# FARM AND DAIRY RURAL HOME



BETTER FARMING

Toronto, Ont., January 11, 1917





AT THE GRISTMILL.

-Photo at Maxville, Glengarry Co., Ont.



The favorite everywhere it goes. Note its beauty and heavy compact construction, with low-down, handy supply can only 3½ ft. from the floor.

# Why YouWill Prefer

in preference to all other Cream Separators is because the "Simplex" is:

So Easy to Turn

So Easy to Clean

So Perfect in Skimming So Quick in Separating

So Pleasing in Appearance Self Balancing

Seldom out of Repair Soon Pays for Itself

LASTS A LIFETIME

There are other advantages in favor of the "Simplex." These are explained in our literature, which will be mailed to you free on request

The ease of running, ease of cleaning, simplicity, self-balancing bowl, interchangeable spindle point, low-down supply can, the general pleasing appearance, and the perfect skimming of the "Simplex" make it the favorite everywhere it goes.

Then, too, our large capacity machines, so constructed that they turn more easily than most other separators, regardless of capacity, will enable you to separate your milk in half the time. This is a great advantage it will pay you to enjoy.

Bear in mind we allow you to prove all these claims -since "Proof of the Pudding is in the Eating."

Write to us for full particulars about the "Simplex" and our special terms to you to use the "Simplex" and represent us locally in your district.

# D. Derbyshire & Co.

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# **New Year Resolution**

The New Year is the time for forming new resolutions. You can't do better than decide to renew your subscription to Farm and Dairy. Or, you may have a friend whom you would like to present with some token of your appreciation; something that you are sure he would like; that would help him in his daily task and afford him pleasure as well as profit. That you will find in Farm and Dairy. Its elean, forceful, helpful articles are a stimulus and an incentive to our readers. Your friend will appreciate your gift of a year's subscription.

It will be a gold mine of helpful ideas and suggestions for 52 weeks and only costs a dollar a year. Send it in to-night.

CIRCULATION DEPARTMENT FARM and DAIRY Peterboro, Ont.

#### Another Successful E.O.D.A. Convention

High Prices and Enlarged Output Characterized Year's Operations-Splendid Cheese Exhibit-Many Strong Addresses

nual convention of the Eastern deplored, it was pointed was nual convention of the Eastern deplored, it was pointed out Ontario Dairymen's Association, that the prize winners are conheid at Napanee on Thursday and fined to comparatively few cream-Friday of last week, rivalled that of cries where conditions are more farany convention in the history of the oroble for the production of a higher alary convention in the history of the oroble for the production of a higher Association. It was larger, much quality. There was no question but larger, than that at any recent con- that a higher quality of butter could wontion. It was generally conceded be produced from sweet cream propheta the interest in the Dairy Stand- erly pasteurized and riponed, than ards Act was responsible for part from the average cream that is sup of the larger showing. The ccom-plied to Ontario creameries, and this om dation provided for both the meet fact had been so forefully impressed ings and the exhibition by Napanes on the makers during the last few was all that could so desired, the fine years that they had simply quit showarmories building being secured for ing their butter where it comes into the occasion. Though the exhibit of competition with the product of the butter was disappointing, the cheese sweet cream creameries. This did display was a credit, even to Eastern not mean that we were going back Ontarlo. A new feature was a dem- but that other sections of Canada onstration of cheese made of rennet, were going ahead faster than we, with pepsin and curdalac for the purpose the net result that our showing is of showing the merits of the new made more unfavorable each year.

coagulants as compared with rennet.

The Chlef instructor's Report.

The Chlef instructor's Report.

where, Eighty-six factories paid for a remarkable showing for one sea milk according to quality, being 13 son's trial, more than the previous season. Forty— A cow commus showed that in 1015

cheese was exceptionally fine; also This was an increase of 375 pounds that of the fall make, but during the over 1913. The increase was due to months of July and August a large percentage of the cheese were mure or less defective. In some cases, owing to the high price of rennet, makers tried to do with a smaller amount than was necessary to do the work properly and the result was a a eater loss of fat in the whey, this being probably re-sponsible for the higher average in pounds of milk required to make a pound of cheese, 11.07 pounds being the average for the season, consider ably more than for any previous season. It was safer to determine the quantity to use from the action of the coasulant on the milk than from the directions of the manufacturer. From the results of experiments conducted by the instructors, it was shown that it took 11.51 pounds of uncooled milk to make a pound of cheese and 11.04 pounds of uncooled milk and makers wereadvised to encourage their patrons to cool the night's milk to at least 65°F immediately after milking. Mr. Publow outlined the work that had been done to secure information on the value of milk of different percentages of fat. He also called attention the cheapest milk was produced on to the fact that the chease industry summer pasture, and outlined the work

HE attendance at the 40th an unfavorable showing obtained was plied to Ontario creameries, and this

G. G. Publow, chief dairy instructor, grading at the creamery operated in reported that there were 849 cheese connection with the Eastern Dairy ctories in operation during the year School, which proved an entire suc or two more than the previous season, cess. The patrons were perfectly These factories received from the in- satisfied with the result, and no diffistructors, 1,228 full day visits and outly whatever was experienced. 4,638 call visits. Sixteen new factories They established two grades for a had been built, the estimated expensions: first grade being defined as had been built, the estimated expension: If six grade being defined as diture, including new buildings, being sweet and clean in flavor and second \$87.299. While the general spear grade as sour or slightly sour, but ance and condition of the teturies otherwise clean in flavor. A differshowed a marked improvement, here one of 2c a b, of butter fat was ever still a number, however, that made between the two grades. Of were not very creditable and would the total cream supply for the six have to be improved it they continued months only six and a half per cent. to operate. Of the factories, 105 made was placed in second grade. When they butter, turning out 128,760 has it was considered that nearly, wentz, from May let to November lat. om May lat to November 1st.

Eighty-one factories pasteurized the brought in by train, the net result is

more than the previous season. A cove comma snower than it against the paid by straight fat and 41 by the 276,132 cows, having an average yield fat plus 2 method.

The quality of the May and June had contributed to the factories. weeding out bad breeding and to better feeding. During the year 607 silos had been erected, a falling off of 50 per cent. compared with the previous year. Since 1913, 2,677 siles had been erected.

The auditor's report showed that financially the association was in a strong position. Beginning the year with \$348.06 in the treasury, the books were closed with \$1,443 on hand. Prosecutions had yielded \$877.50, as against an expenditure of \$532.65 for prosecutor's salary and expenses. legislative grant of \$2,500, the grant of \$200 from the town and county of Renfrew and the revenue of \$250.75 from advertising were the other most important sources of income. In commenting on the question of prosecu-tions, Auditor J. J. Payne, Brimston, stated that he would much rather have seen the outlay for tals item in ex-

O-A.C. Farm Manager Discusses Annual Pastures.

Mr. Leitch, of the O.A.C., stated that yelieded an income of nearly \$17,000,000 that had been done at Guerph to de-in eastern Oh,axrio for the factory sea-vise a method of an objectmenting the Oh,axrio for the factory sea-vise a method of an objectmenting the Ohly a small amount of the butter such as are commonly found, by was packed in sellids, the most of it means of growing annual pasture mixbeing put up in prints and disposed tures. Remarkable results had been of by the manufacturer direct to the obtained by means of a mixture com-The greatest defect in the posed of one bushel of spring whe trade. The greatest defect in the posed of one bushed of spring wheeks or commery industry was the condition one of barloy, one of data, and six or of the cream as it reached the seven pounds of red clower as acres acreamery.

Reparding the quality of Ontario almost wholly sustained on 70 acres butter as determined by the awards from June 1st to September 18th obtained at the annual expositions at Most of the feed has been supplied by Toronto and Ottawa, while the (Comitmed on page 1st)

Trade increases the wealth and glory of a country; but its real strength and stamius are to be looked for among the cultivatore of the land. - Lord Chatham

VOL. XXXVI

TORONTO, ONT., JANUARY 11, 1917

No. 2

# Wanted: More Good Cows on Canadian Farms

How the Constant Use of the Milk Record Enables Dairymen to Increase the Output of Their Herds

WHO wants good cows? Naturally, anyone who attempts milk production. Every dairy farmer with a spark of ambition wants that satisfaction which the keeping of good cows imparts. Men who are not yet dairying, but believe in this cry of back-to-the-land, will want good producers. Are we to outfit our returning soldiers, when tired of raising roosters, with a mongrel deadhead, or a real dairy cow? One man has shown us from record sheets that he obtained as much in cash from his six cows last June as was brought in by the whole nineteen that made his neighbor's herd. The first man has applied the knowledge gained from cow testing.

Where Are Good Cows Wanted? Outside the strictly fruit or beef locality, there is plenty of room in this province for the extension of high class dairying. Cow testing will not

save from the heavy burden of poor cows, but, through proving the economical advantages of better feeding, the immense value of pure-bred sires, of the real worth of young stock and selected dams, will make for good herd building anywhere. Contrasts like those shown in the first table show that some poor cows still exist. But it is apparent that men hard by have succeeded in raising fairly good cows, able to return good profit and produce milk and fat at medium cost. If such extraordinary differences exist either in your own herd or in herds at any factory, is it not high time they were discovered? Happily our records show that better cows are being obtained; we all can sense the need of far more of the good brand.

No Danger of Lessening Demand. Again, good cows are wanted not only in these times of soaring prices, but for years to come as fine milkproducts are appreciated as choicest food. Artificial milk does not yet replace the natural nourishment, the universal staple; so the bogey of lessening demand need not frighten any one from wanting more cows. Indeed, with the growing demand for milk and the problem of farm help seeking to be solved, there is the more need for dairy records so that man power and cow energy may both be rightly directed and thriftily conserved. Records sent in to show, for example, a man with ten cows getting only thirty-six thou-

By CHAS. F. WHITLEY, In charge of Dairy Records, Ottawa.

sand lbs. milk, but a neighbor with six cows obtaining almost fifty thousand pounds, the good six do as much, therefore, as 13 of the other kind.

If there exists a widespread desire for good dairy produce, may we next see if cow testing answers the query why good cows are wanted. We can have and should have better cows to sustain and enhance the reputation already earned by Ontario dairymen.

Labor Saving Not All. No one wants or can afford to keep a poor

cow that grudgingly gives low returns. Cow testing can be relied upon to furnish the necessary reference as to any cow's standing in the commercial herd. No good excuse is available for stock-dealing with the type that is "long" on feed and "short" on milk, the thin margin of profit is wiped out far too easily. Legitimate stock business means herd building on sound principles among which cow testing has earned a position in the front rank. It is stated that 14 cows out of every 22 across the line do not pay: cow testing will save Canada from slavery at the heels of such cow tyrants. But labor saving is not all: the many golden hours of time apparently misspent on poor cows; the tons of feed they do not utilize could be invested with excellent returns in better types.

No Cow is Too Good.

There is no cow too good for Ontario dairymen. From amongst our members who weigh and sample each cow's milk regularly there come good orders to encourage the forethought of prominent breeders. One week last fall twelve pure-breds were purchased in one of our centres.

Our records abound with such results as these: Herds at Hallville, Oxford Mills and Perth giving over 8,800 pounds of milk, over 300 pounds of fat for each eight and ten cows; at Renfrew and Frankford herds of 13 cows averaging over 9,000 pounds of milk, and nine cows with an average of 11,000 pounds of milk and 352 pounds of fat. Beyond that we can instance good grade cows east of Toronto giving between 400 and 500 pounds of fat. On all such farms where cow testing is practised, satisfaction reigns. What is a Good Yield?

The standard of excellence may vary according to the owner's discernment, ability and opportunity. We find cows that dry off in six months having given only 2,200 pounds of milk and 80 pounds of fat. That type adds to the high cost of living, but the individual record of 8,000 pounds of milk and 280 pounds of fat, or more, makes higher living enjoyable.

Before our general average for herd, county or province can grow, there are the poor cows to be reckoned with. Those perpetually below an average. If each cow in your milk factory is made to punch the time clock of dairy records there is hope, but merely the faintest hope if tally is not kept of each individual. To deal only with a herd average adds little to our knowledge. Fortunately, the effect of an individual record means infinitely better results in a score of ways, the total cash in three hip pockets may be but eighteen bills. A has \$10.00, B. \$5.00

SOME CONTRASTS, DAIRY RECORD CENTRE WORK.

	The Ten Best Cows.	The Ten Poorest Cows (Mature).	Differ- ence.
Average yield, Ib. milk	6,406	2,459	3,947
Average yield, lb. fat	215	97	118
Value, milk at \$1.20	\$76.87	\$29.50	\$47.37
Feed cost per cow	34.04	27.85	6.19
Profit per cow	42.83	1.65	41.18
Feed cost, 100 lbs. milk	53c	1.13	60c
Feed cost, 1 lb. fat	16c	29c	.13c

Each one of the ten best cows made as much clear profit as twenty-five of the poorest. Taken from a dairy record centre in Eastern Ontario, where over 800 cows are under test.

INCREASES IN YIELDS, LISTOWEL, ONT., RECORD CENTRE FOUR YEARS COW TESTING.

No.		Last year's				Per cent. of milk inc-
A	9 .	 7,309	260	3,528	132	93%
B	17 .	 8,625	275	2,970	90	52
C	5 .	 9,445	300	3,216	108	51
D	9 .	 10,118	339	3,049	100	43
E	10 .	 10,197	333	3,541	114	53
F	16 .	 10,391	360	2,762	114	36

Can your herd not do just as well, or better?

The constant use of a simple milk record has shown these men how to secure another 3,000 pounds of milk per cow, and it can also assist any man, really in earnest, to add fifty per cent. to his income.

(Continued on page 6.)

an address delivered be tion of the Eastern On a Association, Napanes

# The Use of Sawdust as a Litter in Stables

Though Inferior to Straw It is One of Its Best Available Substitutes

THE scarcity of straw and ensilage, two of the most important roughages on the dairy farm, is making rigid economy in the use of everything of feeding value necessary this year. Since the straw, which is usually used for bedding, has also a feeding value, economy usually begins in the use of bedding. The farmer reasons, and rigially so, that when the choice has to be made for the animals between comfort and hunger, comfort is the first to be sacrified. Evidently the cow is of the same opinion, as she shows no scruples in eating her bedding, if it is edible, whenever the pangs of hunger become too pressing. She evidently agrees that a hard bed is rather to be chosen than an empty stomach.

The Wastage of Liquid Manure. A shortage of bedding has two effects: discom-

fort to the animal and the loss of the most valuable part of the manure. Unless the liquid portion is saved, the fortillizing constituents to be returned to the land are very materially reduced. Nearly half of the nitrogen and potassium from farm animals occurs in the liquid excrement. It is therefore important that this be saved through the use of sufficient absorbents.

The claims of aswdust as a material for bedding, both as an absorbent and for providing comfort for the animals, should,not be overlooked where a supply is available. It undoubtedly an-awers very well for this purpose. It is true, of course, that this product of the aswmills is not by any means the equal of atraw in this respect, which latter, after all is said and done, is the best and indeed an ideal kind of litter for use in the stable, but despite its general infeciority to straw as litter, sawdust proves very useful. The outstanding feature of sawdust, in so far

as regards its auitability for litter in stables, is that it possesses great absorptive powers for liquid, and in this particular respect it ranks considerably above straw. Whereas the absorptive capacity for liquid of straw amounts to only about two and a quarter times of its own weight, sawdust—provided it is perfectly dry—in capable of absorbing liquid to the extent of about four times its own weight. Thus, thanks to its great absorptive capacity, sawdust makes both a dry and a cleanly bed. It does not afford such a soft bed as straw litter, but still animals are quite comfortable on it, provided the sawdust is put down sufficiently thickly.

#### In Cleanliness it Excels.

Besides possessing great absorptive powers, sawdust also has certain deodorizing properties. which considerably enhances its value and usefulness as a bedding material for use in stables. From a hygienic point of view it is certainly in every way excellent, it being absorptive, cleanly, deodorizing and cool to the feet. Those who have never used sawdust as bedding in the stable may perhaps think that it is not particularly cleanly, but practical experience of it will soon prove to any one who has any doubt about it that there is no cleaner kind of litter. It is true that when the animal lies down on a bed of sawdust particles of the latter adhere to its coat, while some is also apt to adhere to its legs, but it can be easily brushed off, and there is certainly no reason why sawdust should be objected to as a bedding material on this account.

An epidemic of thrift and economy is sweeping over Canada. The man who contracts it, will find it has been no misfortune, during the adjustment lays after the war.

### Factors of Successful Management

Why Some Farmers Do Better Than Ohers

WHY is it that one man is more successful in farming than another? The answer usually given is that he is a better manager. But what are the factors of successful management? They must be susceptible of knowledge. They must be open to ascertainment. But little has been done in analyzing the business of Canadian farms; of singling out the different factors which contribute to the success of those who are making the most progress, and of comparing the relative values of these factors one



Madam Pauline Canary—Guelph Winner of Total Solids. Not—Fat.

She was second in her class and third in general standing at Guelph Winter

Fair. A fine type of animal with plenty of size, quality and constitution. Owaed

—Photo by an editor of Farm and Dairy.

with another. It is for this reason that we have got to look to the United States for sources of this information. There, investigations have been conducted in many different states and under wide differences of climatic and soil conditions. One of the best of these investigations was conducted in Missouri, where conditions are not dissimilar from these found in many of the southern counties of our Eastern provinces. This investigation, says O. R. Johnson, of the Missouri College of Agriculture, has indicated that the reasons for the

difference in the degree of success attained by the different farmers, lies in the following points:

#### A Good-sized Business.

The first is a goodsized business. A man must have enough land so that he can use his time and the time of his work stock and tools with the greatest efficiency. This means not less than 120 acres and not more than 500 acres for general conditions, the preferable size being between 200 and 400 acres. The proper amount and distribution of capital is necessary. The investment should not vary widely from the average of the region-either in investment per acre or in the distribution of investment. A farming system which furnishes a maximum amount of labor from which returns are realized either directly or indirectly, and which includes a minimum of labor from which no return is realized. Each workman on a farm should have provided for him not less than 160 days of productive labor, and each horse should have not less than 60 days of productive labor. Many farms run much below these figures.

Quality Next.

The second essential is a business of high quality. The first point in this connection is cropyleids. Yields should run from average to about one-fifth above the average for the region. The man who falls below the average in yields has an up-fill job. Not only must crop yields be good, but on farms where some feeding is done the feeding operations must be efficient. All classes of live stock should return at least \$140 for every \$100 worth of feed consumed, if good wages are to be realized for a man's time. Some of the best feeders get much more than this. Some classes

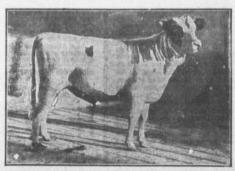
of stock can pay a profit by returning less than this, but in general this rate of return will give good wages and pay market price for the feed con-

Diversification Necessary.

A reasonable degree of diversity is also necessary for successfully operating a farm. Unless special or unusual conditions justify a highly specialized type of farming, a farm should have several sources of income to depend on. The cotton farmers of the south at the time the boll weevil appeared severe as a good illustration of the danger of having only one source of income. A man who is depending entirely on the sale of hogs is in bad shape if the cholera gets his hogs one year, but if a man has several sources he can lose one or perhaps two sources and still have some income. The most successful farms in the region studied had from three to seven or eight sources-probably three to six sources will give the best

roculto

In preparing lows for the test, it is well to have them dry for two, or better, three months, before freshening. In order to dry them quickly take away all feed including straw for bedding for 48 hours. Follow this up by putting them on half ration for one day and then gradually back to the full ration. This procedure serves to check the milk flow.



Humeshaugh Invincible Peter—Winner of Sr. Bull Calf Class at Gueiph.

He is a champion and the son of a champion, being a son of the Sr. champion bull at the Toronto Netional. A calf of quality and a coming size. Owned by

A. S. Turner & Son, Ryckman's Corners.

—Photo by an editor of Farm and Dairy.

# Bridle Breaking a High Spirited Colt

If it is Properly Done No Trouble is Met in Teaching Him to Drive

H. G. REED, V.S., Halton Co., Ont.

THE possession of a sensitive mouth is one of the most desirable qualities of a high-class-riding or driving horse. This quality can only be maintained by careful handling in the process of bridle breaking. The value of many a good young horse has been materially reduced by rough handling during his first experience of the bit. Not only has his mouth become unduly hardened, but undesirable habits, such as lugging on the bit, tongue loiling, tossing of the head, slavering, and so forth, have been acquired.

When a colt is bitted for the first time, and an effort is made to control the animal; he naturally resents the treatment, and the result will be bruised, lacerated and bleeding lips and gums. These injuries will heal, leaving a more or less hardened or callous condition of the parts, and the mouth has lost for all time the natural sensitiveness so necessary in that organ. Time and patience are required to properly bridle-break a colt, and the future value of the animal will well repay the owner for his trouble.

The First Lesson.

In bitting a colt for the first time simply adjust the bridle, using great care not to put any pressure on the bit, but letting the creature go at once in a paddock or box stall. Let the bridle remain on him for several hours. When it is taken off the colt will have had his first bridle besson. Next day repeat the operation, and so on, each day for probably a week. At the end of that time it will be found that the colt has become reconciled to the bit. He has never been frightened or hurt by its action, and feels perfectly comfortable with the bit in his mouth.

The next step is to put a surgingle and crouper on the colt. Put reins on the bridle and check him up slightly, and let him run loose in his paddock; repeat this treatment for several days, gradually tightening the check till the colt has become used to the situation and will stand with his head up, his nose turning inward toward his chest. It is good practice to have a strong piece of elastic in the check rein so that when the colt pokes his head out the elastic will have a tendency to draw his nose in again towards the chest. No colt should be either ridden or driven until he has been taught to freely turn his nose in towards the chest when the reins are tightened. In big training establishments an attachment called a "dumb jockey" is always used for this purpose. It consists of two upright pieces of timber crossed and attached to the surcingle, extending a foot or so higher than the horse's back. To this string elastic reins are attached. However, the use of the surcingle as already described answers the purpose very well.

In Harness.

After the colt has been bitted in this manner, lines should be put on the bridle and he should have his first lesson in driving. Put a set of harness on him (a set of single harness is best), pass

the lines through the shaft holders on the sides of the horse rather than through the rings on the back-band, and start him down the road; the trainer walking behind. The lines being down along his sides, makes it easy to guide him in a straight line. Give him exercise in this way for several days, teaching him to stand on the word "Whoa"; to go on at the word, and to back up when told to do so. He is then ready to be hitched. A colt prepared in this way will seldom give any trouble when hitched; either in single or double harness. When a reliable old horse is at hand it is perhaps better to hitch him double for the first few times, but if necessary it will be all right to hitch him single. Few colts will make any trouble for the trainer if gradually broken in this way.

It will be readily seen that a colt treated in this humane way will never have had his mouth in-



A Relic of Pioneer Days. .

The old potash kettle, in which many of the first settlers boiled down "black salts" is occasionally still seen doing duty as a watering trough. Snapped on the farm of F. R. Mallory, Hastings Co., Ont., by an editor of Farm and Dairy.

ure shed or left in box stalls, where it is thoroughly trampled, the loss of the important constituents is rendered inconsiderable. In losse piles it heats. The organic matter is broken down by aerobic organisms; that is, bacteria and fungithat require the presence of air in which to live

and work. In the process carbonic acid, water and ammonia are evolved; the nitrogen escaping in the am-monia. When consolidated by tramping so that the air is excluded, aerobic organisms cannot work. Fermentation then takes place as the result of the activities of anaerobic organisms, or those that thrive when the supply of air is limited. In this fermentation, only a slight rise in temperature occurs. and though there is some loss of nitrogen in the form of a gas, slight amounts of which are evolved, the

loss is not nearly



A Popular Piece of Good Road. Kerr Street, near Oakville, Ont.

A tarvia filled macadam laid down in 1915. Photo after one year's service.

jured. He has never been frightened or hurt, and his mouth will have retained the natural sensitiveness so necessary to a high class driving horse.

Winter Care of Manure Two Efficient Methods of Handling It

MANURE exposed in loose open piles loses

much of its nitrogen through fermentation
and its potassium and other mineral elements through leaching. The best way to avoid
this loss is to haul it to the field as fast as it is

made. Not only is the manure then handled with the minimum labor, but the work in connection with it is also disposed of at a time of the year when labor is cheapest, and when it interferes least with the other major operations on the farm.

Hauling to the fields is not, however, the only way of preventing losses due to heating and leaching. If placed in a manso great as when the mass is allowed to heat. One of the most important things to consider in caring for manure which is being preserved in the manner just described, is to see that it is kept sufficiently moist. In Great Britain it is a common practice, especially in dry weather, to sprinkle the manure kept in boxes and sheds if it gives evidence of becoming too dry. Well made rotted manure is a more concentrated plant food than fresh manure, and is preferred for light soils, which long manure would leave too open and liable to rot. It is also preferable for gardens and those crops which require a quick acting manure, that is, one that is quickly reduced to the simpler forms of plant food, so as to be readily available in a short time.

#### Basic Slag

A ton of basic slag contains about 250 lbs. of available phosphoric acid and from 1,200 to 1,300 lbs. of carbonate of lime. Carbonate of lime or ground limestone rock costs about three dollars a ton, f.o.b. at point of shipment. To this must be added the freight charges. The carbonate of lime in a ton of basic slag is therefore worth about \$2.50—provided the land on which it is placed is in need of lime.



When the Tractor Turned Balky—A Scene at the Whitby Tractor Demonstration.

Though the spectators admired the excellent work done they did not healtact to subject an engineer to good natured rullery when his tractor refused temporarily to keep moving.

—Photo by an editor of Farm and Dairy.

#### New COAL BEATS ELECTRIC OR GASOLINE 10 Days FREE Send No Money



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FARM & DAIRY

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#### Wanted; More Good Cows on Canadian Farms

(Continued from page 3.)

and C \$300, with an average of six. That may be mathematically correct, but far from being in exact accord with what each man owns. So, why treat your cows the same, why delude one's self by saying "my cows aver-age six thousand pounds of milk," when Annie gives you ten, Calamity but three?

#### Real Preparedness.

The weeding out process of pone good yields may be steadily raised, indicates some measure of preparedness, but the necessary advance step is that of increasing capacity. No need to remind you how Great Britain asto remind you how Great Britain as-tounds the world to-day with that marvellous unexpected capacity of hers. We have men prepared for dairying; but cows of capacity, big producers of milk and fat at medium cost, are essential. Lettle or no ex-cuse remains to-day for the cow that after due trial is found to scrimp a mean nine cents profit per pound of fat above feed cost when her stable mate bountifully clears nineteen; or for the kind that yields \$1.82 profit on twelve months' keep, a half a cent per day, when the cow that is available for any dairyman can roll up \$50 or \$60 profit.

So if the level of production in your herd is now 6,000 pounds of milk and herd is now 6,000 pounds of milk and 210 pounds of fat for each member be-fore you consider her efficient, cow testing will help you to raise the standard line to 10,000 pounds of milk and 350 pounds of fat, then from that vantage point leap again to higher

#### Another Successful E.O.D.A. Convention

(Continued from Page 2.)

land sown to the mixture recommend-ed. A full report of Mr. Leitch's ex-

cellent address will appear in an early issue of Farm and Dairy Experiments With the Milking Machina.

One of the newer labor savers for one of the newer abor savers for the dairy farmer was the milking ma-chine, said Geo. Rothwell. of the C.E.F. They had been experimenting C.E.F. They had been experimenting with the different makes. These they had purchased outright, so that they were at liberty to publish the results. In general, the milking machine was entirely feasible. They were labor savers, but were generally sold without giving the purchaser a proper insight into its care and operation. Those who bad purchased standard makes of machines and knew how to handle them were getting results. Rapid improvement had been made of late in perfecting the mechanical milker, and with a few mechanical refinements will soon be almost me-chanically perfect.

Tuberculosis and Contagious Abortion.
Two of the things that were menacing the dairy industry and that were not being remedled were tuberculosis and contagious abortion. One of the crying needs was some assurance that there will be work carried on in the study of these two diseases. Work was being started at Ottawa. It was usually found that by the time a cow had aborted three times she had im-munized herself, though some would become immune in less time than this. An immunized cow, however, would still be a carrier of the disease and still be a carrier of the discardance would infect her stable mates. There claims had been made for the methy-lene blue treatment in the United States, but their experiments had not borne out such claims. Its use was out of the question since the war

TO U. F. O. MEMBERS.

It is just possible that the date of the Annual Convention referred to elsewhere in this issue may be changed to a week or two later. Watch for definite announcement next week.

broke out as it was a German product and the price had gone to \$1,200 a pound. Cleansing, disinfecting solupound. Cleaning, disinfecting solu-tions were the only remedy now used, but it was hoped that a serum would be developed by which cows could be immunized to the disease. Censure For the Farmer.

Censure For the Farmer.

Censure For the Farmer.

The farmer was roundly condemned by Mr. A. A. Ayer, cheese and butter exporter of Montreal, for his indifference to the war. While other classes of the country were being taxed to the hilt for war purposes the farmer was being left severely alone. They were not doing their part, and were asked by the speaker if their patriotism was limited by profits. They had heard of men dying of prosperity, and there was a danger of that fate overtaking dulry farmers. The price of mill feeds had advanced only 50 per cent, in comparison with the increase in the price of produce. in the price of produce.

in the price of produce.

Devote a Day's Milk.

Dr. Jas. W. Robertson drew a compelling word picture of the devantation that had been worked by the war in France and Flanders, where he spent some time last fall in connection with Red Crose work. With great feeling he paid tribute to the officiency of the British navy, to the conduct of Canadian soldiers at the front, and to the splendid spirit of the war-refined men and women of France. At a later season he asked At a later session he asked the dairy men to devote the proceeds of a day's milk to the work of the Imperial Agricultural Relief of the Allies committee, the object of which was to assist the war stricken farm-ers of Belgium, France and Serbia to (Continued on page 15.)

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(7)

London Froducers Organizing

THE mills producers in the vicinity of Lendon have organized an as of London have organized an as-sociation and are endeavoring to put the null trade of that city on a better basis. The high and constantly rising cost of production, and the rising cost of production, and the necessity for securing prices that would adequately compensate them under the new conditions, was the ground on which the dairymen got together. District Representative and the production of the price of A. Pinn, in his departmental report, gives the following short resume of the organization work among the milk producers: "On account of the scarcity of rough feed, and the high price of grain, the dairymen in the vicinity of London have felt they were not gerting a sufficient price for their setting a sufficient price for their getting a sufficient price for their milk. They have been supplying milk to retailers and were only getting four cents a quart. They decided to or-ganize, and at their first meeting raised the price to five cents. They came to this office and asked for help along this line. After getting in touch with Toronto Wholesale Milk Produc with Toronto Wholesale Milk Producers, and a like association in Oxford county, we were able to draw up a constitution for them which they accepted without any changes. They decided to raise the price to five and one-half centra a quart, and if feed prices should warrant it on the first of January, they will make a further advance in price. As yet, not all the producers have joined the association, but about trenty-dve have. These men are all within a radius of ten miles of London. They also intend to cooperate in buying and selling supplies."

Wentworth Milk Producers Want Increase

HE striking of the word "unduly" from the former law regarding combines, and the activity of the Department of Labor in preventing concerted action on the part of milk producers in bargaining on the price they are to receive for their product, has left the milk producers in a quan-dary as to how to proceed in settling their difficulties with city dealers and in securing a fair price for their milk. It is stated that the retailers also heal-tate to work together for fear of governmental action. Considerable diffi-culty, therefore, is being met in settling the questions at issue between these two parties. A deputation of the Wentworth County Milk Producers' Association recently waited upon the Hon. I. B. Lucas, Provincial Attorney-Hon. I. B. Lucas, Provincial Attorney-General, for the purpose of ascertain-ing what lines they can operate on in case the retail dealers persist in their refusal to pay the advance price de-

In placing the case of the association before the Attorney-General, President J. P. Griffin stated that his association had not definitely decided association had not definitely decided upon the advanced price of milk supplied to the Hamilton dealers, but they felt that an increase from 21 to 24 cents a gallon, or \$1.92 a can, which is eight cents lower than the price paid in Toronto, would not be unreasonable. At the present price, the producers were loging on an average. producers were losing on an average of nine cents a gallon. He declared that the present wholesale water about under existing conditions. that Wentworth producers, of the lack of fodder, corn,

forced to purchase feed at prices, with the result that the prices, with the result that the losing an average of 72 cents are every can of milk delivered to the Hamilton dealers. In this connection, Mr. Griffin produced figures to show that, leaving out of consideration the tast, leaving out of consideration the overhead expenses, interest on capital invested, and the high cost of labor, it took 30 cents to produce a gallon of milk. The fear was expressed that,

should the producers refuse to deliver snound the producer's retuse to deriver to Hamilton, some of the Toronto companies might fill Hamilton orders, but this view was discountenanced by some of the Toronto producers, who claimed that the Toronto dealers had difficulty in securing milk sufficient to the toronto the control of the toronto the toro

supply their own trade.

After the Attorney-General had heard the arguments advanced by the producers, he advised them to take up producers, he advised them to take up the matter with their solicitors, so that they would not fall in danger of exceeding the regulations laid down by the new order respecting form-bines. The Hon. Mr. Ferguson also informed them that he could not promise anything definite until further investigations were made. It is likely the Wentworth producers will continue their agitation, and it is hoped that the rise in price can be secured without disturbance to the Hamilton milk trade.

#### Woodstock Milk Producers Amalgamate

THE milk dealers of Woodstock, Ont., are endeavoring to offset the rising price of milk by or-ganising to reduce the cost of delivery. ganising to reduce the cost of delivery. It is expected to effect considerable economy by doing away with unnecessary depication of milk routes. Local consumers are promised that, as a result of the reduction in the cost of distributing, made possible by the amalgamation, the price of milk will be reduced from ten to nine cents a quart as soon as the company starts operainstall a pasteurization plant, the first in Woodstock. The high cost and scar-city of labor is given as the reason for the amalgamation.

#### Dairy Notes

you must have the equipment with which to do it. Those grow grain have a granary. Every crop you produce, you have in condition to put on the market. The dairyman is keeping his cows on expensive land. He is selling all of his crops through them. What he gets pensive land. He is seiling all of his crops through them. What he gets from milk is his reward. Surely then, it is worth while giving the milk pro-per care in order that the resultant product may bring the best price pos-sfble.—G. G. Publow, Chief Dairy In-

structor, Eastern Ontario.

The best of salt should always be used when making butter. There are used when making butter. There are many good brands of dairy sait, but we always use the Windsor, which is out up in barrels.—Mrs. A. "Thomson, Wellington Co., Ont.
Adding enough preservative to keep the composite sample fresh without shaking after adding the

daily sample, gave the least mould in the bottles at the Ontario Agricultural College Dairy School. It was noticed that if cream was not allowed to spill on the sides of the bottle litts mould developed. Mr. Mac Robinson, of Belleville, suggests that the method may be improved on where powder is used by adding half the pre-servative when a composite sample is started and the other half when half the individual samples have been add-

One of the farmers' most troublesome problems is the equalization of labor throughout the year. Among suggestions for winter work are the following: Repair each piece of farm machinery, make tools and do other carpenter and repair work, oil and repair harness, haul manure, and repair harness, haul sharpen all tools, sharpen sickles, sharpen post for sharpen all tools, sharpen mower sickles, sharpen post for fences, prune orchard and other trees, clean seed, repair buildings (particularly inside work), and market grain and hay. Where cows freshen in the fall, the larger care in milking them and earing for their calves comes during the winter months. mower



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## Dairymen Want Legislation Postponed

E.O.D.A. Convention Passes Resolution to that Effect-Principle of Dairy Standards Act Commended—Country Not Ready For It

BEN is the interest taken by the experiments have already been dealt dairyone of castern Ontario in with in full in these columns and rethe legislation providing that quire no further comment. Mr. Zufelt after March Hat need the milk re-asked the pointed question, "Would be often dealth be paid for on a quality receive payment for your milk accordants are preceded, that interest ing to the number of cows whose milk was manifest at the Dairymen's con-you sent to the factor?" If makers vection at Napanee. The attendance, were out 10 lbs. in their weights, he larger than it has been at a conven velction at Napanee. The attendance, larger than it has been at a convention of the EDDLA. for the last eight or ten years, was evidence of this interest. The opponents of the Dairy interest. The opponents of the Dairy Standards Act are aggressive in their opposition, and when that part of the programme providing for the discus-sion of the Act was reached, a Prely discussion took place. A consider-side proportion of those in attendance was from those districts in which the some proportion of those in attendance was from those districts in which the opposition to the Act has been most marked, and the scriment of the meeting reflected this attitude. The result was, therefore, that when the result was, therefore, that when the result was, therefore, that when the continuity of decision came a resolution that the continuity of the continuity to postpone the date of carrying the was dairy legislation into effect be post- be a poned until a further campaign of enough education regarding quality payment Mr.; be carried on was agreed to.

Mr. Roadhouse Opens Discussion. "It could not be expected that con-ditions that had existed for thirty years could be disturbed without caus-ing pain," said Mr. W. Bert Roadlag pain," said Mr. W. Bert Road-house in opening the discussion on the new Dairy Standards Act. "From the start there has been difference of opinion as to which of the various systems of quality payment was nearest right; there has been no dif-ference of opinion, however, that the nooding switch was the further force. ference of opinion, however, that the pooling system was the furthese from the right method." After outlining the method by which the Act had been dearlted and placed before the poolie. Mr. Roadhouse stated that people, Mr. Roadhouse stated that of the proper of commendation for the poolie of the property of commendation for the property of t the move was with the trend of the times. He then referred to some of the objections that had been raised. To those who said that the principle was all right but that it wouldn't work in practice, the answer was that it was working in 10 per cent. of the factories of eastern Ontario; 86 of which had adopted the quality basis of payment. Some had objected on the ground that the legislation was arbitrary, but that could be said or an-legisfiation. In this case it was neces-sary to logislate on the matter in order to do justice to all. This was not an objection, but a proof or un-formity. "We didn't ask for it," said arbitrary, but that could be said of all some, but since there had been a per sistent discussion of the matter for over 20 years it could not be said that over 30 years it could not be said that the Legislature hab broken the apeed laws in framing it. One way of judg-ing public opinion was by the press, and the agricultural press of Ontario had, without exception, favored that legislation. Time had been given, overy means to facilitate the smooth working of the Act had been provided.
The close of the war would see a scramble for trade, and he believed that this legislation would put the cheese industry on a sounder footing to meet the demands of such times, since it would guarantee to each patron of cheese factories a fair share of his returns from the cheese indus-

The experiments that were conducts would destroy it and two or three dedto find out the amount of cheese eff factory. If the Act mean a destroymilk of different percentages of the toperation, they would be better withwere explained by Mr. Zufelt. These

(Continued an area Mr.)

said, the patron called him to time, and rightly so, yet the richness of the milk he sent to the factory had much more to do with the amount of money he received than a slight mistake in the

weighing.
At this point a young farmer asked
the question, "Is there a danger to the
breeding of datry cows in that farmers
would, instead of taking the long road
to breed up for higher fat readings,
take what might appear to be a short
cut, and cross breed to their testing
the control of the control of the control
that detarmined her value but the
combined milk and fat production. It
was conceivable that a 2.5 cow would
be a profitable one if she gave milk
enough.

Mr. Zufelt went on to say that the curse of the dairy business was the lack of discrimination in the value of our cows' production. It resulted in grading down to the poorest, instead of up to the best. The proper enforcement of the Dairy Act would do more for the upbuilding of the dairy indus-try in Ontario than all the cumula-tive legislation of the last 20 years.

Mr. Ayer raised a tremendously important point when he stated that cheese from high testing milk lacked the body that was required by the Brit-ish market. He showed plugs of cheese taken from exhibits in the hall, one of taken from 4.2 milk and the other from 3.0 milk. The latter was much firmer and, said Mr. Ayer, was more what the market required. He was not opposing the dairy Act, but wish-ed to point out to dairymen that smilk could be too rich for making good export cheese

A Vigorous Protest.

Jas. McCormack, of Richmond Hill Jas. motorimes, or the entered a vigorous protest against the entered a vigorous protest against the legislation. "There are very few men sending 4.2 per cent. milk to facentered a vigorous protest against the legislation. "There are very few men legislation." There are very few men sending 4.3 per cent. milk to factories," he said. "The average is around 3.5 per cent. and there is not around; hariation from this to warrant ounce hariation from this to warrant any such legislation." A few men, he arated, had studied the matter, and stated, had studied the matter, and had the legislation put through with-out asking the farmers whether they wanted it or not. The members of the legislature had worn cushion-soled legislature had worn cushion-soled boots when they were passing the Act so that the farmers would not find out what they were about. Now they were sending men around with sugar cost-ed speeches to tell them what had been done, but the sugar would soon melt off and the farmers would tasts melt off and the farmers would taste the aloes. They did not want a conservation and a conservation over them at every cross road.

A Resolution Introduced.
W. J. Paul, M.P., then took the platform. He paid a high tribute to Mr. Publow, Mr. Zufelt and the instructors under them. Regarding the Act he said that it was easy to bring arguments to support it, but not so easy to argue against it. The question they should all ask themselves, how-ever, was how was it going to affect the situation. The results, he feared, would be disamointing. Two or three disgruntled patrons on a route of ten



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"Read not to contradict and to confute, nor to believe and take for granted, but to weigh and con-sider." Pacon.

#### Lowering Production Cost

HE high cost of living, by which reference is commonly, though incorrectly, made in particular to foodstuffs, is not an incidental thing. True it is that war and the crop shortage has resulted in abnormally high prices, but these are not the only factors to be taken into consideration. Deep-seated social and economic conditions, entailing a shifting of population with a resultant disproportion between the numbers of producers and of consumers, have been the cause of the gradual rise in price of all the products of the farm since the early nineties. Since then the trend of prices has been generally upwards. Slight fluctuations have occurred, but the tendency has been too strong to be checked by depressing influences for any length of time. Now the climax seems to have been reached.

In attacking the problem of the high cost of living, it is necessary to take cognizance of those conditions which have been its main contributing factors. Isolated attacks on the producers of eggs here and of city milk there, though they may have a certain political effect, will never make any appreciable or permanent reduction in the cost of living. There is much that can be done, but the duty that seems hearest to hand, is to strike at those interests which seek to enhance prices by creating artificial shortages, rather than to drive out of business those who are doing their best to increase production. Another thing to do is to recognize that the steady march of prices upward has not been sufficient either to attract men to the land, or to hold those that were there. The reason of this is not far to seek. The gradual increase in prices of the last twenty years has been accompanied by a corresponding increase in the cost of production, and there are not wanting those who say that the condition of the average farmer shows but little improvement over what it was during the period of low prices that prevailed a generation ago. Lowering the cost of

production for the farmer would mean the lower ing of the cost of living for the city consumer. The cost of producing the foodstuffs turned out by the average farmer each year is, according to our most capable agricultural economists, unnecessarily increased by at least \$200 by the tariff alone. The supply of foodstuffs will be increased and the prices lowered only by widening the margin between the farmer's receipts and expenditures, thereby inducing more men to engage in agriculture. Threats of terms in tail for collect ively protecting their interests is a poor way of encouraging men to become or remain farmers, and is, therefore, a poor way in which to attack the problem of the high cost of living.

#### Traffic Regulation

THE need for regulations by which some conroads can be exercised is strongly favored by many of the farmers we have met. The bene fit of such control has been amply demonstrated. For instance, Prince Edward county some years ago passed a bylaw compelling all people drawing loads over their county roads to use a certain width of tire. The advantage of this is now quite obvious to those who use those roads. It has saved the roads in a way that possibly nothing else would have done.

There are certain seasons of the year when the control of heavy traffic is more urgent than at others. If heavily loaded motor trucks, or even heavily loaded wagons are allowed on the roads when they are not in a condition to carry them, almost an irreparable damage is done. In the spring of the year, a wagon or motor truck carrying a load of from two to eight or ten tons will often break through the crust of stone or gravel that forms the wearing surface, and other vehicles following soon widen and deepen the rut thus started until if becomes dangerous and perhaps impassable. If, however, there was some restriction placed upon these loads, making the load carried in accordance with the condition of the road, much of this damage could be avoided. Even when we get all our main lines of traffic built with the most approved and scientific methods, the same trouble will prevail, unless the load is restricted

The initial cost of our permanent main roads runs into thousands of dollars a mile. It would be far from wise to allow them to be speedily broken up by the city dray man or the thoughtless farmer, who think only of their own selfish ends. The control of traffic should be one of the questions considered by both the government and the county councils when working out their good roads systems.

#### The Made-in-Canada Slogan

HE Howard Smith Paper Mills, Ltd., in sending out a Christmas card wishing their customers the compliments of the season, suggest as a resolution for 1917 the following: "I will buy only goods made in Canada." To emphasize its importance, they print in red ink the words, "Made in Canada."

As a general rule, Farm and Dairy prefers to buy goods made in Canada, and therefore has no objection to the slogan in question, excepting to the fact that it is frequently used to cover an immense amount of hypocrisy. Let us take the paper mills as an example.

The theory is that we should be willing, for patriotic reasons, to give Canadian goods the preference, even although we may lose a little in other ways by so doing. At present the paper mills in Canada are insisting on about doubling the price of paper to Canadian consumers, and even in trebling it in some cases. They claim that they can obtain a market for all their paper in the United States, and are shipping immense

quantities of it to the United States. It has been pointed out to them that if they continue to ship paper in this way it will mean that many Cana dian publications will have to cease publication. It has been proved by Government investigations that the cost of producing paper has not increased in anything like the proportion that the paper mills are advancing their prices, and it has been suggested that the paper mills continue to supply the Canadian publishers with paper at a reasonable advance while they charge foreign publications as much as market conditions will permit. To all of this the paper mills have turned a deaf ear. They prefer to sell in the United States or wherever they can get the highest price, and allow Canadian industries that may be adversely affected by their action to look after themselves. If we are supposed to buy made in Canada goods, ought not the firms who advocate the adoption of such resolutions to be willing to sell in Canada in preference to selling abroad, even though they may have to lower their price a little to do so in order to promote the interests of the country?

We frequently see another form of the same brand of deception when town and city merchants proclaim from the housetops that you should spend your dollars in your home towns and villages and thereby build up your local industries. According to these men it is almost a sin to send money away to another town to buy goods that you may need, even if you can buy them cheaper by so doing. The deception in this case consists in the fact that these men do not take their own medicine. Take a grocer for instance. There may be a wholesale grocer in his own town, but does he buy all his supplies from this wholesale grocer? Not by a good deal. He buys his supplies from the travellers representing wholesale grocery firms elsewhere, who will supply them the cheap est, and he would think himself fearfully abused if the public expected him to do anything else. The same is true of every other merchant. They would not think for a moment of buying their supplies only from their local wholesale houses, but prefer to buy and do buy wherever they can to the best advantage. Yet these are the men who demand that the public shall buy only home-made goods. Isn't it about time that we got wise to how these cries are used to deceive us for the sake of financial gain to the men who play on our loyalty for their own purposes?

When cows are being fed for high records so that the cost of feed is of minor consideration, or in cases where the number of cows is too small to warrant the use of a silo, sugar beets are one of the best sources of succulence. They tend to increase milk production, but corn silage is far more economical as a source of succulence for ordinary purposes where many cows are kept.

Ten years' experimental work in Ohio has shown that two pounds of dry matter can be produced in the form of silage at a less cost than one pound in the form of sugar beets. The convenience in feeding is also in favor of silage.

Recent investigations at the Ohlo Experiment Station, in which it was endeavored to discover the peculiar tastes of horses in the selection of the most palatable feed, have shown that they prefer mixed clover and timothy. Brome grass was also to their liking and timothy hay stood third. None of the horses were fond of tall oat grass, while blue grass and red top also stood near the bottom of the list for palatability.

Plowing 15 inches deep, with a subsoil plow following ordinary plowing, has been found unprofitable on test plots at the Ohio Experiment Station. Subsoiling has produced an average increase of less than half a bushel to the acre. Corn yields have been increased only one to two bushels an acre, clover has shown no benefit, while cats have yielded most with ordinary plowing.

#### Programme for the United Farmers Convention

THE approaching third annual convention of The United Farmers of Ontario, judging from the interest being taken in the movement throughout the province, will be the most largely attended and in certain respects the most important yet held by the Association. It will be held in Torouto, Wednesday and Thursday, February 7 and 8. The first deart of the programme was completed at a meeting of the executive committee of the Association, held hast week in Torouto. Last year a considerable proposition of the time of the convention of the Association, the office of the Association, the office of the Association, held hast week in Torouto. Last year a considerable proposition of the time of the convention of the United Farmers of Ontario was completed in discussing business matter than the order of the United Farmers of Contario was considered in the Association of the Contarion of the United Farmers of Contarion was the tension to public issues, six is done at the farmers' conventions in Western Camada, and leave the business affairs to be discussed at the annual meeting of the sharefulders of the company.

The most important matter that will come before the convention will be the farmers' platform, drafted at the recent meeting of the Canadian Council of Agricukture, beld in Winnipeg, and which has been submitted to the various provincial organizations to be passed upon by them, as well as by as many locals as possible, and if approved, to be ratified and adopted as the national platform of the farmers' organizations in Canada. Almost two full sessions of the convention will be devoted to the discussion of this mater. An outline of the platform was published on page 11 of the Docember 14 issue of Farm and Dairy. We are planning to republished in full in an early issue. The draft of the programs, as adopted last week, is as

The ovening accision, Wednesday morning, will convene at 10 o clock, and will be a closed meeting for delegates, secretaries, and those invited, on presentation of cards. There will be the reading of minutes and communications, reports of standing committees, the appointment of committees, the appointment of committees, the appointment of committees to deal with railway certificates, credensials and resolutions, the filing of notices of motion, the presentation of the directors' report and financial statements, and the report of the sec-

At the afternoon session, which will open at two o'clock, the first item will be the nomination of officers and directors. The object in placing this so early on the programme is in order that the convention may become better acquainted with those who are nominated before the election takes places, which will be held the following morrising. Following this, President B. H. Halbert will deliver his presidential address, and there will be a report by the delegates who attended the meeting of the Canadian Council of Agriculture at Winnipeg. The rest of the session will be devoted to a general discussion of the farmers' ristorem, as prepared by the Canadian Council of Agriculture for consideration by the provincial organizations. This discussions will be led by leaders of the farmers' movement is Ontario. It is expected that a couple of leading farmers from Western Canada will be Y. Wood, President of the United Farmers of Alberta, and R. B. Henders, President of the Mankoba Grain Growers' Association.

The subjects to be discussed will include the tariff as it affects the furner; the placing of a direct tax on unpreved lend values, including all natural resources; the fuvoring of a sharply graduated income tax; a beavy graduated inheritance tax on large estates; a graduated income tax on the profits of one-postelone over 10 per cest. The advance lity of urging the following reforms will be dis-

cussed: The nationalization of all railways, telegraph and express companies; the unging of the government not to alkenste any more natural resources from the Crown, but have these brought into use only under short-term leases in which the interests of the public shall be properly afeguarded, these leases to be granted only by public audion; direct legislation; the publicity of political campaden Tunds contributions, and full provincial autonomy in liquor legislation, including its manufacture, export and import. Men well posted will be asked to lead the discussions on these subjects, and as much information as possible relating to them will be gathered and submitted to the convention.

Thursday Morning Session.

At the Thursday morning session the first item of business will be the election of officers and he report of the secretary Mr. J. Morrison. The the secretary Mr. J. Morrison. The the election of the secretary Mr. J. Morrison. The the delegates, who will be given full opportunity to dis ass any problems relating to the in- ment that they desire. The speakers will be limited to five-minute addresses. Pollowing this, there will be the reports of the committees and the adoption of final resolutions, after which the convention will adopture.

The annual meeting of the share-holders of The United Farmers' Company will be held Thursday afternoon and possibly Thursday evening. A suggreetion has been made that a banquet shall be held Thursday evening, at which Premier Hearst and Mr. N. W. Rowell shall be invited to deliver addresses, the concluding address to be given by some prominent farmer. If it is found that time or other factors do not permit of the making of arrangements for such a banquet, then the meeting of the shareholders will probably be continued Thursday even

The executive committee decided to endeuvor to have printed copies of as many of the reports as possible ready for distribution at the convention, so that the delegates will be able to take them home and use them when presenting reports to their clubs.

#### Cooperative Live Stock Marketing in Grey

THE possibilities that lie ahead of the organized farmers of Ontario in marketing their live stock cooperatively are well foreshadowed by the work of a club in Grey county that has been operated this season with marked success. In his departmental report, District Representative Laughland, of Simone, refers to the activi-

legion, District Representative Laughland, of Simoce, refers to the activities of the club as follows:

A farmer who ships live stock for

Lub and the club as the content of the content o



#### Seed Potatoes

Seed potatoes are likely to be scarce. Parties placing their orders early will tend to avoid disappointment.

#### Corn

Corn shipments are now coming forward slowly. Freight congestion is still delaying deliveries along the road. Saturday, Jan. 6, the price on all feeds closes firm.

#### Cottonseed

We are able to offer favorable prices on cottonseed meal for parties who can wait a few weeks for delivery. Grass-seeds have had an indication of advanced prices.

#### Seed Corn

Seed corn points to being very scarce. Those who order early, we think will be wise. Those in need of commercial fertilizers, should write us for quotations. Get our latest prices on groceries and oils.

Don't forget that we can supply you with cutters and sleighs.

#### NOTICE TO CLUB SECRETARIES

Please advise our central office the date of your regular meetings. We want you to have our latest price-list just before you meet. Write us the date to-price of the date o

# The United Farmers' Co-Operative Co.

"THE ONTARIO FARMERS" OWN ORGANIZATION"

Ilo Church Street Tor

Toronto, Ont.

# Feb. 1 Poultry Magazine Number

One of the most popular issues of the year with "Our Folka," and one of the best "pulling," issues for the advertiser. Get your strongest copy in it. Write us for reservations.

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# GASOLINE ENGINES! TANKS!! GRINDERS!!

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insure quick action.

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Write to-day for the prices

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2 Cylinders only for 5 h.p. GRINDERC:

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ONTARIO WIND ENGINE & PUMP CO

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West soon after that.



THEN the fight begins within himself, a man's worth something. -Browning.

# Winning the Wilderness

(Continued from last week.)

(CHAPTER III.-Continued \*HE pelting rain and deepening chill made the little home a very snug nest that night. There very snug nest that night. There was only one stove to warm the house, but they kept up a fiction of parlor and dining room, kitchen and bed chamber. Even the library was there, although it encroached dreadfully on the parlor, bedroom and kitchen, all bree, for it consisted of space enough the parlor.

for two chairs, one footstool, and a tiny lampstand, beside which they spent their evenings. "Who's likely to drop in to-

night, and what's the programme for the evening: charades, music, readings, dancing cribbage, or political speeches?" Asher inquired.

They had invented all sorts

of pastimes, with make-believe audiences, such as little chil-dren create for their plays. For these two were children in a big child world. The wilderness is never grown up. It is Nature's little one waiting to be led on and disciplined to mature uses. Asher and Virginia had already peopled the ma had already peopled the valley with imaginary settlers, each one of a certain type, and they adapted their pastime to the particular neighbors whom they chose to invite for the evening. How little the help-less folk in the city bored with their own dullness, and depen-dent on others for amusement -how little could such as these cope with the loneliness of the home on the plains, or comprehend the resourceful-ness of the home-makers

"Oh, let's just spend the on, let's just spend the evening alone. It's too stormy for the Arnolds and Archi-balds beyond the Deep Bend, and the

Spoopendykes have relatives from the East and the Gilliwigs are all down with colds.

Virginia had tucked herself down in the one rocking chair, with her feet on the footstool.

"It's such a nice night to be to our-selves. Watch the rain washing that west window. It's getting worse. I al-ways think of Jim on nights like

"So do I," Asher said, as he sat down in the armed chair he had made for himself of cottonwood limbs with for nimself of cottonwood limbs with a gunny sack seat. "He's all alone with his dog these dark nights, and loneliness cuts to the heart of a man like Jim. I'm glad I have you, Virginia. I couldn't do without you now. ginia. I couldn't do without you me The rain is getting heavier eyery minute. Sounds like it was thumping tigten to that wind!"

minute. Sounds like it was twind!"
on the door. Listen to that wind!"
"Tell me about Jim, Asher. What
made him come out here anyhow?"

"I don't know all the story. Jim has never seemed to want to tell me,

and I've never cared to ask him," Asher replied. "When we were away Asher replied. "When we were away together at school, he was in love with one of the prettiest girls that Ohio ever grew. She lived in the country up the valley from Cloverdale. Her name was Alice Leigh, and she was a whole cut above the neighborhood. Jim said she we the Jim said she was an artist, could do wonderful things with a brush and she was just wild to go somewhere and

west soon after that. When I went back to Cloverdale, Tank Shirley had married Alice Leigh and her mother's farm, and Jim had left the country. I ran on to him by accident up at Carey's Crossing when I came West again, but I've never heard him say a word about the matter, and, of course, I don't mention it, although I believe it would do Jim vended to he believe it would do Jim good if he could bring bimself to tell me about He's never been quite the same e. He has a little tendency to lung trouble, which the plains air is taking out of him, but he's had a bad attack of pneumonia, and it's an old attack of pneumonia, and it's an old enemy of his, as it always is to a man of his physique. He's a good worker, but lacks judgment to make his work count. Doesn't really seem to have much to work for. But he's a friend to the last ditch. Just hear the rain!" to the last ditch. Just hear the rain."
"It seems to be knocking against the door again," Virginia said, "and how the wind does how!! Poor Jim!"
"Listen to that! Sounds like something loose against the window. There's something out there." Asher

There's something out there." Asher started up with the words.

Something white had seemed to splash up against the window- and drop back again. It aplashed up a second time, and fell again. Asher hurried to the door, and as he opened it. Pilot, the big white-threated dog from the Shirley claim, came bounding in, so wet and shazgy he seemed to bring all the storm in with hard.

"Why, Pilot, what's the news?"



A Strip of Good Road west of Norwich, in Oxford Co., Ont.

"Jim was planning always how to give her the opportunity to do if, but her mother, who owned a lot of land for that country and could afford to send Alice away to study, couldn't see any dollar sign in it, so she kept her daughter on the farm."

Asher paused and looked at Vir-

Asher paused and looked at Virginia. His own happiness made his voice tremble as he went on.

"He has a brother Tank. I suppose his real tame is Thaddeus, or Tantalus, or something like it; I never knew, and I never liked him well enough to ask. Tank was a black-eyed little runt whom none of the boys liked, a grasping euss, younder than Jim, and as selfish as Jim is kind. kind

Just before I came West to scout the Indians off the map, Jim came back to school one time so unlike himself that I made him tell me what was the matter. It was Tank, he said, who was making trouble for him up in the Leigh neighborhood, and he was so grieved and unhappy, I wouldn't ask any more about it. I left for the

Asher asked. "Jim's sent him, Virgie. He's done this trick often." Pilot slipped to the warm stove and shook a whole shower out of his long.

snook a whole shower out of his long, wet hair, while Asher carefully untied a little leather bag fastened to the collar under the dog's throat.

"You brave fellow. You've come all the way in the rain to bring me this."

He held up a little metal box from which he took as his owner. Boxt.

which he took a bit of paper. Bending close to the lamp, he read the message it contained.

sage it contained.
"Something is wrong, Virginia. He says, 'I need you.' What's the matter with Jim, Pilot? Come here and get up in the chair!"

The dog whimpered and sat still. "Come out here, then! Come on, I tell you!" Asher started as if to open

the door, but the dog did not move.
"He's not out of doors, and he isn't sitting up in a chair. Tell me, now, Pilot, exactly where Jim is! Jim, mind

The dog looked at him with watchful eyes.
"Where's Jim? Poor Jim!" Asher

When I went repeated, and Pilot, with a sorrowful nk Shirley had yelp, stretched himself at full length ide the stove. 'Jim's sick, then?"

Pilot wagged his tail understand-

Virgie, Jim needs me. I must go Asher looked at his wife "If Jim needs you, you'll need me," she replied.

she replied.

"And ye'll both need Pilot, So we'll
keep all the human beings together,"
Asher said, as he helped his wife to
fasten.her heavy cloak and tie a long
old-fashloned nubia about her head.
Then they went out into the dariness and the chilling rain, as neighness and the chilling rain, as neigh-

to neighbor, answering this cry for help.

Pilot ran far ahead of them and was waiting with a dog's welcome when they reached Shirley's cabin. But the master, lying where he caught the chill draught from the open door, was rigid with cold. A sudden attack of pneumonia had left him helpless. And to-night, Pilot, doing a dog's best, did not understand the danger of leaving doors open, and of joyously shaking his wet fur down on the sick man to

his wet fur down on the sick man to whom help was coming none too soon. "Hello, Jim. We're all here, doc-tor, nurse, cook, and hired man, and the little dog under the wagon," Asher et A chagrily, bending over Jim's said cheerily, bending over Jim's bunk. "That pup pretty nearly killed

bunk. "That pup pretty nearly kineu you with kindness, didn't he?" Jim smiled wanly, then looked blankly away and lay very still. The plains frontier had no

use for the one talent folk. Peo-ple must know how to take care of life there. Asher's first memory of Virginia was when she bent over him, fighting the fever in a prison hospital. He knew her talent for helping had fairly estimated her quick ingenuity for his sod house emergency. But a new vision of the plains life came to her as she watched him, gentle-handed, swift, but nim, gentle-nanded, swift, but unhurried, never giving an inch to the enemy in fighting with death for the life of Jim Shirley.

"He's safe from that con-gestion," Asher said when the morning broke. "But his fever will come on now."

"Where did you learn to do all these things for sick peo-ple?" Virginia asked.

Partly from the hospital nurse I had in the war. it's a part of the game here. I learned a few things fighting the cholera in sixty-seven. We must look everything on the frontier squarely in the face danger and death along with the rest, just as we have to do everywhere else, only we have to depend on each other more here. Hold on there, Jim!"

Asher sprang toward Shirley who asher sprang toward shirtey, wo vas sitting upright, staring wildly at the two. Then a struggle began, for the sick man, crazed with delirium, was bent on driving his helpers from the cabin. When he lay back exhousted at length, Asher turned to his

"One of us must go to Carey's Crossing for a doctor. You can't hold Jim. It's all I can do to hold him. But it's a long way to Carey's. Can you go?"

try," Virginia replied. Asher remembered what Jim had said on the windy September day: "She's

as good a woman as we are men."
"You must take Pilot with you and "You must take Pilot with you and leave him at home. You can't get lost, for you know the way up to the main trail, and that runs straight to the Crossing. Dr. Carey knows Jim, and he will come if he can, I am sure. He pulled Jim back once a year or two ago when the pneumonia had him. Ago when the pneumonia had him. Heaven a sate-you brave little. (Continued on page 15.)

#### The Upward Look

Others' Burdens

BEAR ye one another's burdens, and so fulfil the law of Christ.—Gal. 6: 2

1 know a hero. I can fancy his smazement if he know I called him that. He is married to a wife with a diagraced and degraded family connection. In this, her brother's family, there are support the same than the s there are young, innocent children, not too young yet to be beyond saving That hero is straining every nerve to help that family in every possible way. His wife is bitter and prejudiced; he is lowing-hearted and fair. Though he is insuited and mistricture. Though he is insulted and misjudged, he 

be heavy, distasteful and unwelcome, be heavy, distanceful and unwelcome, neverthelesses, often it must become ours. One of the bard ones to carry is when the read owner is utterly unappreciative, and to whom it never coccum to express any graditude. Again, there are those who cannot understand why we take their burdens, and yot we know we must. Que of the heaviest leads is when our motives are mishipdeed, and we

our motives are misjudged, and we must carry those same under the additional one of blame and criticism.

But with the anxiety, the heartache, the discouragements, always comes the joy of conscience-freedom. There are also always so many who are truly grateful and appreciative. A letter was received this morning, which will was received and heart-glow for many a month, so warm was the gratitude ex-pressed and hearty the offer of welcome assistance, from one who had not come assistance, from one who had not before been able to do anything in return for help gladly given some years ago and since almost forgotten.

Have you ever spent grudgingly a precious hour listening to the recital of another's burdens? But have you not been amply repaid at the end by the evident rollef it was to the teller? Then whatever the comp Then whatever the compensations, or the lack of them, we know gratefully that there is One who understands all, our motives, our difficulties and our endeavors.—I. H. N.

A Wonderful Power of "Come Back"

Mrs. Wm. Todd, Orillia, Ont.

UR war work as a Women's Institute could not have been possible had we not already been a strong working force. The silent, unobtrustive work that went on for 15 years before the war has made it possible to do the work that we have. This women's organization is an organization of all time. There is no ganization for all time. There is no circumstance in which it cannot serve. we are dragged down. In our institute we have a band of real women, and hard-working women, who come from the farms of the country, and we have the truest aristocracy right on our

We do not count it a small thing to onsider a properly balanced diet of cods in our family. Neither is it a little thing that in this province of On tario there are over 30,000 women who are being trained in the Institute in all the principles of parliamentary rule.

Some day this will mean a great force We have so much destruction to-day that it is very helpful to know that in the Institute we can work together nicely, and we are building and con-structing all the time.

In connection with Red Cross work our Women's Institute in Simcoe has raised \$3,600 for special purposes. We have donated a motor ambulance, two field kitchens, and added to the comfort of our own Simcoe bat-tailon, as well as given to the British Red Cross. In doing our patriotic work we have not neglected our own local work. The number of branches in East Simcoe has increased from 14 branches to 19, and every branch is alive. We have done our special work and our own work as well.—Extract from an address given at the Women's Institute Convention, Toronto, last

Life Is What We Make It

ET'S oftener talk of nobler deeds, And rarer of the bad ones, And sing about our happy days, And not about the sad ones

were not made to fret and sigh, And when grief sleeps to wake, Bright happiness is standing by-This life is what we make it.

Let's find the sunny side of men, Or be believers in it;
A light there is in every soul
That takes the pains to win it.

Oh! there's a slumbering good in all, And we perchance may wake it; Our hands contain the magic wand; This life is what we make it.

Then here's to those whose loving

Shed light and joy about them! Thanks be to them for countless gems We ne'er had known without them. Oh! this should be a happy world To all who may partake it; The fault's our own if it is not— This life is what we make it.

Discipline Will Beautify Character

Mrs. P. J. Bowers, Pontiac Co., Que.

OW much capital should a young
man have before asking a girl to
marry him? Well, I should say it all depends on the man and the woman. If she has the strength and determination to put her shoulder to the wheel and keep it there, and if he is of a thrifty and sober family, they may safely get married on expecta-tions. It will be a long uphill fight, however, and when bad health and babies come to cause expenses, there will be many heartaches.

The young man should hesitate to take a girl from a loving, comfortable home into poverty and hardship. He must know that his love does not compensate her for the loss of all she leaves although or leaves, although many men and young girls feel that way when in love. He ought to have reasonable hopes of providing a home and furnishing it, be it ever so humble, before he proposes marriage. That ought not to be se

marriage. That ournt not to be no difficult in these times. I know a young man who has saved 4500 in two years and supported a family. He has made a payment on a farm and has commenced already to build. He could not save anything while single, so perhaps we should not discourage the penniles; boy. If he is willing to save and she is willing to do without all the luxuries of her father's home, and if they both have good health, then let them get mar-ried. The discipline of sacrifice will heautify their characters and make them more devoted and forbearing with each other as the years pass, and a home and family reward them for their courage and industry.

Planting shrubs and trees that pro duce fruits eaten by birds is one way of attracting them.





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Over Night With Friends in Hastings County

By R. M. McKE.

O NE day last summer I boarded the train at Peterboro and is enough water in our cistern at the meeting at Madoc, Hastings Co. Ont. It was impossible for me to get may be a summer of the meeting at Madoc, Hastings Co. Ont. It was impossible for me to get may be a fair back to Peterboro that night, are not may be a fair back to Peterboro that night, are not may be a fair back to Peterboro that night, are not may be a fair back to Peterboro that night, are not may be a fair back to Peterboro that night, and be a fair back to Peterboro that night, and the distinct on the proposed of the pro

hage.

As it was my first visit to the Harris home, I was naturally interested in the surroundings. Their house is quite new, being built only three or four years ago. It is very attractive and comfortable looking, both inside and confortable looking, both inside out. The rooms are nicely laid out. The rooms are nicely laid out. Soud-sied, but not too large, and out, soud-sied, but not too large, and with the house for comfort, not for southern with the solver in view of making use of the object in view of making use object in view of making use of view of the object in view of making use of view of vie

What interested me most was the What interested me most was the complete water system. Upon my arrival, I naturally felt rather travelstained and was taken upstairs where I found a fully equipped bathroom, just like we have in the city. I could readily appreciate how much that country home and made a remark to this effect to Mrs. Harris later in the evening.



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become very much nard r, and this likewise interferes with case in churring. The cream also becomes more viscous as the animals advance in their lactation period, and this again makes churring more difficult.

Whenever butter granules fail to appear in about 30 to 40 minutes' churning, the cream should be raised in temperature. It is well to raise the temperature only a few degrees at a time, for if to warm the cream will give butter with a very soft, salvy texture. If the women after degrees, the butter refuses to rion—a tea safter, a further raise of temperature y readers."



"Just as wheat is one of the big crops here in Canada, so too is tea one of the largest ones of India. Much of the harvest work is done by the women folk, and our illustration shows a lady picking Saha can in Ceylon—a tea by the way which is familiar to many of the homes of Farm and Dairy readers."

Dairymen Want Legislation Postponed

(Continued from page 9.)

out H. It was the man who followed the one 785 days in the year that would pay for the testing. He moved, accounted when the fact that the dairymen were no convinced that payment by the Babock test and the pasteurivation of whom the fact that the dairymen were no convinced that payment by the Babock test and the pasteurivation of dairying would be in the interests of dairying the three was a danger of dairy men the fact of the fact intense opposition among dairy men to the enforcement of the Act, there-fore it was resolved that the legisla-ture be asked to rescind it.

Secretary Thompson Moves an Amendment.

Secretary T. H. Thompson begged leave to move an amendment. There was no doubt in his mind, he said, that the legislation would be benewas no doubt in his mind, he said, that the leritation rould be beneficial fit could be included without stirring up discontent. It would do away forever with the practice of aduleration. He would not be fact, however, that legislation was apparently in advance of public opinion, he would move, seconded by R. G. Lesgrett, Newboro, that the convention, while approving of the provisions of the Act, sak the government to postpone the date of enforcing it until further educational work. ing it until further educational work regarding the matter could be carried on. Mr. Paul withdrew his motion, and the amendment, which then became the motion, was carried.

#### Another Successful E.O.D.A. Convention

(Continued from page 6.) get started again after the close of hostilities. This the convention unanimously agreed to.

hostilities. This the convention unanimously agreed to.

The Use of Rennet Substitutes.

The Use of Rennet Substitutes.

"No danger threatens the cheese-making industry on account of the scarcity and high price of rennet; and Geo. H. Barr, of the dairy division, Ottawa. He outlined the experiments that had been carried on at Finch with peppin, curdaile and other Preparations, and the result was entirely satisfactory. In no case was the flavor of the cheese made from the fine with the properties of the cheese made from the division of the cheese made from to be so good.

It was bad smelling, and some of the these made from it had already gon. Leese made from it had already gon. stration.

Mr. J. A. Ruddick gave a compre-Mr. J. A. Ruddick gave a compre-henaire report on the larger aspects of the dalry indeatry. He explained how the department had saved the situation regarding cheese by investi-gating renner substitutes and secur-ing a large supply of pepsin. A fuller report of his paper will appear in later issues of Farm and Dalry.

Creamery Men Heard From.

Creamery Men Heard From.

"The creamery industry of eastern Ontario is small, but it is growing, and will continue to grow. It will seen be in a position to make a being the order of the control of the much stronger showing of butter than

The last session of the convention and W. F. Bailey, Assistant Deputy Minister of Agriculture. Dr. Creelman and Or. F. Bailey, Assistant Deputy Minister of Agriculture. Dr. Creel-man outlined some of the things that

Dairymen Want Legislation Postponed (Continued from page 3.)
Out it. It was the man who followed the cow for 365 das in the year that would pay for the tenses. He sword, accorded by Mr. E. Hills, that in view of the fact that the payment were not convinced that payself better schools and more electrically were not convinced that payself better schools in trust sections. Mr. Bableck test and the pasteures then better schools in trust sections. Mr. Bableck test and the pasteures the not convinced that payself better schools in trust sections. Mr. Bableck test and the pasteures the not convinced that payself better schools in trust sections. Mr. Bableck payse an illustrated address on this four of Durpoe. his tour of Europe.

Next Convention at Perth Next Convention at Perth.
At a directors' meeting, held after
the convention, it was decided to
accept an invitation from Perth to
bold the next convention there.
The officers were reappointed for
1917, with the exception hat the
name of O. A. Gillespie, M.P.P., was
substituted for that of J. F. Ferguacn.

#### Winning the Wilderness (Continued from page 12.)

Jim may turn the trick for us day.' He kissed her good-bye and watch ed her gallop away on her errand of mercy.

mercy.
"The non will have all the credit
by and by for sextling this country.
Little glory will come to the vives,
he thought. "And yet,
he thought "And yet,
he hearthstone,
hard share in every deed of darking and
every test of endurance. God make
me worthy of such a wife!".
Virginia Avdekot had mooken truly

Vinginia Aydelot had spoken truly when she declared that the war had left the Thaines little except inherited pride and the will to do as they pleased. Inherited tendencies take varying turns. What had made a re-

former of old Jean Aydelot made a narrow bigot of his descendant, Fran-cis. What had made a proud, ex-clusive autocrat of Jerome Thaine, in Virginia Thaine developed a pride of conquest for the good of others. It was this pride and the Thaine will to do as she pleased in a was this pride and the Thaine will to
do as the present in defiance of the
prairie and that sent her now on
his errand in that sent her now on
his errand to the an eighbor in
need. And she took lift a neighbor in
need. And she took lift a neighbor in
her easily of the journey
was prudent enough to stop at the
Sunfiower inn and make ready for it.
She slipped on a warm jacket under
her heavy cloak, and put on her thickest gloves and overshoes. She wound
a long red seart about her neck and
swalhed her head in the grey nubla.
Then she mounted her horse for her
long, hard ride.

(Continued Next Week.)

(Continued Next Week.)



### CHLORIDE of LIME

dissolved in water is the effective sterilizer for milking machinery, rubber subing, teas cups and utensils that she milk touches. Daily im-mersion after thorough wash-ing is advised. He sure your Chloride of Lime is

Full Strength

For Chierids of Lime, as it is erdinarily pecked, is worthless a sterilizar. We supply dairymen, either the chief of the c

Windser, Out.

# CREAM WANTED

Churning cream, also cream for table use. We besitate to quote prices because the figures for to-day may be too low for te-morrow Our guarantee is:

Prompt Service, Accurate Records, Highest Prices. Write for particulars-it will be worth your while.

TORONTO CREAMERY CO., Limited 9-II Church St., Toronto

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THREE CENTS A WORD, CASH WITH ORDER WHITE AND COLUMBIA WYAN-WHITE LEGHORNS.

Michael K. Boyer, Box 23, Hammonton,

WANTED.—A choose maker by the year for the Belmont factory. Married man proferred, apply at once to W. FITZ-PATRICK, Bex 150, BELMONT, Ont.





GetFrost & Wood Catalogue andsome New Catalogue just off press. Full description of splen-complete line of Frost & Wood Cockshutt farm implements. te for a copy to-day. The FROST & WOOD CO., Limited Smith's Fall's, Ont. (Montreel, St. John

SHIP YOUR **BUTTER & EGGS** —to us. We are not com-mission merchants. We pay net prices and remit promptly.

WILLIAM DAVIES COMPANT stablished 1854. TORONTO, ONT. Wayside Gleanings

By W. G. Orvis, Field Repre-sentative, Farm and Dairy.

Milk Carts

THE scarcity of labor on dairy farms where a large number of cows are milked, has led the owners to, in many cases, devise different schemes to save labor that he ferent echemes to save labor that he otherwise would not. The small matter of carrying each cove's milk to some peticular place in the siable where it welshed, recorded and strained, susans a good many steps and much the when it is all totalled up. To offset this the Afliston Stock Farm, Durdan Coupts, have a fair sign. up. To offset this the Afliston Stock Farm, Dundas County, have a fair vis-ed platform on wheels, which is easily shored along the passage way behind the animals as they are milked and upon which can be carried the cans, pails and other utensits necessary to the milking countries. pass and other utensils necessary to the milking operation. On one corner of this platform is a standard about three or four feet high from which ex-tends a short arm which in turn holds the scale for weighing the milk, thus the labor of carrying each cow's milk to a central point is avoided. By starting at one end of the tine of cows to be milked and taking them in order, the milking operation is accomplished with the least labor and time.

with the least labor and time.

Cleaning Cattle.

We were standing in a hotel recentify, where a number of breeders of pure bred cattle had congregated. As pure bred cattie and congregated. As usually heappens, the general topic of conversation was the "dairy cow." One man remarked that a certain breder always had his cattle looking well, and that they generally brought as bigh a reice, when offered for sale as bigh a reice, when offered for sale as high a price when offered for sale as the best. It was my good fortune later visit this man's herd, where I found his hired man busily engaged with curry-comb and brush cleaning the cattle. Everything about the animais was in a most sanitary condition. Every animal in the stable, even to the young calves, presented that nice the young caires, presented that nice thistry appearance which is so much sought after by our best breeders. I asked the owner if he considered it necessary to clean his cattle every necessary to dean his cattle every thir. He answered without hestitation "Toertishing do. I believe that it is a switch of feed and I know that it is switched to mose. When a buyer comment of mose. When a buyer offer any my stables I never have to offer any course for the animals not offer any course for the animals not offer any course for the animals not offer any course for the animals and to the comments of the contract of the course of the c and generally for a bigger price than could be had were the animals not recould be had were the animals not re-ceiving their daily application of curry-comb and brush. Our best breeders realize the value of this as well as did this man, but there are many men when the support of the support of the man, who are krying to sell pure bred ani-mals, or who are keeping them and who are trying to sell pure pred ani-mals, or who are keeping them and not getting the best results, largely be-cause of the lack of a little care along these Mnes.

A Practical Stairway.

A Practical Stairway.

Mr. Dibas Snyder, Oxford Co. Ont., has a hall way of geeting up and down to the burn above his stables. Every foot to burn above his stables and the stables are almost entirely, thus preventing it from being used. The stairs were from being used. The stairs were stables and the stables are almost entirely that the stairs were a most under the stairs were a most under the stables and the stables are stables as the stables are stables are stables as the stables are stables are stables as the stables are stables as the stables are stables are st manner as to almost Salance them. In this way, when they are not in ase they can be quite readily holisted to the ceiling, or when regioned can easily be brought into place. This plan is giving excellent salismattion and Mr. Snyder thinks it quite practiAn Implement Shed.

get the maximum amount space for storing implements with the minimum of expense, was the ideal in mind when the implement shed was mind when the implement and was built on the Evic Stock Farm in Dun-das Co., Ont. The room on the ground floor was quite a simple matter and the space above could be easily had, but how to utilize it to best advantage was the real nrofstem. Double doors but now to usuage it to best advantage was the real problem. Double doors were placed in one side of the upper storey and a gangway built from them to the ground. A pulley strongly attached to the rafters directly opposite, tached to the ratters directly opposite, provided a means of pulling the im-plements into this room. All vehicles and tools, as well as the lighter im-plements are stored here. Anything too heavy to pull up by hand is easily holsted above by hitching a horse to the rope tackle.

### The Makers' Corner

Butter and Cheese Makers are in-vited to send contributions to this department, to ask questions on matters relating to cheese making, and to suggest subjects for discus-sion.

Butter and Cheese at E.O.D.A. Winter Exhibition

HE display of cheese on exhibition here is ten times better than that at Corewall two A than that at Corewall two years ago, when you held your first winter exhibition," said Geo. H. Barr, in his comments as one of the judges of cheese at the Winter Dairy Exhibi-tion held in conjunction with the E. O. D. A. convention at Napanee last week. "At that exhibition," he conweek. "At that exhibition," he con-tinued," there were few well finished, cheese. Here, the finish is excep-lenally good. The quality toe is good, so uniformly good that it made good, so uniformly good that it made good, so uniformly good that it made that it is not the sound of the sound that it is not that it is a sum of the property of the sound of the sound of the which shows you can be sound to the which shows you can be sound to the which shows you can be sound to so the week. The sound is sound to the sound to the week. The sound is sound to the sound to the week. The sound is sound to the sound to t Five or six were second grade. Five or six were slightly frulty. On the whole the ex-hibit is now quite the equal of that held in western Ontario."

In making suggestions as to how the cheese might be still curther im-proved, Mr. Barr advised the makers proved, Mr. Barr advised the makers to throw sway their fiber rings and get steel followers. They were more sanitary than fibre or even thi, and with them there would be no trouble in baving the finest finish. To those who were scored down on finish he stated that this was one thing that the maker had fully within his own control and any that did not come up control and any that did not come up to the mark could have no excuse to offer. One of the cheese showed gassiness and there were a few splits. He would have liked to have seen more would have liked to have seen more makers out. At the coming exhibition at Woodstock there would not be half a dozen makers in western Ontario that would not show up, and eastern Ontario makers should do equally well.

Mr. T. H. Thompson, of Madoc, who was the other judge, also compliment-ed the makers and stated that the 181 ed the makers and stated that he in the cheese on exhibition method a spiendid showing. He suspected to the committee that it might be mod idea to cut out one of the present classes, substituting, if necessary, non fore your make. If less sections were agreed on 10 prizes might be given in-stead of seven. More cheese might be on exhibition if the association would rk out a system of assisting the makers in buying cheese. With cheese at present prices it meant considerable outlay for the makers from the time the cheese was purchased at the factory until R was disposed of at the exhibition. They might advance a

(Continued on page 18.)

TOP DRESS all your Crops with Nitrate of Soda, no matter what other fertilizers you may have used - 100 pounds to the acre for seeded crops and 200 pounds to the acre for the cultivated The increase will yield large profits over the cost.

Write on post card for our money making books

WILLIAM S. MYERS, Director 25 Madison Avenue, New York

# What is Your Best Horse Worth to You

Yet your best horse is just as liable to develop a Spavin, Ringbone, Splint, Curb or lameness as your poorest?

#### KENDALL'S SPAVIN CURE

DEFAU ALL VALUED.

has sweet many thousands of dollers in horse field by entirely curing these alianents.

I. Ristone, F., Railliurton, O.u., writes:

"I have been a user of your Kendall's spavin Curi for about lily years, with good results. Could be proposed to the control of the country o Dr. B. J. HENDALL CO., Enesburg Palls, Vt. 119

# "I earn 2 a day at home

BULBS Provering Bull 12 25c.



Settle HE of crea moment more se

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Mr. S sampl the sa

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The Soil

and its

Tillage

# Cream Grading Discussion Still Goes On

Let Larger Creameries Get Together

J. B. Jackson, Simcos, Ont.

J. B. Jackson, Simcos, Ont.

AM of the opinion that grading
would be beneficial, but there are
some serious difficulties in the
way, in my opinion. In the first place,
the way, Medical Loy, an exequence of way, in my opinion. In the first place, it is avey distinct for one creamery to start gradified with their competitors called by the same price. On the other hand, it has same price. On the other hand, it will be found that small creameries will be found that small creameries will be found that small creameries. The fame of the small creameries will be found that small creameries. The fame of the small object, and say the second them will object, and say the second them will object, and say the second the small cream is kreping down the price of that grade cream. price of first grade crea

Grading cream will almost compel grading butter, and this is difficult, begrading botter, and this is difficult, pe-cause dependent so much upon indi-vidual taste, for example the amount of salt and the pasteurized flavor. As to the practice in other provinces, their experience is certainly valuable to us. At the many time, I believe the to us. At the many time, I believe the

their experience is certainly valuable to us. At the same time, I believe the conditions in the West, especially, are very much different from the West, especially, are very much different framework they are in Ontario. Regarding the compare in Ontario. Regarding the comparison of the large framework the large for exhibition of the best samples are sent for exhibition of the cross arguments of the larger cross that the larger crosses of the larger crosses of

Grading Will Do the Trick

Reseduse Creamery Co., Kitcher.

MEARLY every manufactured product in Ontario ranks high in the estimation of other provinces for quality and workmanship, with the exception of creamery butter. Why can't Ontario creamery butter rank as the best? It can be done, and grading will do the trick.

Recommends Individual Cans

Recommends Individual Cans
C. A. Morrison, "Whitechurch.
C. A. Morrison, "Whitechurch.
D. Wilking the past summer, Mr. J.
B. Smith, Dairy Instructor for the country of the wagons. He graded every lift of cream and took note of the quality and conditions under which it was produced. He also note of the quality and conditions under which it was produced. He also can be customary sample for the Babech test. When he and the drawer can be called the constant of the customary sample for the Babech test. When he got were the many sample and graded the cream from the samples and graded the cream from the samples and graded the cream from the samples and the foots taken at the farm, and the results were very encouraging. They were very encouraging the commend the individual can exclusively.

Settle Margarine Question First

P. Christie, Otiawa.

HIS question under ordinary circumstances would be worthy of considerable thought on the part considerable thought on the part of creamerymen, but at the present moment we believe there is a much more serious matter facing the creamerymen of Canada in the agitation to introduce of comargarine.

introduce decomargarine.

Granting that cream grading is a
step in advance, we believe, at the
same time, that there should be no
such important matter brought up at
present to distract the
present of distract the attention of
creamerymen and dairy farmore from

sented by the above agrication. It must be admitted that the matter of cream be admitted that the matter of cream grading has its ultimate object the increasing of the selling price of but-ter. We therefore believe that any proposal which has for its object a serious reduction in the price of butter should be apposed of first. We under-should that Farm and Dairy has taken the stand opposing the introduction of the stand opposing the introduction of oleomargarine, but our opinion is that of much more vigorous action is necesa much more vigorous action is nece sary if we are to keep pace with its

#### Paying by Ticket

N. D. Schatz, Milverton.

HERE is another matter which I think should be taken up in your columns. Re war tax, or latever you may call it, I have asked whatever you may call it, I have asked the Honorable Mr. McDlarmid whether we could not pay our patrons by ticket, the same as live stock dealers, and at the end of the day give dealers, and at the end of the day give the bank a check for the full amount. We do not object to doing our part in we do not object to doing our part in full, but why should we have to pay from \$6 to \$10 and \$12 a month war tax and the live stock dealer, prob-mbly pays out as much money as we do, only paying two cents war any pays out as much money as we do, only paying two cents war tax? Hon. Mr. McDiarmid's reply was that he thought we had the same rights as the live stock dealer, but we rights as the live stock dealer, but we should not object to paying a little war tax. I then took the matter with the bank, but they will not allow us to pay by ficket, although they allow the live stock dealer to do so. If it is fair for one, why not for the other?

Butter Must Be Graded Too

Wm. Newman, Lorneville.

RADING must begin with the farmer's cream and continue until it reaches the consumer, who should know what grade of butter he is buying. It the censumer knows what he is buying, our markets will grow until our production reaches its You Need Dook, "The Soil and Its Tillage" will

This Book halp you make this a banner year. Send for it. There's a science of tillage.

And, the farmer who understands this science is the

no, the miner who unmermants this science is the who produces paying crops in good seasons and in "The Soil and its Tillage" is a practical text book. The out and its amage as a practical text book.
Tells you in a plain practical way just the things you need to
know. No matter what tools you use you need this book.

Cutaway CLARK

Disk Harrows and Plous

The Cutaway Harrow Ca. 6621 Main Street, Higganum, Conn-

# Skimmed Milk Wanted

Is this not the expression on the faces of your Calves and Pigs when you set them face to face?

It was not the expression on the faces of your Calves and Pigs when you had been allowed the pigs of the pigs of

Cornwall City Dairy, Adolphus Street, Cornwall, Ont. 

You'll Find the Advertisers in FARM AND DAIRY advertising reliable goods. They want to know you; also want to know you; also want to know you saw the Ad. When writing them don't forget to tell them

# NOTICE

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The price of wire continues to steadily advance and that upward trend is likely to continue for some time to come. We believe that wire is going to be much higher. Still we are selling Page Fence direct to the customer, for cash, at the old low prices. We will have to sharply advance prices just as soon as we have to buy material on a basis of its present cost. It may be years before the present comparatively

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WALKERVILLE

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MONTREAL

ST. JOHN

ABSORBINE JUPS LAMENESS from a Bone Spavin, Ring Bone, Splint, Curb, Side Bone, or similar Spinit, Curb, Side Bone, or similar trouble and gets horse going sound, Does not blister or remove the hair and horse can be worked. Page 17 in pamphlet with each bottle tells how. \$2.00 a bottle delivered.

(18)

Horse Book 9 K free.

ABSORBINE, JR., antispelte liminent for mankind. Reduces Painful Swellings, Enlarged Glands, Gottre, Wens, Bruises, Varicose Veins, Varicosities, heals Old Sores. Allays Pain. Will tell you more if you write. \$1 and \$2 a. bottle at dealers or delivered. Book \$2 a. bottle at dealers of dealers. Book \$2 a. bottle at dealers or delivered. Horse Book 9 K free.



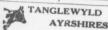
WANTED to buy at once, Ayrshire bull for service, not over 18 months old. Address all information and prices

A. CAMPBELL, R.R. No. 9, Box 60, Maxville, Ontario.

#### FAIRMONT HOLSTEINS-

For sale. Two bulls ten months old sired by King Segis Aleartra Calamity whose ten nearest dams average or 30 kb. butter and almost 4.9%, fat from R.O.M. dams, also four helfers in cast to King die in April.

PETER S. ARBOGAST, R.R. No. 2, - MITCHELL, Ont.



The Leading R. O. P. Herd Large Cows, Large Teats, Large Re-cords, High Testers. Choice Young Bulls and Bull Calves and a few Cows R. R. NO. I, MODREFFELD, ONT.

### Kolstein Cows Excel All Others

Proof is Found in 100,000 Official Tests For Profitable Yield of Milk, Butter and Cheeke. No User Breed Can Equal Them For the Froduc-tion of High Class year. When Age or Accident Ends Their Use-Juliess Holsteins Make a Large Amount of Good Beek. W. A. Clemons, Sec'y., H.-F. Assn., St. George, Ont.

#### Just Two wy To Choose from Old Enough for Service

Butter is 50c. a lb., Butter fat is 55c., Milk is \$2.25 a cwt. f.o.b. Can you afford not to try winter dairying? Get your bull early and prepare for next winter. Can you afford not to try winter dairying? Get your bull early and prepare for next winter.

E. B. MALLORY
R.R. 3 Belleville, Out. Loss bistass Phone

R.R. 3 Belleville, Out. Long Distance Phone

#### Opposition to Dairy Act Dying Out

PERHAPS the strongest opposition to the Pairy Standards Act has been met in Hastings County. peen met in Hastings County.

That the opposition is becoming less and that it will finally die down is intimated in the following extract from the report of Mr. A. D. McIntosh,

from the report of Mr. A. D. McIntosh, district representative of county.

"I have attended several annual cheese factory meeting and thoroughly threshed threshed thoroughly threshed threshed thoroughly threshed threshed that the Roblin factory in Hungerford township, where there were visitors from the surrounding factories who came to set light on the subject, the meeting unanimously voted that they were in favor of the new ed that they were in favor of the new act taking effect April 1st next. At the Harold cheese factory meeting, in Rawdon township, the concensus of Rawdon township, the concensus or opinion was in awor of the act, but that it should not take effect for another two years. When the people over the country more thoroughly unover the country, more thoroughly universities. that derstand that the act is already passed, and that the work of testing derstand will be done at the expense of the De partment and by the local dairy in-structors, I feel sure that most of the opposition will rapidly die down, and that a new era in dairying will dawn for the farmers of Ontario."

President R. H. Hafbert, of The United Farmers of Ontario, has been United Farmers of Ontario, has been binsy lately addressing meetings in different parts of the province. Wedneeday, Thureday and Friday, January 3-6, he spoke at Duneford and Reaboro, in Victoria county, and Claremont in Ontario county. This week his capacities in Outcome. mont in Omario county. This is speaking in Oxford county

#### Butter and Cheese at E.O.D.A. Winter Exhibition

(Continued from page 16.) percentage of the money to the makpercentage or the money to the mak-ers. On closeness and texture he had found only slight variation and on finish he had altoted some the full number of points. Mr. Thompson drew attention to the boxes in which the cheese had survived and which the cheese had arrived and which showed every conceivable form of in-jury. This showed that they had refury. This showed that they had re-ceived very rough handling, or that the present regulations regarding the present regulations reg boxes were not being enforced.

The closeness of The closeness of the scoring was evidenced by the slight variations in the number of points allowed. The variations in the number of points allowed. The variations in the cheese getting into the prize money were as follows: Sept. solit. 97.30 to 98.30; Sept. colit. 97.30 to 98.30; Sept. colit. 97.50 to 97.10; Ox. 96.45; Oxt. white, 97.50 to 97.10; Ox. 96.45; Oxt. 97.50 to 97.50 to 97.10; Ox. 96.45; Oxt. 97.50 to 9 the scoring was silver for the highest scoring cheese, which was donated by the instructors and cheesemakers, and is valued at \$100, was won by Jas. S. Tobin, Mar-tintown. The score, made on Sept. colored, was 97.80.

Butter Exhibits Not Strong. The butter was placed by Mr. T. Zufelt. of the Kingston Dairy School. In his comments Mr. Zufelt said that there was scarcely enough butter on exhibition upon which to butter on exhibition upon which lobase an opinion as to bar and the base an opinion as to the product of eastern Obtato creameries. There were only the creamer of the product of creamery butter. Perhaps two owing to the poor showing that are only the poor showing that the post showing the post of the poor showing that the post of the post o the newer provinces had discarded some of our ancient methods and when some or our ancient methods and when we came in competition with them we made a poor showing. It was to be hoped that matters would improve so that in the near future the butter exhibits would sival in excellence the cheese exhibits.

LIST OF PRIZE WINNERS. CHEESE.

Chang 1.—Sec. 1.—September White:

Chang D.—Sec. 1.—September White:

Tahno Wintsh Yankhesk Billi 2. Lettly

Tahno Wintsh Yankhesk Billi 2. Lettly

Tahno Wintsh Yankhesk Billi 2. Lettly

Millis 4 Bersen Springbrook: Isone

Orrice E Barton, Springbrook: Isone

Chang 1.—Sec. 2.—September Colored:

Chang 1.—Sec. 2.—September Colored:

Agrate, Springbrook: Lettly

Change Corrwall 2. Alex Medillian,

Change Corrwall 2. Alex Medillian,

Change Corrwall 3. Alex Medillian,

Change Corrwall 4. Alex Medillian,

Change Corrwall 4. Alex Medillian,

Change Corrwall 5. Alex Medillian,

Change Correct 6. Alex Medillian,

Change Corrwall 5. Alex Medi

Baker, Skerling: T. Jan. S. Tobin, Martin-torn. 2.—60. 2.—October Cofored: 1. Cofored: 1.

BUTTER.

Creamery Bett-Class 4 Sec. 1.—
(56 pound box) II.—Convenille Creamery;
(52 pound box) II.—Convenille Creamery;
(58 pound box) II.—Convenille Creamery;
(59 pound box) II.—Convenille Creamery;
(50 pound box) II.—Convenille Creamery;
(50 pound box) II.—Convenille Creamery;
(51 pound box) II.—Convenille Creamery;
(52 pound box) II.—Convenille Creamery;
(53 pound box) II.—Convenille Creamery;
(54 pound box) II.—Convenille Creamery;
(55 pound box) II.—Convenille Creamery;
(55 pound box)

SPECIAL PRIZES.

SPECIAL PRIZES.
Canadian Sait Co.
1. John Hall, Rossmore; 2. Ralph
Aiguire, Northfield; 3. W. J. Potter,
Moulinette; 4. C. A. Wilkina, Mille Rothe,
5. M. H. Sexsmath, Selby; 6, Jos. Cramer,

Moulinette: 4, C. A. Wilson, Mille Riches, M. H. Bernanth, Selby 5, Me B. Roches, M. H. Bernanth, Selby 5, Me B. Roches, M. H. Bernanth, Selby 6, Me B. Roches, M. H. Bernard, M. Roches, M. R. Roches, M. Roches, M. R. Roches, M. Roches,

TILLSONBURG AYRSHIRE SALE.

IND Southern Counties Ayrshire Club

IND Southern Counties Ayrshire Club

IND Southern Counties Ayrshire Club

Indiana State Counties and Indiana State Club

Indiana State Club State Club State Club State Club

Indiana State Club State TILLSONBURG AYRSHIRE SALE.

oer ux monna, 9x2-20; Bulla, 487-10. All
animals selling for 1800 or over appear

Coven, 2 yrs. and ever—What s represent
Coven, 2 yrs. and ever—What s represent
Coven, 3 yrs. and ever—What s represent
Coven, 3 yrs. and ever—What s represent
Coven, 3 yrs. and ever—What s represent
Coven, 1 yrs. and 1 yrs. and 1 yrs. and
Coven, 1 yrs. and 1 yrs. and 1 yrs. and
Movaez, Belmont; Selves of Hilly, M.
Movaez, Belmont; Selves of Perabrook, 1176. Hilly of PeraHilly, M. Mary, 1 hilly of Hilly, M.
Mary, 1 hilly, M.
Hilly, W. Mary, Dallor, 6 Non;
M.
Hollers, 1 yrs. old—White Prost, 1126,
Heiders, 2 yrs. old—White Prost, 1126,
Heiders, 2 yrs. old—White Prost, 1126,

W. Mehlenbacher; Ella of City View, \$105; Iribur Sadler; Lady Marjorie 4th, \$110, Slake Pearce; Milkmald 3rd, \$135, W. arr, Heifers, 1 yr.—Neidpath Rose 2nd, \$100, 1 Marr; Gardaugh Grace, \$100, A. B. ead, Verschop's; Garciaugh Adals, \$106, lake Pearce. Heifer calt, over 6 mos.—Bucebell 11th Neidpath, \$100, Smith Bros., St.

homas. Buffs.—Selwood Ideal Here, \$127.50, J. Milkington, Beachv'He. Note.—Our report of this sale should have appeared last week, but was lost in mailing to our printers.

#### COMING EVENTS.

OMING EVENTS.

OTHAWA Winder Fair, Jan. 18-18.
Bural Community Conference, Jan.
Bural Community Conference, Jan.
Twentsh Amual Dairy Convention, CelBural Community Conference, Jan.
Annual Convention, Ont.
Bural Conference, Page 6-7; Abid.
Annual Medical Conference, Page 6-7; Abid.
Crowcev Association, Pagement Annual Meeting, Feb. 8, Telephones

Annual Meeting, Page 8, Mineyally Conference, Jan.
Bural Conference, Confere

#### A CORRECTION

I Nour report of the Oxford District Holstein Club sale in December 28th Issue of Farm and Dairy, Mr. Holstein, Wastein, was credited with buying the purchase of Calamity Bare been credited to Mr. Chas. W. Loney, Warton.

### WALNUT LODGE AYRSHIRES.

WALMUT LODGE AYRSHIRES.

WALMUT LODGE AYRSHIRES.

THE Southern Counties Ayrshire Club
and the second of the second

#### A RISING JERSEY BREEDER.

A RISING JERSEY BREEDER.

NE of the younger breeders of Jersey in Ontaries the Britist Crade tion dock of Haceroville Events Crade tion dock was secured from Harm Galaxy and the Haceroville of the British Crade Haceroville of the Bridge of

25.28 LBS. FAT AS A SR. 2-YR-OLD.
I am advised through priminary reports that the Holetein-Privation 1979.

For a second per second per second per second per per 25.28 LBS. FAT AS A SR. 2-YR.-OLD.

47

# Market Review and Forecast

TWEONTO, Jan. 8.—Considerable interesting and valuable information common grades, 1.50 to 31.50; red to considerable in a recent report to the contained in a recent report to common grades, 1.50 to 31.50; red to contain the contained in a recent report to common grades, 1.50 to 31.50; red to deven the contained in a recent report to common grades, 1.50 to 31.50; red contained to the contained t

Charley—Mailting, 51.15 to 15.0; Toronto, 15.17 to 15.0; Morey, 15.17 to 15.18 to 15.0 to 15.0

Lakeyiew Dutchland Hengerveld 2nd

ALBERTINE PURCHARM Hengerveld 2nd
THE GRAND CHAMPION
THE GRAND CHAMPION
First heads our herd. His senior three-pear-old three-quarter sister is
Canadian champion, with \$4.56 lbs. butter in seven days. BOTH CHAMPIONS. This our motor: "Piresd for eyes and production." Choice public but of high testing ROM, dams for sale. Write for extended pedigrey. W., G. BALEY OF.

W. G. BAILEY, Oak Park Stock Farm, R. R. No. 4, PARIS, ONT.

#### WALNUT LODGE AYRSHIRES

We have for sale a bull calf from SCOTTLES NANCY (record 6501.9 milk, 363.15 fet as a two year old, teating 4.1 per cent.). She is a daughter of a Canadian champion size SCOTTLE. (80 qualified daughters). Also six helfer calvos sixed by NEEDDPATH ALMHIRAL, whose dam was a full sister to SCOTTLE. They are a qualify to by prode to self. Write for extended peditions of the control of the control

REG. J. A. SMITH, - R.R. No. 1, HATCHLEY STATION, Ont.

"I am tired answering inquiries"-

So writes a live stock advertiser in Farm and Dairy, when advising us to cancel his advertisement. He had sold all his surplus stock, and could have disposed of more had they been available. We offer the same good service to you as this breeder had.

#### Have You Stock For Saie?

You will find through the advertising columns of Farm and Dairy the surest, cheapest method of disposing of them. Have your advertisement go through to our 34,000 readers regularly. Write us a line ior our special rafe to breaders. Tell us what you have for sale. We will advise you frankly and give you our easistance in preparing your advertisements. Write us to-night.

ADVT. DEPT.

FARM AND DAIRY

PETERBORO, ONT.

#### - MAPLE VILLA STOCK FARM -

Offers for sels two 4-yr, old cown, good producers, good sits and in good condi-ison, light color, due to freelism Jennasy 30th and Jakech 110. Proc. 1300,00 whose seven nearest dams severage 27 lbs. butter in seven days. And from dams ranging from 10 to 13 thousand lbs. milk in one year. Price \$75 to \$100 f.o.b.

R. W. JOHNSTON, STON, - R.R. No. 1, - WILSO Long distance phone from Waterford, Ont. WILSONVILLE, Ont.

-HOLSTEINS -Could spare 10 cows or helfers bred to the Great Bull KING SEGIS PON-TIAC DUPLICATE, Have one yearling bull, and calves from 10 months down. Myrtle, C.P.R. Manchester, G.T.R. Port Perry, R. R. 4 R.M. HOLTBY,

PEACH BLOW AYRSHIRES

Toung Stock for sale, always on hand (both sexes), from high-testing heavy producers. Good udders and large toat a special feature of my herd. Three fine young Sires ready for services. Get particulars of these if you need a sire. R. T. BROWNLEE, Peach Blow Farm, HEMMINGFORD, Que.

#### LAKEVIEW HOLSTEINS

We are now offering the highest producing 1-yr.-old in Canada, in Lakeview Dutchiand Artis, the \$4.84-86. Can. Champion, due to freshen Mar. 22, 1917; her 2 daughters; her years of the control of the calving. Don't miss an opportunity to see this herd.

Major E. F. OSLER, Prop. BRONTE, ONT. T. A. DAWSON, Mgr. Mgr. C. SUSLER, Prop. BRONTE, ONT. T. A. DAWSON, Mgr.

#### HIGHLAND LAKE FARMS

Ofter for sale at attractive prices a few chetochy bred Holsteins. No. — A researing can de a 3 lb. buill and a 32 bb. a year old priga-winning cow. No. 3—An 8 months son of a 34 bb. buil and a 1.21 bc. 2 year old granddaughter of Knig Segis. The dams of these buils are in dur year old granddaughter of Knig Segis. The dams of these buils are in dur printed pedigrees. We also have for sale a few females bred to our herd sire, KING SIGUIS POWITIGA CANADA. R. W. E. BURNABY (Farm at Stop 55, Yonge St. Radial) Jefferson, Ont

#### RIVERSIDE AYRSHIRES

Netherington Lochinvar, Imp. 39431. Females all ages, from 1st Prize stock and good producers. One Standard Bred Stallion 16 months, by His Nibs 284, "65500".

Apply to Robert Sinton, Manager Riverside Farm, Monte Bello, Que Or to Hon. W. Owens, Westmount, Que.

Two yearling bulls, sired by a brother to the champion R. O. P. two year old before (except 14.31 ha, milk and 5.0 ha, fet), and dams by a son of schampion R. of P. cow, Primores of Tanglewyld (record 16.156 ha, milk and 5.6 hb, of fat). These bulls are from dams whose milk average a high fat content.

We are also selling a choice bull and 2 heifers, with same top crosses, at Southern Counties Ayrahire Club Sale at Tilsomburg, Docember 28th, 1916. All are choice animals, the bull in sale being from same family as the champion R. of P. bull "Seottie," who was bred by us.

W. W. BALLANTYNE & SON, R.R. No. 3, Stratford, Ont 

#### Auction Sale 55 55 Head Head

### Old Commercial Stables, Brantford Wednesday, Jan. 31st, 1917 AT ONE O'CLOCK

The Brant District Holstein Breeders will hold their third annual consignment sale of 50 choice females and 5 bulls. The females are mostly fresh or springers and a number are R.O.M. or from R.O.M. and R.O.P. dams. Apply to secretary for catalogue.

ALMAS & MOORE J. W. RICHARDSON Auctioneers. Sales Manager. N. P. SAGER Secretary St. George, Ont. (20)



# Paving the Way to Prosperity

VERY shrewd dairy farmer in the dairy business to-day is aiming to have his herd turn him out a greater margin of profit for his work. With labor scarce and feed expensive it is necessary that we, as dairymen, should make every effort to increase the earning capacity of every ani-

One way to accomplish it, to breed your herd to give a higher fat test and still retain the persistency in milk pro-

### For Instance--

Your herd of 10 head may now produce 2,500 lbs. milk per week testing 3%. But, by using a sire from "high-testing" blood, your herd of 10 could produce 2,500 bs. milk per week testing 4%.

# It Would Mean

The same labor would do the work.

The same amount of hay and grain required.

Only the same amount of hay and grain required.

The young stock would sell for more.

You would take a much greater pride in your herd.

And your cash returns would be 33% higher.

In a test extending over 12 months at the New Hampshire Experiment Station, the Ayrshires competing made 100 Mbs. of butter with \$3.00 less feed than No. 2 breed, with \$4.50 less than No. 3 and with \$5.50 less feed than No. 4. Such is the record of economical production for which Ayrshires have been noted in both Europe and America. You can have these qualities in your herd

# Ayrshire Blood Will Do It

A good way to get a start in Ayrshires is to buy an Ayrshire bull from a good milking dam and by a sire from a good strain and grading up your present herd. Better still, buy a good Ayrshire cow or heiler and get a start in pure breds. Ayrshires are economical, persistent producers, hardy and thrifty, and with all a sweet attractive cow you will admire. Get a start in them now before the prices go higher.

In improving the quality of your herd you'll find Ayrshires sustain

their great re-

putation as high testersthrifty and pro-

shall be pleas-

the Dairy.

ductive. that your first pure bred is an Ayrshire. We



ed to send you the names of your nearest Ayrahire breeders. Send for our free booklet. The Breed for

The Type of Sire That Makes for Better Herds.

# Canadian Ayrshire Breeders' Association

W. F. STEPHEN, Secretary, Huntingdon, Que.

# SYDNEY BASIC SLAG

#### LET US LEARN EVEN FROM OUR ENEMIES

In a Bulletin recently issued by the Minister of Agriculture in England, he points out that food production in Germany per acre is 50% greater than in the United Kingdom, notwithstanding that German soils and climate are distinetly inferior to those of Britain.

#### WHAT IS THE REASON?

The Minister replies: "That the chief cause of the increased production of German soil is the increase in the use of fertilizers." Basic Slag is the leading fertilizer used in Germany and there is on record the purchase by one single German Agri-oultural Society of 620,000 tons in one year.

#### ISN'T IT WORTH YOUR WHILE TO INVESTIGATE?

Send us your address and we will post you some instructive literature telling you all about Basic Slag.

# The CROSS FERTILIZER

COMPANY, LIMITED

NOVA SCOTIA

# Make 1917 a Record Year

It can be done by resolving to keep a close record of all your animals. It is very valuable. You like to have a certain amount of information about your animals always at hand. Just think what it would mean to you if you could instantly turn up the date of birth, records, and all other information relating to any animal in your

# The Farm and Dairy Herd Record

gives you the means of providing this data with the minimum amount of trouble and expense. It provides for name and number of the animal, date of birth, by whom bred, milk production, and full service record. Has space for name of ealf, sex, and disposition of it. To live stock breeders they are simply invaluable and indispensable. Write for samples and prices to

LIVE STOCK DEPARTMENT

FARM and DAIRY PETERBORO, ONTARIO