


## LESSEN GEAR WEAR

TO make your machine separate more thoroughly, run easiest and prove most durable and dependable, lessen gear wear with
Standard Hand Separator Oii. Does this special work especially well. Feeds quickly into the close-fitting bearings; does not gum; prevento seam rust and corrosion. Use no substitute
for your other farm machines. as for your other farm machines

IMPERIAL OIL LIMITED
BRANCHES THROUGHOUT CANADA
Standard Hand Separator Oil


WE WANT TO DEMONSTRATE ON YOUR FARM
We will send a Gilson Engine, any size, without oharge, to any responsible farmer in Canada to try out on
his own farm, at his own work. Write farm, at his own work. Write
for further partieulars of free trial offer, catalogus, and special intreduetory

Gilson Mfg. Co.
267 York St., Guetph, Ont.

## 

Fill Your Silo Yourself with an International Ensilage Cutter

TAKE NO CHANCES this year on getting your ensilage into the silo at the right time. The following table shows the sizes and cappecties of the five types of International ensilage cutters. Thero in, you sose, a size for every farm $-a$ size to for your needs.

All Internatienal cutters are of the knife on blower typeatmplest and requiring loast power. All are equipped with a corn chute for feoding from the wagon. Steady power feed low speed at which they run, and the salotety devices on the machines insure the safety of the operator.
Send for full information on any of the cutters listed above, $W$ rite to the neareat address given below
International Harvester Company of Canada, Limited WEST-Brandon, Man, Calgary, Alto, Eden HOUSES
WEST-Brandon, Man, Calgary, Alts, Edmonton, Alta, Ettevan, Salt, Letheriden, EAST-Mheithos, Ont, Wimnipes, man, Yorkton, Seal:

Ont Montrat
St. Johe
N.

## Western Irrigators Meet at Nelson

## The Largest Gathering But One in Five Years

ONE of the mos! Amportant gath erings having to do with tood production in Wostern Canada has fust come to an ond at Netson, B.C., where the Western Cansda Irrigation Assactation held it tweittu annrai convention on July 24,25 , and 25. The seleetion of the elty of Nelaon for such a convention is in ttself an indication of the growing interest which Western Canaïlans feel in irrigation as a means of increasing agricultural production. Neison is not in the arid or semi-arid belt, and yet, even with the generons raintall Which prevalls there, trigation has been tound to be of grest value. The experience at Nelson seems to indicate that in years to come many districts which do not now recognize the need of frigation will employ it extenaively.
Hon. T. D. Pattullo, Minister of Lands, and President of the Weatern Canada Irrigation issoclation for the season of 1917-1918, presided over the convention for its first day, ane Hon. Senator Bostock, of Dacks, B.C. vice-president, presided during the following days. Among the risitors of note were Hon. Duncan Marshall,
Minister of Agriculture, Alberta; Minister
Hon. W. R. Motherwell, Minister of Hon. W. R. Motherwell, Minister of
Agriculture, Saskatchewan; Hon.
Stan Agriculture, Saskatchewan; Hon.
John Oliver, Premier of British Columbia; Hon, E. D. Barrow, Minister of Agriculture, Vietoria; E. F. Drake, Superintendent of Irigation, Ottawa;
Don. H. Bark, Chiet of Irrigation InDon. H. Bark, Chief of Irrigation In-
vestigation Department of the C.P.R. vestigation Department of the C.P.R.
M. 8. Middleton, Vietoria; James M. S. Middleton, Victoria; James
White, Assistant to the Chairman, Commission of Conservation, Ottawa; A. Griffin, Supt. of Operation ana Maintenance, Wastern Section, C.P.R. Irrigation Block; R. H. Campbell, Dtrector of Forestry, Ottawa;
Grant, B. C. Markets Commissioner; Dr. Firnest Thomas, Vancouver, and many local authoritien from distriets In British Oolumbin. The acoredited delegates numbered 182, besides many visitors, which, with one exception, fs the largest attendanese at a convention of the association in the last ifve years.

Although the purpose of the association is primarily to promote the production of food by means of irrigathon, it is also deeply interested in the twin method of agrieuiture dry tarming, It it how generally recos: niked that frrigation and Ary tarmi E. Instead of beling rival methods of agriculture, are really clonely related, and In many cases both methods are practiced by the same farmer. One of the most interesting addresses at the convention was that delivered by Hon. W. R. Motherwell on the subJect of Ary tarming. Mr. Motherwell stronsly feprecanted the agtration to bring every powiflile acre under cultivation. Quantity without guality was merely a waste of labor, and in some anses an actual lons of food, as soed was sown which never reproduced tt. was
self.
Hon, Duacan Marahall in a stlrring address appealed for greater inter est in live stock raising. The salvition of agriculture lay in good stock, and the best type of cttizen which the country produced was the stock tarmer. After the war there would be an inevitable slump in the price of grain, but the depletion which has taken place fin the live stock suppites of the world would assure the steckman of continued high prices.
The necessity of making provision for meeting our national obilgnitiona Whieh provision can be made only by tncreased production-was emphaincreased production-was empha-
sized by Hon. John Ollver. Dry sized by Hon,
tarming, irrigation, and every other method of production must be emmethod to production must be em-
ployed to this end. Financial probployed to this end. Financial prob-
lems after the war would be greater loms after the war would be greater
than dur ag the war, and it was of
tha utmost importance that the a
dian people should produce tiom dian people should produce mone high order were heard, the the representing points from Othen
Vietorls. Victorta.

The Election of Officen Hon. Patron: His Excellenc Governor General of Canada; President, The Hon. Minister of Interior of Canada; 1st Hon President, Hon. W. R. Mothen Minister of Agriculture, Sambich Wan; Ind Hon. Vice-President, Minister of Lands, British Colimity President, The Minister ture, Alberta; 1st Vice- Pres, Aprid H. Bostock, Ducks, B.C.: Pres, G. R. Marnock, President bin of Trade, Lethibritge. Alberta; Vice-Pres., Hon. Minister of fym
ture, Canada. Executive; Minister Canada. Executi Minister of Agricultur Sask; G. Sterling, Kelomi Deputy Minister of Agricilit toria, B.C.: Jas. Johnstone his B.C.; Walted Huckvale, Medicime if Alberta; F. H. Peters, Caigar, berta; A. S. Dawson, Calgar, berta; R. J. C. Stead, Calgan, berta; F. E. R. Woolaston, V/m B.C.

Invitations to the assoctation ceceived from Brooks, Alberis; 14 Abherta, to hold the and Lettrotho at tivese respective centres. This at
vitation of Mecticine Hat wat what ed.
The
That this convention desires bs vite the urgent attention of the in spread foelia Government to theris spread feeling in the irrigation is
tricts of the province that tricts of the province that the lirg
tion syatems in British Colming tion systems in British Colimit
should be brought under govent should be brought under
ownership and control.
That the Western Canada limp
tion Assoctatton respectall tion Association respectfully mis
mend to the British Colta mend to the British Columbili bo ernment that, before passing ay $n$ posed legislation dealing wita water question, opportunity derd be given co those interosted of come famillar with amendments.
Whereas-
ment of British Policy of the Coner the ranges on ths interion tilt province to a much larger extent in hitherto, necessitates an incmur ares of frrigated lands in ortel provide winter fodder. Withor trocrease much valuable bruen stock must be alanghtered betorn turity. Therefore, be it ruility arity. Theretore that the British Columbis om nemi be requested to consider nim tmmediately exheustive engultia i the location of ranges with tiguous land suitable for imintit and steps be taken to brigg sadium under water efther by the ome ment undartaling the work, a communtty work, or any other be ive organization, but aiway a the control of the Goverament is cost of thes work to be sthurp the land so frrigated.
That the association ropeste recommend to the British Colmit Goyernment that enquiries be imad fately set on foot to discover wher: Interior polnts wrild grass cas wet for hay and the best means to It avallable for stock during tor ing winter.
Submitted
Submitted by the Coaliduld Wharees water users asoodilit Wherens in certain provinou pef provision as now exists for ontile tng an assoclation of users of int tion wators requires that soch $x$ ciation be assented to by then pany or fndividual holding the nif
Hicense. Resolved: That the Tiv Hicense. Resolved: That the IVy
ern Canada Irvigation Assoctatian
(Continued on page i)

0NE of the be Ont., is the 1 Who ives on danes, peually dar bend the work we min of man-powe hrin, whth the exp workable, and incly are grown if the wrk fo all handle not yet being old the farm opera Lo wark is done, allicient equipment acoselon of my la luytas bricks as a as le went on w cenestiers a good lows moned farmin I hive not yet dociakien as to the at the morter for welther opposed to haver of fit. We and at present my nod wich horse po continned Mr. Good. parpose walking plo more than one. Tt
 hurnow plow wall do job, and leaves me jove around the An wre we depending For fintance, while of have nother I had it made spect I had ytncipally for plow and I belleve there ans type on farms nimt extensively.

The Spring-To For worling up nould piace the rad Inat in my eetimatio avoed cuitivator, woterance is still fo an't fmagine myael pieneart. It works sif隹io disk harrow. the the riding cultiv won boen lect uneve wooh grase if there Mr. Good pansed N whith a eingle dis the the had been r mos a donble diak b or four horses, but ma abort time if I ached cultivator an aver, I belleve I woul is have a smoothing a good lond for three row culdivator an ex teed tae for a numbe at hee erop, and wot

# We Welcome Practical Progressive Ideas <br> Trade Increases the wealth and glory of a coor M 8 RORXU Home <br> The Recognised Exponent of Dairying in Canade 

e.e

## The Machinery on a 150 Acre Farm

## Mr. W. C. Good Enumerates the Implements He Considers Necessary

0NE of the best worked farms in Brant County, who lives on the old tolt road between Brant. ford and Paris. I have visited Mr. Good several das, waully during the summer, and have always mand the work well advanced, and this with a minimin of man-power. Practically every acre on the morkable, and included in the rateres in orchard, is wriable, and included in the rotation. Heavy crops are crown if the season is at all favorable and the wrk is all handled whth the help of one man in adacton to the proprietor himeelf, the young Goods not yet being old anough to be eves a small factor in the farm operations. The despatch whal whitch Lo work is done, Mr. Good attributes largely to an allient equipment of modern tmplements On an mocsion of my last visit, I found Mr. Good the mytag bricks as a foundation for a summer bitchen ts he wext on with his work he enumerated in nomer to my questions the implements the in centere a good investment for the man who follom mixred farming on 150 acres.
I have not yet been able to come to a definite escinive as to the place for the tractor on a farm wo dive of thlo one," mold Mr. Good as he trowelled wot the mortar for the next brick. "At present I am aither opposed to the traotor nor enthumiastically avor or horses anyway, and at present my implements are designed to be od wikh horee power.
"Let us take the cultivating implements first," continned Mr. Good. "A man needs one good general arpose waiking plow. Idon't think he has need for wore than one. Then he shouk have a two-furrow athy plow for three or four horees. This twohunow plow will do most of the plowing on the farm Whin it, one man handies what wes onen a tepoman iob, and leaves me free to toos after the apecial the around the farm, which would be neslected wre we depending altogether on sfngle furrow plows For fintance, white my man for plowing four furrows. at a round I may be pruning in the orchard furrow II have wothe plow thet In the orchard.
1 had $\&$ made apectally to my order, and it is med. ytactpally for plowing hard ground for fall whed thecpally for plowing hard ground for fall whent. and I belleve there is a place for many inches deep, and I belleve there is a place for many plows of the mome type on farms where fall wheat is grown someThe Spring.
The Spring-Toothed Cultivator Favored.
For working up the land once it is plowed, I frix tin my cettmation. My friend Drury has an ettim Ans in my cettmation. My triend Drury has a etir noterance is stoll, for the se thinike a lot of, but my an't tmagine myself the spring-toothed. plement. It works splendidly to connection with our donble disk harrow. We follow after the double disk vith the riding coltivator and it levels the land which me boon left uneven by the dilsk and tears out woch ernes if thero is any prevent."
irr. Good paveed for a moment to draw his line with ank uingte of bricks. "I would never be botherthe the had been reset to rol he remarked when a dooble diak reset to tis matisfaction. "We - F four horses, pat manbort these, but with it we cover a lot of land anabort time. It I had to choose between a spring: wer I cultivetor and a double diek harrow, how. wer, I boteve I would take the cultivator. Fimally, rempe a moothing hariow wide enough to make a grod loed for three or four horses.
row cultivator ane growing crops, I consider a twoHow eultivator an excellent invegtthent. We have the for a number of years on our 10 to 17 acres * hee erop, and would not Hike to be without it.

It is easier to gulde and does more effective work than the old-fashioned single-row scuffler. The scutsary part of occasionally, however, and is a necessary part of the farm equipment."

A Remadelled Hoe Drill.
letion when I encuired abricks was nearing comII have nerer enquired about seeding implements. ted, "although I have heard drill," Mr. Good admitI did, however, fixe heard it highily recommended. and I consider, ix over my old hoe drill last spring it. Previously clogging on wo had had difficulties with the hoes elogging on dirty fields. With the help of the forge in the farm workshop, I turned the teeth forward more than they ordinarily are, and pointed them In fact, I made them more like the teeth on the pring-toothed cultivator. The hoes now cut throug overything and the drill works fine. Ours is an gleven-spout two-horge drill. The ground on some of my fields is rather uneven, and a smaller some adapts itself to these conditions better smaller diek one. We use thfs same drill for corn planting and have used it for mangel seeding For the am, and seeds such as turnips and mangels, For the smaller the band seeder. We do not grow many rop prefer ferring to put the emphasls on corn for the eflo, and for all the time it takes I consider the hand drill a good investment and it does an extma good fob." a Mr. Good was now on the last tier of bricks. read the articles by Messrs. Hallman and McKilis read the aricles by Messrs. Hallman and McKilican on hay-making equipment in the Farm Machinery "I had with a great deal of intereat," he told me. rike and hay on the investment in a side delivery rake and hay loader myself and decided that it would be profitable if I were handiling from 100 to 200 tons of hay per year. Our crop runs from 60 to 80 tons of hay and we have not yet made the investment in either of these implements, though we have them under consideration. Of course, a wide cut mower good-ized hay racks, and horee forks in the barns are not only necessary but fudispensable.
My binder is a six-toot cut. Our grain crops are usually heavy and the binder is a fairly good load for three horses. When I have to buy another

## Idle Machinery is Expensive

WIn the labor problem the most acute must depend of farming, the farmer plement the labor he will find unavalapThe Government ise will find unavailable. that there will be laking steps to insure that ensands of care no delay in delivering the during the cars of new implements needed during the war period and thereafter. In this connection here are a fow pointers which the farmer would do well to keep in mind.
"Machines make money for you when they are in use; they cost you money when they stand Idile.

A machine makes the greatest possible profit for its owner when it is used continuoualy in profitable work till it is worn out Then it is really worn out-it does not rot or rust out.
"The average farm implement is only about half worn out by use alone. The rest "Acres count in the life decay.
"Acres count In the life of a machine-
not years."

## machine, however, it will be a seven-foot cut "

 Electricity the Model Power.During the past year Mr. Good has connected up with Hydro-Electric. All the buildings are now illuminated by electricity, and one of the most appreclated conveniences in the Good home is an electric range. Further uee is pow going to be made of the electric energy in doing the farm work. "I do not think there is any question but that eleotricity is the best farm power," remarked Mr, Good. "If a farmer has a tractor for field work he has a power already provided fu. heavy belt work. I myself am coneldering a portab , ten horse-power electric motor I believe that the suall threshing outfit is coming. For years our threshing machines have is coming. bigger and bigger. Now the tendency is the getting way and farmers, I belleve, will figure is the other their own threshing. A motor igure more on doing a grain separator represent of reasonable size and a single farmer, and I think it is inveatment for have cooperation among nete here we should power I would invest in a silo filler as well; probably, too, a omall grain grinder,
By this time the cement mortar had run out and we strolled out together to the stable to look at a couple of bunches of young cattle, which, Mr. Good One demonstrated the value of proper breeding. One bunch had been bred on the farm, and they were making splendid growth. Another bunch hed been bought in at sales and they were not doing half as well on the same feed. Ficidentally I noticed that there were at least 200 loads of manure in the barnyard. "There's one implement that I forgot to mentton," sald Mr. Good, indicating his manuee spreader It is an implement that any man with a reasonable amount of stock cannot afford to be without poasible exception might be where all the manure farm hed out and spread in the winter time. On this tarm we have iots of scraw, use lots of bedding, and the manure in the yard is alwaye well tramped. I a not tank there is any appreciable lose in fertiliz. ing value of manure held over in this way for fall wheat."
There is another thing that I must not forget to mentlon in connection with our farm equipment," added Mr. Good just before 1 lett. "We have a farm workshop with its forge, anvil, and all other equipment necessary to keep the farm fimplements in shape. Every farmer is compelled to have more or less tools around, and if he has a properly equipped workshop he will find that he spends many very profitable hours therefn."-F. E. E.

## Paint the Car at Home

## And Save Money-By Tom Alfalfa

Wfow passing through Toronto on the train a tow daya ago r saw a blg slgn over a car night in Guelph I mot into conve your Ford." That night in Guelph I got into conversation with an old triend, who at one time kept atore in our village, and I noticed that bis Ford car, which atood at the curb, was respiendent in a new coat of palnt. "What did $t$ cost you? I aaked, whe the frankness that ${ }^{1}$ a permissible between old friends.
"Just \$1.45 and my own the for several eventnge." Tao job looked fairly good. Some time after this, as already related in Farm and Dairy, I called on Mr. W. W. Ballantyne of Stratford. Thetr Ford car, which has been on the road for five years, now had all the glisten of a car just out of the factory. "No, t didn't cost us $\$ 25$," remarked Mr. Norman Ballantyne. "We fust sand-papered to get the rust off (Continued on page 11.)

Bloat Prevention and Treatment Suggestions by Dr. M. H. Reynolds

THERE is no absolutely sure provention for
bloat, but it can usually be avoided by eareful bloat, but it can usually be avolded by eareful
managament. It is much less Hikely to when cattle or nheop are turned out to a to occur ture or given new green forage of any kind if they are turned out at once after a hearty moal of the dry feeds to which they are accuatomed, and not when the green feed is wet with dew or rain. After the animals have become accustomed to a pesture or forage, they are much safer if they can be left
there continuously instaad of being taken off and there continuously instoad of being taken off and put back after several hours.
Every farmer who has cattle or sheep should
have a trocar and know how to use th Tapping is have a trocar and know how to use it. Tapping is a very simple and a reasonably safe operation. There is nothing to it except to thrust the trocar through the left flank and into the paunch high up
and well forward. When an anipgal is bloated and well forward. When an anirsal is bloated enough to call for this treatment, dhe paunch fills the entire cavity in this region and nothing else could be struck in the place indicated. The trocar.
which is simply a large needle, is withdrawn and the Which is simply a large needle, is withdrawn and the
tube left in place. Medicine may be given through this tube directly into the paunch.
If the case is urgent, tap at once and then call a
competent veterinarian. Sheep must be treated very promptly, as wey are likely to die quickly when bloated.
If veterinary help is not qutckly avallable, give aromatte ammonia and turpentine, one ounce of each, in a pint of skim-milk, every half hour if neces sary, to a total of six dones, then a pound of salts and three tablespoonfuls of ginger in three pints of water. Keep the animal off feed for severat hours after the acute trouble has dlasppeared.
A promising and comparatively new treatment is formaline solution, abont a tablespoonful th a quart of skfm-milk for a cow and in proportion to weight for a sheep, given either by the mouth as a drench or through the trocar tube by means of a funnel and rubber tube directly finto the paunch.

## High Prices for Farm Products <br> But Are the Prices Too High ?

$\mathrm{S}^{\circ}$OMF urbanites who know little about the farm and the tificulties and hard work with which the farmer and his family have to contend in
alsing crope and Hive stock are complaining about the high coat of living. blaming the farmer and wanting a lower price fixed on the products whlch he sells. The
question as to whether the farmer is getting too much for hts wheat or other farm products is not a debatable one. He is not gettl g too much. He is only finally getting a fair return for lis labor and investment. The prices of farm products
are not hather on the are not bisher on the of manufactured ducts which the farmer has to buy. If food prices are exorbitant, it is due to our cumbersome and expensive methods of dmtribution and the and speculation on the part of dealers and middlemen and not because prices of farm produets are too high.
The farmer has never received enough for his pro ducts. The general poverty of a large part of our farming country proves this. Farmers are more saving and economical in their living than any other class of people. They work harder and longer hours, as a rule, and yet, travel this whole country over and you will not see any great demonstration of wealth and luxury in the country, as may be found in any large efty.
In so-called prosperous farming communittes, the country homes are plain and unostentatious, and country homes are plain and unostentatious, and
improvements though substanttal are not extrave. gant, Indicating only a careful, thrifty, hard working geople. In less favored sections, abandoned farms. people. In less favored sections, abandoned farms, fields speak louder than any words can as to whether there has been suffictent proft in raising wheat or any other fanm erop in comparison with the proft in other lines of industry.
We hope that condittions have changed permanently and that the farmer will henceforth recelve a fair reward and proft: but even with the present
high, prices of farm products, it is not possible for
tarmers to compete with other industries for labor, becanee the fermer has no nssurance as to what hil crop will be, and has no assurance of what price he Will recelve for his product after it is produced. Other industries oan afford to pay the pressent high
wages for lalor because they know whe wages for lalor because they know what they will produce and the price they will get for their products. The problem of securing sufficient competent farm labor to maintain and increase farm production, at a reasonable price which the farmer can pay is a serious one, and no good solution has beon offered for citc diffeulty other than to replace hand labor as tar as posedble with aachinery and mechantcal
power. $-\mathrm{E}, \mathrm{B}$. I. C, power.-E. B. I. . .

## His First Alfalfa Success <br> He Had a Flood To Thank For It <br> By L. Graber in "Country Gentieman."

HERE'S a ease whtoh proves the old adage that ing flood turned fatiling attempts at growing alfalfa on this man's farm into ultimate suecess. In Southweatern Wisconsin there are many litile streams tributary to the great Misslssippi River. Strange a it may seem, an overflow of one of these started a fire and at the same time started a farmer right with alfalfa. Ith tell it just as he explained it to me. "Well, sir, I was pretty much discouraged with aifaira unul a year ago," he said. "In fact, it was the big flood that really got me started on the cight road. See this fine field of fifteen acres? For two years I failed absolutely with alfalia on this very plece of ground, and now it looks to me like two tons 8300 on my firnt first cut. I probably threw away 8300 on my firat twa sttempts just because I dildn' know how and di ake the trouble to find out. "Our alfalta aly, came up nicely, and in fall and early apring it would look very promising. But in May the blamed atuff would tura yellow, stop grow ing , and weeds soon got the beat of it. My hired man sald it had the jaundice, and I guess he wa right! I never cknew what was wrong till I read about this liming business.
"It finally dawned on me that perhapa my soll was too sour; yet I couldn't understand why a soll that would produce seventy-five Lushels of corn to the acre would not grow good alfalfa. But when we
had the big flood a year ago the water got so high had the blg flood a year ago the water got so high that it broke into the warehouse Where a carload of fresh lime was stored. In slaking it heated so hot
the bullding burned to the ground. Well, I bought all


Wanted, a Mechanical Hay Loader that will also Handle sheaves.
that waste-lime and anties for five dollars, and hauled it out and spread ft. Covered the whole field with about three tons to the acre, but we ran out of lime down in this corser

You can see fust where I put the Hme and Just Where I didn'. Where we ran out of lime the weeds in the corner the sickly alfalfa. This yellow growth in the corner looks Just like the whole fleld did with ray firwt two fallures."
It was one of the clearest demonstrations of the importance and necessity of lime for surcessful alfalfa growing on sour solls I had ever aeen. In the corner where no lime had been applled the alfalfa was thin in appearance, yellow, slekly, weedy and only eis to elght inches high. The rich green alfalfa on the balance of the field recelving lime was over two feet high. The difference was visible for a distance of one-half mille. I teated the unlimed soll with the Truog Soll Aeldity Tester and it gave a sour reaction, showing lime requirement of three tons to the acre. The limed portion tested neutral, as the acidity had been counteracted by the lime


Should the silo Be Roofed?
To an article below, Mr. W. C. Shearer, of
Ont., whose new concrete sto Ont., whose new concrete sito is Mruatrat
tells why he put a roof on his sillo. That
Mr. Sheror, gainsald.-Photo by an Edits appearane

When theomes to using lime," I ventured Boil Aeldity Test is a ittle more solenifi expensive than the flood method sour your soll is and the amount of lim to make alfalfa a success.
"That's right," he sald.
a flood to get me into the lime game this soft tested at the outset $\frac{1}{}$ wom growing big crops of alfalfa for the lant ril know better next time.
"In this day and age we farmers cannot aftord to learn by experience alone. it costs time, labor and money. The tuition especially when all these newer ideas been worked out in sclentific tests by our stations

But
Difing tot me say thise: It takes more than dry thin flood would not convince some

## A Cement Silo and Its Cost

 A Talk With W. C. Shearer, Oxford, Co, OntTHROUGH the more northerly sectio

- County and up in Waterioo the big cement allos add a very distinc the landscape. This is one of the few
Ontario, visited by the editora of Faw Ontario, visited by the editora of Fari Where whitewash is used Liberally on sllo on the farm of Mr. W. C. Shearer county is typleal of the silos of the difinin feet tinside diameter and 40 feet high. walls are two feet thick. The walls of are nine inches at the base, tapering at the top. It is plastored inside wit two parts bullders' sand and one part side it is whiltewashed with a pure The work was contraeted for at $\$ 2.75$ shearer paid for the cement, drew tish boarded the men while they, were the gravel a silo. His total cash expenditures were $89: 56$, with at additional $\$ 75$ for the root.
The roof, as the illustration will sho eldedly to the appearance of this silo type that adds considenably to the caן
silo, the steep plech allowing of the ailo, the stoep pltch allowing of the
tromped thoroughly right to the top of
 walls, and then allowing of a conetien the cament be blown full of stlage of a consideranie space to $\$ 76$ covers the shage to take up the settiling. Til ${ }^{276}$ eavers the cost of the lumber, shingles, thber and paint. "I bellieve that every sito in this coon try should have a root on it," says Mr. Shearer. "I prevents freazing to a large extent. One of our nelp) bors, for instance, has a cement sillo similar to our but minus the roof. In the coldeat weather the stius trose over the whole surface and they were feedin frosen stlage for weeks at a time. dom any sign of freeztigg in our silo winter weather and even in the eotideol neighboring unvóoted efloa."
A two aad oac-halt tyoh tillo carries with a field til.
> the eill
weather
> much as it th Anulny Ifrctial


## E

VERY breed
to seiect fe or cach cow, for of the priaclples ing of rations dc come more fam available feeds. gulde to the fee good live stock who mastered th of experience. have learne princ ed down from $f$
tiree generation three generation
produce wonderf produce of the master development of $n$ feeding has been regarded by the plementing them it will be possible

## Making Up the Dairy Ration

## The Science of Ration Making is Simple When Understow. <br> By C. R. George

EERYY breeder of dairy cattle should know how seiect feeds and computo a ration. Not that separate and exact ration should be enleulated for each cow, for the consensus of opinion is that thit is nelther necessary nor practical. A thorough study of the principles of feeding and practice in the flgur ing of rations does, however, help the foeder to become more familiar with the feed requirements of his cows and the composition and qualities of the avallable feeds. Thls information will serve as a gulde to the feeder in his every-day practleal work and thus enable him to feed more economically. The good live stock feeders of the past have been men who mastered the problems of feeding by a IIfe-time of experience. With them it has been an art. They have learned by making a trial and observing re. sults. The principles which they learned wero hand. ed down from father to son, and through two or three generations of experfence they were able to produce wonderfut results. Then it was that "the eye of the master fattened his cattle." But with the development of modern science this has been changed. Let no one think, however, that the old "art" of feeding has been supplanted or that it can be dinregarded by the present-day feeders. Rather let us preserve their methods and traditions, and by supplementing them with the more modern principles plementing will be possible to develop better feeders than the It will be possible to develop better feederis than the
world has even known and to do so without spending a lifetime in the making
These newer principles are based on the work of the chemist, who can analyze our common feeds and determine the kind and amount of food nutrients that each contains, and upon the work of the nutrition expert who can not only finc: out what part of these food nutrients can be digested, but can also determine how much of the digestible nutrients are needed by the different classes of animala, These findings have all heen reduced to a mathematical basis, and by rather simple calculations it is possfble 0 determine the approximate requirement of an animal and the amount and flinds of feeds that will supply these requirements,
Food Nutrients and Their Function.
All feeds are composed of large number of definite chemfeal compounds. Those chempounds, or groups of compounds of the same gencompounds of the same general composition, that may aid in life, are termed food mal life, are termed food
nutrlents. Protein, carboautrients. Protein, carbo principal nutrients to be considered in computing a ratton, although minerat fuatter, water and air are equally as important to the proper nourlshment of the cow.
Proteln-This is a term used to designate the group of nutrients containing ni trogen which may be found either in the feeds, in the body of the anlmal or in the milk produced. The animal uses protein to build and uses protein to build and repair Its muscles, connective tissues, skin, hair, horn,
ete, and to carry on cer. etc, and to carry on certain life processes, conse-
quently it is a very essential quently it is a very essential nutrient. The portion that can be digested is termed "digestible proteln."
Carbohydrates-The term "carbohydrates" is used to designate a group of nutrients that includes principally the starches and sugars. They are most extensively found in such feeds as corn, hominy and molas. ses, and are used by the animal as a source of heat and energy and to build fatty tissue.
Fats-Another group of nutrients, commonly termed "fats," Includes all fats and olls. These fats are made up of the same cheml. made up of the same chemlcal elements as the carbohydrates and pertorm much the same function in the anima! body. However,
they are often groupea, separately for the reason that the heat or energy-producing value of a unit Werght of "fats" is approximately two and a quarter times that of the carbohydrates.
Total Digestible Nutrients-All these nutrients, in ciuding the protein as well as the carbohydrates and fats, have a certain value as a source of heat and energy for the body In this respect protein is arac tically equal to the carbohydrates, while the value of "fats" is approximately two and a quarter times greater For the sake of convenlence in figuring rations, the energy-producing or fuel values of these nutrients has been reduced to or common basis, and digestble of values are designated as pounds o. "total would thus include digestible carbohy the digeatiole protein, plus the tiplled by 2.25 . Thed by 2.25
The relacive usefuiness of the different feeds to ligestible fepends quite largely upon the amount of bishes. Theod nutionts which each actually furmos. The common dairy feeds vary widely in their content of the different digestible nutrlents. This permits of considerable choice in selecting feeds, and every feeder should become acquaintel with the omposition of available feeds, so he can select the est and cheapest sources of his feed nutrients.
Every Requirements of a Good Ration. requirements:

1. It must contain a suffient supply the digestible nutrients quantity of feed to maintenance of the cow and the production of the normal milk flow.
trients must be suited to the or balance of these nu3. The feed must be palatable.
2. The grain mixture palatable.
bulkiness. 5. The r
3. The ration should have a slightly laxative effect
upon the cow.

6 It should be made up of a variety of feeds. The feeds used must meet the above requir ments most economically.
A ration that is deficient in one or more of the above requirements will not give the best results. Consequently the feeder should be well acquainted with these requirements and know how to select feeds that will meet them and thus satisfy every need of the cow. The problem of supplying the proper amount and proportion of food nutrients to the cow can best be solved by using a feeding standard which gives the amount of nutrients required by a cow for both matntenance and prequired Feeds can then be selected to and production. ments on the besis of their The other reguirem of their chemical composition. etc., must be met through the as palatability, bulk, have these Maintenance Requiremistics

Maintenance Requirement for Cows
$\Delta$ maintenance ration is one that furnishes just enough nutriens to keep the mature cow at conantus producing milk or developing a fqetus it represents the non-productive part of the feed and includes approximately one-half of the amount consumed by the average cow it is desirable to know the maintenance requirem nt so that the remaimig nutrients that ar avallable for produc tive purposes may also be known The amounts of hutrients required for maintenance vary with the weight of the animal to be maintained as shown in the following table:
Table I. Nutrients required for Maintenance of Cows.:


Additional Requirement for Production. After providing for maintenance, every milking cow must have an additional allowance for production. Aside from fier maintenance the function or process of producing milk is very simflar to that of a factory, She consumes additional feed and manufactures it Into milk To make a pound of mifte of a given quality amount of feed To make two pounds of this make quallty of milk will require twice ss mueh feed if however, another feed. If, factures, another cow manufactulty a migh or a lower quality of milk, she will require a corresponding larger Table II A amount of feed. Table 1 . Additional Nutrients Required for Production.* For each Digentible Total DImilk test. protein $\begin{gathered}\text { gestible } \\ \text { pounds } \\ \text { nutrient }\end{gathered}$ Ing 0.04 to $057 \begin{array}{r}\text { Dounds } \\ 3.00 \%\end{array}$ $3.0 \%$
$3.5 \%$
$4.06 \%$
$4.50 \%$
5.00
$5.50 \%$
$6.0 \%$
 .057
.061
.065
.069
.073
.077
"From "Feeds and Feeding,
The production ment of a cow will requirefore, depend upon there quality and quantly the quality and quantity of duces. The quality protermined by quality is deermined by the per cent of butter fat that it con teins and the quantity by the pounds of milk produced dally. Table II. shows the amount digestible protein and total digestlol nutri ents required for the pro duction of one pound of milk containing different percentages of butter fat
It will be noticed that, the maximum and minlmum amounts of digestible protein, that it is advisable to feed, are indicated in the
(Continued on page 16.)


| 150 Acres, with Crops, $\$ 1800$ Borders Beautiful River and has private lake atobed with trout halr mile hill <br>  ad by river, lake. spring:, yatimp ated 1,000 cords wood, 50,000 foet apple orchurd, other pay foter faria-: houee, piped ipring water to bullit:io los of wife guick saie owing tons hay, piot inectudes <br>  <br>  E. A. STROUT FARM AGENCY ${ }_{150}$ Nassau St., Now York, N. Y. |
| :---: |

FOR SALA ANB WANT ADFERTISING THREE CENTS A WORD, CASH WITH ORDER ImPROVE YOUR BREAD-HoMayyd

 FARM FOR SALE- 182 -acre farm, suit-
able for stook, grain or truck forming
 Weilington in the beatitut canninge of fac-
tory county of Prince Edwurd compris.
 Ria Apply to t. G. Raynor, Wedington,
RR. No. 1, Ont.

FARMERS, STATIONERY- 100 stheets printed with name and sdireas and bual-
nest. in Ontario. 82.25 ; other provinces extra postage ${ }^{25}$, ent Carmery' Printery, Beaverton, Onith ordaer

- Ontario. BUTTERMAKER WANTED, Immedi:
 \$5.00 A DAV, suthering, Evergreens,
 yourself, Book and war prices


## Peck, Kerr \& McElderry

 415 Water St., Peterborough E. A. Reck P. D. Kerr V. J. McElderry

The Mediterrancan Breeds By Michael K. Boyer.
THE Mediterranean class is eompoeed of Ave breeds, divided up
into twolve varietles. The Tes. rns are twive varieties. The Les horns are compesed of eight varieBrown, Single-Comb Wrow, Rose-Comb Brown, Single-Comb White, RoseComb White, Slingle Comb Buif, RoseComb Buft, Siagle Comb Black, RoseComb Black, and Single-Comb Whites. There is only one variety of Syantish, Blue Andalusians and Anconas.
The Leghorns, as a breed, origin-
ated in Italy. The testimnnfal given ated in Italy. The testimonial given
the breed by the Americaa Standard the breed by the Americaa Standard
of Perfection is worth quoting: 'It comprises a group characterized by
rather sman sizes, yellow legs, white rather sman stzes, yellow legs, white earlobes and great activity and
sprightliness. All varieties of Leghorns are hardy and prolific. The males are very alert and strikingly erect in carriage. The ponales are non-altters, few of them showing a tendency to broodiness, being especlally valuable, therefore, as egg producers."
Various oplinions are advanced as to the origin of the Leghorn family and accepted that the reriod orithally came from Italy. The Arst importation on record was made from Europe to Ameriea about 1834 . The shipment came over direct from the City of Leghorn, 'in ftaly. As the fowls bore no name, they were called Legherns simply, on account of the fact horns simply on account of the fact
that they came from the town of that name. Ever since the breed is knowe by that tutle all over the world. It is by that tutie all over the world. It is
gald that birds of the same type wers sald that birds of the same type were
bred in different parts of Europe that brod in different parts of Europe that
were knewn as "Itallans." Were knewn as "Italling.
The Ancona is, as its name implies, A native of Amcona, and has been known in Mngland for about half a century. Their exhilbition dates from 1851. They did not make much headway until 1898, when they were revived by new importations and they came in for a boom.
The Minoros, strictly speaking, belongs to the Spanish family, and were formerly known as the Red Faced Black Spanish, or the Portugal fowl. It is believed by nome that the whitte Minorea originally came from the lsland of Minorca, situated in the Med! terranean Sea. Others are inclined to contend that they are a variety of the Spauish. They were first Introduced into the United States by the late Francls A. Mortimer, of Pennsyllate Francls A
vania, in 1885.

The Andalusian breed, or rather the forerunner of the breed, was imported tato England from Andalusia, in the years 1846 and 1847. They were of ell sorts and colors. Three years later another importation was made with about equal results. In 1853 John Taylor exhibited the result of his
breed at the Baker Street Show in breed at
Lendon.
The Black Spanish were first known the early part of 1800, and as early as 1850 they were popmiar in Pennaylvania and neighboring states. Mariin Doyle some years back claimed that the fowl called Spanish is not an abaolute orlginal of Spain, but was imported into that country from some portion of the East, through the Medi. terranean, or from the Weat Indies by Spanish merchants, and propagated and maturalised in Spain. Lewls Wright elaims they came from the Spigateh Penisisula.
The ontire Mediterranean class are layers of white solored eggs. The Spanimh and the Mlnoreas haviag the credit for producing the largent stied. The American Standard does not give weight gualifications for the Leghorn
reed, but for Minorens it allowis
pounds tor oock; $73 /$ pounde for cockerel; $91 /$ pounds for hom, and $81 / 2$
pounds for puilet. pounds for puilet.

## The Late Victor Fortier

Bthe sudden death of Mr. Victor Fortior, which happened recent Branch has been deprived of the ser viers of an offleer who alled the fiwportant position of Assistant Dominion Poultry Husbandman. At the time of his ciemise Mr. Fortier was do-
Iivering a series of lectures on poultry livering a series of lectures on poultry
topics in Eastern Quobee and the toples in Wastern
Maritime Provinces.
Born in the county of Boalanges 51 years ago, after serving some time as collecitor of Inland Revense at Et Therese and St. Jerome, he joined the staff in 1903 of the Dominion Depart ment of Agriculturs, whers his lmowledge, obtained by practical experib ence as poultiy keoper, fancior and exhibitor, led to his appointment to the position which he occupied at the time of his death. He was particularly closely in touch with the poultry aituation in Eastern Canade and made frequent tours as judge and lecturer In that section of the country. Ho was the anthor of several pubilications on poultry raising and was a frequent contributor to the agricultaral prem on the same tople.

## When Disease Occurs

$A^{5}$least 50 par cent of the chsckens, yount dueka and tar
keyn, and
10 birds, dle each year from diseasan many of whitch are proventable. This is an annual national lose of probably millions of dollars that should be avoided to a large extent.

When anything usasual fos noted in a fowl, it is advisable to place the ters. If within a short time recovery ters. If within a short time recovery does not take place, it is unwise to destroy tho fowl without first ascar taining the cause of the disorder. ForWard to the Blological Laboratory, Central Experimental Farm, Ottara, Ont, a live but aick fowh, or in the absence of such, a dead bird.
Disiafeet the poultry housses by spraying the interlor with a 11 me wash solution ( 50 libs. stone lime alaked in a barrol of whter plus one gallon of a good commerolat disinfeetan'). Fill cracks and erevices to do atroy miltes, llice, ete. If a amaller amount is required it may to pre pared by adding two and a halt pounds of lime to a pail of water plos half a tencupfut of diainfectant.
Kart of a crop growing in some part of the yards and alternate pouttry and crops. If the runa are amall, cover wdth a coating of air-slaked lime and dis up. If the runs are too lerge to dig. plow and cultivate before sowing. Rlape is a good crop for this purpose. Rear all chicks on fresh soil.
Although these precautions may appear unnecessary it is the only way of combatting many disease conditions affecting poultry, which if left to themselves will undoustedly prove decidedly costly in the long run.

It is not an easy matter to ovar fatten the laying hen, as her firat object is to atillze the food for the maksumfieiont to repair the wear and tear on her stresgth in the groduction of oggs. Laytng fowls are groact ention and drinkers In the greal eaters Secrets," publthed by Form pouiry of Phila, pubilised by Farm Journa, whereby the hen after a trap neet whereby the ben after layling passes nto another pen, and at the night teed ail the bens in this pen are gives an extra allowance of food, while those that have not lald are given only the uaual allowanee. This plan will at onee appeal to the poulterer, as it win be the means of afding aumfictent foed most, and at the same whech noed tit most, and at the sams the non-layers provent becoming overfot,


OR ten days we want to transform your Ford into a $\$ 2,000$ car. We will do this by putting on a set
Hassler Shock Absorbers.
If you are willing, we will take them back without question when the ten days have elapsed. But you won't bring them back.


Don't take another fellow's word for it. Feel for yourself the ease and comfort, the amoothmess found in a Hasslerized Ford.
HasslerShock Absorberspay for themselves over and over again. Reduced tire bills,more miles per ga!lon of gasoline, one-third up-keep cost savedall swell the total of Hassler dividends. 300,000 Ford Owners recognize their economic necessi-
ty. Write today for Free Trial Blank, illustrat-
ed circular and ed circular and Don't ride without simply because someone dise courages you from trying them. Accept this offer and ses for yourself.
ROBERT H. HASSLER, Limited Lat Brume HCas Humiton, ONT,CM

## Farm

## Europe's Lab

T
growir 1 foo els to the acre that one hour At prevailing yi labor on potato
bushel of that c bushel of that nd onequarter viously a mat.
$\qquad$ factors whic an be produce stablished, time efficient wheat
The average ma hat Europe had asce of cheap la
self accounts to wheat per acre arrosts, as com 20 bushels per counterpart in farm machinery.
to the team and b wider harrows, d fs possible to rear
gulred in raising per cent. This
to Buropear ab to Euror.

Fertilizer T al crop fertll
all the plant art back for fut observing farmer grains or grasses hill-fertilized ohif Wrnariment thls poinf. For Wooster one piot the wheat the treatment cre. The clover at timothy follow 10 pounds, the fillowing the corn ner words, 60 per ind to per cent ad fifth tables. A Farmer Tries :
 world went to was deprived native ladustry has
advocated. Mr. Moo advocated Mr. Moc
the Ontario Agricult tives at Norwich, in taien this propaga
that thile year he is wholesale quantitie cres in radish, thr acre th Olant Wha iolden Bantam corn, puse, seven acree w
a lot of onfons, carr FISTULA \& mi

"This in the earr
lith started in seed prod moore to an editor of the radish field. had only crop enow Blace then the what

## Farm Management

Europe's Labor-Our Machinery By Hanry G. Bell, B.S.A.

THe Erowing of wheat producos mod more highly important put upon it, then hour of man-labo or corn. When wheat yields 30 trush els to the acre, reliable figures show that one hour of man-labor produces one and two-third bushels of wheat. At prevailing yields, one hour of manlabor on petatoes produces about a bunkel of that crop, while on corn, one hour of man-labor produces about one hour of man-labor produces about one
and onequarter bushele. It is oband onequarter bushele. It is ob-
vionsly a matter of labor economy to grow wheat.
By giving proper attention to all the factors which enter Into successful wheat growing, much larger yields can be produced. This has been established, times without number, by efficient wheat growers of Earope The average man is disposed to say that Furope hed until lately an abundance of cheap labor, which fact in itself accounts for the 30 bushels of wheat per acre which Great Britain firvests, as compared with the 18 to 20 bushels per acre which are gather od in Canada. Cheap labor has its counterpart in our highly emieient farv machinery, By adding a horse to the team and by using wider plows, to the team and by using wider plows, vider harrows, disks, binders, etc., it is possible to reduce the man-labor required in ralsing wheat from 50 to 75 to European abundant and cheap labor.

## Fertilizer Futurities

T:HE crop fertilized never consumes all the plant food given. The poll always and invariably holds part back for future crops, as every observing farmer knows who has seen the spots of larger growth in the small grains or grasses which have followed a hill-fertilized crop of corn.
Fertility tests conducted at thi Ohio Experiment Station illustrate this poinf. For instance, in the fiveyear rotation on the home farm at Wooster one plot is fertilized only on the wheat crop, and the wheat has given a 20 -year average increase for the treatment of 18.72 bushals for scre. The clover following the whest has been increased by 588 pound has been increased by 588 pounds, tae timothy following the clover by 210 pounds, the corn following the imothy by 7.44 bushels, and the oats following the corn by 3.64 bushels. In ather words, 60 per cent of the falue of the total Increase has been tound a the crop recelving the fertiliser, and 40 per cent in the four erops which ate at the second, third, fourth and fifth tables.

A Farmer Tries Seed Production $\Gamma$ VER since August, 1914, when the - world went to war and Amertea L. was deprived of 1 ts sources of native inply, seed produotion as a drocsted indry has been continually Mocated. Mr. Moore, a graduace of live Ot Nio Agricultural College, the thes at Norwich, in Oxfond coanty, ias that this propagands so serivasty wholesale guantities acres In radish, He has ten acres in radish, three-quarters of an sere of Detrolt White mangels, one cold of Detroit Red beets, one sere Goiden Bantan corn, two meres gerden pan, seven acree wax beans, besides lot of onjons, carrots and parsnips. This is the fifth year since I first started in seed prodwetion," aald Mr. Moore to an editor of Farm and Dalry, Who stopped for a chet with hairy Hts radinh field. "The first year In had only crop enongh to get some stock and see what it get some Stace then the acreage has increased

## each year and now I really feel that

 Mr started in the businens.Mr. Moore is endeavoring to make than the best imperted little better than the best imported soed. He grows all of his own stock and carsin the prodactire best. For instance, in the production of prangel seed, he selects the very bsit ilpeolmens from his mangel field and from those large selected roots he grows the seed with which to produce his atocklings. In table corn he follows the sar selection method of cort fmprovement. So far Mr. Moore's chlef difticulty has been to establish a satisfactory outlet for his garden seeds, but this year he will produce enough seeds to give more attention to the markettig end of the enterprise.

## Liming for Clover

$I^{N}$N bulletin No, 218 of the Indiana Experiment Station, the following summary is made concerning the alue of lime for growing clover:
Clover will not thrive on acid solls. Liming is the only practical means of correcting soil acidity.
Three-fourths of the solls of Indiana are acid and in need of Ilming. About onefourth of our solls is so very acid that clover falls almost very acid that clove
every time it is sown.
About one-half of our soils is of slight to medium acidity and clover witions whenever the weather conOnly are at all unfavorable.
Only about one-fourth of the solls of Indiana is well enough supplied with ime to enably clover to develop properly.
A liberal application of pulverized limestone or some other form of lime is needed to insure a clover crop on any acld sell.
Wherever clover falls to thrive, the If the soil ts acid for acidity.
If the soil is acld enough to need
liming at all, at least two tons per acre of ground limestons or its equivalent in other forms of lime should be applied.
Ground limestone may be applied at any time, but the best plan is to apply it on plowed ground and disk it into he surface soll.
Lime will often produce immediate increases in grain and other crops, but the greatest benefit derived from it comes through increasing clover Following legumes in the rotation.
Following a good clover crop, it is possible to grow good grain or other crops.
The greater the proportion of legumes that can be turned under, either directly or in the form of manure, the easler it will be to maintain the fertility of the soll.
Lime is not a fertilizer. Manure or fertilizer, or both, should be used in addition to lime.
On seven experiment flelds in different parts of the state, ground lime stone has produced crop fincreases worth from $\$ 10.50$ to $\$ 67.70$ per acre per rotatioa of corn, wheat, and clover. The average net proft has been $\$ 6.78$ per acre per year, and $\$ 2.68$ per dollar invested.

## Farmerettes Make Friends

"Wtarmerettes in agricultare" was the very agriculture," tion asked by Dr. Riddell of the Trades and Labor Branch of Ontario's Trades and Labor Branch of Ontario's
Distrlet Representatives of Agrleul. ture when is conference at Guelph recently.

I have nothing but words of praise for the farmerettes in Lincoln County," stated Dave Elliott, of St , Catharines. There are 250 in the county, chiefly housed in camps, which is, I consider the best method, They are mostly employed on fruit
farms wherd they work on the plece work basis, excent in thin picking. Where they work for straigit wages. A few are employed in mixed farming, some of whom were trained at Guelph, and I tell you they appreciate the training they got here.
These girls are very quick to grasp what the work demands", supplemented Mr, "Plliotl. "They don't have to be shown ten or twelve times and so'ie farmers have told me that they are superior to the S.O.S. boys."
We have placed fifteen farmer ettes on mixed farms in Norfollc county," stated District Representaive Neff. "Three of these have rewas because of sickness there and was because of sickness there and not because they were sick of the job. The farmers are very much pleased with them and whl be glad of more help of the same kind another year."
Dr, G. C. Creelman came out strovigIy for the farmerettes. "I have conse right up from the peritents' bench, and declare myself a complete convert to the idea of women in farming." stated Dr. Creelman. "I thought at first that the frmerette in agricultire would be a laughing stock. I hesitated about establishing a trainhesitated about establishing a train-Twenty-nine of them came to Guelph Tweyty-nine of them came to Guelph They did all of the heavy work in the stable and fleld and were willing to take early and late hours. Even the foremen around the farm, who at firs: did not want to have anything to do with them were soon admiring their endurance and the good work done, I am now so convinced of the position that women will occupy In agriculture that I am now accepting women for the regular course in agriculture in this province on the sam. basls as the boys."
"The only help that I had on my


Maxwell Ability
Emphasized by Champions
The ability of the Maxwell to take most any kind of road without apparent effort is the direct result of selecting Champion

harm at one time tais nummer was marmarette, stated ins, Hawry Blrout; who farms on the lalienbore of Ontario county: "ghe is a farmer' daughter of good phissique. 1 am por feutly salfettet ant expect that the work will fmprove as time goes on." Mr. Sirett belleves that thase rirle may play an important part in harveating this rear's apple crop and he has alrearly applied for three or four giris: for that season. "D thinle it would be wrong; however; to encourage the tdea that these giris can do as much as man" aaid he, "thay are not paft as munh and thay shoufd not be expected to do aes much. We will not aske them to handts Inder- of over 30 feet length. Men should be provided to earry the basintis, leaving the grids for pleking only, Apple pieking will conflite with threehting pick fell plowing unlese we gan and fail plowing uniess wo-,
\#onen for the apple harvent is employ tige ehty on a somemhnt employ ing ghta on a somewhat extenaive acaie for puining the Outario 榇s erop and they are making good. The farm:
erette is malding friends on all sides.

## FEEDERS CORNER

## Feeding Grain on Pasture

THE high price of concentrates is worrying many farmers who have been aerustomed in the past to feed a little concentraten to their dairy cows when on pasture. "What do yon think about it ${ }^{\prime \prime}$ an adsLor of Earm and Dairy asked Mn. M. L. Haley of Uxford aminty.
"I think it is a good thing to teed meal to the cows on panture if they will eat it," replied Mr. Haley, "When cows are on good June pasture they won't have much use for grain. We have been feeding a Little and the cows are beginning to ant mores. This

August 32, e belng nit pross weigh ommisaion thenale ric the ondar hould ze tah ermining the

After a rece an a Governn法 srenue, huggi Ho held up hi Meed, "Don't t ont my bratns, don't take my any brains to Coanter-Journal

# Harvesting in Western Canada 

## "Going Trip West"--\$12 to WRNIPEG

## "Return Trip East"--\$18 from WHNIPEG

GOING DATES

Auguat 29th

August 2and and August 29th

TEARITORY
(From stations in Ontario Weat of Smith'a Falla to and inoluding: Toronto on Lalke Ontarto stiore Line and Havelock-Peterbiorat Line.
From stations Detween Kingaton and Renfrew Junction, incluaive.
From stationa Toronto to Parry Sound inelumlve
From atations on Sault Sto, Marie liranch.
From stations on Mntm LInes Beaucage to Frang, inclustven
From atations Bethany Junetion to Port MoNicoll and BurketoniBobeaygeon.
From mitatione ic Ontario West and Bouth of Toronto to and Including Hamiltor and Windsor, Ont.
From stattons of Owen Sound, Walkerton, Teeswater, Wingham, Blora, Listowel, Goderich, St. Mary'l, Port
$\left\{\begin{array}{l}\text { Burwell } \\ \text { From stationis Torento and North ta Bolton, inclunives }\end{array}\right.$

## Western Irrigators Meet at

 Nelson(Continued from Page $\mathrm{Two}^{\text {w }}$.) dorses the recommendation of the recently formed Coaldale-Lethbridge Water Users' Association that legisla. tion should be provided whereby water users within a territory served by irrigation waters be empowered to organize water users' associations without having first obtained the consent of the company upon the tion of a majority of the water a petresident within the propenter users and that within the proposed district ton be sranted water nsers' associaIrrigable land wither to assess the trigable land within the district for The purposes of the association. That this convention endorses a
resolution recently passed by the

Springs Local Number 172 of the United Farmers of Alberta, requesting the Dominion Government to carry on at once surveys, and Invesid. gations as to provide information as to the possibility and the probabia cost of carcying frrigation water to are a great number of farmers as possible In the districts that can se supplle from the proposed diversion of Oldman River wast of Macleod th

Farm surveys have demonstrated that large farms as a rule are most profitable. Not every man, however, is capable of managing a big farm. I would not advise the man who is below average on the small farm to ge: a bigger one. The chances are he wouks make a greater mances are he business than ever-Mr. Hewthorne in charge of U.B. Survey Work

## (9)

No Milk for English Adults

## G

 REAT Britain is confronted with a searelty of dairy products, chlefly the result of shortage fn cattle feeds. Permits to buy milk are issued for certain classes of the population, including children ander five years, invalids and nursing mothers.The statement is made on excellent authority that "an adult cannot buy in Loadon a glass of mills, even if willing in pay $\$ 20$ for it." Not only butter, but all kinds of fats are obtainable only in extremely small quantities. Some familles are without any fats for neariy a week at a time. Ice cream disappeared from the market more than a year ago.


RE AEMBER this about prices! Wheat is high,'beef and pork are high, all the food you produce is high, because the 300,000 men of the Merchant Marine brave the perils of the submarine to carry your produce to market.
15,000 men of the sea have already given their lives in YOUR service. What will you do to relieve the wants of their widows and orphans?

## Remember by Giving

In great measure we owe to the sailor our liberties as free citizens. Without his sacrifices we would not be enjoying national prosperity such as was undreamed of at the advent of the war.
Yet these men who are doing so much for the great cause-manning transports and hospital ships, as well as vessels carrying food-are not government em-
ployees, so that no provision is made for pensions, for separation allowances, or for relief for their widows and orphans. Let us be just! We will contribute to the support of the widows and orphans of the victims of the submarines. Our cry shall be-"They shall not want." Ontario's Objective - $\$ 1,000,000$
Ontario has never failed!

CAMPAIGN COMMITTEE
Sir John Eaton, Chairman
labor. The margia of proft, however, is not large snough, and this young man and thousands of others like him hesitate to embark in the profession which they preter above all others untll they are in such a position finapcially that they can afford to ignore finterest on lnvestment if need be.
This is a serions altuation, particularly at the present time, when we are hoping that returned soldiers in large numbers will go on the land, become primary producers, and thas help in meeting our great natlonal obligations. It is a altuation that can be tmproved only by increasing the economic returns of agrieultare. We know of no way in which this can be done, save by the removal of the legis lated disabilities under which our tidestry labors, and of these the chitef is the proteetive tarilf.

## Quebec Farmers to Organize

I'congress of farmers held at st . Hyacinthe recently it was decided to establish an organization of farmers in Quebec, similar to the United Farmers of Ontario and the Grain Grewers Associations of the West. The opinion was expressed that Quebec farmers have fnteresta in common with the farmers of all the other provinces in Canada, and that unfon with them through the Canadian Councll of Agriculture is desirable. A strong committee of twentyfour prominent furmers was appointed to draft a constitution for a provinclal organization, and a further meeting will be held at St. Hyacinthe on August 24th. This action has been taken after only a few months of consideration, so evidently the cooperstive idea has developed rapidly in Quebec.
The ideal of a united agricultural people from ona end of Canada to the other is being rapidily consummated. New Bronswlek has a flourtshing and growing organization. Quebec is about to organize. The United Farmers of Ontario now enrols over 20, 000 members. The Grain Growers' Associations of Manttoba and Saskatchowan and the Unfted Farmers of Alberta already hold the relins of power in the prairie provinces. In the far West the United Farmers of British Columbla are pushing their organisation with enthusisem and suecess. Only twe small provinces-Nova Scotia and Prince Edward Islandhave as yet made no definite move toward independent organization, but there, too, we understand, the subject is being diseussed and action may be taken at any time.

It is fortunate that farmers are now seeing as never before the necessity of unified action. Already the finvisible powera that have ruled Canada for more thaí a generation ars laying thetr plans to folst on the farmers, through the medfam of the protective tariff, a large part of the burden of after war taxation. Onily a united people can save agriculture from even heavier disabilities in the future than those which have depopulated our rural districta in the past. It is a satisfaction to record each new forward move, which means a stronger and more united front in defence of our industry.

## The Drift to Ranching

THE Toronto Globe is much exerefsed over the drift to ranching in some of the best agricul. tural counties of Western Ontario. In Huron and Middlesex, so our contemporary informs us, more land has bren turned to graaing than in the broken countles of Durham and Frontenac. The Globe would lite to know why those things thould be.

In the first place, from our knowledge of the coun. thes mentioned, we very much question if there is a larger propertion of the cleared lands devoted to graxing in the countles of Huron and middlesex, where almost all of the land is suitable tor cropping, than in the counties of Durham and Frontenag, where there is much rough and broken land. Our obsorvations convinee us, howover, that in all of these counties there ts a tendency to seed down the land and devote amaller areas to celtivated erops

That this is se should occasion no surprise. It mereig illastrates one method whereby the farmer is af Justing his business to a diminishing ta末or supply.
Just how serlously we have drained our farms of labor is not fully appreciated either by people geaerally or by our political leaders. It is sate to esthmate that 75 per cent of the last military draft came from the farms of Canada. In one camp, the Colonel In charse testifted that 90 per cent of this men came from the farms. This draft came on top of a largo loas of farm labor by voluntary enlistment, and asother equally great loss due to the high wages pald in munitions factories. As a result of all of these losses Canadian agriculture is now oven more serlously undermanned than is English agriculture Speaking in the Engush House of Commons, Mr. Prothero, a member of the Lloyd George ment, deelared that through the utilization labor of Cerman war prisoners on English there is more labor on these farms to-day than ther was in November, 1916. And further, he asserted that even with the recent combling English farm laborers for military service per cent of the men between the ages of 19 and 31 employed on linglish farms, had been taken.
Statistics are not avallable, but we feel sure that since November, 1916, at least 25 per cent of the men of military age have gone from Canadian farma, and there aze not German prisoners to talke the place. If men are more needed than food, then tho Canadian farmer will have no complaints except in such cases where conscription severe personal handship. But in the face withdrawal of man power from the farms it is absurd to wonder why there is a drift to ranching. The wonder would be if the tendency were any other way.

## Compulsory Military Training

AFEW weeks ago Farm and Dairy spoke of th stand taken by Major Mowat, of Toronto, in fevor of univereal eompulsory military trits ting for Caasda. Now ex-Presldent Roosevelt, speak lig before the Republican State Convention in Ner York, has declared in favor of the same policy tor the United States. Commenting in a recent issue of The Weekly Sun on the remarise of these two fire brands, W. L. Smith writes as follows:
"One of the most disheartentng things gerve how slow some men, who ought at least aremge intell ens. patemt lessons from obrious facts. Europe had mil vereal millitary service before the war. frontlors men were maseed under arms. terior araomils tions of war. Wiverywhere people ware with monb battalions and dreaming tn aruy corpe. War in in the very aif that people breathed. Acroms imacis ary Hnes were not nelfhbors but potential toes Under these clrcumstancee it was only a queetion of time when guns ahould begin to go off. If the murdif of an Anstrian Princoling had not started the cae flagration on the Serblan fromeller some other equally trifing oause would have started it on some other frontter. And atill in the face of these facts, after 100 years of peace, due very hargely, if not wholly, to the abpence of armamenta, men on both sider of the Canadiun-American frontlime are urgting the crea tion of the very conditions here that are deluring Europe with blood."

Canadians have given of their best to this war. It has been to us as to the demoeracy of the Old land, a war to ond war. And yet right in our midat an those who would felgn farten upon us the same sp tem as made a war in Europe inevitable. ganized farmers of Canada have no greater tuit bofore them than to combat and nullify the idenis and influence of these firebrands.

The frat farm survey in Canada has demonstrited the greater money-making power of the large farm Prof. Lesitch recognizes, however, that the lars farm is not wholly deairable. "We hope to be able ie fod those factors that will anable the small farme to make more money,", he sald recently. "The mo cess of our demoeracy depends on the largot put allie number of men working thetr owe land."

August 22 ;
Where ITY hes deavorin
clpal mi stress, toms of inspe of the cow st
farmer with farmer with
dean cows Now along Illinois with, fs all wrong, bles or the a contamination cleansed uter after extonsiv "The fact is into milie at $t$ elusion that t pal source of The results 0
ehow that it than the barn sponsible for contamination atensils is str one of the expe When all the $u$
for handling for handling and in the dal
ateamed, the steamed, the
tormly only ab tormly only ab
cubie centimete cubie centimete
atoaming wats millk frequentl bundred tho entmeter.
are a particula bacteria when the dairy and vithout being
and dried. The and dried. The
panally added asualiy added number that wos the milit at the neter of m/Ik uncommon.
"A detalled sils at the barn: zests that the
tion comes from tion comes from the bottle filler, periments in this
that pails added that pails added
times as many ba times as inany ba
the barn influenc and onelailf time fier 30 times as times as masy,
60 times as man 60 times as man
tlaes as many ad as by the bara fa attermst to proder atterme to proder
germ content tor been lald on prac portance, and the Whs poariy stoames

## The Housir

Shave a henain hands. War o More familles have contrea than there a to properly accomm
are the eltios zoin are tas cities goin
surplus population? marpios population?
tario Proviselal $G c$ handed the problem Istiton of Tleseure
apecial housing sul special housing su
dnwa up conerete. groater housing fael towns. "But the cen it would fall in its the very thorough
tlon, housing condit r-riets of the pro lold Ontario's amber old Ontario's Distrte
when they recent

## Where Dirt Comes From

Cdeavorimt officials, when en-
 cuist stross, when formulating sys. tems of Inspeetion, on the cleanliness. of the cow stable and barnyard. The farmer with the slean stables and the clean cows gets the highoat score. Now along comes the University of alinola with the iftatement that this is all wrong, that the most of the dirt in milk does not come from the stacoles or the cows, but that the main contamination is from improperly cleansed utensils. Their conclusions, after extensive studies, are summarised in a recent bulletin as follows:

The faet that the dirt which falls into mille at the barn is readily yisi ble in the milte has led to the conelusion that the barn is the princl gal source of the bacteria in milli. The results of this study however show that it is the utenaits, rather than the barn; that are largely responsible for the exvestive bacterial contamination of mills. The extent of the contamination of milk by the utensils is strikingly illustrated in one al the experiments in this study: when all the utensils commonly used for handling the mille at the barn and in the dairy were thoroughly steamed, the bottled milk had unitormly only about 5,000 bacteria per eubie centimeter, but as soon as the atoaming was omfted the botuled milk frequently contained several hundred thousand bacteria per ouble centimeter.

The cans used for shipplng mill are a partieularly prolific source of bacteria when they sre Wastied at the dairy and rellurned to the farm and driout being thoroughly steamet: and dried. The number of bacterla aoualy added to the railk by sueh cans is many times larger than the aumber that would ondmarily get fnto the cumbl at the harn; the addition of a million bacteria per cubic eents. neter of miliz by such cans is not uncommon.

A detalled comparative study of the effect of the varions other utenatls at the barn and at the daity mag. gests that the greatept contamina tion comes from the more complex apparatus, such as the clarifier and the bottle filfer. in ons of the ex periments is this study, it was found that pails added approximately 11 times as many bacteria to the milk as the barn influences, the strainer one and oneinalf times as many, the olart. fier 30 times as many, the coolbr 10 . fier 30 times as many, the cooler 10 times as many, and the bottle filler 60 times as many-a total of 112 times as many added by the utenails
as by the bara factors, as by the bara factors.
atterupt to to the authors that in an attempt to produce railk with low gorm content too much stress has been laid of practices of mtuor im . portance, and the influence of utensils poarly stoamed and not dried has been commonly neglected."

## The Housing Problem

SEVERAL Ontario clties and towns have a housing problem on their trated business in a few concenMore familias haye crowd inw centres. centres than there are house into thes d to properly accommedate them which to properly accommothate them: What are the cities going to do with this purplue population? Already the Onhanded the proll Government, having handed the problem over to the Organination of Reseurees Committee, a special housing sub-committee have drewn up concrete plans for providin: greater housing faellities in eities and then. But the committee feels that it would fall in its efforts if it did not take very thoroughly into. consider tion, housing conditions in the mera dr-ricts of the provines,", Profassor Bissons, a member of the committee. fold Ontario's Distriet Repremitittee, When they recently conventatives When they recently convened at

W
"There is no permanent labor supply in rural Ontario," stated Profossor have year after year, accured, we will farmers working too long hourn and general discontent. I would call your attention to the fact that 50,000 houses are to be built by the governmont rural England. How are we going to meet the need here?
I know of at least one Ontari? farmer who hires several men, lives near a conple of good towns where there is nuch war work going on and yet has no labor problem," sald Dr. G. C. Creelman in continuing sald Dr. cussion on rural housing. II refer to Will Dryden of Brooklyn. "I refer to Mr. Dryden found that he This spring several men. He that he would need one of the fretories it announced in he neected these men in Oshawa that appeinted he went down ond the day pleck. The went down and toois his positions where they were to leave pesitions where they were getting
several dollars a day for the posting that Mr. Drydas offer the positions that Mr. Dryden offered them at $\$ 49$ to $\$$ fey per month. The drawing cards were good cottages to live in, a gar den, milk, etc. I believe that the rural labor problem is going to be solved in this direction."
"We have looked into this problem of rural housing in connection with some of our surveys," F. C. Nunnick of the Conservation of the Commission told the gathering. "We visited 100 farms in each of four countles. We found that the farm labor difliculty was beling overcome most successfully by those who had houses on their farms for their help: suitable houses, 1 mean; some were not fit to live in: A good cottage, however, aliways en en abled a farmer to get good help and keep It."

Mr: Nelson flonteith, ex-Minister of Agriculture for Ontario, under whose adminiatration, the representative novement was launched, concluded the discusalon on rural housing "One of the flist moves I made on learing Guelph to go baok and run the home farm was to build a house for the hired help. It has been a good the position. I have always secured a class of help that mingled with the toefety of the community and left me only when they went on to farms of their own," said hei.

## Paint the Car at Home (Continued from page 3.)

and thon we applled the special body mese that we had gotten for the purpose and gave the top a coat of special top finish. I sbould say that the whole job, sand papering and all, represented one and a halt daya' refor two of us. My own car looked pretty als, 1.50 . it was natural that the same subso came up for conversation when I In to see Peter Smith, who also ran near Stratford. "I have paine fives car every spring aince I pointed my Mr. Smilth, "and that's abont fit," said ago. This spring I got the five years 90 cents at Faton's, and it ts a a for 90 cents at Eaton's, and it is a nice, easy job to $r$ at in a hollday at."
I won't say that any of these cars had as smooth a finish or a finlsh that would bear as close inspeotion as a professional car painter would heve
given them. Seelag thams pase given them. Seeing them pass on the
road, however, one could pot road, however, one could not tell the difference from a professional's job. So now we have the top dreasing and tha body finish and any quantity of sand paper. The next time we go out in our car there won't be a coat of rust on it to be askarsed of.

## Cheese Factory Burned

 HILR attending the meeting of tille, Nere Board at Brockvilie, Norman Tackaberry was notified that his cheese factory, situated at New Dublin, eaught dire and was destroyed. The factory wha one of the largent and beat equipped in the district. It received between 8,000 and 10,000 pounds of milk dally.
## Are you going to be caught without a Silo this fall?

If not, you have no time to waste. In a very few weeks your corn will be ready to harvest.

Freight shipments these days are slow and uncertain. Unless you

## place your order immediately for an Ideal Green Feed Silo

you may not get it up in time to handle your corn. This is a risk you can not afford to run.

Order your Silo now. Allow for freight delays and uncertainties, Give yourself time to erect it properly. If you put off this important matter you may find it impossible to islo your com this year.

Don't run this risk. Don't put off your decision any longer. Next week may be too late. Act NOW-TODAY, and when the snow flies this winter you will have the satisfaction of knowing that you are giving your cows a chance to make meney for you.

## THE DE LAVAL COMPANY, Ltd

 LARGEST MANURACTURERS OF DAIRY SUPPLIES IN CANADA. HONTRER Cataioen and 50,000 BRANCHES ANERBORO WINNIPEG VANCOUVER

## Sending Money to Soldiers



Those who have friends or relatives at the front, may wish to send meney, but possibly do not know the bestway to do so. If time permite, the safest and most convenient method of making remittances abroad is the Bank Money Order or Draft, as issued by The Merchants Bank.
If, however, it is necessary to send money without delay, the Bank will arrange this
by Cable Transfer.

## 


whth lte 102. Bra
 WRITE OR CALL AT NEAREST BRANCH.

## Ontario Veterinary College

## Affiliated with the University of Toronto <br> College will reapen on. Tuesday, the lit of October, 1918 118 University Arease Corsonte, Canada

E. A. A. GRANGE, V. S., M. S., Principal

## OUR FARM HOMES <br> 

## 

 miduram-Massinger.
## A Black Cat for Luck

## By Mary Barrett Howard in Farm and Fireside.

OHAGAN, his right arm in a aling, Himped through the train shed at grasping the rall of the last car awkwardiy with his left hand, on to the New York limited just
slowly out of the station.
Just out of the hospital.
Just out of the hospital, the blg policeman staggered a bit from weakness as he made his way to the smok or. 8inking into the nearest seat he ift ar strong
long breath.
"'d oughta had a look in at' Strike" he muttered worriedly, "But them doctors kept near missed me tratn."
If you are a reader of Chicago newspapers you may have heard of Strike, the black cat which a striker, during one of the perenand labor, had flung, no more and labor, had flung, no more
conventent weapon being at conventent weapon being at
hand, at the head of a scab motorman. motorman.
diplomatic mission, had walted to assure himself that the injuries of the big "motor cop" were not fatal, to deposit several thousand dollars in a bank to O'Hagan's credit, and to obtain a promise from the police commissioners that this humble hero on his recovery should be given two months leave of absence.
O'Hagan, to whom the rescue of all in the day's work, at first flatly re: fused to be rewarded for an act that he regarded as merely his duty. It

A backyard garden at 517 King St. East, Toronto, typleal of thousands of others in Canada
that are helping to solve the good problem. In thit garden aro growing cabbage, beans, peas, that are helping to solve turnips, beets, carrots and other vegetables.

Wis not until his nurse had advanced at argument to reinforce adjurations of his chlef that O'Hagan was persuaded to accept his unexpected good fortune.
'Perhaps you don't deserve it, Mr. O'Hagan," the little nurse, who had grown fond of the b'g, patient fellow, sald laughingly. "Bat you know man who has saved the life of a black cat must expect all sorts of good luck to come his way, so you may as well make up your mind to ft ."
"Sure there's plenty belleve the same," O'Hagan asqulesced gravely "And I'd be easter about takin' the money if 'tis to Strike $\mathrm{I}^{\prime} \mathrm{m}$ owin' it, instead of to a man I've never set cyes on."
He had grjnned rather shamefacedly at the laughter this speech elicited, but all the same he continued secretly to treasure the iltile nurse's suggestion, and before he left the hospltal then, and obtained a promise from the he had obtained a promise from the
chief that Strike should be hils wedchlef that Strike should be his wed-
ding gift from the force. For the blg ding gift from the force. For the big motor cop's herofsm had not only
won for him fame and fortune, but
 wes not uncil his nurse had adyanced

O'Hagan had expected to be married as soon as he could obtain a license, but when he broached the subject he
mistake
mistake. "I ain't goin' to marry you till just before your leave is up. Tim," his fiancee informed him. "My trousseau ain't bought yet, and, anyhow It'll be lots more fun bummin' round town before we're spliced than it will after."
"Say, dearie, are you sure you want to blow in all that money the way you said in your letter ?" O'Hagan ventured. "It would go a long way toward buyin' a nice little place in the suburbs on which I got me eye."
"Oh, you're tryin' to welch, are you?" the girl said scornfully, "Didn't you promise me if I'd marry you and go to that Jay town to live that you'd show me one good time first if it took ever cent of that money?"
"Sure I did," O'Hagan acknowlike I do for you, darlin':" he sald wlatfully, "'tis not of cabarets an'
also had caused pretty Pearl Dailey to reconsifer her refusal to marry the aceident which bad been publish ed in every paper in the country having brought forth a letter from his hitherte obdurate sweetheart, offer ing, under certain conditions, to abandon her decision never to consent to live anywhere except in the great Eastern metropolis where she had Eastern metropolis
O'Hagan's idea of a blissful honeymoon would have been a stay of a week or two in New York and then a return to Chleago to invest hits little fortune in a snug cottage in the
suburbs, where he could enjoy the resuburbs, where he could enjoy the remainder of his leave in quiet domesticity. But pretty Pearl had stipulated that the whole two months were to be spent in New York, and Tim O'Hagan was humbly grateful
for taking him on any terms.

A few hours after the train had pulled into the Central Station the big policeman, fresh and pressed from the tallor, smooth and perfumed from the barber, was holding pretty Pearl in his eager arms, and had made the diecovery that in a dashing gown of tango red his Eirl was even more of a "peach" and a "queen" than she was that day when she had sent him way with the cruel remark that she wouldn't leave New York to live in Chifago for him "nor for any other fellow that ever came over the pike." bow cat and had been rescued by oficer O'Hagan, and the cat, after betng produced in court as evldence agninst the striker, had been taken to police headquar-
tera and adopted by the force ters and adop
as Its mascot.
But Strike, as Inevitably the black cat had been dubbed, while accepting the attentions of the other men with the afr of bored indifference pecullar to his species, had attacned him-
self to O'Hagan with an affecself to othagan with an afmecty inate tenacity more commonty Been in dogs than in cats. The big policeman had reciprocated this feline devotion with an uade abashed ardor which had made
him the butt of much good-hum. ored chaff from his comrades. After a fow calming pulls at his clgar O'Hagan's handsome face cleared.
'I bet the fellows was tryin' to put one over on me," he reflected.
ain't
boob enough to fall for their talk about Strike missin' me so he's off hils feed-they was just stringin' me."
Dismissing therefore the one flaw In his otherwise unalloyed happiness, the blg man allowed the mage of a cat. Handsome Tim might have posed as a pleture of the foy of life personified as he sat wrapped in dreams sonifled as he sat wrappedom he was of pretty Pearl Dafley, whom he was now on his way to marry. And this In spite of the lame knee and useless arm that still bore witness to the ex. tent of the injuries he recelved when he had dragged a pair of terrified hornes from the ralls of an approaching trolley car.
Fate had decreed that the occupants of the carrlage drawn by the runaways were the wife and children of a very great man indeed who, although be was on the eve of taking passage for England on an Important

## lobster palaces you'd be thinkin', by

Pearl's red lips set obstinately.
"You promised," she insisted. Histen, Tim O'Hagan, therell be cottage in mine. We're goin' to bourt 1 ain't goin' to housekeepin'-wority myself to death gettin' meals washin' dishes.
The big man sighed, but love mand carried her point in another contly of wills.
"Say, Tim, d'you remember Maloney?" she went ob. "BMy boardin' with us since her molter led, and I
"Sure, I r
"Sure, 1 remember Mary. She ne one nice kid," O'Hagan said wamy "But, dearié, what do you waut he along with us for you all to meselt was thine d got you all to meself at lash" Oh, I know three's a crowd hy there's another fellow comin' my
Pearl sald carelessly. "Mary Pearl sald carelessly. "Mary wut cont you
tightwad.

Othagan's handsome face rudeest I afn't no tightwad nelther: protested. "But when -
"Ain't I telling you w \#f?" Pearl demanded.
good to have a bit of finll do tinued craftily, "Poor kil, the never got over losin' her monther in she won't stir a step if you hamity the ice pitcher-Mary's why sensitive,
The big
The big policeman meltads stantly.
"Sure, I wouldn"
now; sure I wouldn
now; sure I wouldn't
mered. "But who's H
"He's a floorwalker at hat \& Company's. One swell it low, belleve me.
Miss Dafley omitted to tion that before lhe aim
O'Hagan's good luck her she had almost deciold marry the "swell" floormhy she added. "Atruid of in, I bet. I'll fetch her." A moment later OHagan holding the hand of a silin,
girl, whose wide gray ejel girl, whose wide gray eva
lookting up at him with hat adoring concern.
bad ${ }^{\text {" }}$ " she faltered won't be lame airast you?"
"Sure

## Jaughed.

dandy, Mary feelin' fint dandy, Mary, but 111 ne BIg Tim was too blinder the little god Love to cerf the thls er concern mall by this girl, whom the calm indifference the girl her marry had shown in maktag ief for the evening without regand possible effect of a long, the journey on a man who had mo the hospltal. Ho was equair 0 the fact that Mary Malonion her smooth bright hair and lowe volce, her plain black coat and and immaculate white linen would have won an approvtar from critical eyes which woul regarded pretty Pearl in her $h$. gown of tango red with amusement. However, he hal very fond of his little pal, it stood smiling down at het, both her small hande in his en warm one until Pearl, who bil ped from the room unnoticel ie ped from the room unnoticel ed usharing in pafy agellide young man with puffy air of extreme sophistcation Tim, meet Mr. Fink," bir with an involuntary glance miration at the floorwalker

(Continued on pase ili)

THE U

## That Y

"1Him is John III. a know," "that He was m getion from slu which the Son connection show ing away haa the stonement fuill, but to power of sin, st holinness that o offect thile pu ars into life un srult is that bideth in Him as he abldes, an the beliarer toen of lite han its ron sess of Jeaus, The question ot this consiaten teaches of the himeelf tells as of our professto have no sin, that (Bee I John L. 8 pansage which, aright. Note the statements (ver. we have no shn," any that we have axpresslons cann eeond would the repetition of the ver, 8 is not the ver. 10. Having naturs. The he within him-the which dwelleth $n$ aligy or dolng sit irs, yin ilaful nature, and trangreaslon. A amissions that atill sin within hi ond, that that sin broken out thito have no $\sin \operatorname{in} m e$ past never sianed. ne slf ot present, shned in the pa have $\sin$ in the po that we are dotng too; the confessio reters to the past.
from chap. II. 2, be from chap. U. 2, be es how the deepe In the pant (as P been a persecutor in corrupt natura onsist with humb to Him who keepe But how is it liever, having sin nitane
power as we know flat a betlever hay not be dotige stn? fin is no ain. He t faneth not." that the sont it -mat the boul in land its keaper, He fown the power of that it đoes not ree the soul. We have degrees in the abl Chrintians the ablall atermittent, that , tales the ascenden mour into subjectio hise given to falth the promise is the

## THE UPWARD LOOK

## That You May Not Sin

6$\mathrm{N} \mathrm{Him}_{\text {is }}$ no sin. Whosoever sbidoth in Him sinneth not." 1 John ili. 5, 6.
Ye know," the apostle had said, "that He was manifeated to take away our $\sinh ^{\prime \prime}$ and had thus indicated selvation from silu as the great object for Which the Son was made man. The connection shows elearly that the takfig away has reference not only to the atonement and freedom from gull, but to deliverance from the power of sin, so that the belfever no longer does it. It is Christ's personal halinness that conatitutes His power to offect thite parpose. He admits sfinnors into life unton with Himself; the revilt is that their life becomes like His. "In Him ts no aln. Whosoever abideth in Him sinneth not." As long as he abides, and as far as he abides, the believer does not sin. Our holiness of life has its roet in the personal holl. sess of Jesus. "If the root be holy, so alio are the branches."
The question at once arlses, How If this consistent with what the Bible teaches of the abiding corruption of our human nature, or with what John himueit tells us of the utter falselieod of our profession, if we say that we hive no sin, that we have not sinned? (See 1 John tis, 10.) It is fust this (Soesare which, if we look carefulty at pasage which, if we look carefulty at it, will teach us to understand our teant aright. Note the difference in the two atatements (ver, 8), "It we say that we have no sta," and (ver. 10), "It we my that we have not sinned." The two uxpressions cannot be equivalent; the woond would then be an ummeantmg repetition of the first. Having $\sin$ in vor. 8 is not the same as doing ain in ver. 10. Having sin for having as sinful nature. The hollest bellever minat each moment confess that he has sin within him- the flosh, nomely, in within him-the forn, namely, in
with dwileth no good thing. Sin. Which dweileth no good thing, 8in-
ning or dolng sin is something very ning or dolng sin is something very
diferent: it is yielaing to indwelling differont: it is yielding to indwelling
dinful nature, and falling futo actual sifful nature, and falling finto actaal
tranagresslon. And so we have two trangresslon. And so we have two
admissions that every true bellewer admissions that every true belfever
must make. The ons fs that le las must make. The one is that lie lias
atill sin within him for atill sld within him (ver. 8); the seeond, that that sin has fin former times broken out into sfaful actions (ver. 10). No bellever can bay elthep, "I have no sin in me," or "I have in time past never sianed." If we say we have pas nover sinned, "f we say we have
no sin at present, or that we have not no sin at present, or that we have not
thned in the past, we decelve our sinned in the past, we decelve our-
selves. But no confession, though we setves. But no confession, though we
have sin in the present, is demanded have sin in the present, is demanded
that we are dolng sin in the present that we are dong sin in the present
too; the confession of actual sianing referi to the past. It may, as appears from chap. II. 2, be in the present also, bot is espected not to be. And so we, see how the deepest confession of sin. fo the past (as Paul'g of hls having been a persecutor), and the deepest conscionmess of having still E vile and corrupt nature in the present, may consist with humble but foyfut praise to Him who keeps from stumbling.
But how ir it possible that a bellover, havtag sin in him-sin of such latense vitality, and sueh termble power as we know the flesh to haweChat a bellever having sin stoult yet sot be dotag sinf The answer for "th Fifm is no sin. He that abideth fin Hitn dhath not." When the aldin Clarist becomes close the ablaing in of that the sont close and unbrokes, moment in the perfoct unforment to moment in the perfect unfor with the Land its keeper. He does, indeed, licepp town the power of the old natires so that it does not regain dominforr over the soul. We have seen that there are degress in the abiding. With most Christians the abtding is so feeble and intormittent, that aln continnally ond lalas the ascendency, and brings the toul into subjection. The Divine promise given to falth Is: "Sin shall not have dominlon over you." But wilth the promise is the command: "Let not
sin reign in your mo sl body". The
bellever who clatms the promise tin fall faith has the power promise in command, and sin power to obey the command, and sin is kept from asserting its supremacy. Ignorance of the promise, or unbeliet, or unwatchfulness, opens the door for sin to reign. And so the life of many bellevers is a course of contlinual stumbling and sfnning. But when the believer seeks full admission into, and a permanent abode in Jesus, the Sinless One, then the life of Christ keeps from actual transgression. "In Him is no sifi. He that abldeth in Him sinneth no Jeaus does indeed save him from his $\sin$ - not by the removal of his sinful sature, but by keeping him from sielaing to It .
And now another question will arise: Admitted that the complete abiding in the Sinlens One will keep from sinning is such abiding pos sible? May we hope to be able so to abide in Chriat, my, even for one day. that we may be kept from actual transgressions? The question has only to be fairly stated and considered- $1 t$ will suggest its own answer. When Christ commanded nu answer. When and promised us such rich fruit Him, ang to the giory of the fruit-bearIng to the glory of the Father, and such milghty power in our intercessions, can He have meant anything but the healthy, vigorous, complete Wuion of the branch with the vtne? When He promised that as we abide in Him He would abide in us, could He mean anything tut that His dwellitng in us would be a reality of Divine power and love? I reality of Divine saving from sia juist that which will glarify Him?-keeping us daily humble and helpless in the conselous ness of the evil nature, watehfol and active in the hnowiedge of its terrible power, dopendent and trustful fir the remembrance that only His presence can keep the Mon down.
Beloved Christian? I do not wonder If the promise of the text appears al most too high. Do not, I pray, let your attention be diverted by the questlon be leept for many jear your whole life, or for so many yeara, without stnming. Fatth has ever only to deat with the present moment. Ask this: Can Jearus at the present moment, as 1 abide in Him, keep me from those actal transgresslons which have been the stain and the weariness of my datly tfe? Thou canst not but say, Surely He can. Take Him then at thls present moment, and say, "Jesus keeps me now, Jesus saves me now." Field yourself to Him in the earnest and belleving prayer to in kept ablding, by His own prayer to be kept abidigg, by His own abiding in
yon-and go fnto the next moment yon-and go finto the next moment, truat cos succeeding hours, with this trust continually renewed.
As often as the opportunity occurs in the moments between your occupations, renew your faith in an accupadevotion: Jesus keeps me now, Jesus saves me now. Let fallure and sin, instead of discouraging you, only urge stead of discouraging you, only urge you stim more to seek your safety in
abiding in the Sinless One. Ablding la ablding in the Sinless One. Ablding is a grace in which you can grow wonderfully, if you will but make at once the complete surrender, and then persovere with ever larger expectations. Regard it as His work to heep you abiding in Him, and His work to keep you from sinning. It is indeed your Work to abide in Him; but it is that, only beeause it is His work as Vine to boar and hold the branch. Gaze upon His holy human nature as what He prepared for you to be partaker of prepared for you to be partaker of
with Himselr, and you will see that with Himself, and you will see that better thas belning even higher and better than being kept kept from winthat is but the restraining from evil: there is the positive and larger blessing of being now a veasel parifled and cleansed, of being filled with His fulness, and made the channel of showfag forth His power, His blessing, and His glory.

Note-A selection from Rev. Andrew Murray's book "Abide in Christ," which may be seeured through Farm and Dairy, if desired, for 60 centa.

## Plays ALL RECORDS



## At the Toronto

 Exhibition this year> Be sure to hear the all-record Brunswick Phonograph play any make of record perfeetly with the wonderfal new Ultona.

This wonderful new phonograph has fnally discovered the way to bring forth "Tones Hitherto Lost." The al-wood tone chamber produces a truer, sweeter tone. The Ultona plays correctly all makes of records by a simple turn.
You owe it to yourself to hear this all-in-one phonograph; you naturally want the best-toned phonograph in your home.
Let your ears be the judge. Hear the Brunswick, then decide.


At the Exhibition this year be sure to hear "The Wonderful Tone of the Brunswick" and hear the Ultona play ALL records.

## Fuil display in the Process Building at Exhibltion

The Masical Merchandise Sales Co. Sole Distributore for Canada
Excelaior Life Building
TORONTO

$G^{E}$EO. CARL MARES, of LIndon, England, in his elaborate book, "History of the Typewriter," says, in the preface: " Since this work was undertaken the structure of the typewriter has undergone a complete revolution. Probably nothing in any mechanical art has been more marked than the progress of the front stroke visible writing machine. In this respect the Underwood Typewriter deserves all the honors which naturally fall to the successful leader of a revolution."

United Typewriter Co., Limited<br>135 Victoria Servet, Toronto



## Handy Scales for Farm Use

## he chief features of the

## Fairbanks <br> Farm Scales

The handle at the base of t
weighing post permits weighing post permits of
ready transportation on its ready transporta any ont of
oun whels to and
the farm buildings. In house the farm buildings. In house
or barn or dairy itserves any
purose up to 2000 pounds purpose up to 2000 pounds capacity. Partable Farm
Farbanks Portable
Scales are compact and abSales are compact and ab.
solutely accurate. The plat. solutely accurate. The plat-
form is $34 \times 25 \% /$ inches and has a clearance of 113.8
inches above the eround. iota above the poind
The Canadian Fairbanks-Morse


Butter in a jifty
Works like lightning -makes perfect butter
infrom I to 3 minutes. Clean, sanitary, laborsaving.
 2-2
The Hamilton Aatomatic Churn Co. ${ }^{41}$ Kit Khy Willise St., Hemilies, Oot.

ADVERTISE $\begin{gathered}\text { ti theee popater aot- } \\ \text { unde }\end{gathered}$

## Training the Children

The Play Instinct Mrs. Lenore R, Kınus.

THE play-fnstinct is inborn in all nature's the world over; it is veloping the senses, the muscles and all bodily growth. Play is even more
than this; if is the outlet of expred. slon of the child's inner life, Many
faults as welt as virtues may be dis faults as welt as virtues may be dis-
covered while watching children covered while watching children at
play. Perhaps a mother will find that her child is selfish or rude, and it is easy io discover a generous disposition and a good temper in the course
of a play-hour. All play
All play depends upon the physical heathy child plays ail the time. is grows older invents games with as he If a child plays but little, with them. ily be interested in his toys, will not his physical condition, then begin a course of training, or directed plav,
Start with a sugregtion start with a suggestion, "Why not
build a high steeple?" or "Make mother a train of cars with your blocks." Often, especially in the case into the play-spirit and play hide-andseet, or march and sing, or even build with the blocks, It is such a treat and often a real help in promoting a readiness to play alone when mother
must go back to ber work. must go back to her work.
A sense of newness even with old
toys makes them desirable to a child. Chlldren need change and variety because their power of concentration is not fully developed. This is the plan I use with success with my own little girl. Her box of dominoes, her nest
of blocks and her box of building blocks (composed of 16 cubes), I keep on a shelf in a closet out of alght. I also keep some pleture books and toys out of sight. Then when the time comes, as it does so many times a dav, muvver?"' I go to the closet for a surprise. If I give her the blocks, it is something with them. She now comes to me and asks for "a s'prise. muvver." When she tires of the ready to put away, before she can have another "surprise." Sometimes, days at a time, she does not ask for a surprise, aminoes, for instance, she is as delighted as if they were brand new. Her dolls I separate in groups. It she
has four. I put away two, and at the end of a week I bring out these two and put away the two she has been playling with. If you follow this plan with all doy, grouping them and keeping one set put away, youter the little ones interested and happy.

## Insurance Against Spoilage

W
7 HEN canning products it is a good plan to set the Jars asfde
for two or three days before storing them in the frult cellar, and then as a means of special precaution test them in the following manner

Loosen the clamp and grasp the jar by the edges of the glass top. It the can leaks or if decomposition has set in, the top will come off. If the top stays on, tighten it up again with the assurance to shes off it ber be tet aside comes off it shouid either be set aside for early use or sealed over again.
Red fruits and vegetables should be stored in a dark place, as light destroys the color, leaving the food unattractive in appearance. If the Jar and its contents have been absolutely sterile and the jar is entirely air-ight. the food will not npoil if held in a warm place. If spolifing does oceur, it will be due to one of the following
causes:-(1) Some flaw in the can which makes it a so-called "alowleaker"; (2) the presence of micro organisms that have survived the cooking process in spite of all care;
(3) a drying out of the rubber and (3) a drying out of the rubber
hence the breaking of the seal.

In some factories where foods are canned in glass jars, racks are made for holding the jars upside down in an inclined position, thus keeping the liquid constantly in the top of the can and preven

## The Home Club

## Easing Up" on Sugar

IWAS away for a day or two not long ago and I was rather surprised at the way sugar disappeared on the ed. In normal hes I would not hav thought anything aboat it, but in these days of sugar shortage the matter forced itself upon my mind. For the stance, when baving porridge for the morning meal, it looked to me then sugar with a little porridge rather than
vice vera. Several members of the vice versa. Several members of the
family took sugar in their tea and a liberal quantity at that. As I happened to help wash dishes after some of the meals I noticed sugar in the bottoms of the cups which was simply wasted. At dinner we had delicious fresh rhubarb pie which was quite sweet enough to my notion, but here again members of the familly asked to have the sugar bowl passed and more sugar was heaped upon the'pie.
Now in our home we are trying to "ease up" on sugar. We find that porridge or other breakfast cereals are sugar and good milk, and also, that a sugar and good milk, and, also, that a and a half of sugar is quite sufficient and a haif of sugar is quite sumcient lor a cup of tea when well stirred, so We it has an opportunity to meln We used to be very fond of layer cakes covered with icing, both top and sides, and probably nuta added as well. Now, however, our iced cakes are lew and far between and then they have but a small portion on the top. I find that by putting the nuts in the cake it is quite palatable without leing. If for the next six monthe every cake
baked would be eaten without lcing, think of the sugar which might be saved in this way alone. A layer cake may be put together with jelly, jaw. date filling, etc., instead of feing. Sometimes I do make a nice leing with peanut butter to which sweetened chocolate and a little milk has been added and it is quite tasty.

A favorite cake at our house is bolled raisin cake as it does not dry out, up too quickly to have a chance to become dry. It is made as follows: One egg, one cup brown sugar, onequarter cup (or a little more) shortening, one cup seeded raisins. Cover raisins with water and boil for $20 \mathrm{mln}-$ utes. Then wse one-halt cup of this utes. Then use one-haif cup of this
liguid, adding a little more water if necessary, with other ingredients and necessary, with other ingredients and
two cups flour, one teaspoon sodis, a two cups flour, one teaspoon soda, a
pfnch of salt and vanilla to flavor, pinch of salt and yani

## Bake in moderate oven.

Just one more point: Do any of iny farm sisters add a few raisins when making corn meal gems or muftins?, I ried it the other day and the varia tion is quite a pleasing one. I would like to hear from others who have worked out schemes for saving sugar, both on the table and in baking. for one am anxious to see the supp!y of sugar hoarded for the fruit canning season.-"Slster Mac."

Ted-"Pity the rain spoiled the game to day,"
Ned-"But you got a check, Yidn't
Ted-"Yes, but to get off I had to ase up the best excuse I eyer had in my Mfe."-Judge.


YOU CNNT CUT OUT AMEME

and you work the horse same tim. Does not blister or hair \$2.50 per bottle, delivered Book 4 R free. ABSORBINE, $\mathbb{R}_{4}$ the antiveptic liniment for mankind
 W. F. YOUNS, P. D.F., i2s tymas thes. Montreal, Cos


Far more effective than Sticky Fly Catchers. Clean to handle. Sold by
Druggists and Grocers everywhere.

"HOW"

## Get our up-te date book on "QUESTIONs

- 

ave caused Solo 0 lide his head Peari's plans heavily gilded Bi ated cabaret. further objection the dinner was ale and tired, antered the cabar Tim, III lear taik over old time
lightly. "Mr. Fin the last new ster tome dancer.
"You're aome s hone d his sweetheart violent red gown girl who sat so 91 "This suits me yibe, manfuily. lew over there I' I bring him here "Oh, no, Timather sit here w harriedly. "If--4f 0'Hagan repested. So the two talke
Pear! Dalley and Little Mary had a the worried lover ing, and occasiona miniscence of the blush and smfte, dazlingly white te forgot to wonder bis promised wife on dancing with th
suspicion of loyalty entered mind, however, wh proved to be onty
first. He thought pretty girl shoutd with so accomplishe Fink to silting tam a disabled lover. ahocked at what with Pearl, ed what she te
"freshness" in "bu Two weeks later the stuffy parlor wearligg an oddly look.
Pearl." he for Cone Pearl protested ve a warm June night, a cabares to a soun
ever, the quiet firmn olliceman could exe was seen in the ma lefeated Mr. Fink's polize Miss Dalley.
pleasantly. "I got o talk over with Pe 'Hagan drew a zev pocket and directed. tentlon to a certain a big, clumsy finger momething to which
fected violently. An lected violenty. An
the man explaining, tore. the girl at first
the Ing. the
then sullenly silent. Presently O'Hagan
tar curtly informing could foln Miss Dail Mary with a heavy s.
"Well, Mary, it's a
"Don't give na!" ga temorrow,"
trimly. "You'd ought the knocked Strike"

## A Black Cat for Luck

## (Continued from page 12.)

bave caused Soldomon in all his glory to hide his head abashed. Peari's plans for the evening in. cluded a dinner at one of the most heavily gilded Broadway restaurants, to be followed later by dancing at a noted cabaret. O'Hagan offered no further objections, although before the dinner was over he was looking pale and tired, and he was limping painfully when the four young people entered the cabaret.
"TIm, I'll leave you an' Mary to talk over old times," Pearl announced Hghly. "Mr. Mink wants to learn me the last new step. Belleve me, he's some dancer."
"You're some dancer yourself, cirlie," retorted the gallant Mr. Fink. O'Hagan's honest blue eyes followed his sweetheart'm yeHow head and violent red gown somewhat wistfully. Then with an effort he turned to the Then with an effort he turned to the
girl who sat so quietly by his side. cirl who sat so quietly by his side.
"This sufts me all right," he said "This suits me all right," he said,
lying, manfully. "But maybe you'd lying, manfully. "But maybe you'd
rather be dancin', Mary? I see a felrather be dancin', Mary? I see a fel-
lew over there I used to know, Shall I bring him here and introduce him?" "Oh, no, Tim-please. T' $\mathbf{a}$ so much mather sit here with you." the girl nald hurriedly. "If-4f you don't mind." "Sure I don't. Thls suits me fine," 0 Hasen repested.
So the two talked on and on while Pear! Dalley and Mr. Fink fox-trotted. Little Mary had a way with her which the worried lover found very soothing, and occasionally, when some reminiscence of the old days made her blush and smfle, revealing perfect, dazslingly white teeth and a singular. y alluring dimple, $\mathrm{O}^{\prime} \mathrm{Hagan}$ almost forgot to wonder how much longer his promised wife intended to keep on dancing with that "fresh gink."
No suspicion of his sweetheart's loyulty entered O'Hagan's honest mind, however, when other evenfigs proved to be only a repetition of the first. He thought it natural that a pretty girl should prefer fox-trotting with so accomplished A partner as Mr. Fink to sltting tamely at the slde of a disabled lover. But Mary Maloney, shocked at what seemed to her callous ernelty ventured to remonstrate with Pearl, and Pearl flercely resentwith Pearl, and Pearl flercely resent-
od what she termed her friend's *d what she termed her
"fresilunesa" In "buttin' "fn."
Two weeks later O'Hagan entered the stuffy parlor of the Dailey flat wearlng an oddly stirred and erefted look.
"a's us for Coney Lsland to-ntght,
Pearl." he announced.
Pearl protested vehemently. It was I warm Juae night, but she preferred a cabaret to a Sound ateamer. However, the quiet firmness which the big pollceman could exert when he chose was sean in the manner in whiteh he not only carried his point, but also defeated Mr. Fink's attempt to monopolize Miss Dalley.
"Not to-night, Fink," O'Hagan asald pleasantly. "I got somethin' I want to takk over with PearL."
Out of earahot, but in
Out of earshot, but in plain sight, O'Hagan drew a newspaper from hin pocket and directed Mise Deiley'er attention to a centain paragraph with big. clumsy finger. Then he sald something to which she evidantly obfeoted violently. And sa it went onthe man explaining, persuading. plend lig, the girl at first angrily voluble, then sullenly silent.
Presently O'Hagan left her and atter curtly Informing Mr. Fink that he could Join Miss Dailey, sat down by
Mary with a heavy sleh Mary with a heavy sigh.
"Well, Mary, it's all over between me an' Pearl," he sald slowly.
"Oh, no, no!" gaaped the girl. te-morrow."
"It's all over," O'Ragan reiterated trimly. "Tou'd oughta heard the way Whe knocked Strike."
"W-what's Strike got to do with It?" Mary asked dazedly.
"Why; Mary, I told you about Strflee an' how kinda worried I was on account of not gettin' to see him be fore I come away," O'Hagan reminded her somewhat reproachfully, for her sympathy had been most comforing Ampathy had been most comforting. York 'Ameriens' a plece in the New York 'American' to-night askin' where was Tim O'Hagan, the big motor cop. You see, the boys don't know what hotel I'm stoppin' at, tn' I aln't been writin' to nobody on account of me hand. And the paper says," the man went on huskily, "there's a black eat fn Chteago that's dyin' for want of a sight of him."
"Ab, think of that now-the poor "When exclaimed little Mary, aghast. When do you start, Tim ?"
"At noon to-morrow," O'Hagan said with decialon. "But Pearl Ifieked somethin' flerce when I showed her he paper an' aaked would she go with me. We could get a license an' be married in the mornin'; but, gee, you'd think I was askin' her to jump of Brooklyn Bridge."
"It must of kinda upset her. Pearl whan't expectin' New York, and she than a monectin' to leave for more than a month yet. You let me talle to her, Tim."
ghe rose
She rose impulsively, but a firm hand pressed her gently down again. "Not on your life!" O'Hagan sald twlee, an' that's a-plenty."
"But she-she can't mean it," Mary stammered.
"She means it all right," orHagan sald with amazing resignation. "And I sure don't want to marry a girl who has no use for eats."
Their eyes mot, and a beantiful color flooded Mary's pale face at the remembrance of their first meeting. When the tall lad attacked single. handed a crowd of young toughs who were tormenting a belpless fitten, in spite of the frantie elforts of a amall girl to rescue it. O'Hagan had not forgotten, elther.
"Gee! How you did stand up to them toughs, tryin' to fight 'em for the sake of a bit of a kitten! i gness you know, Mary, how I feel about Strike."
She murmured something Inarticulately. And then the miracle happened. Looking deep into those wide, pitiful gray eyes the big man asked himself auddenly how he could ever have cared for pretty, selfish Peari Dalley after having known thls brave lutle pal of his. What a fool, what is bonehead, he had been!
"Oh, Mary, you sure are a deas Hitle thing!" ho murmured half under his breath.
Then as the lovely color in her oheeks deepened, O'Hagan said daringly
"Mary-Mary dearie, will you let me get the license for us, and go with
me to-morrow? Wait, don't me to-morrow? Wait, don't speak yet," he begged. "If you'll trust me Katy and court yon soigh to me sister was coud court you astil untll yon say yourled betore ll enough to you up houseksepin' with me-and Strike,"

The laugh with which he concluded was shaky, even abject, for the hero of the Sunday papers was humbly un. aware that little Mary's heart had been his ever since that far-off day when tie had won a fight for a small sirt and a forlorn yellow ktten There was a pregnant silence, and then Mary asked tremulously:
"Do-do you think you could ever forget hor-if-if I dld marry you, Tlm ?"
"I've forgot her already," O'Hagan shonted from the depths of an honest conviction.

A great passton of longing to touch
those smooth braids of bright hair, to press his lips to that sweet girl mouth, shook his mighty frame. But O'Hagan Was one of nature's gentlemen, and he cold one with big hand on her small cold one with proteoting gentleness.
"I ain't even goin' to ask you for a kiss, Mary yet," he said. "Not til I get you a diamond engagement ring, white teeth in a joyous showing his goin' to be married to-morrow, Mary mavourneen; but you ain't goln' to mavourneen; but you ain't goin
miss nothin' by bein' married first an'
courted afterward" courted afterward."
Thinty-six hours later, back at headquarters in Chicago, O'Hagan was confiding in an emaciated black eat which was purring contentedly on his mighty shoulder.
"It sure is a black cat for luck, old boy. It's you that saved me from gettin' tied up to Pear Dailey,
"But you butted in just in time, old fellow, an' now I'm married to litule Mary." He buried his face in his dumb friend's soft fur as he whispered: "And she's the girl, Strike, to make home heaven for an old seare. crow of a black eat and a big bonehead of a motor cop. It's no dream, Strike, neither, for-liston now before I come up here to report for duty she put her two arms around me neck and kissed the of her own free will What d'you think of that, you old What dyou
mascot, you?

## A Cemetery Bee

ONE day last month a number of people in our community gathered at the Frienda' meeting-house at the cemetery for the purpose of pay. geir respects to the dead. A though hayling had begun, and many of the farmers were extremely busy on the farm, all seemed to feal it their duty to their brava ancastors to take time from their work "even in war timet to spend a little white in beautifying the dear little cemetery.
When we think of some of the true men and women who have lived and worked for others, howing out and building many of the homses which are still our homes, we are moved mith epirit of loyalty to the departed heroes. To-day, in this world arlaits eiate our departed cerisis, we appreeiate our departed heroes more than ever before. It was in this spirit that about 45 men and women worked to beautify the last reating place of their ancestors.
When the work was finlshed we stole a few minutes to read the inseriptions on the monumenti and to bring to mind the stering qualities of those whose last resting places were indicated. For instance, we read one Inscription and recalled a noble Inscription and recalled a noble
woman who performed many, many woman who performed many, many
kind deeds, She would leave her work and home every day for a whole summer and, dressed in homespun and her husband's high boots, would go through a wet swams and besh to waft on B neighbor who was If of fever, and who had three small children to be cared tor. This she did cheerfully, because all men are brothers. Many deeds of this nature were performed in those days.

All have gone to try the reallties of another world, and we wonder if there will re any kind thoughts of us after we have been laid to rest in some quiet little spot where six feet of earth makes us all of one size. We wonder, too, If a good name is not rather to be chosen than great riches.
One of the men present spoke of the good work that the women of France are doing in decorattng the graves of our arave Canadian soldiers, and that he thought it to be our duty to see that the graves of the brave heroes of other days were not neglected.
Supper was served on the grounds in front of the meeting-house and everyone went home fealing that they woald be sure to be there again nexf Year, if thelr lives wore operol.- mhe yoar, if their ${ }^{\text {Wen }}$


Chrownfrom cosel lor rast



Stopping an advertisement to save money is like stopping a clock to save time. Advertising is an insurance policy against forgetfulness - it compels people to think of you

Making Up the Dairy Ration
(Continued from page 5.)
above table. Thls variation in the protein requirement permits of considerable choice in making up the ration and enables the feeder to use the smaller amount when protein feeds smalier amount when protein are higher in price than carbonaceous tein feeds are the cheapest.
When the exact butter fat test of milk is not known, it can be roughly milk is not known, it can be rougny eetimated on the basis of
fag of the cows as followe:



Computing the Ration.
The process of computing a ration for a dairy cow conslats of determining her requirements for both maintenance and production and of selectfing feeds with the proper composi-

Hion and in sufficient quantities to meet these requirements. The method can best be illustrated by actually working out a ration. Let it be assumed that a certain cow in a herd of Jerseys weighs $1,000 \mathrm{lbs}$. and produces 20 Bb. 5 per cent milk. By referring to Tables I. and II., it will be seen that the maintenance and production requirements for such a cow would be as follows:
Table III. Nutrients Required by
1,000-Lb.


For maintenance. prounds.
nutriente
pounda
7
To produce ${ }^{30}$ ibs.
Total mutrients re-
Total mutriants re-
quired by cow
(one day)
8.04
(one day) ........ 1.9
18.97 If corn silage and clover hay were available, a reasonable allowance of lbs . of silage and 10 lbs . of hay. The
amounts of nutrients contained in this allowance of hay and sllage is
as follows: as follows:
Table IV. Nutrients in Available Roughage Feeds.

Digestible Total Digcetible Roughage feeds protein, 10 bis. cover hay.
30
Total nutrients in

| protein. |
| :--- |
| pound |
| .78 |

## roughage feeds . 1.00

nutrients,

pounds | munds |
| :--- |
| 8.09 |
| 6.31 |

By comparing the amount of nu trients in the roughage feeds with the nutrients required by the cow (Table III.), it will be seen that the roughage provides more thah enough for maintenace, but not enough more to produce all the millk Subtracting 1.09 lbs. of protelin in the roughage from 1.9 lbs , required, and 10.4 lbs of total digeetible nutrients in the roughage from 15.97 lbs . required, leaves .81 lbs . protefin and 5.57 lbs . of total diges. tible nutrients yet to be provided. If corn and oats were avallable on

## The Fall and Winter EATON Cataiogue Is Now Ready IT CARRIES THE EATON STORE INTO YOUR HOME



## Large

Assort-
ment at
Moderate
Prices in
Men's, Women's
and Children'd
Croceries, Boots and Bhoes, Jewolry, Dress Coods, Men's Furnish-
Ings, Stoves, Hardware
Toys, Furniture and Home
Furnishings, Agricultural
Supplies and Machinery

The EATON Catalogue to an always-open door to exceptional values, real shopping comfort and QUARANTEED satisfaction. No matter where you may live, it permits you to enter and purchase from any department of Canada's Greatest Store at your own pleazure and cenvenience. Its pages place before you dileplay after display of thoroughly reliable goods, accurately desoribed, truthfuily iliustrated, and every them covered by the EATON suarantee: Goods satisfactory or money refunded, inctuding ahipping oharges. Bend for it and soe for yourseif the simplieity, safety and satisfaetion of shopping by mail the EATON way. Every thrifty, progressive Canadian home should possess a copy.

Fill In and Send us the Coupon Opposite to Secure Your Copy. Do it TO-DAY.

## T, EATON COmm <br> TORONTO <br> CAMADA

this farm, they could be used in the ration as follows:
Table V. Nutrients in Home-Grown Grains.
Digest/ble Total durention
Grain teeds
4 Grain corn
2 lbs , oats.

| proteln, |
| :---: |
| pounds |
| $\cdots . . .30$ |

Total nutrients in
home $-g T o w n$

Nutrients required
in grain ration.
in grain ration. 8 , 81 By gubtracing the amount of on 5.57 trients provided by the corn
from the amount required grain ration, it will be seen that in lbs . of digestible protein and 734 of total digestible nutrients are rat needed. A feed containing needed. A peed cont of protaln will be very sary to supply these nutrients sary to supply these nutrients in thi correct proportion. Consequently ont pound of cottonseed meal could b selected to complete the grain ration, and it would then contain the follos ing amounts of dige
shown in Table VI.

## The comparlson

The comparison betweea amounts of nutrients supplied by thit ration and the amounts required by the cow show that her requiremenis
are fully met. It is not always an are fully met. It is not always an easy task, eapecially for the beghner, to select a grain ration that will mp plement the avallable roughages and supply the right amounts of nutrients

Table VI.
Digestible Tigotibl
proteln, nutriens
pounds

 | .... |
| :--- |
| .30 |
| $\ldots .$. |
| .334 | Total nutrients in gratn ration ................ 83

Total nutrients in rough-
nge, (Table IV.)...... 1.09 Total nutrienta in daily ration
Total nutrient... (Tabte III.) It will be helpfoll required 1518 the ratio between the know and an tein and total digestible natrients This is determined by dividiag the pounds of total digestible nutrients if the pounds of digestible protela, ad is expressed as follows: 1 to 6.3 . This
ratio means that for every pound of ratio means that for every pound of digestible protein there are 6.3 lif
of total digeatible nutrients. The hid of total digestible nutrients. The bid the low protein feeds a wider ratia For example: Corn has a ratlo of 1 ts 11.4, oats a ratio of 1 to 7.8 and colf tonseed meal ( 38.5 per cent protelb) a ratio of 1 to 2.3 . In maklag uy 1 ration as has just been done, it wis ound till Iacked 316 lbs of digentlly protein and 788 ths of total digeation protein and .788 lbs . of total dgeatila autrieats, nutrients is 1 to 2.3 ( 7.38 divided if 3.16 equais 2.a). To provide the at trients in this proportion required, feed with a very narrow ratio and wat
sequently cottonseed meal was selid ed.
There are also a number of niler general rules regarding the amowat d feed required for maintenatice mi production that will be of help in w lecting a trial ration.

1. A cow will consume aboat in pounds of good dry roughage for adt 100 lbs . ilve weight or one pound dry roughage and
culent roughages.
cow should have:
A Ifberal amount
roughnge, or
full feed of carbonaceon age, including corn sllage,
A full feed of carbonaceous K age, fncluding corn sliage, of pill mixtare.
2. To provile for production Feed 1 lb . of grain mixture pet in for eaeh 8 bs , of $3 \%$ mill, 2 , 4\% milk or ? Bes. of $5 \%$ mill, or In silage is fed in adaunsus roughage, consider in esech 3 to 4 lbs of silage will proth for 1 B. of mem and reduce the p il regnerementa severlitiely.

The Ma
$\qquad$
matiter rectiot
min to supen
ilan.

Mutu $T^{\mathrm{HI}}$ HERE han
change in sinee the aparts relations mas one fromed oduction of bre thise parion he creamaries ing meelings and various oth the findustry enased.
As the numbe on farms inere dellvering mill was diseontinue patrons. Comees gatherlngs of ti less trequently brought their twice a week. was more proft time with their to dolliver cream As a rean aro Mahed which proll course, these cba ege to the dalrya personal interect Greamery grade probably only anoe each mont atances the patr ery that he has seoblems of the moblems of toc creamery operay out partue, sale the large scale makes it impese Nowadays, the man follows the man follows the ary by stadying information cone information
status of the erea to be finterested eord of the qua which is being tairyman is not mults obtained at
the duty to Ingul the duty to ingul
the plant. The 1 the buttermaker able romalts đus equipment is in may be that inco
sponsible for sponsible for areamery.
In the majority mentioned reasor sthle for a poor $g$ cream is a predom results in the pro Jor grade of batt poor quality is rec atrone instructic eare and handin sways well to T taformation is va th the proper sph The dairyman crade of cream tarmaling procese $\alpha$ thls mature, th porition to under producing mill moducing milk lona, he will utensfls and at From the butterm from very essential understand the ed upon the quality o Creamery opera patrons in many men of the er
whether or not

## The Makers' Corner <br> Nutter and ahaese Makers ara in: vised to oond eontributiget to inis  sten.

## Mutual Interests

THBRE has been a remarkable change in the ereamery business since the adrent of the hand soparator. A change in the datry man's relationahtp to the oreamery wes ons immediate result of the In troduction of the farm segarstor. Befors thite peried inirymen gathered at the creamarlas dafls. At these morning meetings the progress of tho ereamary, the quality of its produet, and varioses ather eubleete relating to the induntry in generat ware dinenasod.
As the number of soparators uned of ftrms increased, the practioe of dellvering milis and cream each day whis discontinued by many of the patrons. Connequently, the morning gatherlags of the patrons were held loss frequently. Some datcymen brought their crean to the factory twice a week. Others found that it twice a week. Others profltable to devote thalr time with their herds at home than time with their herda at home
to deliver cream to the factory.
As a remult a practice was eatas. Mahed which provifted that the criamery would collect the cream. Of evarse, these cbangee wore an advantage to the dalyman; nevertheless, his personal intereste in the affairs of the geamery gradusily decreased as he probably only visited the ereamery anoe each month, and in many intances the patron ships to a oreamey that he has never neen.
At the present these the mutual spoblems of the dairyman and the problems of the dairyman and to oraumery eperator munt be met by the large scale ereamery busineas the large acale ereamery busineas makes it impessible for the bettar-
maker to meet hie patrons pertolally. Nowadays, the progressive dairyman follows the procress of his ereamary by stadying the eresamery reports. Thase statements give the datryman faformation concerning the finnncis! status of the croamery, it he happens to be interested in it as well as a record of the quality of the prodnct which is belng made. In case the eniryman is not satiofled with the results obtained at the creamery, it is the duty to inguire into the affairs of the plant. The ponthitities are that the plant. The pontinitities are thet the buttermaker is obtaining uniavor-
able repults due to the faet that the sble rerults due to the fact that the
equipment is in poor condition. It equipmont is in poor oondition. is
may be that incompetent labor is remay be that incompetent iabor is rearoamery.
In the majority of casee, the above
mentioned reasons are not reaponalble for a poor grade of butter. Poor eream is a predominating factar which Nesults in the production of an infertor grade of butter. When oreas of poor quality is recelved at the factory, the operators are obliged to give thetr patrons instructions relating to the care and handling of cream. It is aways well to remember that swoh
tatormation is valueless unless given faformation is value
fin the proper spirit.
The dalryman wift furnlath a better grade of cream when he has a gentral knowledge of the creamery buttermaking process. With information of this nature, the dairyman it; in a position to underetand it ) calue of producing milk under manitary oondltions. He wiil also underatand the fmportance of keeping cream in sterfle utensfls and at a low temperature. From the buttermakers' atandpelnt, It Is very essential that the dairyman understand the effect of certafn fends upon the quality of butter made. Creamery operators can masle. patrons in many ways can assist their patrons in many ways. The leading men of the ereamery, regardless vhether or not they are patrons,
should advocate cooperative buying of boed. That is, if thare is an advantage in oollective purohasiag of the particular feed undar consideration. is a rurchestag on a large advantages is purchasfige on a large sonle.
Sometimes the producers go to their faotories for intormation concerning certain teeds and methods of handilis and feoding their stock. At other times petrons seek information relating to breeds of cattle and methods of developing herda under, their particular conditions. The creayeiry abould be in a position to furnips information of this nature. If, however, the creamerymen are unable to furniah their patrons with direct informatlos on such aubjects an referred to above, they shoeld be in a position to refor thetr patrons to ather sources of reliable Information.
The Interests of the dairyman and creamery operator are dovetatled in creamery operator are dovatalied in
such is manner that is bratice which is detrimental to the dalryman is also Is detrimental to the dairyman is also detrimental to the ereamery. speedy recognition of this fact in one of the mafn factors in establishing prosreas and prosperity in a dairy socton. Claan eream and a high grade of butter are of mutual interest to the producers and manufacturers of dairy products. A fret-elsess butter is always sold at a higher price than the inferior product and, consequently, a creamery that can turn out a uniform high mrade prodtuet over is lons partod of time is in a position to pay ith patrons a high price for good cream. J. C. Marquart in Pactife Datry Review.

Utilizing the Skimmilk

COTTAGR cheese is eany to malke and utilizes otimmilite and good grades of batiermithc A yield of 16 pounds of cothage cheese from a hundred pounds of alitmmilk can reedily be obtalned, or a mixture of two parts of nlctnumilk and one part of battermillk wIll produce the aame pearult. The wholesale prioe varlas from about four and a half cents a pound during the aarly summer to soven cents during the winter. The total cost of manufacture, Ineluding Iabor, ooal, power, water, packagr, and depreciation on equipment, is about elght cents a huadred jounds of skimmilk. Theretore, when cottage cheese is sold st six centis a pound the chease is sold at six centa a pound lie
net recelpts for a hundred pounds of net receipts for a hundred pounds Elimmille are 88 oents. ( $6 \times 16$ )- 8 .
Where a condensery is within a reasonable distance the creameryman urually can sell his skimmill there at prices ranging from 50 cents to $\$ 1$ a hundred pounds. Is is unfortunate that some creamerymen Insist upon fighting a condensery because it sends Into their territory for mills. A condensery as a rule can pay more for milk than a creamery can for cream, and the creameryman, therefore, usually has a losing fight. If, however, the creameryman receives the farmers' mille and sells the slimmille to the eondensery, or malres it into eottage cheene, be should be able to meet, or very nearly meet, the price pald by the condensery. Creaanerles that are in compettition with condensarles or city milk dealers, therefore, find it greatly to thelr advantage to offer the farmer a market for his skimmill. In fant, the suesess or the wery existence of many ereameries so situated depends upon the proper markettag of the hyppoducts.
The reasons, then, why the creamoryman should make a mpecial eftort to convert skimmilk and buttermifk Into human food products are: 1, To facrease the avallabte supply of mumans food; a , to provide a good market for his patrong' aldimmilk; 3 , to ket for his patrons akimmilk; 3, to
get more frequent delivery, therefor ${ }_{3}$ get more frequent delivery, therefora, cream; 4, to meet the comnetition of condenseries and elty milk plants.
Full information on the masufaoture of cottage cheese is aupplied in Circular 28 of the Dairy and Cold Storage to all Interested.

## BRUCE'S RECLEANED SEED WHEAT

We offer for early orders, eash with onder Do not delay ae the demand will be larga. Help wia the war by grewing wheat.
Whast, anundthono- White grsin, straw atif, buid head, hardy and heavy yielder
Whens, Dawerg's Goldop Ohef-White groin, atrew wiff, bald head, hardy and
Wheas, ifiohigan Amber-Red grain, straw stifi, bald head, hardy and heavy
Whest Red Reols-Red orais
Whese very hardy-a mreaf favomtefn straw, beanded head, very heavy yielder and
Wheat, liod wave-sed grals, sthnw stif, bald head, hardy and heavy yielder-
Fall Myo, \#oeep - Mieh hesvier vielder than old aort and better in every wey.


Bage extra - Jote, 8 bushela, 80 eenta each; Cotton, 24 busbels, 80 cente ench.
Whese order amounta to $\$ 50$ we will pay freight to any Ontorio point. Whene order amounte to $\$ 50$ we will pay treight to any Onterlo point.

We have good atock Abundanee, and Dawsor's, and expect
Common Rye. Other varfetios are offiened subject to
United States allowing their export.

John A. Bruce \& Co. Limited sind minco boint


## O.K. POTATO OUTFIT BARGAIN

 One O.K. Cottes. One No. is diee Plantes. Four-vowSprayer. No. 1 Digger, all in flnt-clase working order. DILL

DUBLIN
ONTARIO
Mention Farm and Dairy when Writing


ALBERT COLLEGE is more than a school-It is a home:
 of their taintaren



 theolorsy Physical
krainhy
ind
Conimerctal $\$ 100$ Scholarship in Agriewlture open o either sex
Sophool Ro-ppons
ALBERT COlleGE Tor BOYS Ano GIRLS <br> \section*{HELP SAVE
WESTERN CROP <br> \section*{HELP SAVE
WESTERN CROP <br> <br> HELP SAVE
WESTERN CROP <br> <br> HELP SAVE
WESTERN CROP <br> <br> $\$ 12.00$ TO WINNIPEG <br> <br> $\$ 12.00$ TO WINNIPEG <br> <br> From all atations, Buaburr. Mynot. Ont. <br> <br> From all atations, Buaburr. Mynot. Ont. <br> <br> Plus half a cent per mille beyond. <br> <br> Plus half a cent per mille beyond. <br> <br> Returning, half a cent por mfte to Winnlpeg, plus $\$ 18,00$ <br> <br> Returning, half a cent por mfte to Winnlpeg, plus $\$ 18,00$ Oomfortable Trutns and Through Oomfortable Trutns and Through Bervies: Spectal Accommodation Bervies: Spectal Accommodation for Women, Lanch service at for Women, Lanch service at maderate prices, and a Scenic
Reate when you travel $\mathrm{C}, ~ \mathrm{~N} . \mathrm{R}$. maderate prices, and a Scenic
Reate when you travel $\mathrm{C}, ~ \mathrm{~N} . \mathrm{R}$. Throagh tichets by all thees. For further particular: Throagh tichets by all thees. For further particular: mon Jour nemervet C.N.R. Agent, or write Genoral mon Jour nemervet C.N.R. Agent, or write Genoral
}
}

MARKET REVIEW
AND FORECAST
 roturnande to the other, and white fecternat are hil hin, "re will have to por irop this year. In fact. We will
 and Ontario'e production will bo only $5,-$ 460, buanhels inat year Coarae wraino, too,
 in tome poetions aven betrer than lanit help. uat cornt and oata, and presem ppos-
 IIs factor in the erabor ailtuation. proving For mort part, however. farmers are dependinge upon their own help to handle the The week's trading has resulted in freo. thena changea only on the grain markot,
The market is a trifie easier: hay in stronger; potatoes ars Armi, buttor uncertain; prices
and hogs firm.
WHEATS.
for amio in ontario, but the mont of it in seing hold for seed. In some sections it bheat to meet seoding rovitrements the Ontario Dopartment of Agricuturo have arragged to bring in supplies of
ined trome the states of ariety simily
 aro dooed and fili remain elosed untll nowntitios. quotations are as follows:Mantiobs wheat In stare, Fort WHilam,
 No
si.
3 basia in atore, Montreal. coarse grains.
Thare has been Httle setivity on the local market, old erope. There in a clunnce, tivo that mith the mearcity of concentrated feed that muce or to for feed-
 IIs thlo year and the wisaninealil be nubtues of Westy diminithod ho supply, Quota-


 foed, we to \& M B barit FEEDS.
The demand is greater than the supply and the market
quoted tis and thortst niean. Moullie at
tis Montreal to 407 .
The hay markot is Arm, and almost overy hek La marked by an advance of
 is to 58.50 Montroz
POTATOES AND BEANS.
Now crop potatoes are of good quality. and their sile is gatiafactory in Althoagh blight he suld to be prevelient in iome gec-
tions of the province, there has been no sign of rot in recelpts here. Prices range from si.15 to 75 a bas. aithoueth the

reports a price of $\$ 2.10$ to $\$ 3.35 \mathrm{an}$ 80-13,
bag,
an
 HIDES AND WOOL Country Market,-Beet hides.

 Horshair, farmers' atock, 30 c per 1 lh
Wool Unwashed, fine and mid
 Washed, fie and medium clothing, coarse lustre, 838 to 85 c per pound
EGGS AND POULTRY.
 an easier tone prevalis in may be the easid
market and that rect
the effeet market and that recelpts are showin
the effects of extremely warm
 47 c, whille others reoelved as 10 w
af of
for their shipments. The general price
the for their shipments. The general price
the country s from 42e to 44 c . No seri
falling off in pricos the country is from 42c to 44e, No ser
falling off in prices is looked for
Harvest conditiona and the hot wea have caused reduced recelpts of poultry Prices generally have been well malio.
tained.

\section*{Fens, illos

## Fens, illos <br> Hens, 4 and <br> Rpring oh

Roosters
Ducklings

## Ducks Turkeys

## ...




## DAIRY PRODUCE

 eldediy greater quantity on hand al Auguat 1st thah on July lat," bays a me the Department of Labor at Ottan This is natural in ftself owing to is in which next year's suapplies the wer bery hald by. But wo also find that, there
greater stocks on hand thls Aurust the greater stockn on hand this Auruat buy
In August of last year. This surplus ntoct
is slresdy being given into the hat is already being given into the handa
the allied buyers by aetion of the Cand Food Board since August int. somewhet more on cheese we shao for comewhat more on hand st, the int a
Ausuat than the ist of July, oving is
this being the season of production, let this being the season of production lif
we find that there is very much lein hand this August than there was the $p$ per than one-hast, thin year of the stock last year. The ahipments have been tue
up closer this year than last by the dild buying, owing to the fact that shlpmet conditions are better."
Recelpts of butler
wecelpts of butter at Montreal for in aras, which shows a decrease of pull packages, as compared Wilh, and an Increase of same week list
recelpts from receipts from May lat year, while to to date poy
increase of With 1917 . The packages as compur has been easy, and prioes have dochlot milightly. On this marke
quote quate ereamery sollds,
er amery prints, $41 \mathrm{l} / \mathrm{c}$ to prints at 340 to 38 cos all these at ery, 631 o to $43 \%$ quotes cholcest cram Inceelpts of cheese to ante at Mouse
since any ist ahow in incresse of 1 ill pozan, as compired with the same pent

Deal with Farm and Dairy Advertisers

## THE TRACTOR-TRUCK-POWER DEMONSTRATION FOR ALL EASTERN NORTH AMERICA

## AT COBOURG, ONTARIO, SEPTEMBER 17, 18, 19, 20, 1918

NOT A COMPETITION
It will be a grent Efucational Event. The advantages of Power Farming Equipment will be brought home to the Farmer in a practical and effective mbnner. This Demonstration will, in the renge and variety of Labon-Savigy Machinery ahown, far eclipse any up-to-date farmer should mins it.

You will have an opportunity to compare the work of Horses and Tractors.

There will be a tractor to fit every size of farm and every sixe of pocket book. There will be a hundrad of them on the grounds.
Hours Spent at Cobourg Will Mean DOLLARS in Your Pocket and MORE FOOD for our Soldiers

Greater Production is the siogan of the Farmer to-day. How to achieve it with reduced man-power is 'is probs.

Bring your Ladies.
The tractor wont be the whole ahow. Lighting Plants, Threshing Machines, Grain Separators, Milking Machines, Power Silo Machinery, Water Systems, Tractor Plows, Dairy Equipment, and many othef lines af Belt Power Apparatus designed to lighten the burden of the Fermer and the Farmer's Wife, and increase their productive power. wiii be exhibited.
$\qquad$ 파표
moved out of the ountry more raplilif:
 dency to reduce thetr blde and salesmen refused to part With thetr cheoun at ois paying the following pricent No. 1 clievers,

Brockville, Aug, $16,-691$ white and



 Canubitiltora, Aus, 18 . $18 \%$ boxes offered. 190 sold at mwe; balunce refused at myo and 28.160 .
 boarded.
unsold.
 LIVE STOCK.
There has beon a wlightly better demand for the zood to choice caille at the choioe expori ateers end heifera hive if anything, sold at bottor prices by a fow
cents per owt. On the oliuer liand, th,
 period under revirw, and quatalition the these grades decilined silishtil, Thourh ar
most imperceptible at times. The week has been merked by oven quatations, compared with the three previous aseyen-
day periods, whith witneased many huctuations in values.
The hog maiket has been steady to
 weok. Quotations: Butchers ${ }^{\text {do }}$, ite........... Butchers
helfers shole
do
do
do med
medum do goodlum
do medium
do common Butchers' cown, choice do medtion
do ccommon do medsum
do common
do canners Butchere Bulli, choioo.,
do mood do medium
do common

do mone Feedera, bent | Btackers, |
| :--- |
| Milkers | do com. to medium.

Calven, choice
do mednen
do medlum do grass $1 . . . . . . . . . . .$.
tambs, ehelee spring...
Iambs, yearlinss Sheep, choiec handy....
do heavy and fat bucks
Heavy fat do heavy and fat buck
Heavy fat ...................... $\$ 14.85$ to $\$ 16.00$
12.00 to
14.60
 ${ }^{\$ 3}$ to $\$ 3.50$ on mows; less $\mathbf{~ \$ 4}$ on stags; lese

## Holstein News

OFFICIAL RECORDS OF HOLSTEIN
FRIESINN COWS PROM JULY $t$ to 31 st, 1918.

JMMMMA Johands of Riveraide, 10904,
 -dey record: 143 si .8 libs. milk; 47.81
 60 -day recaid: bilue ing mifat 185.67


 14 -day reoord: 909.1 tbe milk; 38.46 lbs . lat: 6.33 ing
 bs. butter.
14-day record: 1846.7 lbs. miki; 00.62 Bloomileld. Ontario. butier. ill IB. Jurtalle.
 tario butter, Wm. Stook, Tariatock, On-
 20.41 Be: butter, Colony lisarn, Masoil.
dale, B.C.
 ter. J. J. Davis, Ingersolit, Ontarie but-

 Oak Rad 17.90 los. butter. ontario. H. Davies,
 Ontario. battor. J. J. Davie, Ingersooli 8r. Four Year Clase.
 ahio-day record: 8814.0 has. milk, 78.81
 *idondale, B,C, butter. Colony Farm,
16. Katie Atbotrerk Wawhe, 36667 , $3 y$, tm.

 bs, butter, W, $R$ Cummings, Cummings
 toow, Sentrewood Johanas Hengerveld,

Sr. Twe Year Class.
 fon, batter 14-dey record: 728.3 Tbs milk, 26.46 lba
fut, 88 on the. butter. R . M. Holtby, Port
Ierry, Ont. 1. Colony Vr. Two year Ctass.
 fat, 49.43 recora: 1165.5 lbs milk, 39.54 lbs ,
 1m. Tolony Alagrie "ToKinley, 41547, $2 y$
 issuondnie. R.C.
In. Tolony Anegie Pietertje, 38774, $2 y$ in 10 -ind



 He and otir own lierd sfre, Ormasby Jane
Hurlie are the only bulls in Canada got
by it 46 lb, buil. His sire is Ommaty Jone King, a brothar to the sire in Ormaby Jane
belnit man of Ormiby Jine buli, both the only cow with two butter racgio. cords.
His dam is Dolly Henrerveld Korndyike,

 four years of emen Tour nire is Faives at
Hurke Korndylke by an Intred non of the irvat Pontlac Korndylke and out of the
twien 30 lb . cow victoria Burke. Her hecond dam is a 23 lh three-year-old by
a ton of the firut 100 lo. cow In Canada
with sif the of hutter Mr. Holtby ox.
 how average 3.9 ths, butter in sarns
daym, whien puth mmoner the best sirevin
Canads. Canada. Prone tow Victorfs Nef Bowmanville, the
 Nry Foho Ayivin. the Aam of the $\$ 106,000$
cnly

 Whe now han is. se-the of the Pontines, dar chtern nid
three whth to Bon., bots world
FARM MACHINERY AT C.N.E. N Canadian Nafore th the history of from farm them ynch a derming for mpace
 Manufacturers have not exhe of the larger firmin but thie year ten of the leading shed reguest for bank with suoh a large apparently andeavoring to mat they are in a yuar afi the trotind they hinve un in a deovie. This group alone demandon which to demonatrate the morits of more than the Nextitition could wa but they thd itive theen about 200,000 the prand stand, the exhibition manage-
mont exseling. mont exsoting is pramies in roxurn that the exhibitors wontd make the dighiay eover over the entire range of mederm This unexpected demand at frst the amsillen timplement maniafinter of but by carenil planning praotionily all thilioants will be accommodated and wili be quile the lorgent ever made in the

## FREE-FOR-ALL Farm and Dairy Grinin and Vegegtalle Contest Peterboro, Ont, September 12, 13, 14, 1918 19 Classes - 76 Cash Prizes <br> Any Farmer or Member of Family in Ontario or Quebec is Welcome to Compete. No

 Entry Fee. You do Not Have to be a Subscriber to Farm and Dairy. Read Rules and Conditions CarefullyHow nice it would be to say, "I won the First Prize at the Farm and Dairy Grain and Vegetable Contest."

## PRIZE LIST

WHEAT (FALL)
(Not less than one peck to be submitted.)
1st Prize, $\$ 10.00 ; 2$ nd, $\$ 5.00 ; 3$ rd, $\$ 3.00$; 4th, $\$ 2.00$
WHEAT (SPRING)
(Not bets than one prok to be summittod.)
1st Prize, $\$ 10.00$; 2nd, $\$ 5.00 ; 3$ rd, $\$ 3.00 ; 4$ th, $\$ 2.00$ WHITE OATS
(Not lese than one peek to be eviminted.)
1st Prize, $\$ 10.00 ; 2$ nd, $\$ 5.00 ; 3$ rd, $\$ 3.00$; 4th, $\$ 2.00$
BARLEY
(Not less than ane peck to be submitted.)
1st Prize, $\$ 10.00$; 2nd, $\$ 5.00$; 3rd, $\$ 3.00 ; 4$ th, $\$ 2.00$ RYE
(Not less than one peck to be submitted.)
1st Prize, $\$ 10.00$; 2nd, $\$ 5.00 ; 3$ rd, $\$ 3.00$; 4th, $\$ 2.00$
BEANS
(Not lese than one-half peck to be submitted.)
$\mathbf{\$ 1 0 . 0 0} ; 2$ nd, $\$ 5.00 ; 3$ rd, $\$ 3.00 ; 4$ th, $\$ 2.00$ PEAS
(Not less than one-haff peek to be submitted.)
1st Prize, $\$ 10.00 ; 2$ nd, $\$ 5.00 ; 3$ rd, $\$ 3.00 ; 4$ th, $\$ 2.00$ CLOVER
(Not less than one auart to be submilted.)
1st Prize, $\$ 10.00$ : 2nd, $\$ 5.00 ; 3$ rd. $\$ 3.00 ;$ 4th, $\$ 2.00$
ALSIKE
(Not less than one guart to be submitted.)
1st Prize, $\$ 10.00 ; 2 n d, \$ 5.00 ; 3 \mathrm{rd}, \$ 3.00: 4$ h, $\$ 2.00$ TIMOTHY
(Not leess than one guart to be subminted.)
1st Prize, $\$ 10.00$; 2nd, $\$ 5.00: 3$ rd, $\$ 3.00: 4$ th, $\$ 2.00$

## ALFALFA

(Not less than one pint to be submitted.) 1st Prize, $\$ 10.00 ; 2$ nd, $\$ 5.00 ; 3$ rd, $\$ 3.00 ; 4$ th, $\$ 2.00$ SWEET CLOVER
(Not lese than pone pint to be submilted.) 1st Prize, $\$ 10.00 ; 2$ nd, $\$ 5.00: 3 \mathrm{rd}, \$ 3.00 ; 4$ th, $\$ 2.00$ POTATOES
(Not less than one-halif busher to bo submilted.) 1st Prize, $\$ 10.00$; 2 nd, $\$ 5.00$; 3rd, $\$ 3.00$; 4th, $\$ 2.00$ JUNIOR CLASSES
Open Eapec ally to Women, and Children 18 years of Age and Under
CORN (GARDEN SWEET)
(Not lese than one dozen cobs table corn to be submitted.) 1 st Prize, $\$ 5.00 ; 2$ nd, $\$ 2.50 ; 3$ rd, $\$ 1.50$; 4th, $\$ 1.00$

## BEETS

(Not lees than ten samplee to be submitted.) 1st Prize, $\$ 5.00$; 2nd, $\mathbf{3 2 . 5 0} ;$ 3rd, $\$ 1.50$; 4th, $\$ 1.00$ TURNIPS
(Not less than one-hal buahel to be submilted.)
ith, $\$ 5.00 ; 2$ nd, $\$ 2.50 ; 3$ rd, $\$ 1.50 ; 4$ th, $\$ 1.00$ CARROTS
(Not lese than one peck to be aubmilted.)
1st Prize, $\$ 5.00 ; 2$ 2nd, $\$ 2.50 ; 3$ rd, $\$ 1.50 ; 4$ th, $\$ 1.00$ CABBAGE
(Not leese than three heade to be aubmitted.)
1 st Prize, $\$ 5.00 ; 2$ nd, $\$ 2.50 ; 3$ rd, $\$ 1.50 ; 4$ th, $\$ 1.00$
PUMPKINS
(Not less than two samples to be submitted.)
1st Prize, $\$ 5.00$; 2nd, $\$ 2.50 ; 3 \mathrm{rd}, \$ 1.50 ; 4$ th, $\$ 1.00$

## RULES

All entrants in the FREE-FOR-ALLL Grain, and Vegetable Conteat, condueted by Furm and Dairy will be governed by the following rules:-
All entrants in may compete in as many different classes as desired, but no ontrant can compete for more than one prise in asy one clasa, produced

1. Any porson may compete in as many airt be the bona ade property of the person or persons entering same and must have Scen srown or produced


 of comptance with been so, he or ahe shall forfelt any and all future.
to the Ciroulation Manager of Farm and Dalry, Peterborough. Ont.
 4. Bhould there be only one exhibitor in a chass, such exim own judgment as to which prise to award euch exhlibitor, and their decision shall be final.
le exhibited is worthy of the iat prize, deception, or dishonest practice, elther in preparation, ownerahip, or of any representation concerning amy article
2. Upon the discovary of any, frand, deception, or dishonent prafece, the deciaion of the fudges, Farm and
exhifited, which may have afrected,
of any prize awt prise thelket will be red; the Ind prise ticket blue; the 3rd prise theket white; the th prize ticket yellow. Tickuts and prizes will be mailed ertepe winnerin not later than September 20th, 1918.
previous year.

epecimen enterea. CONDITIONS

Address the MANAGER OF CIRCULATION for Any and All Information Desired

