a loss to themselves and the community in which they reside. No man should be allowed to sow a field of any of the common grain crops that is badly infested with sow thistle. Such seeding will not only be a considerable to the seeding will not only be a considerable to the seeding with the seeding will not only on lavid adjoining them. The worders that all stock affected with cartain diseases be destroyed. There is a find seed to the seeding with the seeding wit orders that all stock affected with cer-tain diseases be destroyed. There is more loss every year from the sow thistle than from all the losses result-ing from glanders, hog cholers and foot and mouth disease, and yet no Legislative action is taken to prevent the spread of the sow thistle. Our Legislature should make it compulsery on all municipal councils to appoint an officer whose duty it should be wherever the sow thistle flourishes to take heroic measures to see that they are not allowed to go to seed to pollute the free air of heaven and to infest their neighbors' farms.

See also be prince the Free air or beaven and to infest their neighbors'. Sow thistle can be eradicated from our soil, but it will require sternal-vigilance and thorough and systematic work. Drainage on all low, wet or springy land is one of the first essentials to the eradication of sow thistle. They flourish in low springy soil. Land infested with sow thistles should be sown to buckwheat, hoe crop or rape and thoroughly eultivated. Slip shod cultivation will only aggravate the evil. Land badly infested with sow thistles should be either pastured or mown, plowed about the middle of July, given thorough surface cultivation all season, or be summer fallowed or thoroughly hoed or worked once a week with twinplow of the summer fallowed or thoroughly hoed or worked once a week with twinplow of the summer fallowed or thoroughly hoed or worked once a week with twinplow or worked once a week with twinplow or broadsheared cultivator until July attacted and got rape in drills, cultivated and got rape in drills, cultivated and got rape in drills, cultivated and proposession. This practice will finish nearly all sow thistles. A very few may make their appearance the next year. These can be pulled. A field badly infested two years ago was sown to rape and cultivated as described. This year after a careful acrutiny only five plants could be found.

Tenant farmers are not the only simners. Some of the worst infested farms are owned by men who were born

Tenant farmers are not the only sin-ners. Some of the worst infested farms are owned by men who were born where they reside and whose ancestors cleared the land. I hope that Farm and Dairy will keep up the good work that it has commenced, and that some action will be taken to sup-press and stamp out the bold, brazen, usurpation of our soil by the pecu-nial sow thistle.—T. Baker, Durham Co., Ont.

Good Feed, Poor Cows

At several cheese factories in Eastern Ontario the average production per cow has been conclusively shown to be approximately 2,800 pounds of milk only for the full factory season. In one group of cow testing associations in Western Ontario 450 grade cows had an average yield of 1,050 pounds of milk during June. There

is food for thought; as much milk in one month from one set of cows as in three months from other seta. There is evidently urgent need of more careful selection of the better class of dairy cows, and need of more intelligent, care and attention, real intelligent, care and attention, real consecuence of farm should be consecuently of the consecuence of t one class of tarm stock that brings in the regular income. Plenty of choice individual cows in the single month of June gave from 1,800 to 2,100 pounds of milk, or almost as much as the poorer, unselected dairies averaged for the whole factory sea-

A great many of our farmers need to wake up to the folly of wasting good time and good feed on poor cows; milk records will quickly indi-cate which to keep as the foundation of the good herd.—C.F.W.

Getting Ready for the Next Competition

Many of those who would have liked Many or those who would have haked to have taken part in the dairy farms competition being conducted over On-tario this year by Farm and Dairy, were deterred from doing so owing to were deterred from doing so owing to the short notice that was given, and the comparatively short time that was available to fix up things around the farm and to get ready for the visit of the judges. Some of these have sig-nified their intention to enter in the next competition slated for two years hence. Typical of the letters received in this composition is a softly of the connext conjection is the letters received in this connection, is the following from Mr. S. A. Northcott, an enterprising farmer in Ontario County—"I would certainly have gone into the dairy farms competition as contact of the contact

"I would certainly have gone into the dairy farms competition as con-ducted by Farm and Pairy this year had my dairy herd been large enough. I have sold six cows since January and intend to sell at least two more. On this account I am left with only 10 milkers on 140 acres. I found that some of my cows were not making me anything so I gave thouse. anything so I gave them a walking ticket. I shall get into a herd of the right kind as soon as possible and then

right kind as soon as possible and then will take pleasure in competing."

A reader of Farm and Dairy who lives in Prince Edward County and who we know has a splendid herd of cettle, good buildings and a fine farm, and who would be a very strong competitor, wrote us a few weeks ago station belongs to a breed that likes to be belongs man who already has things on his farm in such shape that he would be certain to take a high standing in the competition, prefers to stay out and competition, prefers to stay out and take two more years to get ready it is a good indication that others who may be thinking of taking part in the next competition had better be getting

A DIFFERENT VIEW POINT

It is singular how differently farmers look at competitions of this kind. Some work the times they are sure of winning, they have been seen to wind the sure of winning, and they believe such competition to help the along. Mr. H. Baptie, of Dundas County, entered the special competition in that county this year for that reason and because he hoped to gain some pointers from the judges. He said, when he entered, that through lack of help he knew that his farm was not in good shape but that he would enter for the reasons given. One of the competitors in western One tario wrote us that he had entered his farm because he wanted to encour It is singular how differently farmers his farm because he wanted to encourage his boys and lead them to take a greater interest in the farm work.

During the last month and a half our Inspectors have tested over 600 head of cattle for tuberculosis. Only about 11½ per cent. have reacted.— R. W. Hodson, Live Stock Commissioner for British Columbia.

Issue Each W

Vol. XX

A System wh mark

MOST lished titled It contains a sor Bernhard livered at th erculosis at Y clear idea of authority, an eradicating be

The question grave imports Among stockn cattle are the ter, but every stake, so that of Ontario to

Professor Ba bovine tubercu that healthy ar eased animals, later. The poi as it has been d clearly as it is of this kind. A but if the uters may be tubercu ever, are rare. rying infection. milk will likely but milk from a where there are contamination fr almost sure to fi which may conta

bacilli The tuberculin garding the locat gress which it h aminations prove but which do not slightly affected; they might live fo

INDISCRIMINA From these facts the indiscriminate was a mistake. C showed no clinical duce healthy calve breeding purposes. symptoms should be

But a cow might and might still be a fined in the same avoid this danger i

This article s repro

It is desirable to mention the name of this publication when writing to advertisers.

as in as

tter the ings ngle

eed

ndi

ĸt

rms On-

isit

the

hen

cho

and

hat

ng



Only \$1.00

FORMERLY THE CANADIAN DAIRYMAN AND FARMING WORLD

Vol. XXVIII

FOR WEEK ENDING AUGUST 19, 1909.

No. 33.

THE BANG METHOD OF HANDLING TUBERCULOUS HERDS*

Prof. G. E. Day, O.A.C., Guelph, Ont.

A System whereby Healthy Stock is Raised from Re-acting Animais - It Has Proved Successful in Denmark and is Being Adopted in Connection with Some Canadian and American Herds- Of Much Concern to Dairymen.

MOST interesting pamphlet has been published by the University of Illinois entitled "Studies on Animal Tuberculosis." It contains a full report of an address by Professor Bernhard Bang, M.D., of Copenhagen, delivered at the International Convention on Tuberculosis at Washington, D. C., and gives a very clear idea of the views held by this distinguished authority, and the methods he has devised for eradicating bovine tuberculosis in Denmark.

The question of bovine tuberculosis is one of grave importance in every stock-raising country. Among stockmen probably the breeders of dairy cattle are the most vitally interested in the matter, but every consumer of milk has something at stake, so that there are few people in the Province of Ontario to whom the question does not appeal.

A CONTAGIOUS DISEASE.

Professor Bang works upon the principle that bovine tuberculosis is a contagious disease, and that healthy animals placed in a stable with diseased animals, are liable to infection, sooner or later. The point scarcely admits of controversy, as it has been demonstrated in many instances, as clearly as it is possible to demonstrate matters of this kind. As a rule, calves are born healthy, but if the uterus of the cow is affected, the calf may be tuberculous at birth. Such cases, however, are rare. Milk is a common means of carrying infection. If the udder is tuberculous, the milk will likely contain the germs when drawn, but milk from a healthy cow, drawn in a stable where there are diseased animals, is liable to contamination from particles of filth which are almost sure to find their way into the milk, and which may contain large numbers of tubercle

The tuberculin test gives no information regarding the location of the disease, nor the progress which it has made, and post-mortem examinations prove that most animals which react, but which do not show clinical symptoms, are only slightly affected; many of them so slightly that they might live for years, and, in some cases; re-

INDISCRIMINATE SLAUGHTER A MISTAKE.

From these facts, Professor Bang reasoned that the indiscriminate slaughter of reacting animals was a mistake. Cows which reacted, but which showed no clinical symptoms, would likely produce healthy calves and should be retained for breeding purposes. Only those showing clinical symptoms should be slaughtered.

But a cow might not show clinical symptoms and might still be a menace to other animals confined in the same stable, and the only way to avoid this danger is to separate those animals

which react from those which do not. Bang's system, therefore, calls for complete isolation of reacting animals. Calves born in the infected herd are removed immediately to separate quarters, and are fed upon milk from healthy cows, or milk which has been heated to 80 deg. C. to destroy disease germs. For the first day of the calf's life it is fed the mother's milk raw, the colostrum being important to the welfare of the calf, but after the first day it is fed only the milk of healthy cows, or sterilized milk. Where practicable, there should be two sets of attendants, and the two herds should have nothing in common, separate implements and utensils being employed for each herd, and the herds should be kept separate when turned out to pasture. When it is not possible to have different attendants, then the herdsman should always tend and milk the healthy animals first, and put on special

Condensed Reading Matter

Farm and Dairy is the best paper I know of for putting its reading matter ia a condensed form. Farmers have not time to read two or three columns to get one or two ideas.-D. N. Anderson, Lambton Co.,

overalls and boots before attending to the diseased herd. Instead of changing boots, a pair of rubbers could be worn over the ordinary boots when in the infected stable.

SECURING ISOLATION.

The most effective isolation can be had when the two herds are kept upon different farms. Next in effectiveness would be separate stables, but if neither of these methods is feasible, the stable may be divided by a tight board partition, with a tight fitting door. It would be better to have no door in the partition, provided it is practicable to have an entrance to each stable from outside. The tuberculin test is applied twice a year, or at least once a year, to the non-reacting part of the herd, and any reacting animals are removed to the infected herd.

In 1892, Professor Bang received a grant from the Danish Government to enable him to test his method on a highly tuberculous herd. Upon the first application of the test, 131 animals reacted, and only 77 failed to react. Most of those which falled to react were young animals. The stable was divided by a solid wooden partition, the reacting animals being placed in the other. Two sets of stable hands were employed, and the cattle were kept separate when grazing as well as in the stable. Nearly all the calves born in the

infected division were found to be healthy at birth. They were removed at once from the infected stable and fed the first day upon the mother's milk raw, after which they were fed steri-

The "healthy" division was tuberculin tested every six months, and for a number of years a few reactions were obtained. Generally the percentage of reaction was very low, but on a few occasions, it was as high as nine per cent. The slowness of the operation is accounted for on the ground that the farmer who owned the herd was not so careful as he might have been. Gradually, however, the numbers of healthy animals increased, and the animals of the reacting division were gradually disposed of until none of them were left. The farm now supplies "Milk for Infants" to the city of Copenhagen. The animals are tested every year, and under the last test, which was in 1907, not one out of 211 animals re-

The Bang system has been adopted on a great many farms in Denmark, and though & considerable number of breeders have abandoned it from one cause or another, those who have persevered have almost invariably obtained gratifying results. A few notable instances may be cited

SOME NOTABLE INSTANCES OF SUCCESS.

On one estate in 1894, 139 animals reacted, and 86 failed to react. In 1908, only one calf reacted, and that so slightly as to be regarded as doubtful. On another estate, in 1805, the test showed 271 diseased and only 68 healthy animals. At present, only 10 animals remain in the reacting division and only six out of 373 animals reacted under the last test. On another estate, in 1895, 115 animals reacted, and 48 did not react. Under the last test only two out of 158 reacted. On still another estate, in 1896, 166 animals reacted and 74 were found healthy. There is now a stock of 264 cattle, only three of which acted in 1908. It is worthy of note that in this herd, one of the half-yearly tests showed 22 per cent. of reactions. This was very discouraging, but, fortunately the owner persevered, with the success already noted. In many other herds, large and small, equally satisfactory results have been obtained, so that the efficiency of Bang's system has been very fully demonstrated, when the person who undertook it exercised great care, and possessed the necessary patience.

A MODIFICATION OF THE SYSTEM.

Professor Bang also suggests a modification of the method which has beer, described. In cases where the owner has reason to suspect that a very large proportion of his herd would react to the test, he might prefer not to have his herd tested. In such a case he could isolate the calves and feed them sterilized milk. The young herd thus evolved would be tested every six or 12 months, and a new herd of healthy animals built up. This plan has been adopted upon a number of Danish farms, and has given most satisfactory

The Danish Government makes an annual grant

This article is reproduced from the O. A. C. Review.

for the purpose of carrying on the work. Farmers who wish to adopt the method, and who will agree to comply with all its conditions, can have their herds tested free of charge. Provision is also made for partial compensation for animals slaughtered. With this assistance, the farmer is enabled to clear up his herd with a comparatively small expenditure of money, the cost for small herds of 25 to 30 animals being under \$100.00 according to the statements of several Danish farmers. The method involves a good deal of extra trouble, however, which is probably the main factor in hindering its more general adoption.

ADAPTED ONLY TO THE BREEDER.

There are several points which stand out prominently in connection with Bangs system. It is a method adapted only to the breeder, since it calls for the renewal of the herd by breeding and rearing healthy stock. The dealer, that is the man who is constantly buying new animals, would scarcely find it practicable. It is necessarily a slow process, and the man who undertakes it must be prepared to exercise patience. It calls for unceasing care and vigilance, perhaps, more than the average man can be expected to practise. It calls for the expenditure of more or less money, and involves a very considerable amount of extra labor.

There are certain facts, however, which should be considered in connection with the question. The problem of dealing with tuberculosis is attracting more attention now than it ever did in in the past, and the chances are that it will attract more attention in the future than it does at present. In connection with the problem, the question of pure milk apply has received some consideration in the past, and is likely to receive more as time passes. It is quite probable, therefore, that the dairyman who starts betimes to rid his herd of tuberculosis, may have reason to congratulate himself upon his foresight. In addition to this, the animals and products from a herd that is known to be healthy should command a premium over those from doubtful herds, and it has been demonstrated in Denmark that the cows retain their usefulness for a longer period in those herds which have been cleansed. Here, then, is some compensation for the expense and trouble which the system involves.

SYSTEM CALLS FOR VOLUNTEERS.

The Bang system is not one which can be forced upon a people, but it calls for volunteers, and the Denmark Government encourages volunteers by giving financial aid. This is surely a wise use of public money, where so much is at stake, and is vastly more economical than the wholesale slaughter of reacting animals, such as we have sometimes seen in the past.

Space will not permit of the full treatment of the subject, but enough has been said to give a reasonably clear idea of the Bang method. From results achieved in Denmark, we are forced to the conclusion that the method has great possibilities, and is worthy of full investigation. One thing is certain, it could scarcely be carried out without financial aid from the state, but the cost to the country would be a very trifling matter in comparison with the importance of the undertaking. Those of us who are interested in the live stock industry should make it our business to become fully informed regarding the practicability of the method proposed by Professor Bang.

In conclusion it may be noted that the Bang method has been tested in several American herds and the results up to the present are very encouraging.

Farm and Dairy is a very practical and helpful farm and dairy paper and should be of value to any Canadian farmer. I cheerfully recommend it to any farmers in my district who I think might subscribe.—Horace W. Parker, Kings Co.,

The Culture of Fall Wheat

H. Johnson, Middlesex Co., Ont.

Little time should be lost in preparing land intended for fall wheat. The summer fallow, once thought to be the only place for wheat, and which affords an excellent preparation has gone very largely out of use in Ontario. Land that has grown a crop of peas is generally in a fine condition to be followed by wheat. Peas, however, of late years are not grown largely in many sections. The clovers are grown everywhere and a red clover or alsike sod turned down by plowing lightly makes probably the most satisfactory situation that is available for wheat. It should be plowed early, rolled and harrowed to cause the sod to rot quickly. Cultivation at frequent intervals with the broad pointed cultivator and harrows, will be beneficial and will tend to make a fine seed bed. Barley land possibly makes the next best place for wheat. It should be plowed early in order that a firm bottom may be obtained. Sow during the first 10 days of September.

On land that has been properly underdrained, there will be no need of plowing it up into high ridges. The level cultivation is to be preferred. The drains will take care of surplus water. A top dressing of manure is of great benefit if applied evenly after sowing. The manure spreader is adapted for this work. It will generally give



"Alice Mechthilde De Kol" calved May 19:h at 25 m the 30 days of June she gave 1325 lbs. of mi ring as high as 46 lbs. in one day. She is a A. Brethen, of Peterboro Co., Ont. on the melitors in the Dairy Farms' Competition, a Special Representative of Farm and Dairy.

the best results if applied before the wheat is up. The sooner a field that is intended for wheat is plowed, and the more it is worked, the greater is the amount of water the soil will hold, which water will be made use of when the seed is sown. Wheat sown in the fall of 1908 showed marked results in favor of the early plowing.

Some Pointers Concerning Alfalfa

Hy. Glendinning, Ontario Co., Ont. Probably 75 per cent. more alfalfa hay has been cut in Canada this year than ever before. The largest number of acres sown in one year was in the spring of 1909. The first crop has been saved in fine condition, as weather conditions in most sections were favorable.

That some mistakes have been made and that some disappointments have occurred is only what might be expected. Complaints are heard from some that they have lost a large quantity of the leaves. This may result from several causes. If the plants are very thick and the crop heavy the leaves on the lower part of the plants are shaded from the sun, which causes them to turn yellow and fall off. The most common cause for the loss of leaves is allowing the fresh cut plants to remain too long in the sun after cutting, without tedding. The leaves become dry and shrivelled while the stalks are green and sappy. In this condition the leaves drop off readily and it makes the hay more difficult to cure, as the leaf is the organ that nature provided for drawing the sap from the plant.

Alfalfa should be tedded every two or three

hours before raking into windrows. During the present season, owing to the dry time, we did not find it necessary to coil our alfalfa. We tedded the windrows lengthways two or three times and used the hay loader for putting it on the wagons. This made hay of the finest quality. Another cause for the loss of leaves is that of allowing the crop to mature too much before cutting. It should be cut just as it is coming into bloom, when there are probably one-tenth of the blossoms out. The second crop should be cut when the bloom is at the same stage as for the first cutting. SECOND AND THIRD CUTTINGS.

The second cutting this year will be heavy and if the weather is favorable he third will come on rapidly. Great caution should be exercised about the third crop this season. Owing to the backward spring the first cutting was from 1wo to three weeks later than it has been for some years. New beginners in growing alfalfa may be easily led astray by seeing the rapidity with which a third crop is grown and conclude that if they cut it for hay there will be a fourth crop sufficient to cover the land and hold the snow during the winter. In this they are likely to be disappointed. A few cold days and nights will change the whole thing. Alfalfa is a rapid grower when the weather is warm, but a very poor grower in the fall when the weather becomes cold. If there is an apparent waste in leaving a heavy third crop on the field to go into winter, it may prove to be the most profitable crop of the season, as it is likely to be instrumental in bringing the plants through the winter in good condition. The most unprofitable and dangerous thing to do is to pasture off this third crop. There are few sections in Canada where it can be pastured in

The Perennial Sow Thistle

S. A. Northcott, Ontario Co., Ont. The editorial entitled "Sow Thistle must be checked," in Farm and Dairy Aug. 5, I can strongly endorse as not exaggerating the situation with regard to the perennial sow thistle in Durham and Ontario counties. Sow thistle has been gaining ground till some fields are infested to such an extent that the grain crop is entirely choked out. Low lying lands and farms which have been rented for a number of years are most infested.

Compared with other weeds, sow thistle heads the list of bad weeds ever known in this section. Canada thistle and wild oats are tame when compared with sow thistle, which is propagated both by root and seed and the seed being winged will fly for miles and infest farms at a distance as well as those adjoining. It is evident that it is impossible for any farmer to keep entirely free from sow thistle when other farms, either far or near, are infested like the sections mentioned. This weed is as yet a perfect stranger to farmers in some localities, but unless there is co-operation to prevent the weed from seeding, everyone will know it to their sorrow in a short time. Something must be done to check this foe. It appears that the best way would be for the Ontario Government to follow the course suggested by Farm and Dairy of Aug. 5th, namely, adopt Manitoba laws regarding this weed.

If the weed was prevented from seeding and ecuditions made more favorable for the growth of crops the roots could soon be killed. Underdraining wet places is a move in the right direction; low, wet land is unfavorable for grain crops and is an ideal spot for sow thistle. Hoed cross will check the weed but will not kill it unless persistent hand hoeing is practised near the pin its where the cultivator cannot be used. In badly infested fields this method seems impracticable. The crop, whether grain or hay, should be cut early and the ground plowed shallow as soon as possible, and plowed or cultivated with the broad-shared cultivator for the remainder of

the seaso sppeara: well cul buckwhe cessful i there we seeding, Until suc be discou

Farm

Augu

Genera agricultu whose far and Dair, Peterboro this farm enough to Garbutt t cations to in the reg petition the dair The cows horns. Som appear to milkers. percentage are register speaking of tle Mr. said that h tried to ke milkers, al goodonesfre to raise l Thirty-eight all are kept. time of or seven were The cattle a dantly provi on a large r plemented, by a soiling grown in a] venient for sent to the c very suitable Fall wheat, in the ratio peas, 12, hay

wheat, all the Mr. Garbut considers an A stave silo the demand n kept, provides is 24 feet hig of an eight : of corn are Leaming, Com varieties, mixe ed to the field root and corn only about 100 cultivation, he believing it to and one of th on the farm. and in this wa arable land on

Although son hood are being Garbutt has be check. On som troublesome. It hoe crop.

Some of the suited for sheep cupied an impo this farm, but 1909.

for the

avy and

ll come

rereised

to the

om awo

or some

fa may

y with

le that

th crop

e snow

y to be

ts will

I grow-

y poor s cold.

heavy

it may

he sea-

ringing

dition.

to do

re few

red in

st be

I can

nation

Dur-

s been

o such

hoked

e been

ested.

heads

etion.

com-

inged

stance

hat it

y free far or

oned.

rmers

ation

e will

Some-

pears

Farm

itoba

nder-

lirec-

crops

croos

the

In

praclould

with

ring the the season at such intervals as the weed makes 1^{t_S} we did fa. W sppearance. Plow again in the spring and keep well cultivated till the 1st of July and sow to or three buckwheat or rape. This routine has been sucng it on t qual cessful in eradicating sow thistle with us and if there were co-operation to prevent the weed from before seeding, farmers could soon clear their farms. Until such co-operation is practised, the fight will coming tenth of be discouraging. be cut

Farm Practices of a Local Competitor

General farming well designates the method of agriculture practised by Mr. J. H. Garbutt, whose farm is one of those entered in Farm and Dairy's Special Good Farms Competition for Peterboro County. Dairying, while a feature of this farm is not carried on to an extent large

enough to give Mr. Garbutt the qualifications to compete in the regular competition covering the dairy farms. The cows are Shorthorns. Some of them appear to be heavy milkers. A large percentage of them are registered. In speaking of his cattle Mr. Garbutt said that he always tried to keep good milkers, also some good ones from which to raise his beef. Thirty-eight head in all are kept. At the time of our visit seven were milking. The cattle are abundantly provided for

on a large range of natural pasture. This is supplemented, in seasons of drought and shortage, by a soiling crop-a mixture of oats and peas grown in a plot close to the barn where it is convenient for feeding. The milk from the herd is sent to the creamery at Peterboro. The crops are very suitable to the style of farming practised. Fall wheat, peas, oats, barley and hay are grown in the ratio of wheat, 12, barley, 11, oats, 27, peas, 12, hay 30. With the exception of the fall wheat, all the grain grown is fed to the stock.

RAPE AND CORN SILAGE.

Mr. Garbutt grows considerable rape which he considers an A1 fall feed for his fattening stock. A stave silo of capacity quite in keeping with the demand made upon it by the number of stock kept, provides much of the winter feed. The silo is 24 feet high; 16 feet of staves resting on top of an eight foot stone foundation. Five acres of corn are grown annually for the silo. The Leaming, Compton, and White Cap Yellow Dent varieties, mixed, are sown. The manure is hauled to the field in the winter and spread on the root and corn ground. Although Mr. Garbutt has only about 100 acres of his 160 acre farm under cultivation, he makes use of a manure spreader, believing it to be the most profitable investment and one of the greatest labor saving machines on the farm. He practises a four year rotation and in this way applies a coat of manure to his arable land once in four years.

Although some of the farmers in the neighborhood are being pestered with noxious weeds, Mr. Garbutt has been successful in keeping them in check. On some of his land quack grass proves troublesome. It is kept down by means of the

SHEEP ABANDONED.

Some of the land on this farm is admirably suited for sheep grazing. At one time sheep occupied an important place among the stock on this farm, but owing to the troublesome dogs

they had to be abandoned. Hounds from the neighboring vity and hunters are abundant. "Under such conditions," said Mr. Garbutt, "it is useless to attempt to keep sheep. Out of a flock of 12 the last year we kept sheep, five were killed in the season and the rest became so wild that they had to be disposed of."

A fine young bearing orchard of 65 trees is a part of this farm. It is kept cultivated and was in a good thrifty condition. A well laid out kitchen garden showed that Mr. Garbutt valued this department of his farm. The stuff was arranged in rows so that it might be cultivated with a horse cultivator.

WELL KEPT BUILDINGS.

Probably one of the principal features on Mr. Garbutt's farm is his neat, well kept and well



A Combined Pig and Hen House, one of Several Neat Buildings on a Competing Farm

The building shown in the illustration is on Mr. J. H. Garbut's farm, which is entered in the Special Good Farms' Competition for Peterboro Co., Ont. The "L" is act paper for a heat house, the main part of the building being the hog pen. A coat of paint on this building makes it especially noticeable and attractive. Mr. Garbutt's farm practice is briefly cutlined in the adjoining article. Photo by an Editorial Representative of Farm and Dairy.

arranged buildings. A combined pig pen and hen house, which is shown in the illustration on this page is one of the most recent buildings to be erected. The building cost \$375. Its appearance has been added to much by a coat of paint. The farm is not equipped with any kind of power. Mr. Garbutt has only been on the farm for a comparatively short period of years and as there are two power houses located within a mile of his farm, Mr. Garbutt has been looking forward to the day when he will be supplied with electric power; hence he has been backward in installing any of the other powers in common use on the average farm.—C. C. N.

Care of Foals

Dr H. G. Reed, V.S., Halton Co., Ont.

A little extra care and attention to the foals at this season will repay the farmer well for his time and trouble. The long hot days, the wearisome and continuous fight with flies and (in many cases) the shortage in pasture make the conditions of life rather trying to these little creatures. A foal will always be the better for having a regular daily supply of some grain or meal ration from the time he is old enough to take it in addition to his mother's milk. But, while it will do fairly well without any extras during the early summer months when the pasturage is plentiful and succulent, at this season, when conditions are not so favorable, extra feed is a necessity if the owner wishes to give the little creature a fair chance of growth and devel-

It is universally conceded by beef growers that in order to produce the most profitable bullock, the veal flesh must be maintained till the animal goes to the butcher. This will hold good to a great extent in the profitable raising of horses, more especially those of the heavy breeds. If we reflect that the many excellent properties of our

heavy horses are to a large extent due to the food and care that they have received through many generations, it would be apparent to breeders that those desirable characteristics cannot be maintained and perpetuated by reversing the conditions under which those properties have been developed

SHELTER FROM SUN AND PLIES.

Foals should be brought to the barn during the heat of the day where they will be sheltered from the sun and flies. Allow them a feed of grain or meal morning and evening. Those treated in this way will be in better flesh, will show a more vigorous growth and be in every way superior to those which have to rustle for themselves out in the fields fighting flies and depending on the somewhat scanty supply of milk provided by their dams. In cases where the brood mares are working this care is all the more necessary. No foal should be allowed to trudge after its dam while she is at work in the fields, but should be left comfortably in the barn with access to some nice fresh food and a little grain, which it will soon learn to eat. As a consequence it will make a much more vigorous growth than if allowed to follow after its dam, while at work. Then when weaning time comes foals thus treated will do much better; they have become accustomed to eat solid food, their stomachs will have become gradually inured to the digestion of solids and when deprived of their milk supply will not fall off in flesh. After weaning, provided they are allowed plenty of some good succulent food such as well-cured clover hay or grass, together with a grain ration twice or three times a day, they will continue to thrive and grow just about as well as when nursing their dams.

RETAIN "COLT" FLESH. It is not an unusual sight in the fall to see foals that have been suddenly deprived of their dam's milk and thrown on their own resources for nourishment, which have become very much emaciated; they are poor little, pot-bellied, ewenecked, dejected looking creatures with rough, staring coats and every appearance of animals about to die of old age or hard usage, instead of fresh young creatures on the very threshold of life. A foal in this condition has lost something which can never be made good to him again, no matter how good care he may receive. There has been an arrest of growth and a consequent loss of development which is gone forever, and I care not how fine an animal he may become in after life he will not be quite so good as he would have been if he had not un-dergone a backset in his early life. Some farmers think it is bad policy to pamper colts. They think it makes them tough and hardy to rough it during their early life. While many a good horse has been subjected to hard conditions during his growing period, he is good, not because of that treatment, but rather in spite of it. If he had not been possessed of a hardy constitution he would have died under the ordeal, and the fact that he is alive, proves that he is good, but he would have been better in every way if he had been well cared for during his

HALTER BREAK WHILE YOUNG

It is also time well spent to halter break a foal. It can be done more easily and effectively than at any future time. Put on a little head stall, have some one lead the dam down the lane, the foal will follow as a matter of course. Gradually put a little restraint on the halter, being careful not to throw him, and he will soon learn to yield to the restraint. Ten or 15 minutes spent every day for a week will be sufficient to thoroughly halter break a foal so that it can be led anywhere or tied up in a stall like an old horse. A foal broken to the halter before he is strong enough to make much resistance is not likely to acquire the pernicious habit of breaking loose in after life as too many horses do which are not broken young.

Aug

Rééé

FA

10000

Enr I am a what to rich the on it ne

Piant

on the practica

however land or portant be found

plies of matter.

by apply The fibr

some of

ember, in or eight may be

toward i

harvestee even la

at the ra

not plow rye. Rol

rye. Roll

down a

planting

for plant

Manage

I wish so per as to

per as to ranch: (1) The : ranch, mus ry 20 head In summer crops are i (2) Soil, :

-pure veg

(3) Forme consecutive commercial without it l er ranchers er ranchers
experience.

(4) On his
year, I use
a very heav
(5 What
commercial i
manure not
potatoes and
R.C.

This far lined seems

25 acres of one may submitted,

are indicate suggest a for sible to get

clover and t the case on

swamp lands of black mu ting them in in hay as lor

produce proficial fertilizer good. Espec

you can sec phosphates a of oat hay course import addition of twill in a large

On the hil

first year, roo oats or barle pounds timot clover; 3rd hay. In the

hay. In the the sod right ed and work well rotted. during fall ar

ABSORBINE

no hair gone. Horse can be bree Book 2 D free. \$2.00 a red. Horse book a ottle at dealers or delvered. ABSORBINE, JR., for mankind, \$1. aduces Strained Torn Ligaments, En-





PUBLIC INSTITUTIONS

WINDMIL



Grain Grinders Gas and Gasoline Engines

Concrete Mixers Write for Catalogues

GOOLD, SHAPLEY & MUIR CO., LIMITED BRANTFORD, - CANADA

Crops in Western Ontario

Farmers in the Central counties of Western Canada, particularly Went-worth, Brant, Oxford, Wellington and Waterloo will experience a prosperous year in spite of weather conditions year in spite of weather conditions during the present season, that at times have been unfavorable. Such was the impression gained by an editorial representative of Farm and Dairy who interviewed farmers in those counties while in that district last week. Crops are not up to the over-Dairy who interviewed farmers in those counties while in that district last week. Crops are not up to the average. On the whole an abundant hay crop was secured. It was housed for the most part in excellent condition, as it is customary to start naying early, and the weather proved most favorable in the early hay season. This year. A luxuriant aftermath has sprung up consequent upon the early cutting. Much of the late clover will be left for seed. It is showing a most promising bloom and bids fair for a good yield of seed, the midge not seeming bloom and bids fair for a good yield of seed, the midge not seeming bloom and bids fair for a good yield of seed, the midge not seeming the being grown extensively in an experimental way. Small areas of from two to five acros are quite common. The second cutting was ready for the mower. In a few instances it had already been housed.

wheat, barley and oats.

Some exceptionally good pieces of fall wheat were noticed. Yields of 35 bushels to the acre were reported where threshing had been done. Generally speaking, however, the wheat is only an average crop, in many cases being compartively thin due to poor germination on account of the drought last fall. Barley is making a very good showing. While it is a true that the straw will be short affectively straw has a head and farmation of the compart of the compart of the compart of the compart of the compartment of the Ontario Agricultural WHEAT, BARLEY AND OATS.

College bids fair to displace other varieties. In the northern section of Brant County several farmers have this new strain and are highly enthusiastic over it. It has withstood the unfavorable season much better than has the common Mandscheuri. Much of the barley is cut while that yet standing is re-dy for the binder. We have the standing is re-dy for the hinder. Later oats will be ripe in about ten days. The late grains have been a pleasant surprise. They were much benefitted by late rains. They give promise of normal yields. College bids fair to displace other give promise of normal yields.

CORN AND DAIRYING

CORN AND DARKING.
The corn crop is making a most satisfactory showing. Corn is extensively grown. Silos have been common in this district for many years and many new once have been erceted of late. Dairying is generally practised and farmers have come to recognize in the silo a most profitable investment, and that corn is necessary for the profitable feeding of dairy investment, and that corn is necessary for the profitable feeding of dairy cows. Many in the vicinity of St. George, Brant County, have been disappointed in the r-turns being received for their milk this season, consequent on the glutted state of the condensed milk market. The condensery recently established, and which promised to be of great benefit to the dairymen of this section, was 1-n-able to market its product and was the dairymen of this section, was 1-n-able to market its product and was forced to resort to shipping cream to the Toronto trade, and to manufac-ture butter, which results in lower prices for the patrons. Much cream from this district goes to supply the city trade of Brantford, Hamilton and Toronto.

Toronto.

Where alsike is grown, good yields are reported. Much of it is threshed in the field. A six bushel crophas been obtained in some instances. The prevalence of black medick is the great fee of alsike in this district and in causing some to abandon the alcausing some to abandon the al-

sike crop

Farmers' Institute Clubs

Considerable activity in the Insti-tute Club branch of the Farmers' Intute Club branch of the Farmers' Institute work was in evidence last winter. Superintendent Putnam reports that from correspondence which he has had with Directors of Institutes, many of the States are giving more and more prominence to the establishment of lead agrangiations. and more prominence to the establishment of local organizations through ment of local organizations through which the farmers made settlement will have an opportunity of the settlement of the

Commission Having Profitable Trin

While going to press this week, Farm and Dairy received a post card from Mr. W. W. Ballantyne, chairman of the Swine Commission. The card is dated from Dublin, Ireland. It dated from Dublin, Ireland. Its states that the commission had spent two weeks in Denmark, IO days in Scotland and arrived in Dublin August 2nd, expecting to spend one week in Ireland, then one in England and to sail for Canada vin Virginian on August 20th. Mr. Ballantyne states that it has proved a profitable trip.

rrange for meetings to be addressed by specialists along the various lines of agricultural activity.

of agricultural activity.

The coming winter in all probability will see a great many additional Clubs formed. With a view to placing the work upon a still sounder basis, it has been decided to call a meeting of representatives of some of the more successful clubs of the Province for September 8th. The meeting will be held in the Agricultural tent in the Exhibition grounds at 2 per seed of the province of a did not be successful clubs will be made and institute members, will be made of the discussion and work for local Clubs will form a prominent fee local Clubs will form a from the macrical Acc of the discussion at the American Acc of the discussion and the American Acc of the American Acc of the American Acc of the American Acc of the discussion and the American Acc of the A The coming winter in all probability

Cow testing associations are daily proving their usefulness. The record in black and white is a constant re-minder to the careful dairyman that minder to the careful dairyman that the cow is not a mere machine; the variation in milk yield indicates to that that more and better feed means more milk, but the process of milk el-aboration is affected by other factors which make and now worth studying more mist, but the process of mist and boration is affected by other factors which make each cow worth studying individually. In Ontario there are 45 associations, in Quebec 46, in New Brunswich 16, in Nova Scotia 4, in Prince Edward Island 8, in British Columbia 6, with a total of about 10,000 cows. A large number of herds particularly in western Ontario, are agod over 1,000 pounds of milk during June, and many individual cost in these herds gave over 32 pounds of butter fat. Such cows are paying for their board and leaving a handsome margin of profit. If every farmer in Canada could be certain of that ose clementary fact, that each cows brings clementary fact, that each cows brings Canada could be certain of that one elementary fact, that each cows brings in profit above the cost of feed, the extra milk production from the ore-ent number of cows could be rated in millions of dollars.—J. A. Ruddiek, in Census and Statistics Monthly.

Write for our New Premium List.

You Don't Get Full Value Out of the Manure When You Spread It by Hand



S PREADING with a machine pulverizes and makes the manure fine, and the first shower washes it all into the soil. There is no loss—none of it washed away. It is in condition for the roots of grains and grasses to lay hold of it and get the benefit from it. You ought to spread manure with an

the manure of your farm for many years with the regetting by hand-spreading, see only way to keep up the fertility of your to thying commercial fertilitiers. You are lost to keep your farm in a high state of the the manure produced upon it, but the

You will be able to cover twice the surface and get practically double the value from the manure that you are getting by hand-spreading.

It is the only way to keep up the fertility of your sold without buying commercial fertilizers. You are not only able to keep your farm in a high state of not only able to keep your farm in a high state of not only able to keep your farm in a high state of the property of the

Any International Agent in your town will sup-ply you with a Spreader Catalogue. Call on him or write nearest branch house for any further information you may desire.

London, Montreal, Ottawa, Regina, Saskatoon, St. John, Winnipeg.

International Harvester Company of America, Chicago, U.S.A.

he Insti-

mers' In-last win-

n reports

nstitutes

ing more

through

f discus-terchang-

ing th reports.

lecturer.
form a
hich the

fitable

this

rd is had rrivgland

ldressed us lines

bability ditional to plac-sounder

call a some of he Pro-

ultural

embers,

rs of a e made mization

form a

Farm-held in 17th.

nt ex-id sug-ich will

n plan-coming

daily

record int re-

n that e; the tes to means ilk el-actors

idying e are n New

British

about

aver

dur-

cows ng for

dsome

one the diek,

seeseseseseseseseseses varing with shallow furrow and sow FARM MANAGEMENT Nonennessanannessanannessanannessana

Enriching Soil for Potatoes

I am growing potatces. Can you tell me what to sow to plow under, so as to enrich the soil so that I can plan: potatots on it next year?—J. J. W., Ken: Co., Ont.

Management of a B.C. Ranch

I wish some suggestions from your paper as to the best way to handle my

per as to the test ranch; is primarily a dairy ranch; iii. The ranch is primarily a dairy ranch, must produce enough feed to carry 20 head of stock through the winter. In summer they graze in the bush until the product of the ranch ra

In summer they graze in the bush until crops are in.

(2) Soil, two kinds. Swamp (relaimed)
—pure vegetable humus. Hillsides(small crombling kind of rock) grows good clov-

er.

(3) Former owner grew oat hay for six consecutive years on the swamps, using commercial fertilizer. He told me that without it his crops were a failure. Other ranchers in the district affire, the same

er ranchers in the district amra. The same experience.

(4) On his advice, last year, my first year, I used 15 cwt, fertillizer and got a very heavy crop of oat hay.

(5 What will be the effect of using commercial fertillizer in this way? Stable maure not sufficient for more than the potatons and one field.—A. S., Nanaimo, 100.

potators and one field.—A. S., Nansimo, B.C.

This farm as described and outlined seems to contain about 24 or
25 acres of arable or cropping land
if one may judge from the diagram
submitted, whereon areas of fields
are indicated only in part. I would
suggest a four year votation on those
shield of the ranch where it is possible of the ranch

As to alfalfa would say that I think it would do well with you. Follow directions given in bulletin sent.—J. H. G.

The Steel Silo a Favorite

Jas. W. Boyd, Wentworth Co., Ont.

Jas. W. Boyd, Wentworth Co., Ont.
Our steel sile creeded a year ago
hap proved itself to be a first-class
no proved itself to be a first-class
no proved itself to be a first-class
one for keeping silage, it has no
equal.
The steel sile of the sile
could possibly be aved in the sile.
Frost tien not interfere with a single
day's first of the steel sile has no
equal for cheapness and durability.
Once they creeted, they are there
and finished rected, they are there
and finished itself to the first in diameter and any height that a man may
order.

Ontario Honey Crop and Prices

Ontario Honey Crop and Prices

The Honey Exchange Committee of
the Ontario Beekeepers' Association
met a the secretary's office in Toronto on the Order of the Committee of the Order
to other of the Committee were enabled to get four of the Committee were enabled to get of the Committee of the

prices, both for catalogs to the following: No. 1 Light, Extracted (wholesale) 9%c. to 10%c. a lb. No. 1 Light, Extracted (retail)

No. 1 Light, Extracted (retail) 12%c. alb. No. 1, Comb (wholesale) \$1.80 to \$2.25 a dozen.

No. 2, Comb (wholesale) \$1.50 to \$1.75 a dozen.

this.

On the hillsides I would suggest first year, roots or potatoes, 2nd year, roots or potatoes, 2nd year, roots or potatoes, 2nd year, roots or barley, seed down the 1 goods timethy and 10 pounts timethy their crop until later in the season and supply. In the fourth year plow the sod right after the hay is harvest, ed and work at intervals till soil is well rotted. Apply barnyard manure during fall and winter. Plow in the buckwheat honey.—P. W. Hodgetts, Secretary.

Inside Facts About All Kinds of Roofing

Before deciding on any roofing, for any purpose, send for our free book which will give you the inside facts about all roofings— shingle, tin, tar, iron—and prepared, or "ready" roofings.

This book is fair, frank, comprehensive. It tells all about the cost of each kind of roof-ing. It tells all about the cost of each kind of roof-ing. It tells the advantages and the disadvantages of each, as we have learned them in twenty years of actual test. It is a veritable gold mine of roofing information. The reason we send it free is because it The reason we send it free is because it tells, too, about Ruberoid roofing.

The First "Ready Rooting"

Since Ruberoid roofing was invented, meanly twenty years ago, there have spring the same substitutes have names which sound these substitutes have names which sound the same substitutes have names which sound the same substitutes have names which sound the same substitutes and t

A roof of Ruberoid is flexible enough to stand the contraction of the cold and the expansion of the sun's hot rays.

It is so nearly fireproof that you can throw burning coals on a Ruberoid roof without danger of the roof taking fire.

It is rain proof, snow proof, weather proof. It resists acids, gases and fumes.

proof. It resists acids, gases and fumes.

These wonderful properties of Ruberoid resists acids, gases and fumes.

These wonderful properties of Ruberoid resists acids, gases and fumes. Compared to the colors—Red, Geren, Rowen, suitable for the finest homes. These color roofings are made under our exclusively owned patents. The colors of Ruber-ful acids of the colors of the colors

The Standard Paint Company of Canada, Ltd., Montreal, Canada

Hamburg Paris

DAIRYMEN! ATTENTION!

1909 WESTERN FAIR 1909 LONDON

Large Prizes for Cheese and Butter

ONTARIO'S POPULAR EXHIBITION SEPT. 10-18

Butter-Making Competition Daily **Cash Prizes**

A beautiful Silver Cup for the winner of Sec. 2, Class 48. Send for Prize List

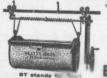
REDUCED RATES ON ALL RAILROADS

Write for particulars to-

W. J. REID, President

A. M. HUNT, Secretary

A BT Litter Carrier and BT Feed Carrier should be in your stable:-



lst Because they will save you more hard and disagreeable work than any other machine you can invest your money in.

2nd Because they are the best machines made for handling Litter and Feed. Hade for nahaling Latter and Feed.

Let us tell you what they will do and why they are better. We also build Cow Stanchions, Steel Stalle, Hay Carriers, Forks and Slings.

BEATTY BROS., FERGUS

STEEL, LAND ROLLER T. E. BISSELL CO. Ltd., Dept. H , ELORA, ONT.

is desirable to mention the name of this publication when writing to advertisers

Messessessessessesses HORTICULTURE

n. N /***************** Orchard Survey in Georgian Bay District

A. D. McIntosh, B.S.A., Simcoe Co., Ont.

Since June 25th the writer has visited a large number of the orchards of the Georgian Bay district for the Ontario Department of Agriculture, and has noted several things worthy of comment. In the first product in the comment in the first product of the comment worthy of comment. In the first placetheowners almost invariably took a deep interest in learning about the insects and fungous diseases infest-ing their orchards and were also anxious to know the effects of culture, pruning and spraying as seen in their own and other districts. A few were also interested in fertilizers and in the most suitable varieties of trees to their culture.

the most suitable varieties of trees to plant.

The large majority of orchards are in sod and many of these are show-ing the ravages of both insects and fungous diseases. Most of those who are practising cultivation are making an effort to prune and, in many cases, to spray. Those who have sprayed this year with lime-sulphur and lead arsenate are well pleased with results. The foliage is dark green and the leaf of the sprayed of the spraye results. The forage is dark green and the leaves are quite free in most cases from the apple aphis while the fruit is very much cleaner and more

Fruit is very much cleaner and more free from worms.

It is noticeable, too, how much larger the fruit is in cultivated orch-ards than in the sod orchards even where a crop has been taken off. The idea of cultivating an orchard for just the apples themselves has not be-come nonniar in this district. just the apples themselves has not be-come popular in this district yet. Some are not even cultivating their young orchards, and most of those who are doing so, also crop them with grain, roots or clover. Perhaps this indicates great faith in the strength of the soil but it also shows little of that fruit spirit so necessary to suc-cess in the fruit business. When visiting the St. Vincent eye.

that truit spirit so necess in the fruit business.

When visiting the St. Vincent evaporator in company with Mr. J. G. Mitchell, manager of the Georgian Bay Fruit Growers' Limited, I learned that 16000 bushels of culls went through their factories lavils went through their factories lavils went through their factories as tatement which has a very important bearing on the apple industry of this district. He said: 'We would rather buy whole orchards than handle the culls such as we get. We will be glide to help along the forward movement in the orchards as we get. We will be glad to nearly as we get. We will be glad to nearly along the forward movement in the calling calling Mitchell said that the west is calling Mitchell said that the west is calling for 500 carloads of apples this year. If those culls could just be made No. 1 and No. 2 what a profit there would be in this apple district. With two large fruit houses at their disposal and some thousands of acree of orch-ards the growers of this district have only to co-poragt to make a supcose. arts the growers of this district have only to co-operate to make a success in apple growing. The co-operation must, however, be all along the line, in spraying, cultivation, pruning, picking, packing and marketing, if the highest degree of success is to be pruning,

Pruning and Training Raspberries

Extract from Bulletin of Oregon Experiment Station.

Red raspberries should not be sum-Red raspberries should not be sum-mer pruned as this practice often seems to encourage winter-killing. It is a good practice to remove the old canes directly after fruiting. These canes should be burned as soon as re-moved. In spring further pruning will be necessary. ecessary.

The plant throws up so many suckers that if they were all allowed to grow the canes would become very weak. All the weaker young growth should be removed. In cases where

the grower has been unable to mature berries to the tips of the cane, it is advisable to head back somewhat

ture nerries to the tips of the same it is advisable to head back somewhat the fruit ing came. Where red raspherries are grown to Where red raspherries are grown to support the same in t

THE BLACK CAR Summer pruning should always be resorted to in the case of black caps. When the canes have reached from two to four feet in height, the ends should be pinched off. This will force out the lateral buds, causing the cane to branch. Occasionally these branch. out the lateral buds, causing the cane to branch. Occasionally these branches bare a tendency to grow too long and rank. When this happens, they in turn should be pinched back. Some inturn should be pinched back. Some mistake. They allow the canes to smittake they allow the canes too a height of six or eight feet and then cut the canes back to two or founders. They never do this more than once in or this kind of pruning removes: the fruit. The pinching of the tips is very essential, as it means a better quality of fruit, well down near the ground, and much more down near the ground, and much more down near the ground, and much more easy to handle

easy to handle.

As soon as the fruit is picked it is
well to remove old canes. Winter
pruning should be carried on in the
spring just before the growth start
where too many canes are growing,
thin out the weaker. If the lateral
growth caused by summer pruning is
too rank, cut it back moderately.
Where no summer pruning has been
done light pruning is often advisable
in the spring of the year, as this redone hight printing is often advisable in the spring of the year, as this reduces the number of clusters and often produces better berries.

ten produces better berries.

Black-caps have rather stiff, upright canes. Especially is this true where summer pruning is practised, so that under ordinary conditions no wires or reellising are necessary. Some growers handle the training much the same as that of the verl asaberry, ussame as that of the red raspberry, using the posts and wires to confine the young growth and to keep the canes within bounds.

Asparagus Pests

Jas. F. Nicholson, Carlton Co., Ont. Jas. F. Nicholson, Carlton Co., Ont. When old asparagus bear badly attacked by rust the best away is to destroy or break them up lant in a fresh location. The diseasure in the beheld in check by frequent spacings with Bordeaux mixture or by cutting the affected parts off and burning them. When the cutting season is over, young plants from burning them. When the cutting season is over, young plants from seeds, kept well fertilized, will with-stand any disease or fungus better than old beds which have been ne-

For For wire worms at roots, dress the bed with salt and place pieces of carrots and potetoes below ground to attract them.

attract them.

The asparagus beetle injures the tender shoots that make them useless for market. These held in check by positry turned into the beds, or cut down since the beds or cut down since the beds or cut down since growth in early spring so thanteer growth in early spring so that the beds or cut down since the beds will lay treir eggs on new shoots which are cut every few days before the eggs are hatched. Another remedy for the larvae is air-slacked lime, dissed on the plants in the early morning while the dew is on, which will destroy all grubs with which it comes in contact.

After the cutting season is over

After the cutting season is over burn the tops off the bed as it is the surest way to burn all weed seeds, in-sects and eggs which may have been deposited during growth.

To produce the bianched or white stalks put the rows far apart, plow in the centre and ridge up. After the in the centre and ridge up. After the cutting season is over, put manure in the furrows, level down and cultivate to promote growth of crowns for the foliage season.

Fruit Trade with South Africa

H. R. Pousette, Trade Commissioner, Durban.

There appears to be no reason why anada should not have the Canada should not have the trade which goes to the United States of America, but at the same time it appears evident that the Ical article is driving out the imported one. This applies with equal force to bottled and timed fruit.

tinned fruit.

The fresh fruit trade as far as Can The fresh fruit trade as far as Canada is concerned is confined almost entirely to apples, although a little is also done in pears. However, during the coming season this will show a considerable decrease, on account of the stringent import regulations imposed owing to the presence of the coding moth. Our best customers are the people on the Rand, but the Transval regulations are more strict. Transvaal regulations are more strict than the other colonies, and entail the re-exportation of consignments found to be infected by more than one per cent. The only way out of the diffi-culty is to send very carefully picked consignments, and chance their coming within the one per cent. margin, or else to come to some arrangement (which perhaps is feasible) with the Transvaal government, whereby the Transval government, whereby the apples could be vicked over and the clean ones passed to the fruit dealers.

Unfortunately. however, the fruit dealers do not appear to favor this, as they state that once having been having been handled, the 'ruit will not keep in ocld storage, and that it never has Archer, Kaslo, B.C. dealers do not appear to favor this, as

SOME FACTS ABOUT

Smokeless Powders

Pleasant to Shoot

INSIST ON GREENS

Loaded by the Dominion Cartridge Co., Ltd. Montreal, Canada

the same appearance as when it comes straight from the Canadian packers have the content of the whole thing is most unfortunate, as the Canadian apples arrive the content of the content



MINERAL SURFACE - NEEDS NO PAINTING

A MATITE roofs need no painting. The owner need never look at them; they take care of themselves. They are 'no-trouble' which storm and wind and snow are absolutely provided as surface does not require constant painting like the smooth surface of so-called 'rubber' roofings. The mineral surface is far better than paint.

Of course before Amatite came, the "smooth surfaced" roofings were the best kind to buy. Now that Amatite has been invented and thoroughly tested by years of use, painting a roof is en invented and unnecessary. The cost of painting a "rubbor" roofing from the roof of the roofing is buying Amatite nowadays. It needs no painting. Amatite is easy to lay. Anyone can do the work. Large headed nails and liquid cement come free with every roll.

We shall take pleasure in sending you a sample of Amatite with our compliments upon request. The Paterson Manufacturing Co. Ltd. TORONTO MONTREAL WINNIPEG



It is desirable to mention the name of this publication when writing to advertisers.

DOMINION SHOT SHELLS LOADED WITH

Dupont

"Infallible"

Safe, Reliable, Accurate

Dominion Ammunition

would n the retu ments e eggs onl GREAT There remainir stale. T stale. I pect to same pri

At

nees

Co-

Why

ducers farmer

grocery to 25, (during

city)?

make f

o more

better 1

ate one

all eggs

ent cen

from 20

A vi'lage omfort and

ity. Neither eggs remains several week disposed of ped into th No one is l dition; it is sumer is no for which h producer is but does not not change medy is sim remedy tively, we creeges on the f duce; we hav er in quantit best, to secu best markets.

> INCRE Not only w diate benefit creased price on the consur for his money future benefit

sumption; as, quality of any mand for that Why should seven and eigh unfinished con LS

ł.

n it

ig is

the ently

ator etail

POULTRY YARD

Co-operation of Poultrymen

A. P. Hillhouse, Brome Co., Que. Why not co-operate as poultry producers? Why should each individual farmer market his eggs at the village grocery, at a price varying from 15 to 25, or at the most 30 cents a dozen to 25, or at the most 30 cents a dozen (during a few less of winter scarcity)? For the reason that he doze to the control of t would make considerable difference in the returns from our poultry at the end of the year. By doing this, ship-ments can be made twice a week of eggs only three or four days old.

hogs and cattle, why not fatten our poultry? Unlike hogs and cattle. they are light in weight, and we canthey are light in weight, and we cannot make small shipments to best and distant markets individually, but we can co-operatively. Let the chickens can co-operatively. Let the chickens and all poultry be fatted on the farms, and all poultry be fatted on the farms, and brought in to the central shipping point, where they can be packed and graded. We must establish grades in all our poultry products, then there can be no question of difficults of the power or seller; the grade will be there to show for itself.

We will then be in a position, as an organization, to offer so many pounds or tons of poultry of a certain grade, which can be sold privately by the organization or by auction to

the organization or by auction to the highest bidder. Let us realize that the highest bidder. Let us realize that we are brother farmers, and what is in the interests of one is for the best interest of us all; and that, by improving the quality of any of our products, we are not only benefitting ourselves, but benefitting our country.

Head Lice on Chicks

eggs only three or four days old.

GREAT WASTE IN PRESENT SYSTEM.

There will be no waste from eggs
remaining at the farm until they get
stale. The village grocer does not expect to get fresh eggs, and pays the
same price for all, regardless of qualit is generally considered the danger F. C. Elford, Macdonald College, Que. of the chick resembles nothing so much as a new feather. The head of the louse is imbedded in the skin, and there it stops until the chick is dead, until some oil is applied to the

head.

How the lice work I do not know.

I always had the impression that they
I always had the impression that they
I always had the impression that they
I always had the blood, but as lice have
early biting mouths, they must get
only biting mouths, they must get
only biting mouths, they must get
always and it does not take many
days colear out a flock of young
chicked. The remedy is very simple
chicked and will be seen running
and the collaboration and the seen running
around, but soon somethers them;
as second application should be made
in five or us days time to catch any a second application should be made in five or six days' time to catch any that may have been missed. If the oil is not at hand take the reason of any kind. Coal oil will do the says, but if put on too heavy it will take the feathers, too, and possibly the chick, as well.

as well.

Even after getting rid of the lies
the chick may die, if not carefully
looked after. They may he become
so weakened that nothing to room
feed and nursing will bring them for
to normal conditions. Give them the
most appetizing mash that they will
sat. Clean and disinfect the housea and utensils.

es and utensils.

es and utensils.

Should any person be troubled with these head lice, it would be very much appreciated if they would send some specimens in a bottle or a chick some specimens in a bottle or a chick consolidate biology Department, Machania College, St. Anne de Bellevue, P.Q. to would not be wise to send the live chick too far, as it might be dead, and the lice escaped before it arrived.

OF SPECIAL VALUE TO FARMERS

Aside from its low cost, Powdrpain of mixing and applying can BY SELF AND HIRED MAN

done BY SELIF AND HIEED MAN at done BY SELIF AND HIEED MAN at done BY SELIF AND HIEED MAN at cent for extra help.

Judgment of the seligible seligible seligible seligible seligible seligible worth that it will pay greatest possible worth that it will pay every farmer handsomely to look about and study its uses carefully.

Judgment of the seligible seligi

THE UTILIZATION OF WOOD WASTE BY DISTILLATION

A general consideration of the NEW INDUSTRY, including a full description of the distilling apparatus control of the distilling apparatus on the products, irradiant of the products of the products of the product of the

WOOD WASTE DISTILLERIES CO. 213 to 217 St. Clair Ave., Cleveland, Ohio



This villager appreciates to the full the value of his flock A vilage poultry plant, somewhat cramped, but the hens have both grass and shade-something that is sometimes denied to hens on the farm to their great discomfort and to their owner's loss,

ity. Neither will there be waste from gegs remaining at the grocer's for several weeks monger, what cannot be disposed of locally being at last shipped into the citz, where they arrive, one half bad, and the other half state. On one is temply waste. The condition; it is simply waste. The condition is simply waste. The condition is producing the fresh eggs for which he is willing to pay; they have the producer is producing the fresh eggs, but does not market them fresh. Why not change this condition? The remedy is simple; individually, we canned the producer is the produce not change this condition? The remedy is simple; individually, we cannot remedy the situation; co-operatively, we can. We have the best
eggs on the farms it is possible to produce; we have only to get them together in quantity when they are at their
best, to secure and supply the very
best markets.

complaints caused from injurious feed-ing or unsanitary quarters, but it is frequently caused by head lice—lice that bore into the skin on top and at the sides of the head. The chick becomes mopy, its wings hang, it loses its appetite, its head takes that long, snake-like appearance, and in two or three days the bird dies, and the reason seems hard to find. So the reason seems hard to find. strety, we can. We have the best eggs on the farms it is possible to produce; we have only to get them together in quantity when they are at their best, to secure and supply the very best markets.

INCREASE CONSUMPTION.

INCREASE CONSUMPTION.

Not only will we realize the immediate benefit to ourselves from the indicate of the consumer by giving him was produced in the consumption; as, when we improve the quality of any food product, the equality of any food product, the equality of any food product, the quality of any food product, the quality of any food product, the equality of any food product, the quality of any food product, the quality of any food product, the consumption; as, when we improve the mander of the second of the consumption; as, when we improve the consumption; as, when we improve the consumption; as, when we improve the consumption; as we have the consumption; as we have the consumption in the consumer of the consumption in the consumer of the consumption is seen but the same reof the consumer of t

CRAND

FARM LABORERS EXCURSIONS

VIA CHICAGO, DULUTH and FORT FRANCES, of

\$10

GOING

\$18 Additional

AUG. 19 From all Stations north of Main Line Toronto to Saraia Tunnel, via
AUG. 23 Frankford, including Toronto-North Bay line and stations west in
From all stations, Renfere wand West.

AUG. 23 Frankford in Company of Saraia Tunnel, inclusive, via Stratford and all

AUC. 27 From all stations in Ontario, Toronto and east, and east of

SEPT. 7 From all stations in Ontario, Toronto-North Bay line and West. From all stations West of Renfrew.

SEPT. 10 From Stations, Toronto, Renfrew and East, and east of Orillia, See nearest Grand Trunk Agent for tickets and particulars regarding Transportation arrangements west of Winnipeg.

CANADIAN NATIONAL EXHIBITION - TORONTO

AUGUST 28th TO SEPTEMBER 11th

Full information from Grand Trunk Agents

SOME EXCELLENT PREMIUMS

Get a Copy of our New Premium List

Farm and Dairy has recently issued a new Premium Catalogue, in which illustrations and descriptions are given of a large number of useful premiums that will interest you. These premiums are not for sale but are being GIVEN AWAY. Full descriptions are given for securing any premium that may interest you. Write for a copy. Send us a post card, and one will be sent you by return mail. Address:

CIRCULATION DEPT.,: FARM AND DAIRY PETERBORO, ONT

sirable to mention the name of this publication when writing to advert

FARM AND DAIRY

AND RURAL HOME

Published by The Rural Publishing Company, Limited.



FARM AND DARRY is published every Thureday. It is the official organ of the Rivish Columbia, Maniroba, Essatern and Rivish Columbia, Maniroba, Essatern and Columbia, Carlotte Statern, and Jerus Breeders' Associations.

SUBSCIENT Preeders' Associations.

SUBSCIENT STATE OF THE S

No new subscribers.

3. REMITANCES should be made by Post Office or Money Order, or Registered Letter. Postage stamps accepted for amounts less than \$1.00. On all checks add 20 cents for exchange fee required at the banks.

the banks.

4. CHANGE OF ADDRESS. — When a change of address is ordered, both the old and new addresses must be given. old and new addresses must be given.

5. ADVERTISING RATES quoted on application. Copy received up to the Friday preceding the following week's issue.

6. WE INVITE FARMERS to write us on any agricultural topic. We are always pleased to receive practical articles.

CIRCULATON STATEMENT The paid subscriptions to Farm and airy exceed 7,300. The actual circulation Dairy exceed 7,300. The actual circulation of each issue, including copies of the paper sent subscribers who are but slightly in arrears, and sample copies, varies from 3,000 to 18,000 copies. No subscriptions are accepted at less than the full subscription are made to the full subscription are made of the full subscription are subscription are subscription and the full subscription are subscription and subscription are subscription are subscription and subscription are subscri

Sworn detailed statements of the circu-tion of the paper, showing its distribu-ion by countries and provinces, will be sailed free on request.

OUR PROTECTIVE POLICY

OUR PROTECTIVE POLICY
We want the readers of Farm and bairy want the readers of Farm and bairy want the readers of Farm and bairy want the readers of the re

FARM AND DAIRY PETERBORO, ONT.

OF VITAL INTEREST TO DAIRYMEN

Cattle infected with tuberculosis are more common than is imagined. Some infected animals show marked symptoms of the disease. But, as frequently, if not to a greater extent, tuberculosis lurks in the constitution of well fed, sleek looking animals. In this form it is difficult to detect. No one would think of buying a cow that gave evidence of being affected with tuberculosis. In buying the best looking animal in a herd, however, we are not insured against it being tuberculous. The percentage of rejected cattle that are tanked at large packing plants under Government inspection, not to mention the common occurrence of having to do away with emaciated cows in dairy herds, is evidence enough that we are well seeded down with tuberculous stock. In view of the common occurence of this disease, its dread nature and the loss that annually results from its ravages, dairymen may well give careful consideration to the article by Prof. Geo. E. Day, on the Bang system of

on page three of Farm and Dairy this week.

Whether or not it is advisable to adopt this system, is a matter that each dairyman must decide for himself. The method outlined is both expensive and inconvenient in its practice. Those having tuberculosis well marked in their herds can possibly find no more advantageous way of securing a healthy herd than by adopting the Bang system. It has proved successful in Denmark and in other countries and is being applied to a number of herds in Canada and in the United States. Any who have reason to suspect the

prevalence of tuberculosis in their herds and are so situated as to make the Bang system, or a modification of this system, applicable, will be gaining much time in applying it at their earliest opportunity. In view of the fact that bovine tuberculosis is generally conceded to be communicable to man and the general agitation that is under way seeking to have all herds providing milk or dairy products for human consumption, inspected, it would seem to be only a question of time when compulsory inspection will be law. Those taking time by the forelock and eradicating tuberculosis from their herds will be in good shape to withstand any inspection that may be asked, and save themselves from annual loss which is inseparable from this dreaded disease. As the system cannot be generally carried out without some encouragement from the State, the Minister of Agriculture, Hon. Sydney Fisher should give this system careful investigation and if found advisable encourage it with public money.

EDUCATION FOR THE FARMER'S BOY

The Ontario Agricultural College has been rapidly growing in public esteem. Besides the 40,000 farmers who annually visit the College and Experimental Farm, town and city people are being attracted to the place in large numbers from year to year. The course at the Guelph College is of great benefit to any one engaged in farming. It is broad and practical. The professors are unassuming and patient with boys who have not had good early training at school. Any boy with a love for farming and who wishes to improve his methods will receive much that will prove of value throughout life. The cost is reasonable. One can attend the Guelph College for a year for just half what it would cost to attend a university. As everything one learns can be put into practice on the farm when he returns home his outlay is soon recovered in increased earnings from the old farm.

How can the College help a young man? Suppose that he is going in for dairying or that his father already keeps a number of cows. The average cow produces something over 3,000 pounds of milk a year. In the college herd is one cow that produced 20,778 pounds in twelve months. Association with this cow and those who are feeding her would surely prove of handling tuberculous herds, appearing benefit to any dairyman. By seeing

just how she is handled, fed, watered, and milked, such should be a good education for any dairyman. Aside from this, there is the whole dairy department at the command of the student. He is taught to test milk, to score butter and cheese, to make butter and cheese if he chooses, and to study the relationship between the dairy business and other kinds of farming. While the College has been well attended, still only a small percentage of those who might take advantage of the course offered avail themselves of it. There is no reason why a thousand young men in the Province of Ontario should not take advantage of the splendid course offered at the Agricultural College, Guelph. It is hoped that many will send in their applications to the President before the course opens on September 14, 1909.

AFTER-HARVEST CULTIVATION

Land is cultivated in order that we may grow a crop and destroy weeds. This is the one thought that many of us have when we are at work in fall and spring. These objects are important. There are others that are equally important. By cultivation we conserve moisture. We make the soil in condition for the development of bacterial life that has the power of converting inert matter into available plant food. Striking proof of this is in evidence in the summer when we cultivate the corn crop. If a piece of ground that is free from weeds and in good condition is planted with corn, one half of which is cultivated every week until it is four feet high and the other half receives no cultivation after planting, the cultivated portion will yield two or three times as much per acre as that which received no cultivation. The cultivation conserves the moisture and allows the air to circulate through the soil, which makes conditions favorable for the development of bacterial life and enables them to convert the unavailable plant food into available food for

Many crops, such as grain crops, cannot be cultivated while growing. It is the more important that the soil for such should receive good cultivation during the summer or fall previous. The earlier that land can be cultivated, after the crop has been removed, the better. Land that is intended for spring grains should be cultivated during the fall and left in the best possible shape to receive all the pulverizing influences of the frost.

CONCRETE ON THE FARM

Portland cement concrete, nlthough recognized as an ideal building material for heavy wor's, has not been given the attention that it merits in the smaller constructions about the home and on the farm. More active interest, however, is being taken in this subject and year by year we find concrete coming into more general favor for farm construction work. The ever increasing price of lumber has had much to do with bringing concrete into more general favor. The cost

of masonry work and the difficulty of getting it done has also led many to take advantage of cement.

The moderate cost, durability and beauty of cement work should bring it more rapidly into favor. Its uses on the farm are varied. Few realize the great diversity of its use. Mention might be made of it as a flooring material. There it is par excellence. It should be the only material for stable floors. For fence posts hitching posts, water troughs, hog troughs, tanks, walls, walks, steps and stairs, cisterns, well curbs, culverts, bridges and other innumerable uses, concrete may well be taken into consideration. Many farms can be much improved by installing cement work. Prices being low, needed improvements should be installed at the earliest opportunity.

Good Roads at the Farm Gate

(The Toronto World)

Close up the country roads and the great carrying systems, railroads and steamships would suffer in consequence. Great civilizations have prospered without railroads, but never without good country roads. The national exchange of commodities is curtailed just to the extent that the free movement of internal traffic is curtailed by bad roads. The counties where good roads are the rule are those where farmers live in large homes, where windmills tower above big bank barns, and where modern machinery sows or reaps the harvest. The advanced farmer to-day is the one who asks the candidate for the council: "What is your policy with respect to good roads in this county?"

Three thousand miles of modern leading highways are being built in Ontario or projected under the Good Roads Act by which one-third the cost is borne by the provincial government. This is only a start in the general plan of road improvement, but it is a happy augury for the future. The farmer who drives over fine macadam roadbeds becomes a missionary in spreading the good roads gospel. Ontario seems to be ready for another step in advance. The whole system of leading roads within the province should be taken over by the central administration and made permanent under expert direction.

From these leading highways the counties should co-operate under instruction from the central administration in building the principal feeders to the main roads along scientific lines. No blessing that civilization may bring to the farmer can compare with good roads. He can help by voice and vote in bringing that blessing to his own farm gate.

A Menace to Agriculture (The Toronto Globe.)

On Friday last before Magistrate Denison an old-established seed house in Toronto pleaded guilty on three charges of selling foul seeds to local dealers in Ontario towns. One sample of alsike clover offered for sale on being analyzed was found to contain nine noxious weeds per one thousand good seeds. Alsike seed of

the legs 3,400 w farmer acre wo soil mor a sampl ious we seeds th 28,000 v seeds ar and high When a seeds lik de, on e

Aug

The of partment strenuous ers again seedsmen may be so they can generous trol act." are still b tributed. a trifling large num in clover a grain is 1 ece to Car

he is tak

Resesse Crean Butter Ma tions to this matters relat sest subjects letters to the ***** Home

Hy. Glendi Some con butter maki the creamer; butter on t ery, may no equipment w 25 cows bred duction. But twice a week creamery pr for running churn. This bor of butte the average satisfactory. The reader

the creamery for the change of cream obta of time ing the butte butter maker. The feeding system. system. In ca three times a hauls it to th poses of the cr ducer is concer better from the but the labor a In additio making up the shipping boxes, way station an charges, considerable am

Under year. there is no wo with the cream farm. A cheque month in paym There are oth nection with th 909

ifficulty

l many

ty and bring

ts uses

realize

Men floor

excel

mate e post

s, hog

ps and lverts

uses

muel

work

prove-

e ear

Gate

d the

ls and

conse

pros

never

e nat-

curfree

tailed where

those mes bank

inery

ad-

ncil:

ct to

dern t in bood cost ent. рру oadeadario o in

eadbluc nisthe

tranay ith ice

te

the legal standard may contain nearly 3,400 weed seeds to the pound, and a farmer sowing four pounds to the acre would deliberately plant in his soil more than 15,500 weeds, but when a sample of seed contains nine noxious weeds per one thousand good seeds the farmer plants more than 28,000 weeds in each acre. Wead seeds are notorious for their vitality and high percentage of germination. When a farmer sows 28,000 weel seeds like the night-flowering catchds, on each acre of his meadow land he is taking a short cut to ruin.

The officials of the pominion Dapartment of Agriculture are making strenuous efforts to protect the farmers against unscrupulous or careless seedsmen that clean seeds only may be sown, but in spite of all that they can do, and notwithstanding the generous provisions of the "seed control act," the seeds of noxious weeds are still being rapidly and widely histributed. Weed control is no longer a trifling matter. The presence of a large number of noxious weed seeds in clover and grass seeds and in seed grain is now recognized as a menace to Canadian agriculture.

Creamery Department
Butter Makers are invited to send contributions to this department, to ask questions on
matter relating to butter making and to sugmatter state for discussion. Address your
letters to the for discussion. K------

Home Buttermaking vs. Creameries

Hy. Glendinning, Ontario Co., Ont.

Some comparisons between home butter making and sending cream to the creamery, from one who has made butter on the farm for many years and then changed over to the creamery, may not be out of place.

Gry, may not be out of place, our comparison of the control of the con Hy. Glendinning, Ontario Co., Ont.

for the herd, feed consumed and moor employed.

The reader will ask why change to the creamery? The principle cause for the change was labor. The amount of cream of one person for a good deal of time aring for and making the butter. There was not work enough to pay the hire of an expert butter maker.

that used for domestic shipment. The reactions pay the hire of an expert butter milk from the same for either system. In the creamery the cream is taken from the creamery the cream is taken from the creamery. The first three times a week by the foct tank posses of the creament. The returns were better from the butter made at home, but the labor and expense were greater. In addition to the churning and production of the churning and production of the creamery in which the labor and expense were greater. In addition to the churning and production of the churning and production of the control of the co

ing butter on the farm. On the average farm there is not enough butter made weekly to command the highest price on the city market. The butter made in the creamer is made of uniform quality by as expert, and in large quantities, so that advantage can be taken of register to distant markets. There is enough to make the pay a man whose business is to keep in close touch with the markets and thus be enabled to secure the best price.

thus be enabled to secure the best price.

In many sections where farmers make butter for sale they are compelled to trade it at the country store for groceries and for other articles of merchands of sa rule the country storekeeper does not discriminate as to price between butter of good and poor quality. The good butter maker is compelled to take the same price as that offered to take the same price as that offered as price is concerned to make an article of superior quality. In regard those who make butter at home and each of the poor maker. There is no incentive said, it is fouthful if they are not out of pocked in the poor make and article of superior quality. In regard those who make butter at home and sellon the local markets for cash, it is fouthful if they are not out of pocked in the poor can be considered to the poor make and the poor the poor make and the poor the poor that they are not out of pocked in the poor that if they place any value upon the half day lost attending the market, providing they are within reach of a reason of the poor that they are within reach of a poor that they are they are within reach of a poor that they are they

creamery, it all these who make butter at home were to send their cream to the creamery and have it made into butter, there would be a decided advantage and profit to all. The greater the amount made the less with the continuous made the less who the creamery in order that the work of buttermaking may be lifted from the women of the house who too frequently have too much to do aside from buttermaking.

Condensed Milk Market in Japan

Condensed Whik Market in Japan

The imports of condensed milk into a span is increasing rapidly, but for a span season or other, Canada has shared the span of the span shared the span of the span shared the span of milk has been handled by a first for the span of the sp



KEEP

If you use the Reliable

DeLaval Cream Separator

You will have No Reason to Get Hot

CATALOGUE FREE

THE DE LAVAL SEPARATOR

173-177 William St. MONTREAL

WINNIPEG

VANCOUVER

OUR STOCK WATER-BOWLS Are made specially to go with these STANCHIONS. All up-to-date Dairymen use them and would not have any others. Send to-day for our Special Direct to YOU, offer our Special Di and Catalogue.

THE STEEL TROUGH & MACHINE CO., Limited, TWEED.

they must subscribe funds for the cream of a suitable building and for other purposes; and their committee must become responsible for the performance of certain duties, in the subscribe haulage of cream from the farms. The haulage of cream from the farms of the performance of certain duties, in the subscription of the performance of certain duties, in the subscription of the performance of cream from the farms of the content of the farms of the certain of the farms of the content HANDS, ours See the difference?

**************** Cheese Department

masers are layrice to see successions on matters this department, to ask questions on matters or relating to cheesemaking and to suggest subjects for discussion. Address your letters to the Cheese Maker's Department.

Pine Grove Factory

The Pine Grove cheese factory near Lakefield, Peterboro Co., Ont., the cool curing room in connection with which was illustrated and described

Lakefield, Peterboro Co., Drit., the cool curing room in connection with which was illustrated and diffusion in Farm and Dairy August Stiffer in Farm and Dairy August Stiffer in Lakeful Peter and Park August Stiffer in Lakeful Peter and Peter and Park Peter and Pete

"We are experiencing a very good season," continued Mr. Little. "The milk flow is not as large as in some years, but we get all we can handle." Mr. Little owns the Pine Grove fac-Mr. Little owns the Pine Grove fac-tory and gets 1½ cents a pound for making. He pays 35 cents a stand-ard (3000 lbs.) for the whey, the farmers having the privilege of buy-ing it back if they choos. "Ordinari-ly, I feed a large number of pigs each year," said Mr. Little. "Phis year it has been impossible to get to get

pigs and they cannot make use of the whey either. Last spring, I did sonting Jas. Alexander & Co.; W. J. not get many pigs, thinking that the farmers would want all the whey. It Burkitt, salesman for Maple Leas turned out that they had no pigs and hence cannot use it. At present, I have only 35 pigs, whereas in former years it was common to have 200 or 300 at one time."

Mistake with Little has had an experience with home made cheese acceptable with the made cheese boxes. Owing to the high price asked,



Members of the Stirling. Ont., Cheese Board through Whose Agency Lirge Quantities of Cheese are Disposed of. The Striling Cheese Board ranks well up with other boards in the best districts of Eastern Ontario. Striling is noted as a condition of the officiently managed and well equipped factories. The district is noted as a "White section, on this board. An editorial representative of Farm and Dairy speech at one of the and Dairy. For those in the illustration, see elsewhere on this page.

pigs, and as a result we have had to waste often as much as 40 bar-rels of whey a day. Over a third of our whey this season has gone to waste. The farmers have very few

have of barrial before the season opened, for boxes laid down at the factory, Mr. Little third thought it would be worth while to make the boxes himself. They cost few in 10 cents in the rough. All told, considering the trouble of making met to making a mistake that them, not to mention a mistake that was made in getting them too small, Mr. Little has concluded that it would air. Little has concluded that it would have been well to have purchased the boxes already made. The hoops used in the Pine Grove factory are only 14½ inches. They will hold 80 pounds of curd but when filled to their capacity. capacity, they are too high for his boxes, hence it has been necessary boxes, hence it has been necessary this season to make the cheese from 72 to 74 lbs. in order that they may fit the boxes on hand. Mr. Little 72 to 74 lbs. in order that they may fit the boxes on hand Mr. Little was well aware of the disadvantages of making small cheese owing to the danger of them being classed, by deal-ers on the other side, as Quebber's.

As soon as the season ends, will

As soon as the season ends, the resent make-room at this factory will present make-room at this factory will be taken down and a new one of cement blocks erected. A large num-ber of cement blocks made on the ground in spare time are already available to rush up the new make-room at the close of the season. Part of the foundation for the new build. of the foundation for the new building is already made, being built of cement also. The new room is to be cement also.
43 x 30 feet.

Members of Stirling Cheese Board

While present at one of the regu-lar meetings of the Stirling Cheese Board recently an editorial repre-sentative of Farm and Dairy had the

board recently an entermal representative of Farm and Dairy had the photo reproduced on this page taken especially for Farm and Dairy.

Those shown in the illustration are: Front row, from left to right, Messrs.

Robt. Lanigan, salesman for Everland Front row, from left to right, Messrs.

Robt. Lanigan, salesman for Everland Front row, from left to right, Messrs.

Robt. Lanigan, salesman for Everland Front row, from left to right, Messrs.

Robt. Lanigan, salesman for Everland Front row, from left to right, Messrs.

Robt. Lanigan, salesman for Everland Front Front

oxes Cook, of W. S. Cooke & Son, Belle-

Dairy Conditions in Ontario G. A. Putnam, Director of Dairy In-struction, Toronto.

From the second consensus report from the Dairy Instructors and Instructors and Instructors and Instructors of the Ontario Department of Account of the Ontario Department of Account of the Ontario Department of Account of the Ontario Department of the

tors report that the general crops, such as oats, corn, etc., are from an average to a very good yield, but the hay crop is recorded pretty generally to be short, and in some cases to be as low as ½ to ½ of the average. While the Instructors report that there is still a great deal of opposition on the part of some of the brusters that the state of the strain of the state of t ers to take suggestions for improving the standard of the cheese and but-ter industry, still they at the same time report a decided improvement in

Inaccurate thermometers may be the cause of defects in butter as they may vary from 5 to 10 degrees from the correct temperature. When buying a new thermometer compare it with one known to be correct before using it for cream ripening and the correct before th

ATTENTION!

Cheese Manufacturers





Fig. 2

We are placing on the market a new cheese box which eliminates all the undesirable features of the old-style package.

This box is made of three pieces of veneer, with the grain running from top to bottom. It also has the advantage of a hoop placed near the top as shown in fig. 2, thus making it very strong and durable. In fact it is impossible to break it with ordinary handling. Every box is guaranteed, and any breakages will be replaced.

This box can be shipped in crates in knock-down shape, thus affecting a large saving in transportation charges.

For full information regarding prices, deliveries, its advantages, etc., write

Toronto Boxbarrel Co.

43 Yonge Street Arcade

TORONTO

It is desirable to mention the name of this publication when writing to advertisers

Augus

SYNOPSIS
consists of M
children. Pe
children. Pe
the mainstay
Mrs. Burton
is the idol of
pet theories :
frs. Francis'
frs. Francis'
frs. Francis'
Mrs. McGuite,
Mr. Watson.
Mr. Motherwe
fit of generosi
addition to tt
After much di
Motherwell, a
brought up t
however, invit
such "foolishn
such "foolishn

CE Tom's DEARL wa Tom's a after the

had seen Edy sleepy and sor e went to His moth ed him. His looked s it did that n hearty welcom motherly smile and kindly wa with his own he "It's dead e

boys to be sma thought bitterly right up to it. much money, b they have. Geo off to college so fun in the city fun in the city all the time, ri-cars, and with n The trees on t he had made his fore was beginn proach of autum been no frost. against

more hardy neightheir coin-like will as he drove way to the hayfi The sun had rigiving to every facing of gold, shot up into the heaven.

There is no he hushed and bear morning, when fresh from the hanew page, clean and the angel "Write!" and nor refuse to obey.





"F you will call your 'troubles' 'experience,' and remember that every experience develops some latent force within you, you will grow vigorous and happy, however adverse your circumstances may seem to be."



Sowing Seeds in Danny

By Nellie L. McClung ALL RIGHTS RESERVED (Continued from last week)

Continued from last week)

(Continued from last week)

(Co

CHAPTER XX.

Tom's New Viewpoint.

Tom's New Viewpoint.

PEARL was quite disappointed in fom's appearance the morning after the party. Egbert also were a glorinde countenance after he had seen Edythe, but Tom looked steepy and somewhat cross annoy. His mother's morseness annoy. His mother's morseness annoy will be a supported by the support of the suppor

dieeds and kindly words that we write upon it in letters of gold, or it may be that we blot and with the vil thoughts and stain it with worthy actions, but write we musure.

The demon of discontent laid hold are the morning as he worked

worthy actions, but write we must!

The demon of discontent laid hold on Tom that morning as he worked good are present in the heart, and

It was the first glimmering of man-hood that was stirring in Tom's heart that morning, are new inde-pendence, the new individualism.

hood that was stirring in Tom's hood that was stirring in the heat that morning, we new independence, the new individualism. Before this he had accepted all his father or mother had done without questions. Only once before had he provided them. It was several years before. A man named Skinner had bought for the heat of heat of the heat of t

painfully.

He looked at the young Englishman who was loading hay on the rack, with a sudden impulse, but Arthur was wrapped in his own mask of insular reserve, and saw nothing of the storm that was sweeping over the body soul. boy's soul.

OUR NEW PREMIUM CATALOGUE

We have just issued a new premium catalogue which will interest you. More than 100 splendid premiums are listed in this catalogue. It is illustrated, and full descriptions are given of the various premiums. Write for a copy. You will be surprised when you see the splendid articles we are giving away. Send us a postal card and the catalogue will be sent you by return mail. It is also the property of the send of the property of the send of the when you see the splendid articles we are giving away. Send us

petty meanness that he had been so carefully taught.

The first evening that Tom went into the bar-room of the Millford hotel he was given a royal welcome. They were a jolly crowd. They knew how to enjoy life, Tom told himself. What's the good of money if you can't have a little fun with it?

Tom had never had much money of his own, he had never needed it of thought anything acoust it. Now the production of the control of

CHAPTER XXI.

A Crack in the Granite.

While Pearl was writing her experiences in her little red book, Mr. and Mrs. Motherwell were in the kitchen below reading a letter which Mr. Motherwell had just brought home from the post office. It read as follows:

Brandon Hospital, August 10th.

Dear Mr. and Mrs. Motherwell: I
know it will be at least some slight
comfort for you is know that the
comfort for you is know that the
comfort for you is know that the
poppies you sent Polly reached her in
time to be the very greatest comfort
to her. Her joy at sent second have
been your reward if yould have
been your reward if yould have
seen it, and although she and been
delirious up to that time for several
days, the sight of the poppies seemed
to call her mind back. She was a
very peacefully and happily at day
very peacefully and happily at day
very fond of her, and I am sure you
did, too.

May God abundantly bless you, dear
Mr. and Mrs. Motherwell, for your
kind thoughtfulness to this poor ionely girl.

'Inammich as ve have done it unto BRANDON HOSPITAL, AUGUST 10th.

ly girl.
"Inasmuch as ye have done it unto the least of these, ye have done it unto Me."

Yours cordially, (Nurse) Agnes Hunz

"By Jinks."
Sam Motherwell took the letter from his wife's hand and excitedly read it over to himself, read it over to himself, the transparent of the seal, he looked at the stanp and the seal, he looked at the stamp and railing to find any clust to the mystery he ejaculated again:

and any citie to the mystery he ejac-ulated again.

"By Jinks! What the deuce is this about poppies. Is that them things she sowed out there?"
His wife nodded.

"Well, who do you suppose sent them? Who would ever tunk of send-ing them?"

right up to it. They may not nave much money, but look at the fun they have. George and Fred will be off to college soon, and it must be fun in the city—they're dressed up all the time, ridin' round on street-cars, and with no chores to do."

The trees on the poplar bluff where had been considered and made his toilet the evening before was beginning to show the appear of autumn, although there had been colored grainst the green of their more happears of autumn, although there had been colored will as he drove as a green of autumn, although there had been the hafeld. He was a splace to sleep in, the same and the interest of the saw around him everywhere the saw around him everywhere that he was to the hafeld. He have done and more there is no hour in the day stated up to the been the hard of God. It is fact that the saw around him every were that he had on the saw as ind and beautiful as the early hushed and head the huse of the had it is not the business of the proper of the property of the saw around him everywhere that he was a single property of the saw around him everywhere the hushed every year, and none to the wind the saw as kind and none there who may around the huse of the property of the saw around him everywhere the poplar of the property of the saw around him everywhere the property of

Bella

ario

1000.

ole Leaf Ge

sh, pat-Sarles, ingston West tirling: l Bank,

y Inthat have etter ntity

pelow the year, tion ning

909. rue-

back to her, now how through it all | Messessessessessessessess until the blow fell, the ramb had

until the blow fell, the namb had stood wondering, pleading, yet unfinching, and she had run sobbing away—and now Polly was dead—and those big eyes she had so often seen tearful, yet smiling, were closed and their tears forever when were dead to the tears forever when we will be seen to be a supported by the seen to be supported by the room:

Over my grave keep the green willers

growing.
The yellow harvest moon flooded room with its soft light. She could see through the window how it lay like a mantle on the silect fields. It was one of those glorious, cloud-less nights, with a hint of frost in the air that come just as the grain is ripening. From some place down the creek a dog barked; once in a while a cow-bell stinkled; a horse while a cow-bell stinkled; a horse through the window. The mystery of life and death and growing things was around her. As for man his of the and death and growing things was around her. As for man his days are as grass; as a flower of the field so he flourisheth—for it is soon cut off and we fly away—fly away where?—where?—her head throbbed with the question.

The eastern sky flushed red with

morning, a little ripple came over the grain. She watched it listlessly. Polly grain. She watched it listlessly. Polly had died at daybreak—didn't the letter say? Just like that, the light rising redder and redder, the stars disappearing, she wondered duly to herself how often she would see the light coming like this, and yet, and then what?

then what?
We shall be where suns are not,
A far serener clime.
came to her memory she knew not
from whence. But she shuddered at from whence. But she shuddered at it. Polly's eyes, dazed, pleading like the lamb's, rose before her; or was it that Other Face, tender, thorn-crowned, that had been looking upon the lamb of the lam her in love all these long years.

She spoke so kindly to Pearl when

she spoke so kindly to Pearl when she went into the kitchen that the little girl looked up apprehensively. "Are ye not well, ma'am?" she ask-ed quickly. Mrs. Motherwell hesitated.

Mrs. Motherwell hesitated.
"I did not sleep very well," she "I did no... said at last.

"That's the mortgage," Pearl thought to herself.
"And when I did sleep, I had such dreadful dreams." Mrs. Motherwell went on, strangely communicative. "That looks more like the cancer."
Pear thought as she stirred the por-

Pear through ridge.
"We got bad news," Mrs. Motherwell said. "Polly is dead."
Pearl stopped stirring the porridge.
"When did she die?" she asked

Pearl stopped stirring the porridge "When did she die?" she asked asked

"When did she die?" she asked eagerly.
"The morning before yesterday morning, about daylight."
Pearl made a rapid calculation, "Oh, good!" she cried, "goody— goody—goody! They were in time."

She saw her mistake in a moment, and hastily put her hand over her mouth as if to prevent the unruly member from further indiscretions. She stirred the porridge vigorously, while her cheeks burned "Yes, they were," Mrs .Motherwell

said quietly.

(To be continued next week.)

NEW PREMIUM LIST .- Write for copy of our new premium list. it that you will want to secure this summer. Premiums for everyone and for any number of subscriptions. Send for this list to-day.

The Upward Look

#. Lay not up for yourselves treasures pon earth where moth and rust doth corrupt, and where thieves break through and steal. But lay up for yourselves treasures in Heaven, where neither moth nor rust doth corrupt, and where thieves do not break through nor steal. For where your treasure is there will your heart be also.—Matt. vi: 19, 20, 21.

Many people are making failures of Many people are making failures of their lives because they are allowing themselves to be governed by false ideals. They are aiming at wrong marks. Even should they gain what they most desire they will realize sooner or later how vain have been their efforts. It is a terrible though that many of them will never realize that many of them will never realize and it will be too late for the most make amends on this earth for their mistakes. Some, even, will be like make amends on this earth for their mistakes. Some, even, will be like the rich man (Luke 12:16-20) whose land brought forth plentifully and who decided to take his ease and drink and be merry, but that night God required his soul.

The great mistake many of us make is that we confuse the secondary with the essential. We fail to realize that more important to us what we han what we possess. We are so are than what we possess. We are so eager to increase our means, to gain wealth or power or social rank or tinction that we are apt to forget the far more important obligation that rests on each of us to develop cur characters aright. No matter how characters aright. No matter how costly a frame we may put around a picture, no matter how fine a light we may hang it in, if the picture is poor, its settings will not make it a masterpiece. It will be a mere counterfeit. So it is with us. If we are not strong morally and spiritually, wealth or fame will ruin, not help us. It will make us proud and selfish and It will make us proud and selfish and

will make us product and us into sin.

Charles Wagner, in his book, The charles Life, says: "The greatest lack Charles wagher, in his boos, Simple Life, says: "The greatest lack is that want of discernment which leads men to ground their pride in their fortune. It is a childish confusion of thought to consider wealth as a personal quality. Do not confound what you possess with what you are. The man who finds his satisfaction in things which you are. The man who finds his satisfaction in things which glitter and holds his eyes, is lost, and easily succumbs to the temptation to live himself for appearances. It is an

Farm Photos for All

Secure this Camera

FREE OF COST

What boy or girl would not like to ave a camera of their own this sum-aer. Here is a chance te get one free f cost. This roll film camera, fixed cous box type, taking pictures 2½ in. 3½ in will be sent you free of cost

What boy or girl would not like to have a camera of their own this summer. Here is a chance to get one free of cost. This roll film gamera, fixed focus box type, taking pletures ½ in. for securing a citud or ONLY FOUR NEW SUBSCRIPTIONS to Farm and Dairy at \$1.00 each. Write for some sample copies and get some of the same of the company of the compan

For further particulars and sample copies write to:

Circulation Department,

FARM AND DAIRY PETERBORO, ONT.

error to think that our advantages, whatever they are, should be put to the service of our vanity. Material wealth, power, knowledge, gifts of the heart and mind, become so much cause for discord when they serve to cause for discord when they serve to nourish pride. Most people, rich and poor alike, imagine that in opulence one has nothing to do but to take life easily. That is why so few men know how to be rich. In the hands of too how to be rich. In the hands of too many, wealth, according to the genial and redoubtable comparison of Luth-er, is like a harp in the hands of an ass. They have no idea of the man-ner of its use. Possession then, is less a privilege of which to be proud than a charge whose gravity should be felt."

Our Lord recognized all this when He gave utterance to the words of our text. He has told us, also, that some day we will have to give an acsome day we will have to give an ac-counting of all that we possess, in-cluding the use made of it. We should be very, very careful, there-fore, that our aim in life is one that will be pleasing to God, and that we are using aright what means and talents we have, even if they be only very humble.—I. H. N.

Canning of Vegetables

The first step in successful canning is the selection and preparation of the vegetables. Never attempt to can a vegetable that has matured and comenced to harden or one that Never attempt to can any begun to decay. As a general rule young vegetables are superior in flav or and texture to the more mature ones. This is especially true of string beans, okra, and asparagus. Vegetables are better if gathered in the early morning while the dew is still on them. If it is impossible to can them immediately, do not allow them to wither, but put them in cold water to wither, our put them in cold water or in a cold, damp place and keep them crisp until you are ready for them. Do your canning in a well-swept and well-dusted room. This will tend to reduce the number of spores floating about and lessen the chances of incombatics. of inoculation.

TOWATORS

Every housewife knows how to can tomatoes. They are very easily ke even in the common screw-top Mas jar. If one already has on hand number of jars of this pattern, it They are very easily kept. number of jars of this pattern, it is best to use them for preserves or for canning tomatoes and to purchase the canning tomatees and to purchase the more medern style for canning other vegetables. In using the Mason jars be careful to sterlize them first by placing in cold water, bringing to a boil, and boiling for about ten min-utes. The rubber and top should also be immersed in boiling water for the same length of time. same length of time. Remove them from the boiling water when needed, handling as little as possible. needed, handling as little as possible. Be careful not to put the finger on the inside of the top or the inner edge of the rubber. Fill the jar with the cooked tomatoes, while steaming hot, put on the rubber, screw on the top firmly, invert it, and let it stand in that position until cool.

LIMA BEANS

Lima beens loss their flavor very quickly after being shelled, therefore it is necessary to can them as soon as possible after gathering. Discarda all pods that have begun to harden, and proceed as you would with corn.

PUMPKIN OR WINTER SOUASH If previded with a warm, dry cellar

If previded with a warm, dry ceitar-one may keep certain varieties of these vegetables all winter. Some of the best varieties, however, do not keep well, and even the best keepers when not properly housed begin to decay in December or January. Its is then necessary to can the order to save them. I has a limited number of jars, can them in nem. If one it is a as a limited number or jars, it is a good plan to fill them all with other vegetables during the summer and upon the approach of frost to gather the pumpkirs and bring them indoors. By the time the pumpkins begin to spoil, enough jars will be emp-tied to hold them. They can now be steamed and canned in the same way as summer squash.

These directions for canning apply only to pint and quart jars. If half-gallon jars are used, always increases the time of boiling, making it an hour and a half instead of one hour.

and a half instead of one hour.

Do not go into canning too deeply
at first. Experiment with a few jars
in the early part of the season and
see if they keep well. It is not a
difficult natter to can vegetables
properly. The writer has never lost
a can of string beans, okra, eggplant,
carreds, tarsuins, lima hauss, bear carrots, parsnips, lima beans, beets asparagus or pumpkin in several years' experience, and has had only one can of peas spoil, a few cans of corn during the earlier trials, and a few cans of succotash. Any house wife can do equally well. If you follow the directions here given carefully, you will have no difficulty whatever. If you should happen to fail in the first trial, rest assured that you have done something wrong or left something undene. No housewife who has on hand during the winter a supply of home-canned vegetables ready to serve on ten minutes' notice ever regret the trouble or difficulties experienced in learning. ...

Mothers, Take Time to Rest

A young lady not long ago was relating an amusing experience which everyone present seemed to enter into and enjoy but her mother, and apparent-ly she was paying no attention at all

enjoy but her mother, and apparently she was paying no attention at all to anything around her, for just at the most interesting point, in a listless tired tone she said:
"Daughter, don't talk so loud; I nave the headache." Then noticing have the headache." Then noticing have the headache." Then noticing with a pologetically added, "Remember mamma is getting old." Her daughter, burt at her mother's lack of interest and provoked at the interruption, replied sarcastically, "and it's a pity for a girl to have as old a mother as you are."
While I did not approve of my young friend's hasty retort, yet I could feel sorry for her. True, it is a pity for a girl full of life and estuberance of spirits to nave a mother action of the provided of the press, but so aged with told and the press, but so aged with told and the possible of the policy of the product of the provided the press.

exuberance or spirits to may a witer, not old in years, but so aged wit toil and care as not to appreciate ber society or to enter into her girlish plans and sports.

Mothers, do be wise and take time to rest. Train your caudren to be thoughtful of you and wait on themselves. Don't allow them to lay you on the shelf and regard you as "a back number." Keep a pace with the times, read, dress, etc. You will thus number." Keep a pace with the times, read, dress, etc. You will thus be happier yourself and make those around you happier. Try it.



8000 V Do y vestme ed vita

A

(

Hees

Peop a vacat get stu power ose fre grasp they lo vacation days ar Recre held ele time, is soil by light ar forces th the win ant to vacation opment. one-sided

I have others, h ally, but "Aunt F others? same reas sending Man" has giving us and "The

WIND

kins be-be emp-now be me way

g apply an hour

deeply ew jars on and not a getables wer lost gplant, beets, several cans and a house-

n care fail in at you or left ife who nter a notice r diffi-

Rest Was re to and at all a list-

oud: I oticing emark, antry, nember daugh of in-errup-id it's old a

of my yet I ue, it e and moth-l with girlish time

to be the I thus

1909.

Vacation as a Developer Do you think a vacation is a loss of time? It is the best kind of an in-vestment—an investment in fresh brains in vigorous health, in increas-

OUR HOME CLUB

vestment—an investment in fresh brains in vigorous health, in increased vitality.

People who seldom or never take a vacation get into ruts. Their minds get stuffy and clouded; they lose the power of expansion, of growth; they lose freshness of view; the ability to grasp opportunities; and, finally they lose their grip on things and on themselves. People who take no on themselves. People who take no on vacation lose the rhythm of life. Their days are all monotonous work.

Recreation, for those who have been held closely to business for a long time, is like the turning up of hard soil by the plow, letting in the sun-light and stirring up the chemical fight and stirring up the chemical free that have been sleeping during the winds of the control of a well-balanced life as work. A vacation helps to balance our powers to give us the proposed to give the proposed to

second second little letter which has called me to little letter which has called me to arouse from my idleness and write. There is something pathetic in the stitude he takes; he wants a word or praise and rightly so. The other damp boy said, ("He was grating damp and I romarked, "You handle those and I romarked, "You handle those has and I romarked, "You handle those has been without the property of the property

shment (corporal punishment) should be ever inflicted is when the child disobeys.

disoleys.

Jisoleys.

Boys should not be paid for every little task they perform, but where the work is done well them know. There is "something in them know. There is "something in the property of the prop

one is a mere symmetrical development. It keeps us from becoming one-sided. It improves our judgment.

"The Daughter."

FRAISE OUR BOYS.

I have watched with interest the Home Club during a short period to the Home Club during a short period to a could be should be at a form of the should be at middle life a broken wife when she should be at Drime, we also ourselves the cause, The amount and cheers? Surely they have not the some reasonable reason I have for not become the should be at the period of the should be at the should be at the period of the should be at the should be at the period of the should be at the should b

and cakes popular. In its place we have the higher thinking and lighter living, for instance broad and butter living, for instance broad and butter and fresh fruit, instead of rubbing the butter into the flour and putting the sweetened fruit inside. The housewife sitting down to such a head of the boiling sun.

Some progressive farmers now eat their heavy meal at five o'clock, when the day's work is nearly over, so they may rest quietly and digest their food.

We would like to hear from the farmers and their wives, some plans of simple living and also menus for the hot weather on the farm.—"The Pastor's Wife."

THE COOK'S CORNER

Send in your avortice recipes, for publication in the source continuation of the pertaining to cooking me. Inquiries will be replied to, as soon as possible sent res for same. Our Cook Book sent res for same our Cook Book sent resort, and the sent resort of th

Warm Weather Dainties

LEMON SHERBET

To 1 tablesp gelatine add 1 10 1 tablesp gelatine add 1 qt water, I pt sugar and juice of 6 lem-ons. Soak the gelatine in a little of the water 10 minutes, heat the re-mainder of the water to boiling, and dissolve the gelatine in it. Add sugar and lemon juice and freeze.

PALATABLE ICES.

Mix juices of 4 large lemons and 1 prange, 1 pt sugar and 1 qt water.

To make Pomona ice take 1 cup or-ange juice, 1 pt new cider and 1 cup sugar. Freeze.

FROZEN DESSERTS.

1 pt of berries or peaches cut fine added to a pint of ordinary ice cream while freezing makes a delicious fruit

while freezing makes a delicious fruit ice cream.
Get the best ripe bananas you can find, peel, mash the pulp and to each cup of pulp add a pt of whipped cream and sugar to taste. Freeze.
Dried fruits should be soaked over night before cooking. They can be washed much cleaner and are much soaked, fresher and nicer in every way.

DATE DUMPLINGS.

One pint of flour, half a tenapoun-ful of salt, two tenapounful of baking powder, sifted together all with a cupful of cream. To this cupful of flour, mice dates and drop by spoonfuls on a buttered plate. Cook in an ordinary steamer over boiling water. Serve hot with a rich sauce.

FROZEN TOMATO SALAD.

PROJECT FOUNTO SALAD.

Peel and chop eight fine ripe tomatoes; season with a little salt, pepper and sugar drives drops of onion; juice; the salt of the salt, pepper and sugar freezer and
freeze. Fill a moleon and receive and
freeze. Fill a moleon and and let
is stand for several hour is stand for several hour
Serve on a bed of white celery leave.
Serve on a bed of white celery leave,
garnished with olives, with mounds
of thick dressing dotted over it.

... Renew Your Subscription Now. ******* The Sewing Room

Patterns 10 each. Order by number and size. If for children, give age; for a size of the s Patterns 10 each. Order by number and size. If for children, give age; for adults, give bust measure for waists, and waist measure for skirts. Address all orders to the Pattern Department.

NAVY BLOUSE 6396



The blouse is made with front and back with front and back opening is a short opening in a short opening is a short opening in The blouse is m

without openings.

The quantity of material required for the medium size is 3% yds 27, 2% yds 32 or 44 in wide with ½ yd 27 for collar and

culfs.

The pattern 6396 is cut in sizes for a 32, 34, 36, 38 and 40 in bust measure, and will be mailed to any address on receipt of

MEN'S COAT SHIRT 6397



MEN'S COAT SHIRT 6397

The shirt is made with crosts and back. Where the control of the country of the country



The pattern 6360 is cut in one size only and will be mailed to any address on receipts of 10 ets.

SEVEN GORED SKIRT 6387







There is hardly a farmer's daughter in Canada who does not know Windsor Salt.

It has been the universal standby for years.

Practically all the prize winners at the fairs have used Windsor Saltlast year, 95% of those winning cash, medals and premiums, made their prize butter with Windsor Salt.

If you have not been using Windsor Salt for butter making, get a sack and try it. You will then see why the prize butter makers use it.

esirable to mention the name of this publication when writing to advertisers

CITY MILK SUPPLY \$ DEPARTMENT

Regulations re Certified Milk

Part of a circular issued by the milk commission of the Toronto Academy of Medicine was published in a former issue of Farm and Dairy. It comprised the standard for certified milk and the recommendations made by the Commission concerning the barnyard, the stables, the water supply and the cows. Other recommendations made are as follows:

V.—THE MILKERS

V.—THE MILKERS
The milker should be personally clean. He should neither have, nor should he come in contact with contagious disease while employed in milking or handling milk. In case of any illness in the person or family

seeseseseseseseses of any employee in the dairy such employee must absent himself from the dairy until the Commission's physi-cian certifies that it is safe for him to return.

Before milking the hands should be thoroughly washed in hot water with soap and nail-brush, and well dried with a clean towel. On no account should the hands be wet with milk or other fluid during milking.

The milking should be done regu-larly at the same hour morning and evening, and in a quiet, thorough manner. Light colored washable out-er garments should be even during milking. They should be clean and dry, and when not in use should be hung in a clean place protected from

Milking stools must be kept sterile. Iron stools painted white are recommended.

should be reliable and intelligent. Children under twelve years should not be allowed in the stable during the milking since in their ignorance they may do harm, and from their liability to contagious diseases they are more apt than older persons to transmit these diseases through the

VII.-SMALL ANIMALS

Cats and dogs must be excluded from the stables. VIII.-THE MILK

The first few streams from each teat should be discarded in order to free the milk ducts from milk that has remained in them for some time, and in which bacteria are sure to have multiplied greatly. If in any milk-ing a part of the milk is bloody and Milking stools must be kept stere. Iron stools painted white are renumended.

**CHIPTERS OTHER THAN MILKERS

All persons engaged in the dairy milk in the pail becomes dirty do not

try to remove the dirt by straining, but reject all the milk and cleanse and sterilize the pail.

The milk pails should have an op-

ening not exceeding eight inches in diameter.

Remove the milk of each cow from the stable immediately after it is obtained to the dairy and strain through a sterilized strainer.

The rapid cooling of milk is of great importance. The milk should be cooled to 45 degrees F, within one half bour after milking. Aeration of pure milk beyond that of milking is nnecessary.

All darry utensils, including bottles, must be thoroughly cleaned and sterilized. This can be done by first thoroughly rising in warm water, then washing with a brush and soda or other alkaline cleansing material and other alkaline cleansing material and hot water, and thoroughly rinsing. After the cleaning they should be sterilized with flowing steam for one hour, or with steam under 1 atmos-phere of pressure for 15 minutes, and afterwards be kept inverted in a place free from dust.

IX .- THE DAIRY

The dairy shall be a building separated from the house and the stable The rooms in which clothing, utensils and bottles are cleansed and steriliz-

and bottles are cleansed and sterilized should be separate from the milk
cooling and bottling room.

Those only engaged in cooling and
bottling of milk shall be allowed in
the cooling and bottling room.

Bottles after filling must be closed with sterilized diess and capped
so as to keep all dirt and dust from
the inner surface of the neck and
mouth of the bottles and stored in a
separate refrizerator. separate refrigerator.

X .- EXAMINATION OF MILK AND DAIRY INSPECTION

In order that the dealers and the Commission may be kept informed of the character of the milk, specimens taken at random from the day's suptaken at random from the day's sup-ply will be taken once a month or of-toner, and subjected to examination by the experts of the Commission. The Commission will make inspection of certified farms at frequent inter-vals and reserve the right to change its standards in any reasonable mai-ner upon due notice being given to the producers.

XI.—PHYSICIAN'S PRESCRIPTION

If milk be required by a physician the holder of a physician's order shall in all cases be a preferred customer. The Commission is ready to certify to the milk of any producer who fulfils the above standard to their satisfaction.

The Academy of Medicine, in appointing their Milk Commission, is actuated only by a desire to obtain for the children and patients under the the children and patients under the care of its members a milk supply be-yond suspicion. The motives of the Commission are disinterested, and its members forbid to themselves any pecuniary reward.

All the Provinces will be in line with exhibits in the Provinces building at the Canadian National Exhibition this year. Each Provincial Gororment is at work on a display that will do justice to its territory, and the gold and fruit of British Columbia, the golden grain of the prairies from Alberta, Saskatchewan, prairies from Alberta, Saskatchewan minerals of the various products and minerals of the prairies from the products and minerals of the prairies from the products and minerals of the prairies from the products and minerals of the products and products and minerals of the products and product to the best coal and farm products of Nova Scotia and New Brunswick, will form one of the many features that make the Fair truly National in character

The fountain pen sent me for curing one new subscription to Farm and Dairy has been received. I am much pleased with the pen and wish Farm and Dairy all success.—J. An-derson, Renfrew Co., Ont.

How To Buy Farm Implements

Choose implements strong enough to stand all hard usagedesigned by long experience—built in the way that keeps repair-troubles at arm's length-priced low (value considered).

"Cockshutt" on a farm implement precludes the bare chance tempered exactly right, and that is a reliable insurance against that costly trouble of the farmers-breakdowns in the fields, which always happen at the worst possible time. And the same name insures light draft, because 32 years' experience is built into the design, and special Cockshutt processes are applied in the making. Cockshutt moldboards, for example, are made of the best soft-centre Trouble - Proof endure. You will understand about ricel, heated by natural gas and Trouble - Proof this better when you send for the steel, heated by natural gas and tempered in a peculiar way that

of soft spots or faulty surfacing. All the steel in

is why Cockshutt moldboards take temper as hard as glass - polish a Cockshutt implement is like fine cutlery - scour in any soil -and make Cockshutt plows lighter in draft than any ordinary plow Then, into every strain-taking part of any Cockshutt plow, is built enough strength to stand twice the hardest Implements are strain it will probably ever have to Cockshutt literature. Sent on request.

> Simple and Quick Adjustment Loosen two bolts and turn two set-screws, and

> in a minute you can change the furrow-width

from seven inches to 10, or any width beroom seven increas to 10, or any wintin between—the very simplest and quickest width-adjuster there is. New pattern fine-adjustment ratchet changes the depth of cut by quarter inches, by a pull on the easily-reached lever.

Easy to Plow Right With This

How To Do Better Plowing In Half The Time! Draws only a fourth harder than a walking plow (actual test) and plows two furrows at once-needs two horses only. Its frame is a drop-forged I-beam of heavy high-carbon steel, with heavy malleable castings very solidly bolted up—the whole construction combining greatest strength with least weight.



BY actual tests, in competition, this 2-furrow walking gang has plowed two furrows 9 inches wide and six inches deep with but 25% heavier draft than a single-furrow walking plow, in the same soil and with the same horses and plowman. And it was heavy soil at that. To YOU this means that three horses and one man, with this plow, will do as much as four horses and two men with two one-share walking plows-and the plowing will be BETTER done, be-

cause only every other furrow is trod by the off-horse. That makes for easier harrowing and better tilth On light soils TWO horses can do the work the draft is so light.

Wheels are always under driver's control; and our patent straightener device makes it easy for any plowman to make all straight furrows. Has the Only Perfect Wheel

The ONLY perfect dust-proof wheel is fitted to all Cockshutt gang plows; dust and grit simply cannot get into it; oil cannot leak

out of it; and the axles cannot spring nor weaken a little bit. Runs with less friction, and is easier kept in order. Get particulars by writing to-day for illustrated descriptive Booklet A.

___ The Cockshutt Line __

built right to farm right, includes not only more than 120 styles of plows—ranging from light garden plows to huge 12-furrow engine gangs-but also all styles of seeders, cultivators and harrows. Write us for details of the kind of implements the business farmer ought to buy.

COCKSHUTT PLOW CO., LTD BRANTFORD, ONTARIO

It is desirable to mention the name of this publication when writing to advertisers

*** OUF

Aug

LENNO cient'y sufficient'; can be est low the can be est low the good citions. It be attributed but is no severe drownich killing the sare sowing best land. are sowing best land, plants for are v ry price has Pastures yield of m brings 11% not sufficie much mor no doubt short hay

FRELIGE done. Rep a very lig year. Near ast year, yield well shortage of are beginns tle, so that have bren to \$8 25 a easier feeli are in goodrought is at any tin low in we are practic lands. As crops are a sort to mi dlings \$30 ; considerable to be increased was planted the drought

short hay

the tube s small unless -C, A, W. CH CRMSTOW crop. The l fine looking that the co The hot, d though the mingford a for the wan and everyth

CHAPMAN
The crop ha
the past fe
to cure hay
share has
have profite
quence the
well. Barle
crop, but o
as a result scarce and BLACKSTO and in the

Che Rich The

09.

ining

n op-

in it

is of hould n one

on of

ottles first

then

al and nsing.

tmos nutes,

in a

table ensils

milk

g and

and

in a

d the imens supation etion

interman-

shall

ful-

is ac-n for the

d :ts

hibi-Gov-

that

the

lown

lucts wick,

SHERBROOKE CO., QUE.

LENNOXVILLE. — The haying season is sufficiently far advanced so that the crop can be estimated. It is declared to be because good, which will help to adjust continuous to be quite good, which will help to adjust continuous to the season of the s

MISSISQUOI CO., QUE.

short hay crop.—H. M.

SISISOUI CO., QUE,

FRELIGHBBUEG. — Hayin: is about all
done. Reports generally concede it to be
a very light crop, even lighter than last
rear. Mearly every farmer had to buy hay
year. Mearly every farmer had to buy hay
year. Wearly every farmer had to buy hay
year. Wearly every farmer had to buy hay
year. Wearly every farmer had to buy hay
have been there to be a conse fodder. Many farmers
are beginning to reduce their stock of centcaller, so that may help matters some. Hogs
have been very searce and prices went up
have been very searce and prices went up
are in good demand at 20e a dox. We
are in good demand at 20e a dox. We
are in good demand at 20e a dox if we
are in good demand at 20e a dox if we
are in good demand at 20e a dox if we
are in good demand at 20e a dox if we
are in good demand at 20e a dox if we
are in good demand at 20e a dox if we
are in good demand at 20e a dox if we
are in good demand at 20e a dox if we
hands. As a result the yird, and soll ing
crops are at a standstill, so we have to recort to mill feed. Herm is \$25 and midconsiderable in the control of the top of the control
were planted to potatoes last spring, but
the draught has prevented development of
the tubers and the crop will kel/ be
considerable and rain comes to our re ief roon.

CHATEAUGUAY CO., QUE.

CHATEAUGUAY CO., QUE.

CHATEAUGUAY CO., QUE.
CHATGON. — Hay was an average
cop. The harvest is a late one on accounci the backward spring. Three are some
fine looking fields of grain. Mr. D. Drummond was here last week and he thought
that the corn grew a foot in two days.
that the corn grew a foot in two days.
though they weather fost sitts it, although they weather fost sitts it, although they may be a fine of the looking they
for the want or reis; pastures age but y
and everything is at a standstill—N. B.
sand everything is at a standstill—N. B.

ONTARIO HASTINGS CO., ONT.

HASTINGS CO., ONT.

CHAPMAN, — Hay making is completed.
The crop has been light. Wet weather for
the past few weeks has made it difficult
to cure hay in good shape, and a large
share has got wet. Pastures, however,
have profited from the rains and in corseleave profited from the saverage, a light
crop, but oats and the saverage, a light
crop, but cats and the saverage and got are sented of the recent rave improved
as a result of the recent rave improved
is a result of the recent rave in provided
in the rains of the recent rave in provided
in the rains of the recent rave in provided
in the rains of the recent rave in provided
in the rains of the rains and in the rains and in the rains
in the rains and in the rains and in the rains
in the rains and in the rains and in the rains
in the rains and in the rains and in the rains
in the rains and in the rains and in the rains
in the rains and in the rains and in the rains
in the rains and in the rains and in the rains
in the rains and in the rains and in the rains and in the rains
in the rains and in the rains
in the rains and in the rains and in the

DURHAM CO., ONT.

BLACKSTOCK. - Fall wheat is all cut, and in the barn in good shape. It is

Black Watch

Chewing Tobacco Rich and satisfying. The big black plug.

OUR FARMERS' CLUB and the straw is of good length. It should yield well. Barley, although short the straw will be a good sample generally, and the straw will be a good sample generally, and the straw will be a good sample generally. Onte are will probably be a fair yield. Onte are will be a good sample generally will be a good sample genera

PETERBORO CO., ONT.

PETERBORO CO., ONT.

LAKERIUSST-Corn gives promise of an abundant crop. Potatoes are loking fine. Manyels and enterprise are loking well. Much of the land word get a good stand and had to be promise well, and turning the promise well, and with the recent rains is almost a certain crop. Pesture is getting better again as a result of the rains, but milk this year will be below the average.

—A. W.

VICTORIA CO., ONT.

VICTORIA CO., ONT.

HARTLEF.—We have suffered considerably from the dry weather which we had here the suffered considerably from the dry weather which we had through June the forepart of July. The rain which came the forepart of July. The rain which came the first of the forepart of July. The rain which came only and has been coming which as made a great change in the prospects of the farmers. Although the rain did not come in time to help the hay crop, which is very light, it has helped other crops and done the root crop an immense amount of good—W.M.

BRANT CO. ONT.

BRANT CO., ONT.

crop an immense amount of good—W.M.

ST. GEORGE. — Crops are away shead of what was expected earlier in the season. With few exceptions, crops will be a fair average. Some good pieces of wheat have been harvested. Much of the barley has been harvested. Much of the barley went of the season. With few exceptions, crops will be a fair average. Some good pieces of wheat have been harvested. Much of the barley, mention and the season of the season of

MIDDLESEX CO., ONT.

MIDDLESEX CO., ONT.
LAMBEFH.— Hay was secured in good condition. One farmer had new hay barn holding 60 tons, flight of the secure of the secu is doing very well, and already the binder is at work among some pieces. Oats are of the beautiful and the second relations of the second relations of

SASKATCHEWAN

shy.-J. E. O.

SASKATCHEWAN

REGINA DISTRICT. SASK.

COTTONWOOD. — The crops are succlient. Cutting of early grain wil start this lent. Cutting of early grain wil start this week, and by the light it will probably be general, as the wheat is turning fast. On fig. 4 a terrible hull storm swept through the control of the

LIVE HOGS

We are buyers each week of Live Hogs at market prices. 9 For delivery at our Packing House in Peterborough, we will pay equal to Toronto market prices. If you cannot deliver to our Packing House, kindly write us and we will instruct our buyer at your nearest railroad station, to call on you.

THIS WEEK'S PRICES FOR HOGS DELIVERED AT PACTORY

\$7.90 a Cwt.

THE GEO. MATTHEWS CO., LIMITED PETERBOROUGH, - HULL, -BRANTFORD

classed those at Regina. One deplorable feature was the cowardice of many of the smaller farmers who were afraid to compete against the more experienced growers and tre-drs. Many of them console themselves by saying that they were sure they would have won-8. J. N.

BRITISH COLUMBIA NEW WESTMINSTER CO., B.C.

NEW WESTMINSTER CO., B.C., MUNIO. — Fall wheat and barley are a good crop, and are now being cut. Cattle and horses look well. Sheep are being largely increased. Grain is selling from \$840 to \$50 a ton The price of poultry is very low in comparison with the price of grain.—J. C.

CROPS IN JULY

CROPS IN JULY

A bulletin issued by the Census and Statistics Office of the control of the contr

The estimated yield of hay and c'over is 8,984,000 tons, an average of 1.35 tons an

as 5,94,00 tons, an average of 1.55 tons an acre.

The condition of fall wheat when re per wind, 5.5; of spring wheat at the end of 14,55; of spring wheat at the end of 14,55; of spring wheat at the end of 14,55; of spring wheat at the other field street, and the spring spri

Accidents are Liable to Happen. - You should always have handy a good lini-

ment to cure Bruises, Strains, Scrences, stop Pains, remove Inflammation or Bures, Heal a Wire Cut, Wound or Sear Tissue, and heal with hair on and leave no blempreparation lives in a manufacture of the strain property and discuttent. It will assign resolvent and discuttent, It will assign the manufacture of the burney of the strain of the bunch and filling in the underlying tissues, restore the circulaton to a normal condition. \$2 a bottle, and the strain of the strain of



Roofed-**Well Housed**

A building is only as good as its roof. If you would have your buildings stormtight-protected against wind and rain, and protected to stay, put on a roofing that will give complete and lasting protection.

ROOFING

will not rust or rot; it is durable

Everything needed to lay REX Flintkote Roofing comes in the roll. One man and one hammer is all that you have to furnish to put it on.

FREE SAMPLES

Let us send you free samples to test; also valuable roofing booklet.

J. A. & W. BIRD & CO. 19 India Street, Boston, Mass.

Canadian Office :

THE BEST LINIMENT Toronto, Monday, August 16, 1999. — Busi-lo S21.50 and shorts and of the harvest cond of the harvest case steadily as the

Toronto, Monlay, August 16, 1999. — Busilton State 1 and shorts at \$23 to \$24, and Ontess continues to increase steadily as the
und of the harvest argues and the proper
week three has been a deedded improve
ment regarding the future. When the
senter cop is harvested and the crop be
gins to be marketed there will be an acive revival in trade in the west. Money
sentinues in good demand and the banks
are experiencing a good enquiry for funds.
Call loans rule at 4 to 4½ per cent, most
y at the latter figure. Discounts on commercal paper rule at 6 to 7 per cent, as
that ALV ANN ETDAW ness continues to increase steadily as the end of the harvest approaches. During the wesk there has been a decided improve-ment regarding the future. When the western crop is hirvested and the crop be gins to be marketed there will be an ac-tive revival in trade in the west. Money tive revival in trade in the west. Money oentinues in good demand and the banks are experiencing a good enquiry for funds. Call loang rule at 4 to 4½ per cent, mostly at the latter figure. Discounts on commercial paper rule at 6 to 7 per cent, as to name and nature of the account.

WHEAT

The United States Government report of week ago had a rather bearish effect pon the wheat market. It showed considerable increase in the wheat yield over last year, which had its effect on the mar-ket. Towards the end of the week the ac-tion of shorts in covering, advanced tion of shorts in covering, advanced priceg generally on the speculative market. There has been considerable short selling this season and we may look for considerable manipu'ating of the market in order to suit the ends of the speculators. Some high priced Manitoba wheat has been bought for October-November delivery, which will have to be taken care of. Reports of unfavorable harvest weather in Great Britain, together with light Argen-tine shipment, were sufficient to cause tine shipment, were sufficient to cause higher cables at the end of the week, not nigher cables at the end of the week, not-withstanding the favorable crop outlook in America. So it goes. The market is very "fouchy," so to speak, and every lit-tle influence has its effect. On Friday at Chicago 8 ptember what closed at 99% and 50 crespectively, an advance over 95% and 55 crespectively, an advance over 25/26 and 300 respectively, an advance over-the previous day. The speculative market advance has not had much effect upon local conditions here. On Friday local deal-ers here quoted new Ontario wheat le to 26 a bushel lower at 356 to 56 outside. It is a bushel lower at 356 to 56 outside. It is the country at 300 a bushel to be delivered to be miller at 300 a bushel to be delivered to be miller at 300 a bushel to be delivered to the mills. On Toronto farmers' market, fall wheat sells at \$1.02 to \$1.03 and goose at \$1 a bushel.

COARSE GRAINS

COARSE GRAINS
The oat market rules steady. The presents of a light yield in Ontario will have some effect on the prices. The Old Country market is quoted quiet and prices are easy at last week's decline. New oats for first shipment are listed on the grain dealers' exchange here at 40e a bushel outside. Old Ontario oats are quoted here at side. Old stock of an ad 46 to 46e outside. Old stock of an add 45 to 46e outside. Old stock of an add a fact the country of the co 90c to 95c a bushel.

FEEDS

Mill feeds are a little firmer owing to light stocks and an improved demand, though prices as yet show little change. Dealers here quote Manitoba bran at \$21

HAY AND STRAW

HAY AND STRAW

The hay market shows Ittle change. Prices rule steady under a good local and export demand and light receipts. Some critical receipts are some orders have been placed for the shipment of Canadian hay to Holland, where the crop is a failure. New baled hay sold at Montreal last week at 82 to 812.59 a ton. Dealers here onote old baled hav at 812.50 to \$13.50 for No 1 timothy and 885 to 812.50 are some properties of the state of the at \$13 to \$14 and loose straw at \$7 'o \$8 a

POTATOES AND BEANS

The local potato market here is lian new potatoes are offering freely, Canadian new potatoes are offering freely, and the supply at the end of the week was far greater than the local demand would take. Prices range from 75c to 85c a bushel. On Toronto farmers' market they sell at 30c to 90c a bushel.

Trade in beans is confined to foreign beans, chiefly Austrian. There are no cld Canadian beans on the market. Prics rule firm at old quo ations.

EGGS AND POULTRY

EGGS AND POULTRY

The market has ruled steady all week und r slightly increasel receipts and a good de steady all the receipts and a good de steady all the receipts and a good de steady all the receipts who leaves here a leave for increases the receipts. Who leaves here a leave for for a far receipts. Who leaves all prices are receipts who leaves all prices are receipts who leaves a leave for a leave for the receipts who leaves the receipts who leaves the receipts who leaves a leave for the receipts who leaves a leave for the receipts who leaves the receipts a leave for the receipts who leaves the receipts and leaves the receipts and leaves the receipt for the receipts and leaves the receipt for the receipts and leaves the receipt for t

FRUIT

Receipts of fruit on Toronto fruit market at the end of the week were heavy. Peaches, plums, pears and apples were in abundance. We have reached about the abundance. We have reached about 'he last of the currants, gooseberries and raspe berries. Tomatoes are cheaper under heavy receipts. Quotations are as foll-way. Raspherries. So to 16c, and thimbheberries, Raspherries. So to 15c, and thimbheberries, St to \$1.55; apples, 20c to 75c; blueberries, St to \$1.55; apples, 20c to 75c; black currants, \$4.55 to \$4.59; plum to \$1.55; black currants, \$4.55 to \$4.59; plum to \$1.55; black currants, \$4.55 to \$4.59; plum to \$1.55; p

DAIRY PRODUCTS

The cheese market rules quist but firm, A little more money was paid at the country boards last week than the week previous. At the end of the week at the cunous. At the end of the week at the country cheese boards prices ranged from 11%c o 11%c, with the bulk of the sales around 11%c a lb. Dealers here quote new cheese at 12c a lb for large and 12%c a lb for twins.

The butter market has a slightly easie one owing to large receipts and a light export demand. At Mon-real prices are quoted at ½c a b lower than a week ago. At Huntingdon, Que., on Friday creamers. At Huntingdon, Que. on Friday creamery, sold at 21% a bi; wholesale prices for butter here rule at 25c to 24c for choice creamery prints; 16c to 29c for choice dairy prints; 165% to 17c for ordinary, and 18c of 19c at 19c to 19c at 19c of 1

HORSE MARKET

There is little activity in the horse market and this condition is likely to continue for a few weeks yet. The Horse Exchange, West Toronto, reports two carloads of horses as having been shipped to the west, one to Moosejaw and another to the west, one to Moosejaw and another to winnings. About one hundred horses were on offer at the Exchange last week but only part of them were sold at public auction. Quotations rule about as follows: Choice drafters, \$150 to \$250; agricultural and general purpose horses, \$15 to \$250 and drivers, \$150 to \$250 and drivers, 8100 to \$200 each

LIVE STOCK

Receipts of live stock at the Toronto markers keep up well for this season of the year the year of nducing farmers to market their cattle

dry weather and short pasturage may be inducing farmers to market their cattle lefore they are ready.

The export market rules steady and many the steady the steady are steady to the steady the s

prices all week. At the city market on Thur-day they sold at \$4.20 to \$5.50 and butchers' cows at \$1.50 to \$4.75 a cwt. Early in the week the top price was not so high, choice cattle ranging from Fan \$5 to \$3.55 medium, \$4.75 to \$5, and 70 to \$1.00 to \$1. \$3.50 a cwt.

The stocker and feeder trade has been uiet of late. Pastures are getting bare. quiet of late. Pastures are getting bare, and farmers are not buving in many feeders. Quotations show little change from last week, the best steers, 850 to 950 lbs.
each, selling at 85.60 to 830 best steers
660 to 800 lbs. each, at \$3 to 83.50; and
common stockers at 82.25 to 82.60 a cwt.
Yeal calves keep up in property of the steers

Yeal calves keep up in property of the steers.

common stockers at \$2.5 to \$2.60 event.
Veal calves keep up in prin event.
Ighter runs than a few weeks ago, Prica on Thurday ranged from \$3 to \$4.55 a evt., with some new milk fed calves selling at \$5.50 a cett.
The market for milkers and springers rules steady. Orders for cows, however, rules steady. Orders for cows, however, and the steady of the

light. And drop in price of a week or two ago has isessend receipts very materially, consequently the market has a better tone, and prices are a little higher than a week ago. On Thursday as the city market lambs sold at \$5.50 to \$6.75 a cwt., with a

Gombault's **Gaustic Balsam** IT HAS NO EQUAL

For -It is pe healing, and for all Old the Sorse, Bruisse, or Wounds, Felons, Exterior Cancers, Boils Human Corns and Human Bun ions Body no oqu

We would say to all who buy it that it does not contain a particle of pationous substance and therefore no harm on result trem its asternal use. Persistent, thorough use will cure many old or chronic allments and it can be used on any case that requires an outward a p plica tion with perfect safety.

and Reliable Remedy for Sore Throat Chest Cold Backache Neuralgia Sprains Strains Lumbago Diphtheria Sore Lungs Rheumatism and all Stiff Joints

Perfectly Safe

REMOVES THE SORENESS-STRENGTHENS MUSCLES by us express prepaid. Write for Booklet The LAWRENCE-WILLIAMS COMPANY, To

selected ones going as high as \$7 and tow selected ones going as high as \$7 and \$7.50 a owt. However, should receipts in-crease much this week lower prices may be looked for. Export ewes are a little lower at \$3.50 to \$3.75 and rams at \$2 to \$2.50 a cwt.

Receipts of hogs continue light.

Receipts of hogs continue light. There was a considerable drop in price from a week ago. On Thursday at the city marbeth open such as a considerable drop in the such as a control points. One dealer only quoted at country points. One dealer only quoted as country points. One dealer only quoted to the country reported with the country reported to the country reported to the country to the country reported to the country to the country the country to the country the country the country that the country the country the country that the country the country that the country t that quotations on Toronto market any tipt quotations on Toronto market are no criterion of what will be paid in the country for hogs. Packers rust have hogs to keep their establishments run ning and will put up the price in order

Registered Seed Wheat FOR

Dawson's Golden Chaff grown according to the rules of Canadian Seed Growers Association, carefully selected for nine yrs. C. R. GIES Heidelberg, Ont.



1500 Iron & Wood Pulleys, for sale. All sizes, half price. Also Shafting, Hangers, Iron Pipes, Belting good as new. Cheap.

IMPERIAL WASTE & METAL CO. 5-13 QUEEN ST., MONTREAL.

DAIRYFARM FOR SALE AT A BARGAIN

Lavigne Station, Graham, Que., Post Office, 112 acres rich clay land, new house furnace, hot and cold water, siles, barns. (stabling 40 cows, calves, bulls and 1) horses), milk house and complete outbuildings, running water, railway station on the farm, also market boat wharf and post of fice, near schools and churches.

A rare opportunity for a live dairyman to get a money making property. Milk goes into Montreal. One hour by train. Winter price, \$2.20 100 lbs.

JAS. J. RILEY, JR.

FLY KNOCKER

A sure and effective remedy against

FLIES and MOSOUITOES

Is easily and quickly applied with any sprayer

GUARANTEED THE BEST PREPARATION ON THE MARKET

Protects animals effectually from the unendurable torments of FLIES and VERMIN

is cheap. ONE GALLON applied properly will keep 25 COWS FLY FREE for 2 WEEKS

Cows yield ONE-THIRD MORE MILK when sprayed with FLY KNOCKER

PRICES,=-50 cents quart. \$1.75 gallon. Freight paid

WM. COOPER & NEPHEWS

152 BAY STREET

TORONTO, ONT.

It is desirable to mention the name of this publication when writing to advertisers

to get them.
mixed hogs and roughs a
The Trade

August 12th o

market is fir

DR.

stables, ho DR. WILL DESTROYER form. Easy in results, in on and five gal

mals comfo

LOOK FOI matter, or ! Sprayer. T. G. Robin

ara South, "It is a si to see the fi soon as they fly mixture."

Show this ask him for will be plea

MORRISBUR

Agr

FOR SALE AN

TWO CENTS A V FOR SALE .-- 20 working pressu good as new, o will be sold o stock, Ont.

WANTED-Marrisby the year. Therefore the Must be required. J. E. WANTED-One of

Must be young coming in in Lakefield, Ont. WANTED-THRE

years, able to and help in ma ence necessary. a year and box ise Bridge, Win

WANTED.—To se subscription pr lustrated; over premiums men regarding the A post card we lation Departs Peterboro, Ont.

WANTED,-Agent to represent F to represent Free complissions paseriptions secure canvassing to Write, Circular and Dairy, Peters NT

n

n

LES

s in

m a

and

oted

very

ALE

nt.

55

NC NE

Ma-RIAT

NT

d

t-

the

R.

to get them. At Buffalo heavy hogs and mixed hogs are quoted at \$8.25 to \$8.30 and roughs at \$7 to \$7.25 a cwt. The Trade Bulletin's London cable of

August 12th quotes bacon as follows: "The market is firm at last week's prices and quotations range from 67s to 71s."



PROTECT YOUR HORSES AND CAT-TLE BY SPRAYING WITH

DR. WILLIAMS'

FLY AND INSECT

Destroys all fly pests. Gives animals comfort. The cows give more milk. The best disinfectant for the stables, hog pens and poultry

DR. WILLIAMS' FLY AND INSECT DESTROYER is put up in liquid form. Easy of application, effective in results, and harmless to handle. in one-quarter, one-half, one and five gallon tins

LOOK FOR RED LABEL. TAKE NO SUBSTITUTE. Send for printed matter, or \$1 for ½ gallon tin and

T. G. Robinson, P.O. Box 393, Ningara South, Ont., writes us Aug. 11,

"It is a sight good for sore eyes to see the flies roll off the cattle as soon as they are sprayed with your fly mixture."

Show this ad. to your dealer and ask him for this preparation; you will be pleased; so will he.

F. WILLIAMS CO.

MORRISBURG, ONT. MADRID, N.Y.

Agents Wanted

FOR SALE AND WANT ADVERTISING TWO CENTS A WORD, CASH WITH ORDER

FOR SALE.—20 H. P. Engine, with 200 lbs. working pressure. Made in United States, good as new, can be seen at our factory. will be sold cheap.—Hay & Co., Woodward Co.

WANTED-Married man to work on farm by the year. To commence work November 1st. Must be steady. Good references required.—J. E. Waring, Zenda, Ont.

MONTREAL HOG MARKET

MONTHEAL MOG MARKET
Montreal, Saturday, August 14, 1999.—The
market here for live hogs was easier this
week with prices lower. Receipts were
decidedly increased and were more than
equal to the demand and as a consequence
buyers reduced their prices and the best
price obtainable was \$8.90 a cwt for selected lots weighed off cars, prices ranging all
the way down to \$8.40 a cwt.

the way down to \$8.40 a cwt.

The market for dressed hogs, however, is firm, with prices unchanged at \$12.50 to \$12.75 a cwt for fresh killed abattoir stock.

a lb.

The cheese offering in the country this
week are of August make a-d it locks
very much as if the annual specu attre
very much as if the annual specu attre
demand for this class of cheese has set in,
if so we can look for a period of high
prices, as the British trade is usually
prepared to pay up for August and Sep
prepared to pay up for August and Sep
is not an unual large quantity of this
make offering annual large quantity of this is not an unusually large quantity of this make offering. The market is well prepared for an advance in prices, as the stocks of these in existence on bith sides of the Atlantic are very small, the total being fully 10,000 boxes less then last ye real this time. An advance however will at this time. An advance however will at the time to be not the side of the time of the time of the side of the time of time of time of the time of tim

back in prices.

The make of cheese here is keeping up well and there is every indication that the output for the balance of the reason will be slightly in excess of last year. The affect the current will not be sufficient to affect the receipts from week to we were the total to week to week to week to we were the total to week to week to week to we were the total total to we were the total total total total total total total to we were the total total

season up to date amounts to about 50,000 boxes.

There is rather more doing in butter this week and exporters generally find an increased enquiry from Great Britain an increased enquiry from Great Britain and the season of th

A HELPFUL WORK ON CONCRETE CON-

STRUCTION

A new edition of the book, "Congretober lat. Must be steady. Good references
required—J. E. Waring. Zenda, Ont.

WASTED—One or two grade Holstein cover
Must be young and extra good milkers;
coming in in August preferred—Box 17,
Labefild, Ont.

WASTED—THREE YOUNG MEN—About 20
pears, able to milk and attend to cows,
man ket garden. Some experience necess man ket garden. Some experience ne STRUCTION A new edition of the book, "Concrete

Farm and Dairy subscriber may obtain a copy of this book free by writing to them. The Atlas Portland Cement Co. 30 Broad street. New York, mentioning Farm and Dairy. We would recommend all our subscribe are in any way inherested in concrete construction to secure a copy of this book. this book

A very neat and attractive booklet defining from the object of the surface and attractive booklet described in the surface and attractive booklet and attractive booklet described in the surface and attractive booklet and attractive bearing transfer and the surface and the surface and attractive bearing transfer and the surface and attractive bearing transfer and the surface and the surface and the surface and t

I have taken Farm and Dairy for many years and have followed it through all its changes of names.— It has my very best wishes.—George Corner Sr., York Co., Ont.

MISCELLANEOUS

tBRAM EASTON, Appleby, Ont., Lefcester sheep. Show ring and breeding stock for na sale

TAMWORTH AND BERKSHIRE SWINE.— Hoars and sows for sale. J. W. Todd, Corinth, Ont. Maple Leaf Stock Farm.

PONIES AVESHIRES

FOR SALE.—Twenty Canadian. Exmoor and Welsh Ponies, from 11 to 14% hands in height. Also AYRSHIRES of various ages, and of both sexes. Prices right. Write or call on 0-5-25-10

AYRSHIRES, males only, two fall and one spring calf. Enquire what their dama are doing. James Begg. St. Thomas. E-tf

"La Bois de la Roches" Steck Farm Here are kept the choicest strains of AYRSHIRES, imported and home bred, YORKSHIRES of the best bacon types. WHITE OPPINGTON, WHITE WYAN. DOTTES and BARRED ROCK Poultry.

HON. L. J. FORGET, J. A. BIBEAU,
Proprietor Managor
R-\$-26-10 Ste Anne de Bellevue, Que.

SPRINGHILL AYRSHIRES Imported and home bred stock of a ages for sale. See our stock at the leading shows this fall. Write for prices,

ROBT. HUNTER & SONS
Marville Out.
B7-1-16 Long Ditance Phone

HAVING THE MAN AVENHERS
HAVING THE MAN AVENHERS
HAVE THE MAN AVENH IMPORTED AYRSHIRES

AYRSHIRE CALVES FOR SALE

RECORD OF PERFORMANCE COWS PRICE :- \$35 when one month eld

Cap Rouge, Que.

Cherry Bank Stock Farm

The richily bred bull, 18 months of ago. Oberry Bank Surprise 26605, for sale. Sire Barcheskie Kirg's Own (imp.) 2725. Dam, Pansy 5th, of Carston (imp.) 22431.

FOR SALE

Two Holstein-Friesian cows three years old will freshen in October and December; both will qualify in two years old class the state of N. SANGSTER, Ormstown

HOLSTEINS

WANTED

20 GOOD HOLSTEIN MILCH COWS AND ONE BULL

Will take a herd from any one wishing to close out. State age, record, weight, and price of each animal. JOSEPH GUSSENHOVEN, Havre, Mont.

BERTRAM HOSKIN

Mount Pleasant Farm, The Gully, Ont.

Breeder of Holstein Cattle, Tamworth
Swine. High-Class young stock for sale Long Distance Phone 0.10.98.09

SUNNYDALE

Offers four grandsons of Pietertje Hen-gerveld'e Connt De Kol, champion bull of the breed. These caives are from 6 weeks to the breed the breed that the breed that the theory of the breed that the breed that the control of the breed that the breed that the Write for particulars. A. D. FOSTER, Bloomfield, Ont.

LYNDALE HOLSTEINS

Head your Heid with a son of Sara Hengerveid Korndyke whose sara Hengerveid Korndyke whose head of the sara Hengerveid Korndyke whose head of the sara left. We still have head of the sans left. We still have head of Count backof Petertle Paul, and a number of Hellors for sale, e-127 10

BROWN BROS, LYN, ONT.

HOME-BRED AND IMPORTED HOLSTEINS



We must sell at least 25 cows and heifers at once, to make room for the chance of our lent. This is a chance of our lent. This is a bargain; we also have a good bargain; we also have a few bouls. Points Hernes. Imp., son of Henderviel DeKol, world's greatest sire, head of heat, Come and see them.

H. E. GEORGE, CRAMPTON, ONT.

Putnam Stn., 11/2 miles-C.P.R. E-4-81-10

HOLSTEIN CATTLE

HOLSTEIN CATTLE
If you are thinking of buying a choice
young cow or helfer in calf, come and see
does beautiful sell anything. Have a
does beautiful sell anything. Have a
fore sheet aversaing 5% lib. butter in
sumer Hill. (holes doods (imp.), who has
five sheets aversaing 5% lib. butter,
which is the sheet of the sheet of the
very sheet of t D. C. FLATT & SON, Millgrove, Ont.

L. D. Telephone 2471, Hamilton

Les Chenaux Farms

Have nothing for sale good things are in demand and go fast.

Herd Headed by

Sir Aaggie Beets Segis

A Son of King Segis, the world's greatest 5 year old Sire, out of

Aaggie Lilly Pietertje Paul Champion Jr. 4 year old cow, 29.36 lbs. Butter in 7 days.

Two sisters by the Sire also hold World Records.

Secure some of his yet and improve

DR. HARWOOD - Vaudreuil, Que. 40 miles from Montreal, by C.P.R. or G.T.R.

Board
Tuition
Books
Laundry, etc.
for an Ontario Boy

\$80

FIRST YEAR



\$80

to

\$100

SECOND YEAR

THE-

Ontario Agricultural College

GUELPH

CANADA

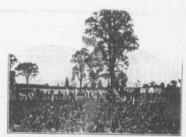
OPENS SEPTEMBER 14, 1909

THE Course is designed to meet the needs of farm boys of the Province of Ontario, boys who have not had the advantage of a College or University education but who have a love for farming and a desire to improve their methods and thus better their conditions. We endeavour to instruct students along the most practical lines and our science is kept close to the ground.

By the teaching of better methods of cultivation, a more systematic rotation of farm crops, the care and selection of seed, the identification of weeds, fungous and insect pests and by the improvement of the home surroundings, we hope to awaken an interest in the life of the farm such as will tend to keep at home farm boys who would otherwise migrate to towns and cities.







Students Judging Shorthorns

Students Hauling Turnips

SEND US YOUR BOY

He needs special training if he is to make the most of his life work.

Write TO-DAY for a Calendar. It will be mailed to you free. It contains complete information regarding the cost, various courses of instruction, etc.

G. C. CREELMAN, B.S.A., M.S., President

COURSE OF STUDY

FIRST YEAR

Animal Husbandry
Apiculture

Bookneyelist
English (Gumposition
E



Students Judding See

COURSE OF STUDY SECOND YEAR

Animal Husbandr Bacteriology Botany

Chemistry Organic Animal Soil

Dairying
Economics
English / Composition
Literature
Entomology

Farm Mechanics Field Husbandry Forestry Horticulture

Horticulture

Agr. Engineering

Physics Electricity

Surveying and Drainag

Poultry Thesis

Veterinary Obstetrics
Pathology