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November 11, 1908

WINNIPEG. MANITOBA

Vol. XLIV, No. 842



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Any even numbered section of Dominion Lands in Manitoba, Saskatchewan and Alberta excepting 8 and 26, not reserved, may be homesteaded by any person who is the sole head of a family, or any male over 18 years of age, to the extent of one-quarter section of 160 acres, more or less.

more or less.

Application for entry must be made in person by the applicant at a Dominion Lands Agency or Sub-agency for the district in which the land is situated. Entry by proxy may, however, be made at an agency on certain conditions by the father, mother, son, daughter, brother or sister of an intending homesteader.

DUTIES.—(1) At least six months' residence upon and cultivation of land in each year for three years.

(2) A homesteader may, if he so desires, per-

(2) A homesteader may, if he so desires, perform the required residence duties by living on farming land owned solely by him, not less than eighty (80) acres in extent, in the vicinity of his homestead. He may also do so by living with father or mother, on certain conditions. Joint ownership in land will not meet this requirement.

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and Home Journal

The Only Weekly Farm Journal in Western Canada



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AND HOME JOURNAL

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The Farmer's Advocate of Winnie

BELOW IS GIVEN AN EXACT COPY OF A LETTER RECEIV. ED THE OTHER DAY FROM TWO OF OUR FIRST SETT. LERS AT SLOCAN PARK. WHEN IT WAS OPENED IN DECEMBER LAST YEAR. THESE TWO MEN OWN IN PARTNERSHIP THREE LOTS, THE BROTHER OF ONE WILL TAKE A FOURTH

Slocan Park, Gutelius P.O., B.C., Sept. 15, 1908.

N. Wolverton, Esq., President, The Kootenay-Slocan Fruit Co., Ltd. Nelson, B.C.

Dear Sir.—
Now that we have had an opportunity of Now that we have had an opportunity of judging fairly as to the merits of land at Slocan Park, we thought possibly you might be desirous of our opinion. We cleared 4 acres last spring in as many weeks, and we are keeping as a souvenir the only stone we found on it. The fruit trees we planted, despite the exceptionally dry summer are growing fine.

despite the exceptionally dry summer are growing fine.

Mr. W. Roberts (a brother of Mr. I., Roberts,) who is on a visit from England, is so favorably impressed with the possibilities, he has decided to buy a lot and make his home here. It would require to be a handsome advance on the price to induce us to part with the three lots we bought last year.

Thanking you for the fair treatment we have received at your hands,

Yours faithfully, (Signed) Oldfield and Roberts.

Write for maps and particulars

The Kootenay-Slocan Fruit Co. NELSON, B.C.

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Somerville Steam Marble and Granite Works

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Remember - BRANDON



November 11, 1908

P.O., B.C., ept. 15, 1908.

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Right Quality Right on Price

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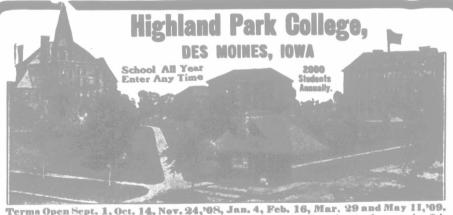
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And Nelson, B. C.

WINNIPEG, MAN.

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Home Study over 7100 Students Eurolled in Correspondence. School.

Almost any subject you wish by correspondence.

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have bought De Laval Separators because they were better than others.

The 1908

IMPROVED DE LAVAL SEPARATOR

with its graceful outline, delightful simplicity, noise-less gear and great capacity has furnished one hundred and one additional reasons for the exclusive use of De Laval Separators by discriminating dairymen. Ask for new 1908 catalog and name of nearest De Laval Agent.

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a man were offered an extraordinary opportunity to purchase a desirable property—a property he must have some day—at terms to suit himself, and knew that by delaying he would only increase the cost—would he shelve the affair for decision at some future time? Not he!

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CATALOG PRINTING

ESTIMATES CHEERFULLY GIVEN

Farmer's Advocate of Winnipeg - - 14-16 Princess St. mister

GOSSIP

WANTED—AN EMPLOYER

row of motionless cars. Also, in con- a lift. sequence, along the curb was ranged a The goggled eyes looked at the nickel fretting, impatient, helpless crowd, in the dirty hand, and then travelled up among whom the most anxious was and down the small figure back of the probably Edward Billings Henry.

In stature, Edward Billings Henry was briefer than his name would indicate, but to a certain two-room dwelling on Jackson Street he made up in importance what he lacked in height, and it was his overwhelming sense of this importance which made every thin up," muscle taut and strained every nerve as he stood in the forefront of the crowd, I would like to get that job. his bare feet planted on the cold asphalt, one hand gripping his remaining stock of papers, the other clutching a nickel.

"I never was in a tearing hurry in my life but what this thing happened!' exploded a man just behind the boy.

Edward Billings Henry turned and looked up. The man was jingling a lot of loose coins in his pocket. The boy glanced down at his one nickel, and said, with conviction, "You can't need to have 'em go like I do."

The big man stared down at the little man in surprise with a gruff "Huh!" but Edward Billings Henry had no time to repeat. His hope had revived. The two men who lay on their backs under the injured car began to crawl out, and the boy rushed forward.

"Will it go now?" he inquired of one of the numerous conductors clustered

"Maybe so-in half an hour." replied the conductor carelessly.

"Oh," cried the boy in dismay, "I

just can't wait that long.

"A what?" ejaculated the conductor;

but his voice was lost in the honk! honk! of a big white touring car which pushed slowly through the crowd.

In front of the car Edward Billings

jingling the coins in his pocket. 'what time is it, please?" he asked.

The man pulled out a watch and showed it to him.

Edward Billings Henry heaved a great sigh. "Half-past ten! It'll likely be filled up before I can get there."
"What will be?"

"The place I'm after."

Skilfully he raised the limit in front of him.

"Hello, Junius!" a voice in the crowd "I'm eleven, if I a sang out. "Lucky dog, you, not to boy. have to depend on street cars!" "And stronger—"

The driver of the car was a young man. That is, Edward Billings Henry defiantly, and closed his fist. judged him to be young by the only "Just feel!" he cried. "I've got a

"Where you going?"
"Up to Congress Square." "Well, get along, then," returned the other. "That's no good to me."

wished to go, and here was a rapid- afterwards just as big as you talk transit vehicle with room enough for ten such diminutive persons as he. "That's sound business sense," he Without loss of time he limped up on agreed, gravely. "You intend to de-

Junius paused and looked down. "Well, if you get me there in time to Edward Billings Henry removed a man's say anything. I'm going to tell Mr.

"What!" Junius stared hard throug

his goggles.

"To Congress Square," said Edward Billings Henry, impatiently. "It's business, and if I don't get there I'm out of a job that's all." The boy mounted There was a north-bound car tem-porarily disabled on Broadway, near his nickel. "I'll pay just what I'd pay Fourth Street, and in consequence, as far on the car," he argued, "so you'd be south as the eye could reach, stood a making some money as well's giving me

> hand. The eyes noticed that while those parts of the boy's anatomy which had been exposed all the morning to the city dirt had collected grime, the rims, as it were, of the exposed parts revealed hidden cleanliness.

> "Congress Square is an awful way up," urged Edward Billings Henry, "and we mustn't waste much time, for

The small hand extended the nickel enticingly toward the glove. "You'll be earning as much as the street-car by giving me a lift," the boy repeated.

The driver's lips twisted a bit. "That's so," he said.

"Huh," he chuckled, and gracelessly extended his hand for the nickel. "Get in, my man, and I'll give you the 'lift'."

Edward Billings Henry drew a deep sigh of relief, dropped the coin into the other's palm, and engulfed himself in the soft front seat.

To whom have I the honor of giving a lift?" asked Junius, formally, dropping the nickel into a pocket, where it lay alone. After it he sent a curious, lingering smile.

"Edward Billings Henry, Junior," replied the boy, the lips beneath the goggled smiled. "And where am I 'lifting' you to, may I also ask, Edward Billings?" "To Mr. Florin's office, where they're

going to select an office boy this morning 'tween ten and eleven.''
The driver busied himself a moment

"Walk, then!" said the conductor, with the steering-gear as the car passed "It's too far," replied the boy, "when you've got a stone toe."

"A stool of the crowded mail-wagons behind the post-office building. Then he turned and shot a curious stool of the car passed the crowded mail-wagons behind the post-office building. companion, asking abruptly,

"And you think you'll get the job, do you?"

Edward Billings Henry leaned forward In front of the car Edward Billings as if he could push the machine into a Henry raced limpingly on his "stone yet faster pace. "I can try for it," he toe" back to the curb and to the man replied. "Father says you never know inclination the care Edward Billings as if he could push the machine into a Henry raced limping the care Edward Billings as if he could push the machine into a Henry raced limpingly on his "stone yet faster pace." I can try for it," he toe" back to the curb and to the man replied. "Father says you never know its replied." "Just what you can do unless you try. He's

always wanting me to try."
"Yes," muttered Junios, still more
interested. "Fathers seem much alike, whether they live up-town or down-

'Can't we go faster?" asked Edward Billings Henry, sitting on the edge of

laid it across the other leg, and nursed bluecoats around. But about that job, the stone-bruised big toe, his eyes on the now-you'll not be the only boy after automobile, which had halted almost it. There will probably be dozens

"I'm eleven, if I am small," said the

The boy stretched out a thin arm

feature visible, a flexible, wide mouth, good muscle, and on my legs it's better with clean-shaven lips. His eyes were yet. Just now I've got a stone bruise behind goggles, and a cap covered his on my big toe, but I tell you I can get forehead and ears, meeting the tip of around like lightning just the same. a high collar, which effectually concealed Bet Mr. Florins wouldn't ever be sorry he took me.

But the mouth smiled as the goggles turned toward the pavement, the owner answering lightly, "Hello, yourself, are you going to make him believe that "Where you going?" "Yes, I'm inclined to believe that myself," mused the man. "But how are you going to make him believe that "there you going?"

The boy raised his lame foot and gently rubbed the swollen big toe. "Well," he began, "I'm going to talk up big. Father says you have to some-Congress Square! What luck! Extimes when nobody's round to do it for actly where Edward Billings Henry you, and he says it's all right if you do

The driver wagged his head wisely. "That's sound business sense," he his aching stone toe and jogged the arm liver the same goods as you sell. Let's of the driver.

Derby from his head and looked up out Florins that father went to school a lot of eyes kindling with hope, as he asked when he was young. He went through high school and got all ready to go

Edward Billings Henry emphasized (Continued on page 489)

Farmer's Advocate

and Home Journal

REGISTERED IN ACCORDANCE WITH THE COPYRIGHT ACT OF 1875

November 11, 1908

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WINNIPEG, MANITOBA

Vol. XLIV. No. 842

EDITORIAL

John Burns on "the Cash Argument."

Mr. John Burns, the labor member of the British parliament, probably did not read what we had to say a few weeks ago under the caption, "A Cash Argument," but he has said substantially the same thing to a British audience. Mr. Burns took occasion to point out that the chief disadvantage under which the British unemployed lay, compared with the unemployed in America, was in the fact that Britons drank more than their trans-Atlantic brothers. Needless to say this opinion was not received with friendly applause, but Mr. Burns might have gone farther and included all British laborers and middle men as well, and in fact, included all who did not attain their desired economic standing while indulging in drink. Any country with the per capita expenditure for drink that Britain can boast of, must necessarily show an economic weakness, a serious breakdown. We do not hear of unemployed in France or Germany, but rather

To get people to consider the economic side of the liquor question and its bearing upon poverty and want should be the duty of everyone who has the betterment of social conditions at heart. We have all been too willing to ignore the effect, financially, of the indulgence of the appetite for drink. We have generally been willing to admit that because the "liquor interests" employed a large amount of capital and labor that therefore they were contributing to the sum total of human necessities. But we must learn to distinguish between money and energy expended upon the satisfies hunger, nor protects the body from exuse for alcohol manufacture, as a crowd of unemployed would soon demonstrate. Commoand undesirable commodities.

things which go to sustain life, or add to its usefulness, tends to prevent poverty, yet this fact is ignored, not simply by individuals, but by associto the clovers in importance. ations and governments. It is agreed that the most desirable condition of affairs is that where the compensation for labor is more than sufflaw picked in the argument.

Forage and Fodder Crops

bulk of the correspondence came from Saskatche- of valuable pure-breds, is enormous. wan, and the crops particularly discussed were The exterminating of tuberculosis by comthe cereals ordinarily grown in this country the vagaries of tuberculin, especially on second,

Summed up briefly, the result of the past that result. season's work in experimenting with fodder corn fully at first.

Fodder corn has been sufficiently tested at our dities may conveniently be classed as essential, Western experiment stations, and as a farm crop desirable, non-essential and undesirable. The in nearly all parts of Manitoba, to demonstrate former two contribute to the life and happiness that it may be successfully grown. We have poverty and death. Liquor belongs undoubtedly in one of the latter two classes, depending upon the condition of the people who use it, and the where to the south of us. The vicissitudes of

Cease Breeding Tuberculosis

ficient to maintain the laborers in their standards Washington, D. C., a notable contribution, re- who are otherwise engaged, is significant. It of living and where the surplus is judiciously in- markable for the saneness, breadth of view and marks the reversion of attention toward the use vested in reliable securities such as land or bonds. grasp of the subject which it betokened on the of ships for carrying freight. For years the This is obviously the ideal each citizen should part of its author, was a paper on the Control of railroad has held the interest, fanned the im-Bovine Tuberculosis, by Dr. J. G. Rutherford, agination and accepted the money and patronage have, but because we have weak-willed and V. S., Dominion Veterinary Director-General and of the public. This was but natural. Such strong passioned people, it becomes the duty of Live-Stock Commissioner, Ottawa. Judging from immense resources, such rapidly increasing the government to assist both by removing temp- report, this deliverance, which we reproduce prac- values, such weary distances, and such feverish tations and supplying incentive to all to attain to the ideal. There may be some danger to the man who preaches the economy of liquor being branded as stimms by the three man branded as the three man brande branded as stingy, but there can be no other the idea of compulsory tuberculin-testing and parably less expensive, method. Now that trade slaughter of all reacting animals. The futility has become better organized and communities

of this system as a means of eradicating bovine tuberculosis has been demonstrated in states and For the past month or so we have been pub- communities where the agitators have had their lishing the experiences and opinions of practical way, while the economic cost entailed by the farmers in and on the growing of fodder and other compulsory slaughter of slightly affected animals crops not usually grown in this country. The in unfattened condition, and more particularly

fodder corn and rape. There is a mistaken con- pulsory testing of herds and the slaughter of inception in the minds of many men that in only fected animals is impracticable. Considering are there money making possibilities. The third and fourth tests, in the same herds, the correspondence referred to indicates pretty clear- necessity of thoroughly conscientious, wide-awake ly, although for that matter it has been demon- and experienced veterinarians to make reliable strated previously, that soil and climatic con- diagnosis of the disease; the numerous ditions here are favorable to the profitable pro- ingenious methods adopted by owners, especially duction of a greater diversity of farm products of pure-bred cattle, in order to defeat the test, than we now produce. But it indicates more, too. the difficulties arising from the period of incuba-Although much of the opinion given was based tion are sufficient to exclude from the field of acupon tests made with small plots of these crops, tion this compulsory, wholesale method of dealing it shows that men are taking more interest than with tuberculosis, except in small and circumformerly in other lines of agricultural production scribed areas, in which all, or at least a majority than wheat farming and a little stock raising. of the owners, are alive to the necessity of stamp-They must be, else they would not experiment ing out the disease, and willing to co-operate with other grains, forage and fodder crops at all. heartily with the authorities in bringing about

Against the policy of voluntary testing, most of and rape in Saskatchewan has been satisfactory. the arguments against compusiory testing apply, Rape is perhaps a more unusual crop to find on a with the additional one that results in exterminatprairie farm in this country than corn. It is ing the disease would be very slow. Dr. Ruthergrown essentially for forage, either for pasturing ford inclines to favor a combination of systems, off by stock or for cutting green and feeding which he admits is open to many of the objections inside. For hogs it is a green food of exceptional urged against other systems. The chief need in value and for best results should be cut and fed the case is for a campaign of education among in the pens. Old stock, mature sows, especially, cattle owners and the public. In this campaign may be pastured on a patch of rape and require of education the first question to take up is ventilittle other food. Where summer swine feeding lation. Human tuberculosis is now tretead with is followed it is about the best grain saving ad- marvellous success by the open-air treatment, junct to the ration. It is probable that as winter and in view of these facts, it is nothing short of cattle feeding develops in this country, rape will disgraceful that we are yearly permitting thouproduction of necessities, and money and energy come to be as serviceable a fall forage with feeders sands of animals to become infected, owing to the devoted to producing a commodity that neither as it now is in certain sections of Ontario. There insanitary conditions under which their owners the feeding cattle are turned into rape for several insist on keeping them. As The FARMER'S weeks before going into the stables and make, Advocate has long contended, "stockmen are posure, but rather renders humanity eventually during fall, the most economic gains of the feeding breeding tuberculosis a great deal faster, through more destitute. There is a vital difference period. For best results as a cattle feed, rape neglect of ventilation, than it would ever be posbetween the use of potatoes for food and their should be used in connection with a good grass sible to stamp it out by the promiscuous use of

What Canals Might Do

Just about the time our political campaign began and before the Americans had begun to of people, while the latter contribute to misery, seen fields of corn in this country that would sacrifice, with a rare degree of abandon, a claiming the vices of the man they did not stand in one of the latter two classes, depending upon boundaries of which are supposed to be someof men interested in transportation was held in unemployed are suffering from distress which is our climate will perhaps preclude corn ever Chicago. The immediate object of the meeting a direct result of the employment of non-essential being grown as a grain crop, but for fodder purbeing grown as a grain crop, but for fodder purbeing grown as a grain crop, but for fodder purbeing grown as a grain crop, but for fodder purbeing grown as a grain crop, but for fodder purbeing grown as a grain crop, but for fodder purbeing grown as a grain crop, but for fodder purbeing grown as a grain crop, but for fodder purbeing grown as a grain crop, but for fodder purbeing grown as a grain crop, but for fodder purbeing grown as a grain crop, but for fodder purbeing grown as a grain crop, but for fodder purbeing grown as a grain crop, but for fodder purbeing grown as a grain crop, but for fodder purbeing grown as a grain crop, but for fodder purbeing grown as a grain crop, but for fodder purbeing grown as a grain crop, but for fodder purbeing grown as a grain crop, but for fodder purbeing grown as a grain crop, but for fodder purbeing grown as a grain crop, but for fodder purbeing grown as a grain crop, but it also in grown as a grain crop, but it also in grain grown as a grain crop, but for fodder purbeing grown as a grain crop, but it also in grain grown as a grain crop, but for fodder purbeing grown as a grain crop, but it also in grain grown as a grain crop, but it also in grain grown as a poses, practical experience shows that there are Chicago to the Mississippi river but it also inno natural barriers to its production in either the terested itself in the improvement of some eight to ten thousand miles of waterway in the heart that thrift and the spending of money upon the Corn and rape are two crops that are going to of the continent. The canal from Chicago to play quite a part in stock raising, dairying and St. Louis is an undertaking of the city of Chicago the development of mixed farming generally in upon which she has already spent some fifty the West. For these purposes they rank next million dollars, and is ready to spend some thirty millions more. The task of opening up the great stretches of the Mississippi and its tributaries will be laid upon Uncle Sam.

That interest in water transportation should At the recent Tuberculosis Congress held in engage the attention of shrewd business men

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have settled into the production of commodities the free entry into this country of people from smallest place in his heart girth, which I am quite suited to the designs of nature, it becomes im- all countries, or at least from such quarters as prepared to prove. As for him being weighed perative that every semblance of waste in the immigrants come who are not undesirable for he has never been on the scales in Canada and I movement of crops and merchandise be elim- reasons of national policy, or because their coming am not certain if he ever was in the Old Country, inated. It is realized that the cost of moving would lower our nationality. But it is a greater where they do not gauge a horse's goodness or goods by rail is a heavy tax upon the nation. mistake to proclaim that that which enables one usefulness by his gross weight, which never con-All over the land where it costs \$7.50 to carry a class of the community to enjoy special advantage cerns a good judge who is quite able to size up ton of wheat one thousand miles by rail, one at the expense of another class is beneficial to and balance an animal and know what he is dollar will move it the same distance on water. those who are taxed that the other may be pro- intended for. When the question is asked as to how Doing away with waste is the great problem of tected. That the wages of artisans and mechanics much an animal weighs, the thought immediately the day, and strange as it may seem, the water- in this country are any greater actually than the strikes us as to how much the enquirer really knows ways generally move a given bulk of freight in wages paid for similar labor in other parts of the about a horse. Although an animal might less time than it takes the railway.

All this leads up to our own problem. We our grain from west to east nor our heavy merchandise from east to west. Transhipment at Georgian Bay ports and reloading at Montreal constitutes a tremendous total of expense chargeable against the commodity which in turn comes out of the producer's pocket, if it be farm produce, or out of the consumer's purse if it be merchandise. This is the reason why we want railroads by the shortest possible routes to waterfronts and canals wherever it is possible to cheapen the cost of transportation. Under these heads comes the Hudson's Bay railroad and the Georgian Bay canal. Neither one of these alone is sufficient. The northern route will, no doubt, make European goods much cheaper at western points and should make grain higher in price on local mar- Jaques. I read it with a good deal of amusement every part of his body. Horses of this description kets, but with continual increase in trade between east and west, the advantage of a longer season and the saving in expense in hauling from upper lake ports to Ontario, Quebec and maritime points there should be a continuous flotilla of vessels on the canal during the season of navigation. To be able to move our wheat from Fort William direct to the Old Country, or to many eastern mills without any additional handling would effect nearly as much saving as we now make by hauling wheat to the railroads in wagons rather than carrying it in bushels. Our agitation for increased railway facilities must shortly be given over, and the necessity of the Georgian Bay canal urged upon the government. It may probably be the next plank that our political parties will seize upon to go to the country, but if the work is delayed until after our next election it will be an expensive delay.

High Protection and Wages

It is a favorite argument of high protectionists that the higher the tariff wall which they raise around them the higher will be the returns for labor employed in that country. That is, that protection, in the way of import duties levied against manufactured commodities from without, will stimulate domestic industry, create profitable employment for workmen, especially for skilled artisans, develop a large home market for the farmer for his grain and animal products, and benefit the country all around.

any roundabout way by which the industry he comment on it, I will do so now. was interested in should be protected. He pro- "Perhaps it may turn out a song, for the commodities they produce?

and with that he has to purchase everything he feet four inches (measured by Mr. Jaques him- nothing else but Clydesdales for their drays. requires. He sells his one commodity in a market self). Whether around his belly or the smallest In Liverpool more than one-third of the draft open to the world. He purchases in a market place in his heart girth, no one knows. where practically every commodity is taxed for He also states he measured all the winning with Clydesdale breeding in them. Liverpool the protection of the manufacturer who produces Clydesdales at the Dominion Fair. Perhaps he market is the best one the Clydesdale breeders protection for the working man. If it is it is a desirous of acting in a fair, gentlemanly way. The "Suffolk" as Mr. Jaques states "is unchangmuch less direct way of affording the laboring he might at least have requested the consent of ing with each generation." Well I would not class protection than is the imposition of import the owners of those animals before taking the like to make that statement about any breed of duties on foreign commodities a means of pro- trouble to measure them to suit himself and his animals. Take our mode of transportation for tecting the manufacturer. It would be a mistake own desires. Now the first prize aged Clydesdale instance, to keep up with the times we must of course, to believe, much less suggest, that any stallion girthed seven feet, six inches at the time progress and not stand still. It is the same in

LOJI WICKO

world is extremely doubtful. That high pro- be the heaviest one in the world, he could be tection, with its tax on nearly every necessity easily entirely useless for any commercial purpose of the working class, can ever increase the actual -except for the owner to feed at a big expense to haven't yet got the cheapest means of moving returns of labor, is more than extremely doubtful, be able to go around and tell the public how it is, in fact, unreasonably absurd.

HORSE

Size and Weight a Misleading Basis for Comparison

Editor Farmer's Advocate:

much he weighed.

An animal's usefulness is gauged only by his weakest point. Did it ever occur to people like Mr. Jaques that the heaviest and fattest man is the strongest, and would it not be very ridiculous to compare them as such. The main essential point in any draft animal is constitution, ambition, courage, perfect conformation, good. close, true action and flexing every joint in motion, and above all, wearing qualities, which go along with hard, flat bones, firm joints, and not the least the foundation of strong, sloping pasterns set In your issue of October 14th an article appears, on good, open, deep, large feet. In action all The Suffolk Horse" written by Mr. Norman his movements should be in perfect unison with



A TYPICAL IRISH HUNTER

Now, when the manufacturer sought protection and did not think it worthy of a reply, but as a will not require any odious comparisons for the from his foreign competitor, he did not suggest number of draft horse breeders have asked me to purpose of recommending their usefulness to the

posed, most practically, to shut out foreign com- "Perhaps a sermon"—as Burns says in his success of his business he should endeavor to petition by levying an import charge against the "Epistle to a Young Friend." The tone of breed the animal the majority of the public foreign commodity. That was the only kind of Mr. Jaques' letter, and the comparisons he demand and not try to influence and educate protection that seemed capable of serving the makes with other breeds of horses are odious, others to his own narrow way of thinking. purposes of "protecting" our manufacturing and written in a wrong spirit to educate breeders. The Clydesdale men and other draft breeders industries. And it has fulfilled its purpose cer- of draft horses to his way of thinking. In the are not worrying the least about the merits or tainly most satisfactorily to the manufacturer. first place he tackles the Clydesdale stallions at demerits of the Suffolk. I would suggest for But more lately we have been told that what re- the Dominion Fair and strongly emphasises the Mr. Jaques' benefit that he should widen his sults from shutting out foreign competition helps superior points, measurements and even weight knowledge a great deal more before he rushes Canadian labor and is profitable to the Canadian of his three-year-old Suffolk Punch stallion, into print and make such statements that "the farmer. If Canadian labor requires protection That animal was exhibited there, and while going Clydesdale is unknown in England save in the as Canadian industries are held to require it, around the ring at the time of the judging of his Scotch borders." What about the largest breedwhy is labor not protected in the same way as class or while going through the stables afterwards, ing establishments in Britain, viz: The Seaham the manufacturing industries have been? Why I never even heard a comment about him, nor Stud owned by the Marquis of Londonderry? Why anything wonderful said of him, nor would I have They breed flothing else there in the way of draft do the manufacturers not advocate protection known that there was such an animal exhibited. horses but Clydesdales, and there are others in for the laborers they employ as well as protection In fact we would not know now, if it were not for England as far South as Kent, too numerous to this coming from his owner.

Yet the manufacturers blandly call this weighed them also. Now if Mr. Jaques was have for their heavy geldings. restrictions whatsoever should be placed upon of the Dominion Fair in thin condition at the breeding. There must be improvement in this

public, and after all the public are the better judges. If any breeder is desirous of making a financial

mention. It will also widen his knowledge that A laborer has one commodity—labor—to sell, In the first place he states his girth is seven some of the principal brewers in London possess animals on the streets are either Clydesdales or

I am quite ig weighed nada and I d Country, oodness or never conto size up vhat he is d as to how amediately eallyknows nal might e could be ial purpose

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nly by his people like ittest man ery ridicu-: main esnstitution, ion, good, in motion, 1 go along ot the least sterns set action all nison with lescription

progressive age. One must either advance or go in favor more and more with the general public, and any broad minded breeder of horses acknowledges this. I predict that in the future he will Not the local into his natural stride. still go on improving.

November 11, 1908

crossing on Western range mares. That cross for various reasons, the body falls upon the limbs with a number, however as sire of Scots Wha Hae he would only produce the cheapest class of horse great force, and the sound emitted by the feet is renders the pedigree ineligible, and his dam, on the market today either in Canada or the States, viz: the kind termed in the latter country 'chuncks.' A few breeders in the province of Alberta have bred that cross long before Mr. Alberta have bred that cross long before Mr. Horses with loaded upright shoulders are amongst present rule, even if their dams and sires have Jaques was ever heard of and have regretted it those of the class referred to, and others in which the already been recorded and assigned numbers in ever since, as they would have been better off axes of the limbs are faulty, the body sways from side the Canadian Stud Book as ancestors of animals

are not represented in Canada is simply because the English stockman is not represented either.' We would infer from this statement of Mr. Jaques that he himself is the only Englishman of any importance that is breeding draft horses in this country. I wonder what my numerous English friends will think of this statement.

At the present time I can sell Mr. Jaques a seven year old Suffolk Punch stallion at a small price that was a winner in England before being imported. He has been used by one of those parties referred to and he is more than anxious to dispose of him and put a Clydesdale stallion importers might be supposed to be able to look in the Suffolk's place.

Calgary.

JOHN A. TURNER.

Action

consent, refers to the trotting gait. It is comhe fails to command attention, and is relegated to the drudgery of his kind. The trot is a gait in which the limbs are moved diagonally. The off fore and the near hind limbs reach the ground simultaneously, and this is repeated by the near fore and off hind members.

ground will vary for each individual, or for the same individual under different circumstances. behind the fore ones; at others they fall more or less exactly upon the same spot, while in some, again, they extend for some distance in front of them.

All these several relations exhibited by the feet while moving may be seen in the same animal at different times, while in some horses one or the other is more or less constant under different circumstances. As to pace, the extent of ground ones have been found. (In one case the steamin others short and choppy.

limb, the force and extent of the muscular contracformation which need not be referred to here. The and dam must both be numbered and their sires subsequent transfers were made, he will have to be problem, however, is very difficult of satisfactory and dams must also be numbered in the Scotch transferred to the person signing the certificate solution, owing to the many factors by which it is Stud Book. Reference as to Volume and page influenced. It will, however, be remarked that in this is not sufficient, in fact in most cases where respect considerable difference is noticed in different pedigrees have been rejected it has been for that service certificates and give them, properly filled in animals. It will be observed that many small reason. As it is impossible to tell from examina- and signed, to the owners of mares which have been horses will outpace animals hands higher than tion of the Export certificate which only gives the themselves. In these cases explanation will be found in the fact that the rapidity of movement of the limbs in the former is much in excess of those of the latter, and that the long step of the larger horse the pedigree for two generations. is equalled or exceeded by the more frequent repetition of the step in the smaller one.

Quite apart from pace, the trot should be marked which is not, will illustrate the meaning clearly. by symmetry of action; however good the fore action may be, unless the movements behind are in harmony with it, the gait will lack that grace and beauty which go to make up a good horse. It is noticeable in some animals that the knees are freely flexed, the stroke of the limbs is parallel with the long axis of the body, and the step is light and easy, but there is frequently in these cases a marked deficiency of Haggis forward propulsion. The hind action in such animals is wanting in that full and complete flexion of the hocks which impels the body forward and gives harmony to the movements of the whole. When this defect exists, the fore action is seldom of that farreaching character which obtains in animals otherwise constituted.

The converse of this is seen in those cases where the fore limbs are shot out in a more or less straight line, and the contact of the foot with the ground appears to fall upon the heels. There is in these cases only slight flexion of the legs, but the hind limbs Scots Wha are advanced in a vigorous manner, and the body is thus impelled forward. Although an unsightly mode of action, the gait in this instance is decidedly progressive, and the pace much increased.

temporary character, quickly passes away as the Not the least important point to be considered strikingly loud, while in other animals it is hardly noticeable. In these horses the touch of the feet upon the soil is light and airy, and in contrast with others there is little loss of time in the movement. Stood is that all pedigrees must conform to the fianacially if they hadn't tried the experiment. to side, and the feet are made to hit the ground with "The reason why the two English breeds unnatural force. PROF. WORTLEY AXE. In English Live-Stock-Journal.

Suggestions from the National Live-Stock Records re Registration of Imported Clydesdales

EDITOR FARMER'S ADVOCATE:

As the pedigrees of a number of horses which have been imported during the present season were not eligible for registration in the Canadian Stud Book, we feel that the requirements for registration should again be explained. While after their own interests, the fact remains that pedigrees of some Clydesdales imported recently have been rejected by the National Live Stock Records, and upon which duty has been paid. Some of these may subsequently be qualified for In this country the term action, by universal registration through having the necessary ancesonsent, refers to the trotting gait. It is com- tors numbered in the Scotch Book, but some will mon knowledge that, however good an animal not, and will probably be sold or travelled on their may be in external conformation, without action Scotch certificates. Breeders and buyers should therefore be careful not to patronize or purchase stallions which are not recorded in the Canadian Stud Book. No Clydesdale can now be brought into Canada either from the Old Country or the slip. United States unless its pedigree has been re-The relation of the feet when brought to the corded in the Canadian Stud Book, or duty paid.

As the registration fee would probably not exceed \$5.00 and the duty be not less than insisted upon as a matter of protection.

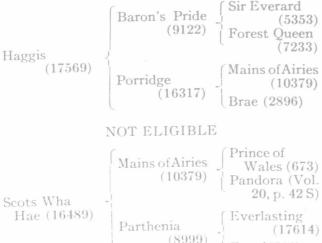
I note several varieties of movement are distinguished by the French as the "short trot," "the 1908 and has not a Canadian certificate it can be ordinary trot," and "the long trot." taken for granted that one could not be procured.

Several shipments have been made which were purchased by agents in Scotland and it has for the most part been in these that the ineligible covered in the action of trotting in a given time, ship Company was ordered by the Consignee to or, in other words, the length of the step, differs return the shipment), so persons intending to in different horses. In some it is long and reaching, buy in that manner should furnish their definite in others short and chappy

The animal must itself be numbered number, whether the sire is eligible or not, it is necessary to refer to the Stud Books and tabulate

The following example of a pedigree which is eligible for the Canadian Stud Book, and one

ELIGIBLE



Eve (7766)

progressive age. One must either advance or go Horses with high-striding action behind some-back. The Clydesdale has made such progressive times allow their limbs to dwell momentarily in that of Haggis, will be eligible as all the ancestors strides in the last thirty years that he has grown a state of extreme flexion. This, however, is not have numbers, but one which like Scots Wha Hae a constant condition of the gait, and, being of a has but a reference to volume and page where an ancestor is recorded will not be eligible.

It will be noticed that Mains of Airies in this gait is the manner in which the feet are brought appears in both pedigrees, he is sire of Haggis' Mr. Jaques recommends the "Punch" for into contact with the ground. In some horses, dam and her pedigree can be accepted as he has Pandora has not been and cannot be numbered.

Another point which should be clearly underpreviously imported and registered.

Criticism has been made of the action of the Scotch Stud Book authorities in issuing export certificates for animals which they must have known could not comply with the Canadian requirements, but it must be understood that any owner may demand an export certificate for an animal recorded in the Scotch Book upon payment of the necessary fee and that it is not the duty of the Secretary to do more than rake out the pedigree and certify that it has been properly recorded in his Book. He would doubtless give the required information if requested, as he thoroughly understands the Canadian standard, but it would only be an act of courtesy on his part, not his duty .-- National Live-Stock Records, Ottawa.

Clydesdale Certificate of Service Now Necessary

The National Live-Stock Records, Ottawa, forward the following, requesting its insertion.

In the past it has not been necessary when recording pedigrees to have the owner of the sire sign the application form certifying to service. All applications now forwarded to the Record Office must eithebe signed in the place provided or on a separate service

Rule of entry No. 3 of the revised Constitution adopted by the Clydesdale Horse Association of Canada at the last annual meeting reads:—"After October 15th, 1908, the owner of the sire of an animal, Sometimes the hind feet are brought to the ground \$100.00, the course the importer would take is the pedigree of which is offered for entry, shall certify obvious, so a Canadian certificate should be to service, giving date of service, with name and recorded number of sire in the Clydesdale Stud Book of Canada, signature will not be accepted unless ownership appears on the books of the Clydesdale Horse Association of Canada."

> Attention is drawn to above rule as few breeders or stallion owners seem to know of its existence, or at least, of its enforcement.

Pedigrees cannot now be recorded unless accompanied by a certificate of service signed by the owner of a sire. An important part of this rule, which if overlooked will cause both trouble and delay, is different horses. In some it is long and reaching, buy in that manner should furnish their definite that the person who signs the service certificate as owner of the sire must appear as such on the books.

No doubt it has relation with the age, length limb the force and extent of the muscular contractions in the Canadian Stud Book. sire has changed hands since his before the latter's signature will be recognized.

> Stallion owners should procure a supply of the bred to their horses. Perhaps the best time to issue them would be when collections are made for service fees during the winter, when the last date of service

These blanks will be supplied free of charge, upon application to Accountant National Live-Stock Records, Ottawa. The number required should be

In filling in number of stallion the Canadian number should be given as, if he is not recorded in the Canadian Stud Book, the pedigrees of his colts cannot be.

In 1871 in a population of 3,485,761, there were 5,624 deaths from tuberculosis in this country. In 1901, the last census year, there was a population of 5,371,315, and the total deaths from tuberculosis were 9,709. The total number of deaths from all diseases in 1871 was 46,545. Tuberculosis, therefore. was responsible for a little more than 12 per cent. of he deaths that occurred. In 1901, the same disease caused 11.9 of the total, or nearly the same percentage. About one out of every nine deaths in this country, therefore, is due to tuberculosis. The disease is rather more common in females than in males, 13.8 (17614) of the female deaths in 1901 being due to it in comparison to about 10.2 of the males.

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STOCK

Discussions on Live-Stock subjects welcomed.

A big string of Canadian raised steers and Canadian grazed Texas steers was marketed last week in Chicago. The company marketing the bunch was the Bloom Cattle Co., with headquarters at Trinidad, Colorado. The Canadian steers sold at \$5.00 to \$6.00, the latter price being the top figure by a good margin for range cattle in Chicago last week. The Texans, Canada grazed, sold at \$4.35 to \$5.35. The \$4.55 lot were old southern cattle, averaging in weight 1,442 lbs., there being some in the lot that would weigh 1,600 to 1,700 lbs. They had been pasturing here for several years, and some were eight or nine years old. The Bloom Company is satisfied with results, and believe in grazing their Texans until the age of five or six, believing that they fatten at cheaper cost and give better returns one time with another than if marketed at four years old.

Market Classes of Beef Cattle

The man who raises beef cattle in any number

thin cattle of all kinds, bulls, steers, stegs and needs they are likely to be set back at the age, heifers, may be as common in the canner class when for the food consumed they should be as cows. As a class, canners and cutters are gaining most rapidly. discriminated against more than any other. As a In weaning pigs it is a good scheme sometimes rule, they are cattle that dress low, are large in the to let them continue running with the sow putlowest grade of cattle, but they are within one of into another pen where they may be fed. The cattle markets by various names, the most com-mon of which are "skins" and "bologna bulls," the sow's rations causes a decrease in milk secreanimals of very inferior conformation and contion in her glands. The result is that both dam

"Stockers and feeders," are a very important worrying very much. class of cattle in some markets. In Chicago they form a very large class at certain seasons, and in all markets for which any considerable feeding is done, they are common. In this country they are not much met with, since few feeders depend on purchasing their feeding stock in any central market. They represent the beginning and the large American packers, rumor connecting with the end of the processes of beef production. The sale the name of Swift & Co. class may include calves, yearlings, two-year-olds or older animals. As a rule, however, stockers and feeders range in weight from 900 to 1,000 lbs., and are a year and a half or more in age. They are not cull stock or animals lacking in beef conformation, but simply thin cattle of quality ready to commence the fattening process,

Veal calves are not difficult of classification. needs to be posted on the different classes of They run anywhere from 100 to 300lbs. in weight,

paunch, heavy in the bone, and relatively very ting her on rather slim rations and giving the sparsely fleshed. Canners are not, however, the youngsters access by a small gate from her lot There is another class of stock, known in pigs will thus be changed from the dam's milk to and pigs are separated without either of them

> The Union Stock Yards, Toronto, were sold the other day to an outside buyer whose identity has not been disclosed, but who is believed to be one of the



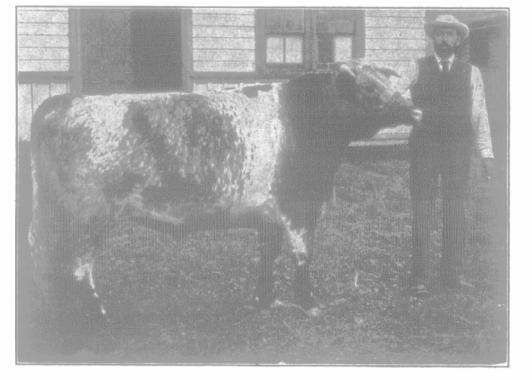
The accompanying illustration shows a hog cot or wigwam as used at the Wisconsin, U. S. Experiment Station. The cot is constructed for either summer or winter use, has a floor and ventilating system and taken all through is the latest improved type of A shaped hog per type of A shaped hog pen.

stock which he sees quoted in market reports and but weight alone is not the basis for determining 2 by 4 inches by 8 feet long for the floor. Beneath the joists are nailed 3 stringers 2 by 6 inches, 8 feet long, which serve as runners for moving the house. Next is spiked a piece 2 by 8 inches, 9 feet 4 inches long, at the ends of the joists, having the bottom of the 2 by 8 even with the bottom of the joist which will allow it to project above the floor 3 inches. It will also extend out 7 inches at each end. This 2 by 8 forms a plate to which the rafters and foor boards are nailed. The 7-inch extension of the plate at the ends supports the lower corners of the roof which otherwise would be easily split off. These 2 by 8's, besides strengthening the house, raise the rafters and roof boards nailed to them at least 3 inches off the floor and thereby materially increase the floor space and the capacity of the house

If the house is to be used in extremely cold weather an easily manipulated door is necessary. The cut shows a door 2 feet wide and 2 feet 6 inches high, made to slide up and down and held in place by cleats. It is suspended by a rope which passes through a pulley at the top and is fastened to a cleat at the side near the roof. The cut also shows two iron eyes, bolted into the front joist of the building, to which the hitch is made when the building is moved.

A rear door, identical in size with the front door, is held in place by cleats nailed across it on the inside and by buttons fastened on the outside. This door is not opened regularly, but provides ventilation in summer and aids in handling sows at farrowing time. Above the rear door is a small sliding door, 8 by 12 inches, to admit light and air.

Another important feature of this house is the ventilator, which is a small cap covering a hole at the top and the center of the roof. The hole is made by sawing off opposite ends of two roof boards and all the doors are shut, and if more ventilation is desired it can easily be secured by opening the small sliding door in the rear. This simple plan of ventilation avoids any direct drafts upon the animals and



FIRST-PRIZE YEARLING STEER, SIRED BY SHORTHORN BULL Canadian National Exhibition, Toronto, 1908. Owned, bred and exhibited by Jas. Leask, Greenbank, Ont.

exporters, dressed beef cattle, butchers' stock, classification. A choice veal calf must be fat is sufficient ventilation for two or three animals when canners and cutters, stockers and feeders, or and fancy, not too young or too old. veal calves. Under the general term, beef cattle, all these classes, and in large markets a good many more, are included.

As a rule, export cattle include good and choice stock purchased for slaughter and packing. In skim milk and shorts in a small trough of their this class there is a wider range in weight and own. At first the quantity of shorts fed should quality than there is among exporters. They be small, for a sucking pigs' stomach is not adapted may carry less fleshing and still be fit for packing to the digestion of solid food. The organs that purposes; they may be lighter in weight, pro- secrete the juices which bring about the digestion not too old that will kill out into a fair quality of fiently developed in function to manage the beef will pass as dressed beef stock.

class of cattle than any other. Butcher cattle ordinary food stuff can be handled. In pigs this may be almost anything is too old for veal, condition is reached at the age of from six to In a way they are the bye products of the cattle eight weeks. They are then ready to wean. feeding industry, the culls, perhaps, from a bunch Sucking pigs are the better for getting at of exporters, heifers, fat cows, half-fattened farm food as early in life as possible for another reason. stock, etc. Into markets where a good class of They save the sow as well as get the eating habit. fed stock is sold, the percentage of butcher stock A sow with a fair sized litter has to stand a pretty is not very great, but in markets where there is heavy strain on her milk-making resources by a very small packing demand, when the stock the time the pigs have reached the age of a month generally is either for export or local use, there or so, and unless the youngsters' rations are is likely to be a much larger proportion of the supplemented from some other source than her pieces 1 by 12 inches, 16 feet long, and 11 O.G. receipts classified under the term "butchers'." own milk supply, she is likely to be pulled down battens 16 ft. long, for roof; 5 pieces 1 by 12 inches, 16 feet long, and 11 O.G. more than is good for her before the litter can be 14 feet long, for roof; 5 pieces 1 by 12 inches, 16 feet long, and 11 O.G. more than is good for her before the litter can be 14 feet long, for roof; 5 pieces 1 by 12 inches, 16 feet long, for roof; 5 pieces 1 by 12 inches, 16 feet long, for roof; 5 pieces 1 by 12 inches, 16 feet long, for roof; 5 pieces 1 by 12 inches, 16 feet long, for roof; 5 pieces 1 by 12 inches, 16 feet long, for roof; 5 pieces 1 by 12 inches, 16 feet long, for roof; 5 pieces 1 by 12 inches, 16 feet long, for roof; 5 pieces 1 by 12 inches, 16 feet long, for roof; 5 pieces 1 by 12 inches, 16 feet long, for roof; 5 pieces 1 by 12 inches, 16 feet long, for roof; 5 pieces 1 by 12 inches, 16 feet long, for roof; 5 pieces 1 by 12 inches, 16 feet long, for roof; 5 pieces 1 by 12 inches, 16 feet long, for roof; 5 pieces 1 by 12 inches, 16 feet long, for roof; 5 pieces 1 by 12 inches, 16 feet long, for roof; 5 pieces 1 by 12 inches, 16 feet long, for roof; 6 pieces 1 by 12 inches, 16 feet long, for roof; 7 pieces 1 by 12 inches, 16 feet long, for roof; 8 pieces 1 by 12 inches, 16 feet long, for roof; 8 pieces 1 by 12 inches, 16 feet long, for roof; 8 pieces 1 by 12 inches, 16 feet long, for roof; 8 pieces 1 by 12 inches, 16 feet long, for roof; 8 pieces 1 by 12 inches, 16 feet long, for roof; 8 pieces 1 by 12 inches, 16 feet long, for roof; 8 pieces 1 by 12 inches, 16 feet long, for roof; 8 pieces 1 by 12 inches, 16 feet long, for roof; 8 pieces 1 by 12 inches, 16 feet long, for roof; 8 pieces 1 by 12 inches, 16 feet long, for roof; 8 pieces 1 by 12 inches, 16 feet long, for roof; 8 pieces 1 by 12 inches, 16 feet long, for roof; 8 pieces 1 by 12 inches, 16 feet long, 16 feet long, 1

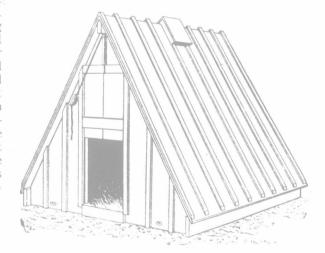
referred to generally by buyers in such terms as grades. Quality enters very largely into the covering it with a cap so arranged as to leave openings

Weaning Pigs.

By the time pigs are three or four weeks old proves very efficient. grades of steers weighing from 1,200 to 1,500 lbs., they will have learned to eat soft foods, and the well fattened and fit for long shipment alive more they can be encouraged to eat the better. without undue loss in weight and quality. They should be given access to a pen adjoining "Dressed beef cattle" is a term used to describe the sow, if it is possible to so arrange it, and fed viding they are fairly well finished. Any cattle of foods other than milk are not at this age sufdigestion of grain foods in any quantity. But The term "butchers' stock" covers a larger with use they gradually reach that stage where

The western Canadian market is very much of this kind.

"Canners and cutters" are generally supposed to refer to old thin cows only. As a matter of fact, with age and if the dam cannot supply their those used for the pieces 1 by 12 inhes, 16 ft. long, for roof; 5 pieces 1 by 12 inhes, 16 ft. long for stringers; and 4 pieces 1 by 12 inches, 16 ft. long for stringers; and 4 pieces 1 by 12 inches, 16 ft. long for stringers; and 4 pieces 1 by 12 inches, 16 ft. long for stringers; and 4 pieces 1 by 12 inches, 16 ft. long for stringers; and 4 pieces 1 by 12 inhes, weaned. It is not so good for the piece constantly increasing long, rough, for flooring. All the boards except to refer to old thin cows only. As a matter of fact,



PORTABLE HOG-HOUSE FOR SUMMER OR WINTER

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CONTROL OF BOVINE THE **TUBERCULOSIS**

(Address by Dr. J. G. Rutherford, V.S. Dominion Veterinary Director-General and Live-Stock Commissioner, before the Tuberculosis Congress, held recently in Washington, D. C.)

added to the title originally sent in by me. in some districts, under municipal and Provincial about that result. ease in dairy herds supplying various centers of popu-

CANADA'S POLICY CONSERVATIVE.

Although for some years, at a period prior to my with tuberculin upon the application of owners was carried on, no appreciable benefit was found to result, and. as a matter of fact, we now confine ourselves to the testing of cattle imported or exported for breeding purposes, those on the Experimental Farms, and a few other herds which have been placed by their owners We, however, under the direct control of our officers. tested, supply tuberculin free of charge to any reputable, qualified veterinary surgeon, on condition that he will send to the Department the results of the tests made by him, on charts which we furnish for that

those privately tested, are permanently earmarked, by

cutting a large T out of the right ear.

action, to await the results of the investigations now with the problem may be discovered.

and of their vagaries, have all along been defective and which I may say does not by any means apply in all incomplete, and undoubtedly is so to-day, and when cases, it is quite within the bounds of possibility that we bear in mind the many legislative mistakes which, a number of animals, affected to a greater or less deowing to this lack of exact knowledge, have been made in the past, it must be admitted that caution is comfourth time. This acquired tolerance to tuberculin mendable, and that, before taking any definite departis one of its most serious limitations, and constitutes mental action involving the large interests which are another difficulty somewhat hard to overcome. Let at stake in such a country as Canada, it is reasonable us admit, however, that after the lapse of a longer or that we should "look before we leap," and guard, as shorter period and a number of carefully-conducted far as may be, against the possibility of having to re-retests, the survivors of the original herd are properly cede, more or less ignominously, from a position once pronounced healthy.

Many of our medical friends, and some veterinarians whose zeal outruns their discretion, advocate compulsory testing and the slaughter of all reacting animals. At first sight, to men lacking practical experience, and, perhaps, devoid of responsibility, this policy may appear a very simple solution of the problem. That it is very far from being so, however, needs but little undiance of this not practical veterinary sanitarians, dealing in large matters, are, even without taking into consideration the painful experience of those communities which in earlier days were rash enough to adopt it, well aware, not only of the great difficulties to be encountered in carrying out such a policy, but of the fact that under ordinary circumstances, in spite of the great economic waste involved, its results are by no means so satisfactory as its advocates would like to have us believe. Most of us can remember the time when the majority of veterinarians, many of whom should have known better, believed that if a herd of cattle were tested, the reactors destroyed and the premises disinfected, the disease was stamped out, and the owner might thereafter be left to follow his own courses.

Intelligent men have, of course, understood from the beginning that there must be, in the very nature of things, a period of latency or incubation between the time of infection and that when an infected animal would react to tuberculin. This period was fixed in 1899 and 1900 by contemporaneous but entirely independent experiments, carried on by the Tuberculin Committee of the Royal Agricultural Society of England, and by Drs. Nocard and Rossignol, under the auspices of the Societie de Medecin Veterinaire Pratique of France. The results in both cases were practically the same, and showed the period of incubation, while depending somewhat upon the mode and degree of infection, to range from eight to fifty This fact, affecting vitally as it does both the original herd and any additions or replacements which cattle, in order to defeat the test, it is sufficient to many men take it for granted that everything is fair

This conclusion on my part has not been rashly lation, very little is now being done by the Federal arrived at. Ever since tuberculin was first used as a Government, through the Health of Animals Branch diagnostic agent in bovine tuberculosis, I have been siderably greater than fall to the lot of the average veterinarian.

assuming office, a very considerable amount of testing say, one hundred cattle, kept under ordinary stable Let us go a little more into detail. A herd of, conditions, is tested, and twenty-five reactors are These twenty-five animals, together with any which, owing to the disease being in an advanced stage, may fail to react, but which are detected by clinical examination, are slaughtered and the premises on the request of owners of cattle who desire them that such a herd was safe and sound, and that proalready said, since many veterinarians were teaching vided any animals added were carefully tested before being brought into contact, no further danger need be apprehended. This is, of course, very far from being the case. In the first place, a re-test after three months will, depending to some extent on the viru-All cattle reacting to tuberculin in Canada, save lence of the particular infection—a point of great importance—and the sanitary conditions, reveal, perhaps, from five to ten new re-actors. Even after these I may as well frankly state that the reason for have been destroyed and the premises again disinthis apparent inertia is that, so far, no satisfactory feeted the herd is by no means safe. The ten reintelligent method of dealing with bovine tuberculosis actors, taking that as the number, have been living has been evolved, and we deem it wiser, before taking in close contact with the remaining sixty-five, and it is quite likely that three months later several of the being conducted by veterinary scientists in various latter will be found to be affected. Here also comes Our knowledge of tuberculosis, the tuberculin test, Professor Valle's important and valuable discovery, gree, will fail to react when tested for the third or

We must now take into consideration the question of additions and replacements, one which, from a UNWISDOM OF COMPULSORY TESTING AND SLAUGHTER. business standpoint, is in the majority of instances of paramount importance to the owner. It is not enough to have the new animals tested before bringing them on the premises. The same limitations, viz., that of the incubative period, applies to such tests the matter of economic waste is only one of degree, for as those with which we have been dealing. New while the pure-bred reactors might live out their natarrivals must be isolated, not only from the original ural lives and produce much valuable, and, with propherd, but from each other, and submitted to a re test er precautions, healthy stock, the thin grades might be at the expiry of at least three months before being allowed to come in contact with any other cattle.

Two further points here demand our attention. have hitherto, presumably, been speaking of tests policy of compulsory testing and slaughter is not a honestly applied to the cattle of an honest owner, practicable one. and by a capable, intelligent and experienced veterinarian. We must now first consider some of the nefarious methods employed by dishonest and unprin-

The old method of dosing beforehand with tubercuwhen the testing veterinarian is agreeably complacent, or a few years behind his age. It has, among the more astute dealers and breeders, been largely supersafety with other drugs, to such animals as are known to be tuberculous, or which show any rise of temperafrom half an hour to an hour before the veterinarian makes his rounds, and the febrifuge, mixed with a ttle sugar and disguised in a handful or two of meal, licked up by the animal without fuss or trouble. There is no drenching, no handling, no excitement; and often is thermal irregularity, there is no distinct rise, and, above all, no tuberculin arch.

This brings us to the second of my two further may be made, is in itself a very serious obstacle to the points, viz., the veterinarian making the test. While, fresh blood from time to time, and unless a man is satisfactory working out of a policy of compulsory with all its limitations, I have great confidence in the heart and soul with the authorities in their efforts to testing and slaughter, even with liberal compensadiagnostic properties of tuberculin, I must confess to a clean up his herd, and takes every possible and minute Taken in conjunction with the vagaries of feeling of suspicion with reference to all charts that are tuberculin, especially on second, third and fourth in any degree what I may term colorless, unless I know precaution accordingly, it is, so long as tuberculosis tests in the same herds, and the numerous ingenious that the man who signs them is an honest, conscien- exists in the country, only a matter of time until his methods adopted by owners, especially of pure-bred tious, wide-awake and experienced veterinarian. Too stock relapses into a condition of disease.

THE official programme has the subject assigned exclude from the field of practical action this method and above board, and depending entirely on their me of the "Control of Bovine Tuberculosis in of dealing with tuberculosis, except in small and circular thermometer readings, allow themselves to be hood-canada." the last two words having been cumscribed communities, in which all, or at least a winked by dishonest and unscrupulous owners. I cumscribed communities, in which all, or at least a winked by dishonest and unscrupulous owners. I majority of the owners, are alive to the necessity of could go into many details, and perhaps furnish some I have but little to say on the control of stamping out tuberculosis, and are willing to co- amusement by recounting a few of the artful dodges bovine tuberculosis in Canada, inasmuch as while operate heartily with the authorities in bringing resorted to in order to keep the veterinarians away from their cattle between temperatures, so as to permit laws, efforts are being made to control the dis- LIMITATIONS OF TUBERCULIN AS A DIAGNOSTIC AGENT. of their being safely manipulated, but time will not permit. One thing, however, should be emphasized. viz., the fact that in the overwhelming majority of diagnostic agent in bovine tuberculosis, I have been cases we have, in addition to the temperature rise, of the Department of Agriculture, which is in my studying its action, and during the whole of that a distinct clinical reaction, some of the most salient period my opportunities for such study have been con- features of which may be, and often are, only temporary, while others persist until at least twenty-four hours after injection. Among the temporary signs which may be noticed, as a rule, from six to twelve hours after injection, are, in severe cases, rigors, often accompanied by staring coat, general excitation and frequently diarrhœa. In less well-marked cases we have coldness over the loins, quarters, thighs and tail, sub-acute excitation and general malaise. Even when these symptoms have passed off the animal carefully disinfected. It is not so very long, as I have maintains a standing posture, and is more or less stiffened; there is loss of appetite, rumination is suspended, and in milch cows the flow of milk is diminished.

Close attention to, and observation of, the animals undergoing the test are, in my opinion, indispensable. Even with them it is possible for mistakes to be made, without them the tuberculin test is very apt to be badly discredited. The older veterinarians here will recollect that, prior to the discovery of tuberculin, much attention was paid, both by teachers and practicioners, to the clinical diagnosis of bovine tuberculosis. Of late years this phase of practice has been almost entirely lost sight of, the younger men practically depending on tuberculin as a diagnostic. state of affairs is regrettable, and should be remedied by cultivating, with regard to cases of tuberculosis, countries, in the hope that some better way of dealing into play the uncertainty of tuberculin in repeated that habit of painstaking observation which alone tests—a most serious consideration. In spite of makes for success in the diagnosis of most of the other maladies to which dumb animals are subject.

ECONOMIC WASTE OF COMPULSORY SLAUGHTER

I might, perhaps, explain that the foregoing remarks on the necessity of care and exactitude in makng tests are intended to emphasize the idea that only skilful and specially-trained men can with safety be employed in this work, no small difficulty in itself, when it comes to undertaking a universal and compulsory testing policy. There is still more to be said against compulsory testing and slaughter. Many reactors are but slightly affected, and while, in the case of beef cattle in good condition, the loss from their slaughter may be insignificant, it is a very different matter when valuable pure-bred herds, or even common grade stock, thin in flesh, are condemned. It is true that with the latter the question of compensation may be more easily settled than with the former, but fattened and slaughtered under careful purposes of human food. For the reasons given above I am convinced that, at least on any large scale, the

QUESTION OF VOLUNTARY TESTING

Turning to the policy of voluntary testing, or testcipled owners to nullify the test and so defeat the end in view.

ing in response to applications from owners, now followed in parts of the United States and in several of the countries of Europe I would point out that not only lin, although still followed in many herds, has largely do most of the arguments against compulsory testing lost its value through the discovery of Professor Valle, apply to it with equal force, but several other factors above referred to, and is now, as a rule, only employed come up for consideration. Among these, perhaps, the most important is the fact that in testing only those herds in a country that are voluntarily submitted to the authorities, the progress made in the seded by the practice of administering one or other of direction of eradicating tuberculosis must, of necesthe modern antipyretics, combined for the sake of sity, be not only very slow, but very uncertain. Professor Bang admits that, under the experience of repeated and often disappointing tests, the patience ture when undergoing the test. This plan is beautiful and courage of our Danish friends not unfrequently in its simplicity. Temperatures are quietly taken fail, and they become weary of well doing and relapse into carelessness. This phase of the matter is one which must be taken into account, and when with it is considered the fact that the last to ask for the test are, as a rule, the breeders of pure-bred stock, whose the temperature drops, and although there may be herds are the principal agents in disseminating disease, the ultimate ineffectiveness of voluntary testing is pretty clearly demonstrated. Owners must obtain

(Continued on page 486)

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FARM

Comment upon farming operations invited.

Alfalfa from the Chemist's Standpoint

With the increasing popularity of alfalfa as a fodder crop comes an increasing desire to know all about this plant, which already has done much for agriculture, and which promises to become a most prominent factor in improving soil, as well as in providing desirable feeding material in large quantities. At an Institute meeting at Fort Atkinson, Wisconsin, Prof. E. B. Hart, in discussing the chemical value of alfalfa, gave figures that place this crop very high in the list of those commonly used in feeding stock. Dealing with economic values, the Professor, touching on useful and non-useful or digestible and non-digestible constituents, showed that proteids in particular were necessary for life, for the building up of the animal, for fleshforming, and for taking part in all living processes It rests upon this fact, that when the alfalfa is about of the animal body. It is a characteristic that most one-tenth in bloom, or just coming into bloom—the farm crops are low in this material, so low that when time you are advised to cut it—it is then, everything fed alone they do not produce normal development, necessitating so often the purchase of large quantities content is high, sugar and starch content are very of concentrated materials—such as oil meals and wheat high, and the indigestible food fiber, the material that bran—as supplementary feeding materials. There is is of little use to the animal, is relatively low. no trouble on the farm in making plenty of starch, sugar, fat and crude fiber, but it is a selected crop that is rich in protein.

When a farmer asks of the plant what does it do for me, is it making me an abundance of food material?" says Professor Hart, "he is asking that plant a proper question, but it is only by a proper selection of certain types of plants, whose power to produce protein is a large one, that he has at his command the power of increasing the protein production on his in bloom, it contains 18.5 per cent. of protein; when

"Following are the food values of several ordinary farm crops in relation to useful digestible food prod-

CLC CLS .					
		Yield	Dry	Total digestible	
	P	er acre.	matter	matter.	protein
		Lbs.	Lbs.	Lbs.	Lbs.
Alfalfa		34,100	8,000	5,280	875
Corn		30,000	7,500	5,025	360
Red Clover		18,000	5,200	3,200	491
Oats and Peas	,	13,000	3,120	2,521	350
Timothy		10,000	3,500	2,000	228
Rutabaga		31,700	3,400	3,000	278
Mangels		25,000	3,500	2,750	213
Sugar Beets		17,800	2,500	1,800	213

"Although in several cases the total digestible dry matter may be nearly alike, the alfalfa ranks highest among the forage plants in power to produce digestible protein. Even with red clover, which belongs to the same family as that of alfalfa, the yield is not so great, and, consequently, the amount of protein per acre that will be produced is not so large. Can you understand, then, why we emphasize the growing of ents, such as starch, sugar and fats, are likewise in some alfalfa? When we follow the table further we higher proportion in the leaves than in the stems. find that sugar beets, mangels and rutabagas, under but when you have 100 parts of crude fiber in the areas. Consequently, when the leaves and debris favorable conditions, often yield as much digestible dry stem, an equal weight of leaves will contain but about from this plant accumulate on the surface of the soil, matter as alfalfa or corn per acre, but with a comparatively low content of digestible protein. There is nothing in the forage line that equals alfalfa in this coming into bloom is good philosophy, because it is

It was claimed that five tons of well-cured alfalfa hay contained about the same amount of protein as forty tons of timothy hay, and also about the same as four and a half tons of bran. When it is considered that bran runs from \$20 to \$25 per ton, the value of alfalfa looms large.

"In the State of Wisconsin," said the speaker, "farmers spend as high as one million dollars for wheat bran every year. This is a conservative esti- sugar dissolved out. The sugar has simply been taken the soil with those plant food elements necessary for mate, and the fact that you buy wheat bran and other into solution by the water. This is also true of other the crops that follow. But I do not want you to beconcentrates, like cottonseed meal and linseed meal, for their protein content, emphasizes the importance of the high place alfalfa should take among the feeding material grown on the farm.

"I have emphasized the great productive power of and the more water the greater the proportion that for protein would stand:-

														en prairie
												h	ay	is worth
Feedstuffs	,												\$3	per ton.
Alfalfa Hay (average).														\$ 9.08
Red Clover Hay														5.82
Timothy Hay														2.48
Corn Fodder (stover)														1.71
Oat Straw														1.37
Alfalfa Hay, containin	g	1:	2.	9	%)	d	ig	e	st	il	51	е	
protein														11.05
Wheat Bran														10.53

CUTTING AND CURING ALFALFA "Others have told you all about cutting and curing this great crop, but I want to give a few chemical reasons for the procedure that should be followed in the cutting of alfalfa. It rests on a chemical basis. considered, at its highest feeding value. Its protein

"As the plant grows older, the crude fiber increases in amount at the expense of the sugar and starch, until you have, approximately, 2,500 pounds per acre of this indigestible material, while if you had cut it back at the proper time the amount of fiber would have been materially smaller. So this is the point I want to emphasize to you, that there is a chemical reason, and a very good one, for cutting your alfalfa in the early stages of bloom. When one-tenth one-half in bloom, 17.2; while in full bloom its content of protein is 14.4.

"Another interesting feature about this alfalfa nitrogen in the soil. As a matter of fact, it leaves plant is the relation of the stem part to the leaf part. The comparative relation of leaf to stem is greatest in nitrogen in the soil. the early part of the plant's history; at that time, for example, for 10 parts by weight of stem there is 73 parts by weight of leaves. In the late stages for every 100 parts by weight of stem there is approximately 49 parts by weight of leaves, and the leaves are the best part of the plant. It is in the early stage of the plant's growth that your cow or your pig will find in this plant its highest nutritive value. the plants keep growing its stem parts are increasing in greater proportion than is the increase in the leaf content, and in the early history of the plant the proportion of stem to leaf is less than it is in the later history of the plant. The reason I emphasize is this that the leaf is the most nutritive part of the plant, and contains a large portion of the protein.

"For instance, for 100 parts of protein found in the stem, in an equal weight of leaves you will find 250 parts of protein. The very useful nutritive constituents, such as starch, sugar and fats, are likewise in of the leaf.

The use of the cap in curing alfalfa hay also was "This point," he urged advised by Professor Hart. rests upon a chemical basis. When you grow sugar beets and harvest them and take them to the factory, they are ground, placed in water, macerated, and the from the deeper layers and enrich the upper layers of plant tissues. There is not a plant grown that does lieve that alfalfa, or any legume, is a panacea for the not suffer some deterioration by water-soaking. The restoration of all soil fertility. Alfalfa obtains part more easily soluble, and, often, consequently, the most of its nutrition from the soil, while a part of it does useful materials dissolve in the water and run away, come from the vast sources of nitrogen in the atmos-

alfalfa. If we should allow, for example, on the basis dissolves out. So in making alfalfa hay, it should allow for their protein content, three dollars per ton for prairie hay, what would be the value of some of our other feeds? On such basis the comparative values should be exercised in proper curing. It is a waste of time and money not to do this. Below are some feeling and money not to do this. time and money not to do this. Below are some figures
Value per ton that actually show what will happen to alfalfa under the action of rain:-

Hay	not damaged.	Hay damaged
Ash Crude Fiber	12.2%	12.7%
Ether Extract Nitrogen Free		$\frac{38.8\%}{3.8\%}$
Extract	38.7%	33.6%
Protein	18.7%	11.0%

"This table shows how the hay was damaged and the losses it sustained. It shows that the hay that was damaged has practically lost in such things as the sugar and starch; the things that easily pass into solution, and that the protein content has been very materially reduced by the exposure. Under the best conditions of handling your crop, you will probably lose one-fifth of its weight by loss of leaves, so that if you have a five-ton crop, you will probably lose one ton, which is left on the acre of soil. Care, then, in its mechanical handling should be given proper consideration.'

ENRICHING THE SOIL

The question of benefit to the soil in adding nitrogen, and in bringing other plant foods from the deeper soil nearer to the surface also was discussed In this regard, the Professor said:-

"I have not any data at hand to show exactly what alfalfa will do in adding nitrogen to your soil, but I have some data on clover, a plant belonging to the same family as alfalfa, which will do. Remember this principle, farmers, a plant grows because it gets its food from the soil, and the food materials that are most liable to be lacking in our ordinary soils are nitrogen, phosphoric acid and potash. This class of plants, to which the alfalfa belongs, has the power of taking its nitrogen from the air, and, consequently, builds itself without drawing upon the source of nitrogen in the soil.

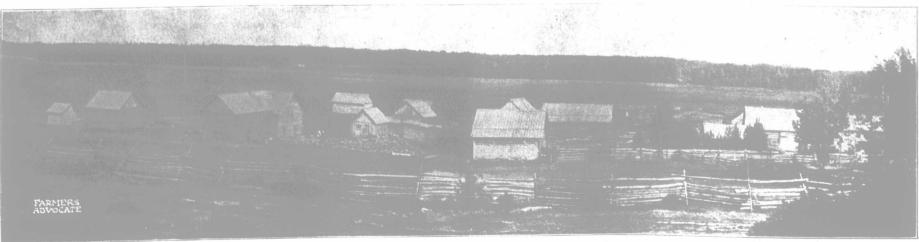
"Here is a table showing what a member of the legume family, one of the clovers, did for a soil at a Canadian Experiment Station:—

	-44	all Co	-	. 1	Ι	.1	OS		per acre
Before experiment									533
After two years									708
After four years									749
After five years									841
Increase in five years—				٠.		٠		,	308
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The soil content at the beginning of the experiment contained 533 pounds of nitrogen per acre. After growing the crop for five years, and then subjecting the soil to another analysis, it was found that it had actually increased the content of the nitrogen by some In this same class lies 300 pounds per acre. alfalfa, with its power of enriching the soil by adding

'Another point is that by its long root system it feeds deeply and secures its food from the lower soil richest then in its most useful constituents, and the which act in a measure as a top dressing. Conseproportion of leaf is greatest to the stem-a fact never quently, when you break up an alfalfa sod and plant to be lost sight of because of the high nutritive value it to wheat, oats, potatoes, or corn, you generally have increased growth, due in part to having increased the upper layers of a soil which the plant food elements brought from the lower depths.

"By this accumulation near the surface, such substances as potash and phosphoric acid are brought



HOMESTEAD OF SHERIDAN LAWRENCE, PEACE RIVER, ALBERTA

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emphasize:saves expense bills for concentrated feeding materials. less intense. "2.—It is richest in useful nutrients for the earliest

stage of growth, when it is just coming into bloom.
"3.—Its proportion of leaves to stems is also feeding value. "4.—Rain dissolves out the useful nutrients.

"5.—It adds fertility to the soil, fifteen to twenty dollars' worth per year per acre in nitrogen, and brings potash and phosphoric acid nearer the surface.

taining permanent fertility in the soil these must either hedging. be returned in the well-preserved manure, or supplied by the purchase of commercial fertilizers."

The Functions of Speculation

Speculation is the fly-wheel which imparts to the most advantageous channels. Professional specuevent which, immediately or mediately affects supply or demand. Speculation anticipates price-determining events to such an extent that it relieves the producer from the risk of growing wheat that he may prediction. be obliged to sell below the cost of production on acwithout great risk of loss.

is made to the great scope of his influence, it must be and milling interests, will continually reduce the adaptability of certain feeds for milk production, cannot continue long in his position of importance lative markets of the world, perhaps to the extent of unless he solves the might world problem that is finally eliminating it estimates in the specuunless he solves the mighty world problem that is finally eliminating it entirely.—P. T. Dondlinger, ever presenting itself—the problem of providing Ph. D., in The Book of Wheat. bread for the non-producers of wheat. Eminently practical and clearheaded, his future vision is as keen and penetrating as was that of the prophets of old. He is necessarily a cosmopolite, and he knows the traits and needs of many races. His facilities for the progress of harvesting in Australia and Argen-The transportation companies give him reguchange of price in the principal markets. He has an is the beginning of life. intimate knowledge of the visible supply of wheat that is stored in the world's great terminal elevators, and of the wheat that is being transported in car and vessel. His eye is always on the fine wavering ratio line between supply and demand, and from its movewill advance him money at the lowest rates on elevaor certificates in larger proportion to their value than they will on the safest real estate.

Achanges that it was and is little understood. Its fourth generations. a scribe many evils to it with which it has no conection. "The Modern system of futures" has
roved itself a convenient scrapegoat for all evils of
the grain trade. It is absorbed by the script of the grain trade. It is absorbed by the script of the grain trade. It is absorbed by the script of the grain trade. It is absorbed by the script of the grain trade. It is absorbed by the script of the grain trade. It is absorbed by the script of the grain trade. It is absorbed by the script of the grain trade. It is absorbed by the script of the grain trade. It is absorbed by the script of the grain trade. It is absorbed by the script of the grain trade. It is absorbed by the script of the grain trade. It is absorbed by the script of the grain trade in the grain trade in the script of the grain trade in the e grain trade. It is charged with being the cause any disease, or from the insect pests; for the seed may low prices and of high prices, with increasing trade carry the diseases and the pests to the next general, ch. Succulent food of some kind in winter feeding in

phere about us. By growing legumes, there is no risks, and with diminishing them until there is no 6th. Thou shalt not take seed from a plant grown question but what we can save ourselves the expensive chance for profit. A few years ago the farming class on a soil which is dirty or poorly cultivated for an bills incurred by the purchase of high-grade, nitro-clamored for the suppression of the speculative exhausted soil cannot produce a plant bearing seed genous fertilizers. But the source of potash and market, while recently the Kansas farmers started a of good germinating power.

phosphoric acid in this plant, as well as lime and other movement to contribute a cent a bushel on all their of the plant that the seeds from plants for the plant of the plant that the source of potash and market, while recently the Kansas farmers started a of good germinating power.

7th. Neither shalt thou take seeds from plants necessary elements for the plant's growth, has been wheat to a fund for the benefit of the most daring grown upon soil which has been too heavily manured the soil."

wheat to a fund for the benefit of the most daring grown upon soil which has been too heavily manured the speculator of the Chicago market. As the functions or cultivated; for luxuriance is always the parent of "Following are the important points I wish to of modern speculation are better understood, its vice. Therefore, give thou preference to plants that advantages become more apparent, and the specu- have grown and done best under natural farm conlator is looked upon as something more than a ditions, for such produce the best offspring. "1.—Alfalfa produces large amounts of protein and mere gambler. Opposition becomes more rational and

GENERAL RESULTS OF SPECULATION.

The speculative grower who held his wheat until of selling the best grain and using the poorer for seed. greater at that time, and consequently, enhances its it seemed an opportune time to sell was the farsighted conservative man of the first part of the nineteenth centuary. Conditions have so changed that, unless there is a lack of transportation facilities, or lack of competition among buyers, he is the great- and thy seeding is in vain. est and most reckless of all speculators, if the degree "6.—It removes phosphoric acid, potash, and other of recklessness. Even many of the large milling and the beginning of winter, and the seed is feeble. On essential plant elements from the soil, and for main- elevator companies insure themselves regularly by the other hand, thou shalt not collect the seed too

tion, fluctuations in the price of grain have been of smaller extent, comparing year by year. Such fluctuations as do remain are changes of a more prepared land. gradual nature, and the gradations are much finer. For example, wheat was formerly quoted in fourths have pleasure in thy crops and profit in thy work. modern commercial machine a motion so uniform of a cent a bushel, while now it is quoted in sixteenths that all of its parts operate continuously and sim- of a cent a bushel. A half century ago, traders reultaneously. As men produce and consume, as well quired a margin of 10 cents a bushel, for carrying as exchange, according to comparative prices, it also wheat, now the margin is two cents. With the directs the consumption of commodities into the minimizing of risks, profits for carrying them fell. In part these changes are doubtless the result of lators are the men best equipped for securing and in- other concomitant developments, but there is no terpreting news of variations in supply and demand, question of their being chiefly due to the development of speculation. As to the agreement of present variations, prevails throughout the wheat industry prices of futures with future cash prices, little, if any, increased accuracy of prediction is shown. While of the entire world. Price, in turn, is a sensitive increased accuracy of prediction is shown. While barometer which records the influence of every there have been improvements in the methods of speculation, there has also been an increase in the size and complexity of the world's wheat market, a factor which would tend to decrease the accuracy of

count of an unforseen change in the market. The crease the amount of business done upon the exdirective control exerted through prices "is its ser-vice to society in general." The "risk-bearing variations. This tendency of prices to remain more function is its service to trade as such." That the steady will be increased with the further concenneed of speculation is proportionate to the magni- tration of commercial wheat interests. A similar tude of the risk element is axiomatic. Through the development has taken place in the case of other speculative market flows a continuously moving commodities, such as oil and pork. In these comstream of business which will carry the risks of mer- modities prices are practically fixed by a small group end, and to the maintenance of the body without chants, producer, manufacturer and consumer alike, of men who know and in a measure, control supply and at any time and place. Speculation alone and demand, and there are few price fluctuations left makes hedging transactions possible. By its anticipations, it lessens price fluctuations. The short seller is the most potent influence in preventing wide fluctuations in price, for he "keeps prices down by crease with the growth of population, and less actual wheat sales and their former magnitude. Local consumption of wheat will influctuations in price, for he "keeps prices down by crease with the growth of population, and less actual wheat sales and there are few price fluctuations left to serve as a basis for speculative dealings. Consumptions of wheat will influence in preventing with the growth of population, and less actual wheat sales and there are few price fluctuations left to serve as a basis for speculative dealings. Consumption of wheat will influence in preventing with the growth of population, and less actual wheat sales are the price fluctuations left to serve as a basis for speculative dealings. market, and large stocks of wheat can be carried certain to be reflected on the speculative exchanges. the cows require for milk production. He needs over from a season of abundance to one of scarcity The opportunity for men to indulge their gambling to know something of the relative value of differproclivities by means of the bucket shop; the grow-The American is unquestionable the greatest and ing prosperity of the country; the increasing steadimost typical of all wheat speculators. The stuness of the price of wheat on account of the growing periodic undertakings which he appearance and of the speculative machinery and of the

The Farmer's Ten Commandments

seed bequeath equally their good points and bad points the ingredients he is feeding them. acquiring information are unsurpassed. He knows their virtues and faults, to their offspring, and that it is incumbent on thee, not only for thine own profit, Telegrams and cablegrams give him immediately the shalt thou do thy best in this matter for "the seed In winter feeding of cows, succulence in the ration

as outwardly bear the stamp of being true to their to all other foods for milk production, and that The so can the character of a plant be seen. Grow thy position, will his success be measured in producing

which yield seeds that in their turn produce early

8th. Thou shalt not gather seed from those plants which ripen latest; the first and best fruit yields the best seed. No procedure is more foolish than that

9th. Thou shalt not sow any seed until its germinating powers have been tested. Thou shalt see to it that special care is given to testing oats, barley and the grass and clover seeds, lest they fail to grow

10th. Gather not seed from late ripening soils, of ignorance under which he is operating is the test for then the seed does not ripen sufficiently before soon nor before it is thoroughly ripened. Its Statistics show that since the advent of specula- productiveness and quality for seed thou shalt further insure by heavy fanning, thorough treatment with formalin or bluestone and early seeding on carefully

Hold thou by these commandments, so shalt thou H. M. Sask.

DAIRY

Fundanmentals in Feeding Dairy Cows

The first requisite in successful feeding, providing the man is all right, is the cow. Given an individual with a good development of the milking function, and with a properly proportioned The increasing uniformity of price tends to de- milk-making equipment, the skill of the feeder is manifested in his ability to supply her wants most perfectly. Skill in feeding a herd of dairy cows consists in so compounding the grain and fodder ration that the cow will be held up to the maximum point in production, and at the same time, all the nutrients supplied be utilized to this undue loss. The feeder has one other consideration. He should so arrange his feeding ration that the nutrients shall be supplied in the most inexpensive form. That is, he should have such knowledge of the composition of feeding stuffs, short sales and then keeps them strong by his covering purchases." The producer always finds a ready export markets. The force of these influences is those that will supply most cheaply the ingredients ent feeding stuffs for milk production, and, knowing that, to arrange to use those that will produce pendous undertakings which he sometimes assumes are characterized with an importance, as well as with a boldness and brilliancy, that excites world-wide interest. He is practically the manager and director of the world's wheat movement. If objection is made to the great scene of his influence it must be logical requirements of individuals being fed for certain purposes. The whole makes a subject really too large to be treated briefly. It requires a bit of close study on the feeder's part, a know-1st. Reflect thereon that the parent plant and ledge of the individuals he is working with, and

For the economical conversion of food into milk the character of the food, as well as its composishare towards the improvement of plants. Therefore tion and 'digestibility, requires consideration. 2nd. Thou shalt gather the seed from proper plants on the assumption that green grass is superior species, for the characteristics are evident to the eye. in proportion to his success in compounding a As a man's breeding can be judged from his features, ration approaching grass in succulence and commarkets make wheat so liquid for him that the banks seed separate from the main crop harvest, thresh and milk from his herd during the winter season. tific explanation of the reason why such should be the case has yet been given, that grass dried Therefore thou shalt not collect seed from plants in the sun, while it gives up nothing but the mois-The modern speculative system is of such recent which have run to seed before due time or in any other ture it contains, will not produce the same results rigin, and its operations seem so complex to the way are not satisfactory, for the faults, no less than when fed in connection with water, as it will when ordinary layman who is unaquainted with produce the good qualities, are passed on to the third and consumed in a green state. Its composition, so exchanges that it was and is little understood. Its when generations.

4th. See also that thou takest the seed from plants it is made into hay as it is when green. It is without an understanding of speculation, it was easy without an understanding of speculation, it was easy of the best quality. feeding value is due to lessened palatibility and toughened cellular fibre. At any rate, it less valuable than grass for milk or flesh production.



RED DEER CREAMERY.

a first necessity. In this country, where silage doesn't seem to have any impression upon him. is hardly used at all in winter feeding, succulence may be gained by feeding roots. Clover and alfalfa hay, also, though no more succulent by nature than ordinary hay or green cut grain, seem to add something to a ration which other roughage does not. What they add is in part due to the large amounts of proteid nutrients they contain, but they seem to add something also in the way of succulence to a ration that is out of proportion to their moisture content. It is probable that some of the value of clovers as a winter fodder comes from their palatableness.

This question of the palatableness of the various grains and fodders in feeding opens up another field of inquiry, a much more difficult one than the mere question of the composition and digestibility of feeding stuffs. Two feeds may compare most favorably in regard to their percentage composition of the necessary ingredients and in regard to the digestibility of those ingredients, but the degree in which they are agreeable to the taste of the animal influences very largely their value to the individual for any certain purpose. Palatableness stimulates the appetite, relish for food is conducive to good digestion. The taste, therefore, of food tends to promote a state of vigorous activity on the part of the digestive organs. The agreeableness of a food's flavor is, without doubt, an important factor in successful feeding.

Balancing a ration does not necessarily mean that it is compounded of the best possible materials, and is in the best possible form for the economical production of milk or other animal products. Standards may be set up for the feeder's guidance, experiments more or less scientific and unrelated to actual feeding may demonstrate certain principle which it would seem proper to follow in the feeding of animals, of dairy cows especially, but, after all, it is the individuality of the animal, its capacity to consume and its ability to produce, the effects of food upon its health and condition, upon its appetite and taste, that are the real vital factors in the problem of feeding.

Average Farmer and Dairying

The person who could succeed in getting up some scheme of interesting the average farmer in the dairy business would be entitled to have his name enrolled among the benefactors of the human race.

ment it is not as much so as it might seem before it is to bring the butter, and the maker is often a good does not appear too thin, a little water at a tem-

The average farmer today is a dairyman just be- them. cause he happens to be. He did not go into it premeditatedly, he just drifted into it. He found himself with a few cows and a little more milk and cream on hand than his family could consume and he sold it, and he probably gave no thought to whether it was a smaller in size than they were earlier in the lactatrouble to look up the price, or the test.

character of the raw material that is coming to the regard to ripening, though ripening troubles are



CHEESE FACTORY AT ERSKINE.

farmer wants to own all the land that joins him, and undertakes to farm it all, he isn't going to pay much attention or take much interest in dairying.

Occasionally there will be a farmer who appreciates what dairying means to his soil, to his family, and to his posterity and he will be interested in dairying. He will be a dairyman, and of all the cream. Of course if he has some roots, clover hay farmers in his community he will be the most success-

Just what is going to be necessary to interest the average farmer in dairying is pretty hard to tell. One thing is certain, he cannot be driven into it. It also seems that he cannot be persuaded into it. The example of a successful dairyman neighbor

Just so long as present conditions prevail—that is, so long as the present high prices of grain and meat and if we can believe the economist who studies the future, we are never again to see cheap grains or cheap meat products.

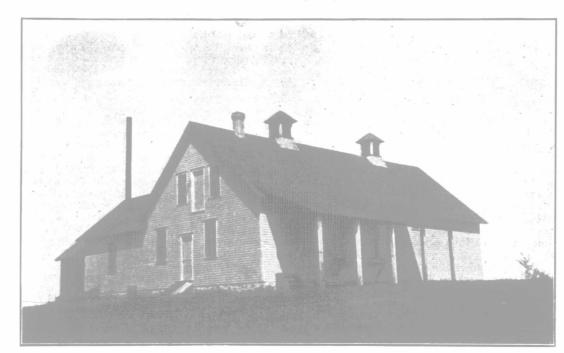
Population, they say, is increasing so fast and is becoming so centered in the cities; our manufacturing enterprises are becoming so great, requiring such a products will always exceed the supply

If this should be the case there is but little danger that any person will ever have his name enrolled as a public benefactor for interesting the average farmer in the dairy industry. - Chicago Dairy Produce.

Extensive farming and dairying don't go together. diet, or something that will cause them to give It takes small farms and intensive farming to make more milk. Succulence may be added to the good dairymen. Just as long then as the average feeding ration in the form of roots, but in the majority of the cases where troubles of this kind occur there are no roots to feed. Neither is there much of anything else that will serve the purpose. About all the dairyman can do in the circumstances, is to attend carefully to the ripening of his and bran, he can work up a feeding ration that will overcome winter churning difficulties pretty effectually, but if he can't get these feeds there is not much use explaining what might be done if he

The viscosity of the milk may be lessened by bringing about a vigorous lactic acid fermentation in the cream, and in extreme cases by diluting the cream with warm water or weak brine. Care products continue, he is going to be a hard man to must be taken not to carry the dilution too far, interest in anything but the raising of these products; else trouble quite as serious may result from else trouble quite as serious may result from going to the extreme in the opposite direction, that is, by making the cream too thin. The cream as it is gathered should be mixed, placed in a can or crock until sufficient has been gathered for a churning, and then raising the temperature to vast army of workmen, all of whom are consumers of about 70 degrees. It should be held at this point these farm products, that the consumption of them until there is a good acid development—until the has outrun their production to the extent that it will cream is sharp and sour to the taste. Then by never again catch up; and that the demand for these bringing it to a temperature of about 65 degrees or higher if it seems necessary, the butter should form in the usual time

The attempt should not be made in winter, especially if the cream is from the milk of farrow



CREAMERY AT STETTLER, ALTA

Winter Churning Troubles and how they may or stripper cows, to churn at the lowest possible

the winter season. These usually manifest the best thing to do is to take the cream out of the While this may seem to be an extravagant state- themselves in a lengthening of the time required churn and heat it up ten or fifteen degrees, or if it

caused by the fact that the cows have been a long to lessen the viscosity in some way and facilitates time in milk, the fat globules are consequently the formation of the butter granules. good product or not. He sold it simply because he tion period, making it more difficult for them to found out he could, and he probably never took the coalesce and form the butter granules, and in addition, the fat of cows advanced in milk, or of As long as the average farmers are as indifferent farrow cows, is harder, and has a higher milking as this, we can look for but little difference in the temperature. There may be some trouble in less liable to occur in winter than in summer. It is easier to obtain the cream in good condition to start with, and further the low temperatures of the when he goes into the poultry business. If he is season are unfavorable for the development of wise and has had any experience in poultry keepthe organisms that cause the most serious trouble ing, he will have only one object in going into the in summer. When any reasonable care is exercised in handling the milk and cream, troubles specialization in industries. In poultry keeping due to improper ripening need not necessarily as well as in other things, and he who keeps his occur. To the cows and the character of the food energy from which milk is made, may be attributed most will likely attain better results than if he attemptof the churning troubles of the fall and winter ed to a read himself over several lines in the same

relatively speaking. The cream becomes highly if he viscous, that is, it is sticky, adhesive, and proglutinous in character. The natural course to be follow is to be the cows on a more succulent

short of the breaking point and further agitation There are certain churning troubles peculiar to fails to bring any more of it. If this results, about deal perplexed to know exactly how to deal with perature of 85 or 90 degrees may be added. Another way to bring butter in cases like this is As a general rule churning trouble in winter is to add a little dry salt to the churn. Salt seems

POULTRY

Poultry Keeping as a Business

A man may have one or several objects in view and means centered upon one line of work A man going into poultry, if he is going Cows that are far advanced in lactation and fed into a for computered burrows, for the production dry fedder give milk the fat of which is hard, tion of cass and reality products, is well advised se made a specialty of the it sines, and does not try compaire, and some men can o give

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fancy stock, but the majority of them cannot.

A man going in for poultry keeping has one of two objects in mind. He is either going into it for profit, making it a business undertaking from of the grain that would be required for one year, fed which money is to be made, or else he is going to two-thirds wheat and one-third oats. Give list of keep a few fowls for pleasure, to supply his family with eggs and meat, or to produce a few fowls for fancy or exhibition purposes. He is not very particular whether or not he makes any profit from his investment and work. When one looks the country over he might be inclined to think that a majority of those keeping poultry are of this latter class. And, as a matter of fact, there is going into the poultry business I might say that are quite a few of this kind. Farmers, in this with reference to the cost of a poultry house 300 feet this latter class. And, as a matter of fact, there country particularly, do not keep fowls for the by 20 feet, that I would think it decidedly unwise to profit made from them, but largely for the poultry products required for family use,

Poultry keeping, if one wishes to go into it as a business, will yield large returns, providing it is shine to penetrate, if possible, to the roosts and drop managed properly. To handle a large business have good business judgment, a natural aptitude the poultry business in a practical way for comdoes not need to be an expert at the start, he can pick up the business end fairly easy, but he does need to be a reader, a thinker and a learner. Few of those who are into poultry extensively to-day nad much expert knowledge of the business class poultry house. The general specifications of success of requires capital and a thorough practical when they embarked in it. They came to a this style of house are 8 feet studding at the front, knowledge of poultry keeping. My advice to your knowledge of the work and learned the business methods necessary for its successful management as their establishment grew. As a rule, too, most poultry men start with limited capital. Probably it was just as well their capital was small for few men are entirely ambitionless, and if a man has enough faith in himself and confidence in the business to go into it at all, he might be tempted at the outset, if he could command the means, to embark in the enterprise on a larger scale than his experience and expert knowledge would justify him. It is well to start a little slow. Fortunes can be figured pretty rapidly in the poultry business, but they come far short of realization, unless the man who does the the figuring can manage a poultry establishment as well as cipher.

There are several branches of poultry. If a man is going into it as a business undertaking, he wants to combine two or more different lines so as to have a steady source of income during the entire year. If he goes in for pure-bred stock alone, for example, his sales will be limited to alone, for example, his sales will be limited to 12 feet apart, each pen having a capacity of from 25 about four months of the year. It is the same to 30 birds. The partitions are solid board to the with the other branches. If a steady return is roof where the roosts and drop boards are located required, and a living to be made from the busi- with 2 feet of board at the bottom and 4 or 5 feet ness, combination is necessary. In a general wire above for the balance of the partition. way, eggs and meat production make the most practical combination. Eggs are produced during the winter when they are high in price, incubated during the early spring season and the poultry Accepter has a steady source of revenue coming in during the geater part of the year, though there will be some months when, if he is into hens alone, his income will not be a sufficient protection for the average Canadian climate. I would suggest that the inside of the studding on the harvest by the sale of eggs for hatching. If the stock is pure-bred this is readily accomplished. Then, again, poultry keepers in the neighborhood of city markets sometimes run ducks in addition to the regular line of hens, and tide themselves over the slack summer season by selling early hatched ducks. There is always a good demand for this class of poultry near large cities, and in the early season good profits are made.

The best advice that can be offered a beginner in poultry is to go a little slow, master first the details of the work, learn to manage a large business by first demonstrating that a small one can be handled successfully, and never overstep very much the limits of your own experience. The best way is to proceed as if you had no capital other than the profits from the flock.

Building and Equipment for a Two Thousand Bird Plant

EDITOR FARMER'S ADVOCATE:

As I am thinking of going into the poultry and dog siness I would be greatly obliged if you would adly answer me the following questions through columns of your valuable paper. What would cost to erect a building 300 feet long and 20 feet What height should such a building be? I end running a litter and food carrier track down where the building is to be constructed. ugh the building in the highest part. I estimate

combine a market business with the breeding of as to prevent crowding. House (no floor) to be built modation for poultry from 5 to 6 square feet of floor in the same manner as interior? Give rough estimate better results would follow from this plan. things required for a 2,000 bird plant—incubators, brooders and size suitable to use. What size of incubator house? Describe size and shape of kennels for 20 dogs, collies and Newfoundlands. Where shall A WOULD-BE POULTRYMAN.

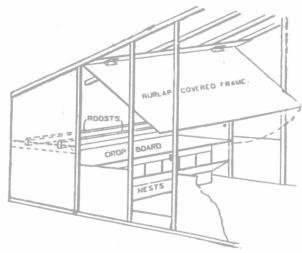
In reply to the enquiries of your correspondent who give such plan of house any consideration from the act that a poultry house 20 feet wide is not practical. The essential consideration in constructing a poultry house is to so arrange it as to allow the rays of sunboards which are located at the rear of the pens. successfully a man requires to be an expert, to take it that your correspondent proposes going into for the work, and a willingness to learn from his mercial purposes, combining convenience and the own experience and the experience of others. He most satisfactory conditions for the birds. For a purgose of this kind I would recommend a practical and economical poultry house, one recognized by poultrymen in general under the name of "the single style of resulting in persons undertaking it with the idea that cheaply as any and has all the essentials of a first into it. It is an industry by itself and to be made a

15.0,

CROSS SECTION OF SINGLE STYLE OF POULTRY HOUSE.

4 feet 6 inches studding at the rear, the width of the house 12 feet. The pen partitions are usually placed the front of the pen in which the litter and food from British possessions abroad. carrier, suggested by your enquirer, could be successfully operated.

I am afraid, however, that one thickness of shiplap his income will not be very much. During the ends and rear walls be sided up with shiplap, and on pounds of leaf per year. Home consumption supspring and early summer, no return can be ex- the outside of the studding throughout the building plied entirely with domestic tobacco would absorb pected unless he can supplement his winter egg shiplap, paper and some suitable drop siding be used. harvest by the sale of eggs for hatching. If the This I think would make a much more satisfactory poultry house particularly for the securing of winter eggs which should be an important factor.



INTERIOR VIEW OF SINGLE STYLE OF POULTRY HOUSE. SHOWING POSITION OF NEST, DROP BOARD, AND BURLAP CURTAIN.

The estimate cost of such a building I would place at from \$3.50 to \$5.00 per running foot depending on

In running the birds in colonies of 200 as sugthe building will accommodate 1000 birds, having gested, this style of house might be used by making h 200 birds partitioned off with poultry netting, so it with partitions every 90 feet. In figuring accom-

of best quality shiplap, \$30.00 per thousand feet, space should be allowed for each bird. I would, howand covered all over outside with some good roofing ever, advise the dividing of the house and not allowing What size of a run would be required divided more than 100 fowl to run in a colony, as I think

The runs in front of the house should extend for from 100 to 150 feet to the front and should be fenced with 2 foot board at the bottom and 4 or 5 foot netting above. The runs should be seeded to alfalfa clover or other succulent foods. The cost of feed per bird per year is usually estimated at from apply for a sample of free government farm grain. \$1.00 to \$1.25 per bird, depending on the varying cost of grain from season to season. I would not recom-mend wheat and oats alone as food rations, as grit, oyster shell, animal meat and other foods are necessary as a part of the rations in order to secure satisfactory results.

To give a list of things required for a 2000 bird plant is perhaps a large undertaking, and I think any erson attempting to undertake poultry farming on such a large scale should have a pretty thorough knowledge of the requisites of a plant of this capacity, or the chances are that disaster and financial failure will follow.

To equip a practical up-to-date commercial poultry plant of 2000 bird capacity one can safely estimate that the land, houses, and general equipment will cost in the neighborhood of from \$6.00 to \$7.00 per head. Too often the poultry business is disgraced by failures poultry house." This style can be constructed as a few dollars is all that is necessary with which to go correspondent, or any other person going into the poultry business without this practical knowledge, is to undertake it in a small way and extend his business with increased experience.

A. W. FOLEY, Edmonton, Alta. Poultry Superintendent.

For information in regard to the housing and breeding of dogs, we would advise our correspondent to write to Mr. H. B. Donovan, Editor of the Kennel Gazette, Toronto, who is one of the best authorities in this country on such matters. Our inquirer should also procure the latest government bulletins on poultry-keeping, particularly Poultry Bulletin No. 1, published by the Alberta department of agriculture. It is sent free on request.

For free government farm seed apply to the Dominion Experimental farm in your province, or to the Central Experimental Farm, Ottawa.

HORTICULTURE

Great Britain last year imported £29,000,000 doorways in the partitions are placed two feet from worth of timber. About one-fourth of this came

> The area of land in Canada fit for tobacco growabout one-third of this, leaving a large surplus for export. Soil and climatic conditions in this country is favorable for the production of tobacco equal in quality to that grown in the United States, but because the industry is in its infancy here, while the Americans have perfected their growing and manufacturing systems by generations of experience, this country is handicapped in competing with the States in foreign markets.

It is only recently that tobacco growing has been taken up as an agricultural industry in Canada. Certain sections of the country, particularly the Lake Erie counties in Ontario and parts of southern Quebec, are well adapted climatically and in soil conditions for tobacco culture. The quality of the leaf produced is not inferior to that grown in more favored sections in the south. The higher grades of cigar tobacco cannot be grown in northern latitudes, but leaf adapted for ordinary use may be readily grown. The Canadian Manufacturers' Association is porposing that the industry should be stimulated by government assistance in the way of instructing the varying price of lumber and labour in the district farmers in the best methods of curing and packing for home consumption and export, and by establishing farms in charge of experts, in the tobacco growing sections of the country.

Suggestions for B. C. Forest Management

That the Province of British Columbia should have a forestry commission, that fire protection should be put in the hands of a force of men trained as well as the Northwest Mounted Police and altogether free from political influence, and that the first faculty of the British Columbia provincial university to be established should be a faculty of forestry—these are some of the suggestions made some time ago in an address by Mr. G. O. Buchanan, a well-known British Columbia lumberman, to the Nelson (B. C.) University Other suggestions were the prohibition of the cutting of immature timber, the substitution of sawn ties for hewn ones, the discouragement of ments and the reservation of all land above 3,000 feet in altitude in the coast districts and 4,000 feet in the interior. He would also have the remainder of the timber on provincial lands held for a long time to come, liberal terms offered for the surrender of existing licenses and the withfrom the market.

Ripe Tomatoes in Saskatchewan

EDITOR FARMER'S ADVOCATE:

In your issue of October 14th, I noticed a letter tomatoes in New Ontario is also true about the same fruit in Saskatchewan. As a rule it is necessary to start the plants very early. If it can be done, it is not too early to sow the seed in February, quite early in the month.

The earliest tomatoes we have grown here were started in boxes in the house in February. These were potted singly when they were four or five inches high. By the second week in May they had small high. By the second week in May they had small flower-buds on them. They were then set into a deep hotbed, removing the pots, and setting the plants a couple of inches deeper in the soil than they had been. By watering well, and shading from the sun for several days, the plants were not injured. We did not set the plants out in the open till the third week in June. There was quite a heavy frost on the night in June. There was quite a heavy frost on the night ply close by of June 12th. We kept the branches nipped back It is seld allowing only three clusters of flowers on each one. frames are necessary for an ordinary colony, and of colonies could be kept in one apiary. The sweet I think it would be better to allow only two, or perhaps but one, as "Frost Conqueror" suggests. No doubt the fruit would be larger, and would ripen

This year I planted tomatoes in the above manner. We had no severe frost in August, and we had quite a lot of fine large ripe tomatoes. But we also had ripe tomatoes on plants the seed of which was sown plants were thinned to about four inches apart in valuable queens. the row, and were only hoed enough to keep the weeds down. The weather was rather dry and hot, so I supposed that hastened the ripening. The fruit that ripened was small, but of very good shape and quality. I intend trying them again in that way, and giving them more care. This year I did not prune them, but just let them grow as they pleased. I got the idea from a gentleman who told me the best crop of tomatoes he ever grew was from seed sown ripe tomatoes are difficult to raise in quantities.

BRENDA E. NEVILLE. Sask

APIARY

Wintering Bees

their colonies out of winter quarters, extensive and it will be probably five or six months before are due to carelessness or neglect on the owner's cellar floor two joists, and place the hives on them, part, or to ignorance of the bees' requirements in six or eight inches apart. The next tier is placed the way of food. The critical time with bees on top of the first, each hive resting on two under coming out of winter quarters is the period just This will give ample ventilation. the manufacture of lumber in advance of require- before new honey is brought into the hive. At this time breeding is proceeding actively, and the stores are being more rapidly diminished than in winter, when the food consumption of a strong and well-protected colony is comparatively light. Just at that critical season there is an ever increasing number of hungry grubs to be provided turn-out, was the first evening. At this meeting E. R. for, and with no honey coming into the hive, Root, Medina, Ohio, gave a demonstration of the there is more danger of a colony starving to handling of bees. Mr. Root removed his coat, vest, and to which their was a goodly turn-out, was the first evening. At this meeting E. R. drawal of the largest possible amount of timber creasing number of hungry grubs to be provided death during spring time, or of being weakened collar and necktie; put his trouser-leg bottoms inside seriously by scarcity of food, than at any other season of the year.

Bees oft in starve in the midst of plenty. They signed "Frost Conqueror," on raising ripe tomatoes winter in lots called "seams" between the combs, manipulate the hive. He not only removed from the in New Ontario. What "Frost Conqueror" says about and may be seen packed like slates upon a house hive the combs with adhering bees, but shook the bees bringing to the center combs food stored in the outer frames; but this activity ceases as soon as a talk on the life history of the bee, and made a very really cold weather sets in, and they then pack interesting session for his audience. themselves close together for mutual warmth. Then, as the food around them is consumed, they die simply on account of the cold air by which they are surrounded; and they cannot pass around or under the frames to a probable abundant sup-

in which cold air can circulate may be reduced as much as possible, with a view to lessening the activity of the bees, and the consequent consumpin the open garden on the fifteenth of May. The without a lot of coddling, unless it is to preserve

No colony should be considered safe unless it the combs are arranged by the bee keeper, the center ones should have sealed stores about half way down, the amount of stores increasing to the outside of the brood nest. During the winter, bees cluster below quite a portion of the stores; in the open field near Montreal, where I understand therefore, by keeping the honey warm, and of easy access, the most compact form and normal cluster ease was a state of not rest, an abnormal condition. can be maintained.

The bees should be taken into the cellar some time in November. The covers of the hives will be all sealed down tight, and it will not be necessary to disturb them, but the hives should all be loosened from the bottom boards, so that there will be no jar when they are picked up.

Great care should be taken not to arouse the Nearly every spring, when the bee keepers take bees or they are likely to fill themselves with honey losses are reported. As a general rule, the losses they will have a cleansing flight. Lay on the

National Beekeeper's Meeting

A very full programme of the National Beekeepers' Association was carried out October 13th to 15th, at Detroit, Mich. A session to which the citizens of Detroit were invited, and to which there was a goodly his socks to prevent the bees from mistaking them for a hollow log, and then entered a wire cage with smoker. The cage contained a colony of bees. These he smoked in the usual manner, and then proceeded to manipulate the hive. He not only removed from the roof, the top row removing the food from the cells from the combs into a pan, and then scooped the bees above them to feed themselves, and by passing it up in his hands, after having shaken them about in down, feed those below. While the weather remains the pan. Mr. Root also shook bees upon his head, mild the bees are able to move about from comb surprising his audience, many of whom, no doubt, to comb in search of food, or with the object of bringing to the center combs food stored in the outer frames; but this activity ceases as soon as

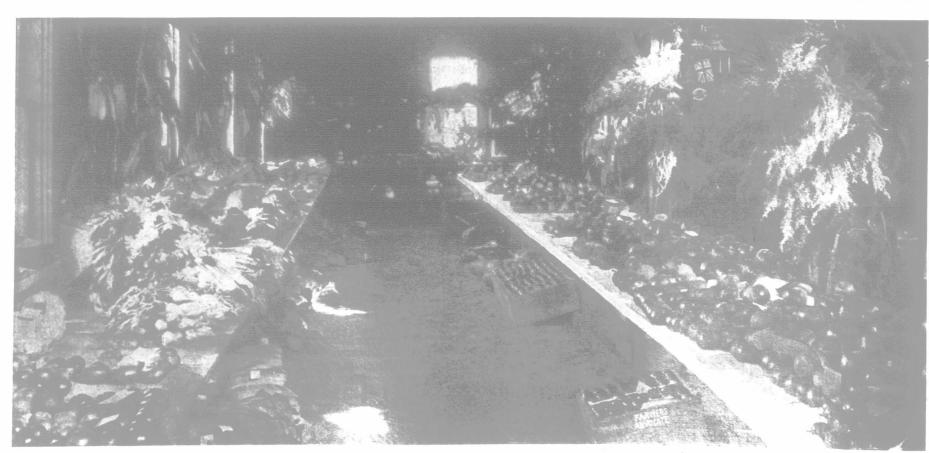
BEEKEEPING IN HAWAII.

Prof. E. F. Phillips, of the Bureau of Apiculture, Washington, D. C., gave a lecture, with stereopticon views, on "Beekeeping in Hawaii." Prof. Phillips had been sent there by the Department of Agriculture, Washington. He found that colonies yielded a large It is seldom that more than seven or eight amount of honey per colony, and that a large number the removal of superfluous frames should be the the bees gathered was, however, mostly an excretion No first step to successful wintering, so that the space from an insect which worked upon the sugar-cane, the ipen in which cold air can circulate may be reduced as "leaf hopper." The opinion of some was that the The opinion of some was that the bees worked on the troughs of molasses set out for cattle. The "honey" was of about the same taste as molasses, but he never saw a bee working at the tion of the stores. It is from all points of view troughs, and, as a result of his investigations, he was better to allow each to stand and take its chance quite satisfied that the surplus the bees gathered was from the source already indicated.

The morning session opened with an address by resident Geo. E. Hilton, Freemont, Mich. President has stored in the combs at least 25 pounds of Hilton spoke of the advancement the industry had honey or syrup and sealed most of it over. If made, and gave Canadians, in particular, credit for the assistance they had been to the industry, and the help they had been in conventions.

BACTERIA OF BEE DISEASES.

This was followed by an address by Dr. G. F. White, of the Bureau of Apiculture, Washington, "The Bacteria of Bee Diseases" being his subject. Dr. White dealt with it in a masterly manner, stating that dis-The predisposing causes varied—it might be age,



LOCAL FRUIT EXHIBIT KELOWNA, B. C.

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race, heredity or pre-existing diseases. Under excitous, among them being American and European foul which had starved during the winter. brood. The American disease was due to bacillus

EUROPEAN FOUL BROOD.

The cause of European foul brood had not yet been found, and it should be treated the same as American foul brood. The disease attacked the larvæ at an earlier stage than with the American.

In the discussion which followed, J. L. Byers, one of the inspectors for Ontario, stated that foul brood of the European kind was now in one section of Ontario-it was very virulent, and was now in an area less than ten miles square. Dr. Phillips stated that this European foul brood was first noticed in New York State in 1897; it had now spread over sixteen States of the Union, and he felt that radical steps should be taken for its extermination. Conditions were developing so that only those carefully looking after their bees would be able to keep them, and that there should be greater effort in the direction of wax production.

R. F. Holtermann, Brantford, Ont., stated that New York State, and also in the small area in Ontario, the Department of Agriculture for Ontario and the Department of Agriculture for the Dominion, should exterminate every colony in that section, to try to prevent further spread of the disease, and that the Government or Governments should compensate the owners of the colonies destroyed.

W. D. Wright, Alamont, N. Y., one of the State inspectors, described the disease foul brood as follows: Scattering capped cells, a large number fail to mature, and are never capped. In health the unsealed larvæ are pearly white and glistening; in disease they are a dull color—some are spotted, yellow, becoming darker as the disease advances, until they become nearly black. Most of the dead brood is uncapped, the disease attacking the larvæ at an earlier stage than is the case with American foul brood.

Quite a discussion took place as to the advisability of keeping combs not brooded in, but which had been on diseased colonies.

John Newton, another inspector, said he thought there had been too much leniency; it was better to render such combs.

N. E. France, General Manager of the National, and also Bee Inspector for Wisconsin, said: We try to save thing along. too much; these combs are only worth the wax they contain; render them.

Those posted in public and private discussion appeared to think that disease among bees was becoming cally all but those making beekeeping a business pro- certain corn crops may be made perennial. position.

loss," stated:

1st.—Destroy the bees in colonies badly affected; in these the bees are old anyway, and valueless.

time, and put the brood from those shaken on top of level with the surface. colonies not shaken to hatch. After about three bees do not rob any of the refuse left after render-

It was pointed out that the general and as some thought, better practice, was to shake the bees after two days a second time, to make sure the new colony did not go on with any germs transmitted from the other colony.

THE SIZE OF HIVE.

an hour had been given to each speaker, the public he published photographs of wheat plants showing

took a part.
Mr. W. K. Morrison, who has travelled almost over the entire apicultural world, stated that fifteen years ago such a discussion would have been impossible, then it was all 8-frame; now public opinion was vastly 12-frame Langstroth hive.

champion straight an 8-frame Langstroth brood cham-

Dr. G. Bohrer, Lyons, Kansas, stated he had atched a queen through an observatory hive, and und she could lay six eggs in a minute.

Mr. Morrison stated that it was now beyond doubt, gs in a day.

diseases due to bacteria were to bees the most danger- had been the destruction of countless colonies of bees

A nice display of comb and extracted honey and apicultural supplies was made, which was the center of interest between sessions.

The convention, which is international, embracing Canada, was very largely attended; there were in the neighborhood of forty-five Canadians in attendance. Toronto next year. Invitations were also received and it requires no nailing up, in fact cannot be nailed. from Buffalo, Minneapolis, and St. Louis.

FIELD NOTES

A Personal Word

from what he had heard of European foul brood in months during which most of the readers of the November we can tell fairly closely how many papers saved. we will have to print during the next year. But this large number of renewals and new subscribers before the beginning of November. This is the kind of thing that if it keeps up is going to do a lot of good to very many people. We have been surprised at the number of people who have interested themselves in their paper by getting neighbors to subscribe. A farm paper is an article which farmers themselves make or break. A little unselfish boosting at odd times gives us a growing circulation and our readers an improving paper.

> We have been sending out a lot of premiums of late. The FARMER'S ADVOCATE farmer's knife is not only full value Rodger's steel but is something of a novelty. We have never known a man or boy to see one but what he wanted it. There has been a big run on the knives. Our premium watches are not "peddler's junk." Money can't buy better goods. They can be had for four names and upwards; ten names get a dandy, fifteen names still better. Push a good

Pit-Grown Wheat

An experiment in wheat growing, of great originality more prevalent, and that it was going to have the and much promise, is being made in Russia. Some same effect in beekeeping that the San Jose scale was very astounding results are said to have already been expected to have among fruitmen-wipe out those secured, and Russian experimenters believe not only who did not watch continually, which means practi- that the yield will be immensely increased, but that

The experiment consists solely in the manner of R. L. Taylor, Mich. State Inspector, said: In this cultivation. The author of the new method is General. "Eternal vigilance is the price of freedom from the Levitsky, who began his experiments last August in disease." Mr. Taylor, in dealing with the subject of a little mode! farm adjoining his barracks. His plan 'Getting rid of foul brood with the least financial is simple. He sows single grains of wheat at the bottom of conical pits a foot to a foot and a half deep

As the grain, thus sown in the apex of the pit, begins to appear above the surface, it is earthed over, 2nd.—If colonies are good, shake them on starters; and each time the leaf appears more earth is filled in if many colonies are diseased, do not shake all at one till after, say, five or six earthings, the pit is full and

The result of this treatment is that the plant which weeks shake these last colonies, and render all old has a "branching knot" at the base of the original comb, saving the wax, and being very careful that the stem and of each new stem, sends out a number of new shoots at each earthing. It is asserted in a letter to the Novoe Vremya that one grain treated in this way sent up 19,683 shoots. The straw seems to be unusually stout, the yield enormous, and General

Levitsky believes that the plant will be perennial. Apart from this, General Levitsky has done enough to show that the small farmer, at any rate, may bene Almost the entire afternoon of the second day was this way instead of preventing this natural process taken up in discussing the size of hive. S. D. Chap-by close sowing; and it is worth notice that Prince man, Mancelona, Mich., championed the cause of the Kropotkin, the pioneer of intensive cultivation in eight-frame hive. R. F. Holtermann, Brantford, that England, years ago prophesied that the present of a larger, particularly the 12-frame hive. After half methods of growing wheat would be given up; and many 100 stems from a single grain.

New Type of Car Door

A Port Arthur man has invented an improved in the majority for 10-frame hive, and he would not type of door for box cars, and the invention was be at all surprised if soon it would go so far as a tested recently, first with a load of coal and then with wheat. It is known as Stone's improved sec-Mr. Chapman even wanted to give a portion of the tional grain door, and if it proves as efficient as its first super for brood combs, and it developed that the inventor claims it is, and as convenient, it should officers of the association could not get anyone to quickly come into general use. The door is just a whom he came in contact. Never acrimonious in plain wooden one, made of boards six inches wide, itting closely and fastened together with hinges. There is a tight-fitting metal flange at the bottom and the edges fit closely into metal grooves. At the top these carriers or runs are curved inward extending along the roof of the car. As it is raised fact had been proven, that a queen could lay 6,000 the top disappears like the cover of a roll-top desk until it is all out of the way, and there it remains The President had to declare the discussion closed until required to be closed, when it is simply and ore all desiring to speak had been heard, showing easily made to slide back into its place. When the intense interest in the subject by the apicultural door is to be opened with the pressure of the load of wheat or coal against it, a cable can be attached to the

Mr. Holtermann declared that the small hive, with lifting apparatus and worked by hand. This aping causes we found food and micro-organisms. The the limited area for brood rearing and storing honey, paratus for hoisting has a power of three tons, while the pressure from the inside against the door is estimated at one ton.

> One great advantage claimed for this door is that it is absolutely grain tight. A walk along the railway track shows quantities of wheat, barley or oats scattered along in many places and the quantities are often not inconsiderable. This often means loss for which farmers find it difficult to recover anything, Mr. Holtermann, who has been on the programme for and in any event it is in the aggregate a great loss four years running, invited the association to meet in to somebody. The door cannot work open in transit,

> > The custom or necessity of smashing doors to get them open, the door falling outwards followed by an avalanche of wheat will, with this invention, be a thing of the past. The quantity of waste lumber from broken doors which are left behind, will disappear. The door when open is out of the way, where it cannot be lost or stolen, and it is always on hand when wanted.

The inventor claims that his car door will effect a saving of eight men at elevator B, Fort William, including those required to smash doors open, one November, December, and January are the three door on each side of a car, and those engaged in months during which most of the readers of the removing, replacing, and placing them back in posi-FARMER'S ADVOCATE AND HOME JOURNAL send us tion, as it requires three men to lift them. The cost the price of the year's subscription. By the end of of buying many new doors constantly will also be

The first cost of one of these doors with the apparyear for different reasons we had begun to receive atus for working it is placed at \$15. For a hundred thousand cars this would, of course, amount to no small sum, but the inventor is confident that saving in the several ways indicated will in a short time much more than cover such expense.

Change in Sask. Seed Branch

Mr. Harris McFayden, who for the past two years has been the representative of the Dominion Seed Branch at Regina, has resigned to accept a position with the Garton Seed Co., the wellknown firm of English seedsmen who are now opening a business in Canada. He will be succeeded in Saskatchewan by Mr. F. H. Reed, Lindsay, Ontario. To the untiring energy of Mr. McFayden is due much of the success that has attended the work of the Seed Branch in Saskatche-The seed fair has become popularized in the province as in none other in the Dominion; the other branches of the department's work carried on in a way equally as satisfactory. Mr. Mc-Fayden, in severing his connection with the Dominion seed service, will still be in close touch with the farmers of Saskatchewan and Alberta as the representative in these two provinces of one of the largest seed houses in the world.

Mr. F. H. Reed is a graduate of the Ontario Agricultural College of the class of 1907. Since graduation he has been in charge of the agricultural department of the Lindsay High School. He has had considerable western experience, having been connected at one time with the staff of this journal.

The Late Mr. Agnew

Manitoba has been called upon to mourn the oss of another of her most esteemed public ser Hon. J. H. Agnew, after eight days of vants. heroic struggle against the debilitating effect of appendicitis, stepped out into the undiscovered future at 4 o'clock on Monday morning. The late Mr. Agnew was born at Whitby, Ontario, in October 18th, 1863, and came with his family to Winnipeg in 1879. Law was his choice of professions, and 1891 he was called to the bar, two years later proceeding to Virden to practice. In 1903 the electoral district of Virden elected him the Provincial Legislature as a conservative member, and a little over a year later he was called to the cabinet to succeed Hon. J. A. Davidson, deceased, as provincial treasurer. In addition to managing the finances of the province, the late Mr. Agnew made a careful and extensive study of the hail insurance problem, arriving at the conclusion that the government should provide some scheme of insurance against loss from this source. His speech in introducing a hail insurance bill before the house last January was one of the most exhaustive presentations of the hail insurance problem, while since that time he had given further study to the subject.

In private and public life, Mr. Agnew's courtesy and nobility of character endeared him to all with political debate, always with the main subject uppermost, and charitable to a virtue of the opinions of others, such a character could not fail to command the respect and even affection of his political antagonists.

A widow and four children mourn the loss of a beloved husband and father, while throughout the province there is universal grief at the sudden termination of a most useful career.

The Late Dr. Fletcher

Although it was known to his friends that Dr. James Fletcher, Dominion Entomologist and Botanist, was not enjoying robust health, the news of his death, on the 8th instant, came as a sudden shock. The late Dr. Fletcher had been a member of the Central Experimental Farm staff, at Ottawa, since the inception of the farm in 1887, and in the absence of the Director, Dr. Saunders, acted as Director. Immediately upon assuming his work, Dr. Fletcher applied himself energetically to the task of familiarizing all classes of citizens with the life histories of insects and plant pests. Twenty years ago the weeds flourished and insect pests ravished with but little snow and dreary wastes of shimmering sands we check, the general impression apparently being used to think it was. Although the country has that they were a visitation of Providence, but since that time, due very largely to Dr. Fletcher's interesting talks and descriptions, farmers have come to know their enemies and how to defeat them. In the early agricultural history of Manitoba and the older parts of Saskatchewan, Dr. Fletcher played an active part. The first weed bulletins published under the auspices of the Manitoba government were largely prepared by Republic. But Russian development will be him, while in the early campaigns against weeds very gradual. There will be nothing spectacular, the Farmers' Institutes, he was a constant speaker. The insect and plant life of the Dominion was an open book to the Doctor, and he was in constant watch for the introduction of new forms. He was a frequent contributor to the agricultural press, favoring "The Farmer's Advocare" particularly with his observations and sug-gestions. He was a genial, kindly, personal, this year or next, nor for some few decades of friend, and a faithful, industrious public servant. years yet. The progress of Russian agriculture Canada has sore cause to mourn his demise.

Recent experiment by the chemists of the Bureau of Agriculture indicate that the cornstalk may soon be regarded as a substitute for wood pulp. It has been found that fine grades of paper can be manuprocess. The preparation of the pulp from the corn hours, whereas the preparation of wood pulp requires from twelve to fourteen bours. Any variety of cornstalk can be used. The cost of wood paper pulp is \$13 a ton, and the Government chemists' figures are not over \$14 a ton for the cornstalk during the very early stages of the development of its manufacture.

A balloonist named Myers, at Utica, N.Y., pro-The first balloon will be exploded within a few days between Utica and Frankfort.

Wheat Production in Foreign Lands

Outside America the three greatest wheat producing states on the globe are Russia, India and the Argentine. Viewed from the standpoint of its natural resources and economic aspects, Russia is by all means the most important of these three. What we call European Russia is one of the most fertile stretches of land appearing on the globe. Naturally it is divided into two parts, the northwest and the southeast, in both of which are vast areas of black soil, vast both in extent and in fertility, the result of centuries of decomposition of the Steppe grasses. There are eighteen provinces lying in this socalled black soil zone and they produce twothirds of the wheat of the empire. Russia, so far as natural resources go, possesses everything required for the pursuit by her people of agriculture in the most successful degree. But the Slav does not possess the Anglo Saxon's proud institutional heritage. The people lack sadly in nearly everything that makes for material advancement, they lack in institutions that are fundamental for progress and prosperity. They have never been able to rise above their ignorance, poverty and misery. Everything in the Empire is poor ready existing on holding; or (c) The purchase of stock in the past two years, the sums of £80,490, £5,641, and provements promptly. Advances are made for:

(a) Ringbarking, clearing, fencing, draining, or water conservation. (b) Discharging any mortgage alarged and misery. Everything in the Empire is poor ready existing on holding; or (c) The purchase of stock individual to £1,000, instead of £500, and it is probable Parliament will consider this question during the except the soil in which the wheat is to be grown, for breeding purposes, on the security of Holdings able Parliament will consider this question during the but by ignorance on the part of the degraded under Special Occupation Lease or Conditional Purnext session. In addition to the above, £100 may characteristic from the Crown or Homestead Farms: or (d) he advanced to the settless for the control of the above, £100 may

representative as popular government can be made. among people removed but one degree from serfdom, is being instituted in the country. social condition is improving, in agriculture improved machinery is being introduced and the peasants being instructed in the rotation of their crops and other fundamental practices of success-

Of late years the possibilities of wheat growing in Asiatic Russia have been a more interesting Empire. Siberia, it is being demonstrated by made. settlement, is not the land of polar night, eternal not developed into all that was expected of it when the Siberian Railway went through, enough has already been seen of it and its possibilities Farm Block mortgaged. to forecast its future with some degree of acarea equal to, if not greater than, the American nothing resembling the rapidity with which the factors in the wheat industry. But it won't be as the work proceeds. stitutional evolution. The country needs edu- yearly cating first of all. Then it needs better govern-

While British India ranks quite large in wheat of Forestry and Plant Industry of the Department growing, the country has never been a very important factor in the world's market for the fulfilled a most important part in aiding the develfactured from cornstalks at a cost almost as low as the in the world's trade, domestic consumption being try, and that its area of operations is extending with present cost of making wood paper pulp. In the a very variable quantity. Some years the the State's advancement and will assume large proexperiments, the chemists used the "soda-cooked" country consumes all she produces and the next portions in the near future. because the crop is scarce practically the whole stalks was completed in from two to two and a half harvest is exported. As the crop varies widely settlers have been assisted under its provisions. Of year by year the Indian wheat growing provinces never enter much into the world's wheat affairs.

procure what they required.

backs is attaining to large dimensions in the amount of £309,355. Republic. A quarter of a century since all the wheat or flour for domestic use had to be imported. Now exports amount to a good many the century since all the wheat or flour for domestic use had to be imported. Now exports amount to a good many upon to pay interest only for the first five years his growing land. One great advantage of the of 7 per cent. per annum, payable balf-yearly. The country is that the land can be worked at any loan thus extends over thirty years, a much longer season of the year for the climate is comparterm than is allowed by the ordinary mortgages. atively moderate. It is probable that the Having to pay interest only for the first five years,

Agricultural Banks in West Australia

In the Agricultural Bank, instituted by the State of West Australia under "The Agricultural Bank Act, by the present Government, especially in the direction 1906." settlers possess most liberal means for assist- of assisting the farmer to stock his land. During under Special Occupation Lease of Conditional Latinexy session. In addition to the above, £100 may chase from the Crown, or Homestead Farms; or (d) be advanced to the settler for the purchase of breeding

try makes. Just now the political situation of an amount not exceeding £200 to one-half the -The West An inches Times,

seems to be improving. Government, as nearly value of the additional improvements proposed to be

Advances are made to any one person (or number of persons, if borrowing conjointly) not exceeding the sum of £500, and no sum exceeding £100 shall be advanced to any one person for the purchase of breed-

ing stock.

Persons under 21 years of age, being unable to legally mortgage, are debarred from borrowing from the Bank

Applications may be made for sums of £25 or any multiple thereof not exceeding £500. Each application must be accompanied by a valuation fee of 1 per subject of speculation in the world's markets cent. of the amount applied for. No refund of fee than has the possibilities of the older parts of the is allowed after an inspection of the security has been

Mortgages are prepared free of charge, but borrowers are required to pay the statutory charges in connection with their registration. These are:—
(a) Stamp Duty of 2s. 6d. for each £50 of the amount of mortgage up to £300; and (b) a registration fee of 5s. for each conditional purchase or Homestead

The leases of Occupation Certificate, as the case curacy. Russia in Asia is twice as large at the may be, together with the above fees, must be in the United States of America, with a wheat growing possession of the Bank before the mortgage can be prepared

Notices of Approval are insufficient for this purpose. Intending borrowers are requested to note that no advances, except for the specific purposes of discharging liabilities or for purchasing breeding stock, American west was brought under the plow and are made against improvements effected prior to turned from a great buffalo stamping ground to date of application. Applications, should in every the granary of the world. In time Russian pro- instance, be lodged prior to commencement of work, duction will be one of the most permanent and moneys are then paid over in progress payments

Repayments of loans extend over a period of 30 years yet. The progress of Russian agriculture have a currency of 7 years only, Interest is charged years, except in the case of stock advances, which depends solely upon social, economic and in- at the rate of 5 per cent. per annum, payable half-

A few data illustrating the progress made by the Agricultural Bank will carry conviction with them that the institution is successfully accomplishing the national purpose for which it was created by the State. It will be seen that the Bank has already cereal. Indian wheat is a very uncertain element opment of the primary industries of this young coun-

Since the Bank was established in 1895, over 5,400 these over 400 have repaid the advance made and now enjoy their freeholds unencumbered; others are passing The area sown yearly is estimated at 28,000,000 through the easy stages of redemption, freeing themselves yearly in the gradual manner laid down in the Argentina conditions in regard to wheat prostatutes. Up to the end of last June, over 417,000 acres had been cleared under the Bank's clauses, As the industry develops the cost will eventually be duction are very similar to those of Russia. for which work the sum of £680,958 had been adreduced to 50 per cent. of that for wood paper pulp. The country is much smaller in extent and revanced to farmers. During last year alone, 141,061 • sources than the empire of the Slav, but its land, acres were cleared, for which the Bank advanced climate and railway extensions are potentials for nearly 150,000 acres under the plough in one year, or \$168,487. This has been the means of bringing an enormously expanded wheat production. It one-third of the total area cleared under the Act, fesses to be able to produce rain at will by sending up will be years yet before the full wheat growing during its 13 years of existence. In other directions big balloons filled with gases and exploding them possibilities of the country will be fully appre- the same gratifying progress is being made. The by electricity. It is reported that Prof. Myers has ciated. There are vast arable plains of great total area ringbarked amounts to 533,400 acres, and been engaged by saveral paper companies of northern New York whose forest lands are being destroyed by farming much of the land that might be put to total, were so dealt with. The fencing erected for the land that might be put to the worlded within a few lands are being destroyed by farming much of the land that might be put to total, were so dealt with. The fencing erected for the land that might be put to total, were so dealt with the worlded within a few lands are being destroyed by farming much of the land that might be put to total, were so dealt with the worlded within a few lands are being destroyed by farming much of the land that might be put to total, were so dealt with the worlded within a few lands are being destroyed by farming much of the land that might be put to total, were so dealt with the worlded within a few lands are being destroyed by farming much of the land that might be put to total, were so dealt with the worlded within a few lands are being destroyed by farming much of the land that might be put to total, were so dealt with the worlded within a few lands are being destroyed by farming much of the land that might be put to total, were so dealt with the worlded within a few lands are being destroyed by farming much of the land that might be put to total, were so dealt within a few lands are being destroyed by farming much of the land that might be put to total. farming much of the land that might be put to grain growing or mixed farming is not under cultivation. Because in this country the cattle The total number of chains of fencing so erected.

The total number of chains of fencing so erected. business first developed and the land was paramounts to 485,560, of which 332,963 were put up celled out to large cattle owners, it has been last year, or twice as much as was carried out for the difficult for those desiring land for agriculture to previous 12 years. Up to June last, the amount advanced to settlers reached the sum of £1,059,659, Wheat growing, however, despite these draw- and further advances have been authorised to the

millions annually. It is estimated that the loan is in existence. At the expiration of that time Argentine contains 60,000,000 acres of wheat he starts to pay the principal and interest at the rate development of wheat growing in this quarter the borrower is able to surmount the worst part of his difficulties, and get his property into a reproductive condition by the time the redemption period of his loan falls due. He is then usually in a position to pay his half-yearly instalments of loan without

The scope of the Bank's utility has been widened

peasants who farm it, is rapidly becoming depleted of what virgin fertility it possessed.

In the future development of wheat growing in Russia a good deal will depend upon the social, economic and political progress which the council and political progress which the council and political situation.

Chase from the Crown, or Homestead Earms; or (d) Such other real or leasehold property as the Trustees steel. It is a significant commentary upon the success of West Amstalia farming that the Bank, with ing £300 to the full value of the improvements proposed to be made. Further advances may be made of an amount not exceed and national to the settler for the purchase of breeding testing that the Bank, with ing £300 to the full value of the improvements proposed to be made. Further advances may be made of an amount not exceed and national to the settler for the purchase of breeding testing that the Bank, with ing £300 to the full value of the improvements proposed to be made. Further advances may be made of an amount not exceed and national to the settler for the purchase of breeding testing that the Bank, with ing £300 to the full value of the improvements proposed to be made. Further advances may be made of an amount not exceed and national to the settler for the purchase of breeding testing that the Bank are the purchase of the purchase of

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During

Events of the Week

November 11, 1908

CANADIAN.

of half a million dollars on Nov. 4th.

A creamery is being organized at Swan River, Manitoba.

Ten laborers were killed by dynamite explosions of Kenora, Ont., last week.

W. L. Mackenzie King, M. P. will represent Canada at the international quinquennial conference in opium traffic.

defined subjects to come under its purview. * * *

Arrangements have been made for the building of another big elevator at Port Arthur. It will have one of the a capacity of 1,500,000 bushels, will cost approximately \$500,000, and will be ready to handle next year's crop.

single enterprise.

theft will be sent back to England on the first steamer. The judge refused to sentence him on conviction stating that it would be cheaper to ship the prisoner the penitentiary.

knight bachelor.

this year at Port Arthur and Fort William. Septem- sation in official Europe. ber and October of this year both far exceeded in tonnage unloaded the corresponding months of 1907. By October 20 of this year the tonnage was equal to the whole of October, 1907, while the total for the month exceeded the total for the month last year by columns recently gives what it claims to be an epitome 3,700 tons. Work this year in freight handling will of the report which the Scottish Agricultural Combe found by the close of navigation to have surpassed mission will prepare when they are able to get at it. all former years by thousands of tons.

The receipts of grain over the C. P. R. from Sept. to Oct. 31 inclusive were as follows: Wheat 11,552,883.10 bushels; oats, 1,589,200.00 bushels; barley, 397,182.05 bushels; flax, 195,568.09 bushels. Total methods have been found in Canada and that in sive; it is even more rapid than that at Calvados. 13,734,833.54 bushels.

984.83 bushels

flax, 86,323.

West St. John in addition to the ordinary shipment.

* * * shows a considerably smaller falling off as compared with last year than has been in the case for six or orders for imported goods.

as compared with \$4,930,031 for October of last year ment. Sheep raising is an industry which the coma decrease of \$613,558. For the first seven months missioner regards as worthy of encouragement. of the present fiscal year the customs revenue has Considerable areas in the Maritime provinces and Sahara before another century. But even admitting totalled 827,179,191, a decrease of \$9,163.57.

BRITISH AND FOREIGN.

of the United States on Nov. 3rd by a majority of sance so severe as effectively to discourage the eighty electoral votes over W. J. Bryan, his Demo-keeping of flocks. cratic opponent.

as traitors by having their ears slit.

* * * The campaign was one of the keenest fought free grant. If a man can command £200, or still the power of men to delay the progressive drying up of

best preserved specimen known.

An antique sword, said to have been worn by Oliver Cromwell, will be put up at auction in New York, and sold to the highest bidder, unless on the National Transcontinental in the vicinity John D. Rockefeller, to whom the weapon, was sent, will come forward and pay the duty on it.

. . .

Tht employees of Sir Christopher Furness, Hartle-Pekin, China, next January on the suppression of the pool, England, who four weeks ago were given to understand that unless they could work without further trouble in the way of strikes, the iron and The Baptist Church of Canada in conference at shipbuilding plants in which they were employed Ottawa formed last week a federal administrative would be closed down, have reached an agreement body with a constitution and with certain well among themselves and with their employers by which for one year a profit sharing scheme will be tried. and provide cottages for married employees. The men will receive a share of the profits from the business instead of their regular wages. This is one of the most extensive profit sharing schemes

Kentucky tobacco growers who succeeded in protecting their crops from the "night riders," raised A company with a capitalization of two and a tobacco, housed and cured it under guard are receiving half millions has been formed in North Dakota with the avowed intention of colonizing five hundred bacco in the state. The "night riders" as they are called are the field force of the tobacco growers' tobacco, housed and cured it under guard are receiving thousand acres of land in the northwest in the neighborhood of Vermilion, Alta. It is proposed to association which is an organization formed to break work the land entirely with English labor and as a up the tobacco trust. Independent growers who remained outside the organization had their crops An English immigrant at St. John, N. B. guilty of were shot down when they resisted the gangs going increase to such an extent that life would be imposabout destroying property.

A serious state of affairs has developed between back than to pay \$150 a year for his maintenance in France and Germany out of the Casablanca matter which will require delicate handling to be satisfactorily settled. While there is little danger of hostili-Among the birthday honors announced in honor ties resulting from the strained relations of the two of the King's birthday are the following to Can-countries the position of both countries is rather adians: E. S. Clouston, of Montreal, baronetcy; delicate. France has refused to release some German General P. H. N. Lake, Ottawa, knight comdeserters who are the cause of the trouble or express mander of St. Michael and St. George; Brig.-Gen. regret for the occurence. It is believed that Germany D. A. Macdonald, of Ottawa, commander, of St. is endeavoring to make the most of this affair which Michael and St. George; Hugh Graham, Montreal, is of small importance to divert attention from the embarrassing position she was placed in by the Kaiser's now famous interview re his attitude during the Boer The heaviest fall business on record is being done war, an interview that created something of a sen-

Scottish Commissioners Express Their Views

The London Times in an article published in its The Commission only arrived home last week but already seems to be exuding information about this country. One point of interest in the report is the importance given by the London journal to the 1888-1892. find of the commissioners that modern scientific to get them away from the idea, but that a party of intelligent agriculturists should be looking for winter

seven months past indicating that the expected impressed with the possibilities of horse and sheep far distant." revival in trade is beginning to be felt in the increasing raising. "There is a fortune in horses" one commis-For the month the customs revenue was \$4,316,473 advantage of the present stage of Western developother parts of Canada, of little use for other kinds of farming, are admirably adapted for this. The meat basing our statement on both the universality and is first-rate, and there is no lack of markets; but the William Howard Taft of Ohio, was elected President commissioners were astonished to find the dog nuiof rainfall is a persistent and progressive phenomenon,

There is a general impression among the commissioners that Canada offers plenty of opportunities to Serious rioting has occurred at Hong Kong resulting the small farmer who finds it hard to pay rent and from an attempt of those involved to force loacl keep his head above water in the old country; though 'hinese merchants to boycott Japanese goods, the particular province to be recommended according Merchants who refuse to boycott are being branded to the taste as well as the means of the individual. The western homestead system is not an ideal one, in the opinion of, at any rate, some of the commis-It is believed that the Bond government in New-sioners, who are inclined to consider 160 acres rather oundland has been defeated in the elections held on too small an area; but that, after all, is larger than the Island last week. While complete returns are the average farm in the eastern provinces, and many not yet in it would seem that the result at best is a a homesteader buys additional land adjoining his

While plowing at Monteleone, Calabria, a prairie wheat-grower, or-and this would appeal, peasant found recently a Grecian gold coin more strongly to the average old countrymen—as a weighing two grammes. On one side of the coin mixed farmer in the beautiful park lands. The Pembroke, Ont., was damaged by fire to the extent half a million dollars on Nov. 4th.

Weigning two grammes. On one side of the colin commissioners, however, emphatically agree with the commissioners, however, emphatically agree with the advice given by all who have investigated this subject. advice given by all who have investigated this subject, that an intending purchaser should spend some time in the country before carrying out his intention.

The position of a good Scottish farm laborer, earning about £40 a year, with meal and milk and other privileges, including perhaps that of free lodging in a co. ay, is not contemptible, and there are men of that class who contrive to save the greater part of their wages; but their future is not brilliant, and they will doubtless continue to emigrate in large numbers to Canada, where they can go on saving money and presently start as small farmers on their own account. There is, however, a feeling that Canadian farmers in general will need, if they are to lessen the difficulty of obtaining an efficient and sufficient supply, to follow the example of the minority of their colleagues who give 12 months (instead of seasonal) agreements

The Diminishing Rainfall of the Earth

Man since the earliest ages has loved to speculate on how the earth was going to end. One of the earliest theories was that it was going to be burnt up. Then there was the theory that cold temperatures, not intense heat, would blot out life on the planet. This theory was based upon the fact that the polar regions had at one time a tropical climate as indicated by animal and vegetable remains found in that quarter, and that at one time it was the most habitable region on the globe. Other theories have been that the air would all disappear from around the planet, destroyed, barns burned and even in some cases that carbon-dioxide gas in the atmosphere would sible for the more highly organized animals, and there were other theories as well. But now comes a French meteorologist, G. Guilbert, who tells us that decreasing annual rainfall, year by year, or cycle by cycle, will ultimately bring about such a condition of affairs that vegetables and animals will be unable to live upon the planet. He writes:

The progressive diminution of rainfall is a fact that is becoming better established, and even universally known. As meteorological observations are perfected and prolonged, the phenomenon is more and more certain and forces it upon our notice.

Besides the Calvados commission which noted it in 1894, and many others since, the Meteorological Commission of Meurthe-et-Moselle has just made an important contribution to the study of this question which is so important for the future of the whole

The learned secretary of this commission, Mr. Millot, professor of meteorology in the Faculty of Sciences at Nancy, has analyzed the results of 30 years of observation and gives the following as the average rainfalls for five-year periods at Nancy:

Millimetres Years Millimetres Years 1893-1897......680.5 $1878 - 1882 \dots 896.1$ 1898-1902.....688.9 .794.01883-1887.....760.4 1903-1907.

This diminution of rain at Nancy is truly impresevery province there are men even among the small While the rainfall passes here from an average of 896.1 Receipts over the C. N. R. for the same time at Port farmers, who use all sorts of labor-saving machinery, to 628.1, or a diminution of 268 millimeters, the cor-14 and who have already imbibed much of the scientific responding years at St. Honorine-du-Fay show only a bushels; barley, 597,739.19 bushels. Total, 8,553,- knowledge diffused from the agricultural colleges decrease of 157.3. The extraordinary importance and experimental farms. It is interesting further of the figures noted at Nancy causes Mr. Millot to sav Shipments from Port Arthur and Fort William to note that "investigations of Canadian climate that "if the rainfall should continue to decrease in the from Sept. 1 to Oct. 31 inclusive were: Wheat, generally resolves itself into an inquiry into the same proportion, before the end of the century France 13,649,084.40 bushels; barley, 388,687.20 bushels; length and effects of winter." The same old story, would become another Sahara, without its heat," but you see. The British public has labored so long in he adds: "Is the dryness going to increase indefinite-During the last few days about eighty cars of wheat the delusion that this is the land of polar night and ly? We may reassure ourselves on this point. We have been shipped from the local yards all rail to eternal snow, that there is not much use in trying have to do here only with oscillations of somewhat long periods which appear in all natural phenomena. In nature everything vibrates, everything oscillates, The customs revenue of the Dominion for October in the middle of August seems scarcely believable. the molecule as well as the ocean, and the more the Yet the Times speaks very much as though they were. rainfall decreases the nearer will come the time Among other industries the commissioners were when it will begin to increase. Perhaps this is not

Nothing could be truer. The rainfall cannot go on sioner remarked, "especially to the man who takes decreasing constantly at this speed. It is certain that a dry period. Without this oscillatory phenomenon, as Professor Millot well says, France would be a this periodic oscillation, we may nevertheless affirm, continuation of the observations, that the diminution which nothing has checked since the origin of rain on the globe, at least since the glacial period, and which nothing will modify in the future.

More rain certainly may fall in the next 30 years than is falling during the present period, but the following period will be drier yet. Thus, even with oscillations, be they of 30 year or of 100 year periods, the rain will continue to diminish century by century as it has always done over the whole globe since pre-

Perhaps the development of civilization has contributed to this diminution of rain, but only in very slight degree. In an equally small degree is it within better £300, he can make a very good start as a our planet. Reforestation, especially on hills, is al-

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ways a palliative whose efficiency admits of no doubt dustries was one of exceptional interest, a large and which should not be neglected. The urgency of number of distinguished leaders in reviving home this proceeding is shown by the rapidity of the de- industries having co-operated with the authorities. crease of rainfall. Trees, as everyone knows, do not The quality of the articles produced and their varied drier, quick reforestation is necessary. This is the practical conclusion from climatological investigations and their scientific value.

The Ideal Home Exhibition at the Olympia

At Olympia, one of London's largest entertainment resorts, a great newspaper is running one of the most unique and laudable of exhibition features. It is a huge and comprehensive display of what goes to form an ideal home. The Daily Mail is back of this enterprising and remarkable undertaking, and it is receiving splendid and enthusiastic response from exhibitors in all parts of England from the British public generally. It is freely conceded by all thoughtful people that, when every possible allowance has been made for the influence which legislation, education, or other similar agencies are capable of exerting on behalf of the happiness and advancement of our people, the most potent factor in the whole problem is after all the condition of the home. Nothing has a more demoralising and depressing effect than an untidy dwelling, where even the smallest task becomes a burdensome drudgery; while, on the other hand, nothing so genuinely inspires contentment, happiness and an adequate sense of the joy of living as a home which, though it may be humble in its station, is nevertheless thriftily managed on hygienic principles, and is benefiting in some degree from the adaptations in that quarter have been wildly exaggerated. Adand improvements which ingenious people have been discovering from time to time. This may seem to expected to be very nearly an average one, possibly some a very callous line of thought, and many might be inclined to repudiate such a materialistic method of coolly calculating the atmosphere of an abode by its mere inanimate equipments: but there will be none so shortsighted as to deny that the surroundings export but this is not regarded as of much significance and fitting up of a house very largely enter into detering the trade. mining domestic felicity, and potently influence the moulding of character and the development of disunusually large. The daily run was over five hunposition. People as a rule reflect their environment, dred cars on the average. On Nov. 4th, 768 cars and in the highest interests of the nation therefore no were received. American deliveries are beginning to I more worthy effort could be made than to render our fall off. homes brighter and better equipped.

four distinct departments: Home equipment, Gar- year as follows: den, Babyland and Arts and Crafts.

The first of these covered every part of home-making. Prize designs were exhibited of three classes of houses costing £500, £750, and £1,000, the object aimed at being to combine convenience and comfort of plan, economy of building, and the best architectural expression. The newest and best methods of home equipment were displayed in great variety and detail. No one could glance at this section, even casually, without being impressed with the striking degree to which modern invention has succeeded in reducing the domestic labors of the housewife. The old style dwelling of thirty or forty years ago was high, narrow, and ill-arranged. There were many flights of stairs; the kitchen was far from the dining-room, and no thought was apparently given to lessening work. The amazing contrast between that and the best of today could be seen by glancing at the new designs for modern homes, and the varied and exhaustive display of the branches of home equipment. To stimulate interest in this section seventy-eight prizes were offered by the promoters under. to visitors, the first being £100 for a detailed scheme for the best equipment of an ideal home. Starting with the building of the home, we go on to its drainage, ventilation, furnishing, heating, and cleaning. The great advance in the beautification of the home could not fail to be noted. Furniture is simpler designed on broader lines, and better. More is de manded in a modern house, and improvement doe not always mean great expenditure. The new systems of electric and gas lighting gives double the light at about half the cost.

"No home can be 'ideal' without the garden," the trite saying of Mr. Edward White, the well-know landscape architect. Hundreds of loads of moule and thousands of square yards of turf were require and eventually the skill and art of the gardeners wer well expressed in the disposition of the paths, lawn and shrubbery.

In "Babyland" there were two very prominen features. One was a creche, with living infants representing those most deserving institutions where mothers who are forced by circumstances to ear their own livelihood can have their youngsters pro perly taken care of, washed, fed and amused during the daytime. The equipment of this exhibit, unde the auspices of the National Society of Day Nurseries was admirable, consisting of areceiving office, special ly fitted bath-room and lavatories, together wit combined dormitory and play-room. Demonstrations of how to wash and clothe a baby were given a intervals, and every effort was made to circulate up-to-date information about the best methods o treating young children. In the same section was specimen corner of a surgical ward of a hospita and a baby incubator. The section for cottage in-

grow in a day. A half century is necessary to grow a nature, ranking from tapestry work and weaving forest, and if we do not wish to grow rapidly drier and to the most delicate and artistic metal work, was This is the worth attention.

Everything considered, the efforts of the Daily under the auspices of various meteorological com- Mail and those interested in the betterment of missions, and such a result shows well, whatever we conditions of the British working classes seem to have may say, their utility from an agricultural standpoint been highly successful and much appreciated. The feature was a new one at British exhibitions and from the results of it, it seems likely that ideal home exhibitors will become an important part of British industrial exhibitions. While the cost of such features as this is greater proportionately than simple exhibitions of manufactured commodities or products, its results are infinitely more far reaching, it is educational in the highest sense of the term.

MARKETS

The wheat market for the week just closed was strong with a good demand for cash grain. Option trading was a little dull for the reason that nothing serious developed in any quarter of the world to influence trading in futures.

The situation in the Argentine, which was the strong feature of the option market the week previous did not become a very prominent factor during the past six days trading period. There is a general feeling in the market that estimates of frost damages vices from Buenos Ayres indicate that the crop is ten or fifteen per cent less than last year's. From other quarters of the world there is nothing new, favorable or unfavorable to the present situation of the wheat market. Russia has fallen seriously off in

The Northwest Grain Dealer's Association esti- Manitoba, fresh-gathered, f.o.b. Win-In the ideal home exhibition at Olympia there are mates the grain returns of Western Canada for the

> Wheat-6,055,600 acres, at 16.4 bushels per acre, 99,311,840 bushels.

90,202,200 bushels. Barley-855,650 acres, at 24.4 bushels per acre, 20,877,860 bushels. Flax—123,420 acres, at 9.3 bushels per acre,

1,147,806 bushels. WHEAT SITUATION, NOV. 1.

	busnels.
Inspected to date, 24,241 cars	25,453,000
In store at country points.	14,160,000
In transit, not inspected	1,400,000
Allow for country mills	
Allow for seed and feed	12,000,000
Total	61,013,000
Balance in farmers' hands to market	38,298,840
Twenty-two per cent. of the wheat grade	s No. 4 and

A feature of the week was the advance of seven

cents in flax.

Closing prices day by day for the week for cash Beeswax. . wheat, were as follows:

10							
Γ,	WHEAT-	2	3	4	5	6	7
e-	No. 1 North-						
es	ern	99	993	100	$99\frac{1}{2}$	993	100
W	No. 2 North-						
10	ern	$95\frac{7}{8}$	$96\frac{1}{4}$	97	$96\frac{1}{2}$	$96\frac{3}{4}$	9.
	No. 3 North-	002	0.00	0.40	0.43	0.41	
is	ern	933	933	943	941	941	9,
n	No. 4	$\frac{90\frac{1}{2}}{87}$	$90\frac{3}{4}$		911	913	9;
ld d	No. 5 No. 6	801	87 80‡	873 813	$87\frac{1}{2}$ $81\frac{1}{3}$	$88\frac{1}{5}$	- 89 - 83
re	Feed	71	71	713	713	$71\frac{3}{4}$	72
ns			* 1	* 1.2	1.1.2	* 1.4	
	ta Red	983	99	993	993	993	100
. +	No. 2 Alber-						
nt s,	ta Red	9.53	96	963	963	$96\frac{1}{2}$	9
re	OATS -						
'n	No. 2 White	38	38	38	383	381	38
)-	No. 3 William	361	36	36	36	361	30
g	Feed	36	$35\frac{3}{4}$	353	357	36	3.
	Feed 2	314	35	35	.35	35	3.
S, 1-	BARLLY -						
h	No. 3	5.1	70	50		50	.5(
1-	No. 4	173	475	473		173	47
ıt	Feed	11	$43\frac{1}{2}$	431			1:
C,	E1"/Z -						
of	Xo. 1 X.W.	. 1.	110	1181			7 - 3
			113	1102		'	
	No. 1 Marri		116	1161			
1-	toba		110	1103			

Winnipeg options for	the week	in Whe	at:	
Monday—	Open	High	Low	Close.
Nov Dec	98 $94\frac{5}{8}$	$98\frac{3}{8}$ $94\frac{3}{4}$	$98\frac{1}{8}$ $94\frac{3}{8}$	$98\frac{3}{5}$ $94\frac{4}{7}$
May Tuesday—	. 998	$99\frac{1}{2}$	$99\frac{1}{8}$	$99\frac{8}{3}$
Nov Dec May	. 951	$98\frac{3}{4}$ $95\frac{1}{4}$ 100	$98\frac{1}{2}$ 95 $99\frac{3}{4}$	$98\frac{3}{4}$ $95\frac{1}{4}$ $99\frac{7}{8}$
Wednesday— Nov	. 100	100 96 §	993 951	$99\frac{3}{8}$ $94\frac{1}{5}$
Dec	101	993	994	$99\frac{3}{4}$
Nov	. 95	99 $95\frac{1}{2}$ $99\frac{5}{8}$	$98\frac{7}{8}$ $94\frac{7}{8}$ $99\frac{1}{8}$	- 4
Nov	$95\frac{1}{8}$	$99\frac{3}{8}$ $95\frac{3}{8}$ 100	$99\frac{1}{8}$ $95\frac{1}{8}$ $99\frac{3}{4}$	$991 \\ 951 \\ 997$
Nov Dec May	$95\frac{5}{8}$. $100\frac{1}{8}$	$ \begin{array}{c} 100 \\ 95\frac{7}{8} \\ 100\frac{3}{4} \end{array} $	$95\frac{3}{8}$ $100\frac{1}{8}$	$\begin{array}{c} 99\frac{7}{8} \\ 95\frac{7}{8} \\ 100\frac{3}{4} \end{array}$
PRODUCE A	IND MIL	LFEE	D.	

These are wholesale prices at Winnipeg:—

Net per ton-

Bran		\$20	00.0
Shorts			00.
Chopped Feeds—			
Barley and oats		26	. 50
Barley		25	5.50
Oats		27	. 50
Oatmeal and millfeed		11	.00
Wheat chop		22	.00
BUTTER, CHEESE AND EG	GS.		
Fancy fresh made creamery bricks			28 26
DAIRY BUTTER—			
Extra fancy prints	24	(a)	25
Dairy, in tubs	20	(a)	23
Manitoba cheese at Winnipeg 1 Eastern cheese		(a) (a)	$13\frac{3}{4}$ $14\frac{1}{2}$

nipeg...... 22 @ 23 HAY.

Prices are on the track in carload lots at Winnipeg.

	Timothy. 10.00 @ Red Top. 7.50 @ Baled Straw. 5.00		2.00
	VEGETABLES.		
	Potatoes, per bushel. 30 Carrots, per cwt. 50 Beets. 50 Turnips, per cwt. 40 Man. celery, per doz. 25	@	40
)	Cabbage, per cwt	(a)	60
	HIDES (Delivered in Winnipeg).		
	Packer hides, No. 1. 7 Branded steer hides. 7½	(a)	8
)	Country hides 6	(a)	7
	Calf skins 9	(a)	$10\frac{1}{2}$
,	Kip	(a)	81/2
	MISCELLANEOUS.		
	Manitoba wool. 6 Territory wool 8 Seneca root.	(a) (a)	8 9 29
	Beeswax	(a)	25

LIVESTOCK, WINNIPEG.

There was an exceptionally heavy run of stock at the local yards during the past week, deliveries more than taxed the yard accommodations and in many cases carloads of stock stood for eight, ten or 73 twelve hours, waiting an opportunity to unload. It is doubtful if there has ever been a heavier run at the yards in years. The bulk of the stock was butcher with however a very fair proportion of extended the stock was butcher with however a very fair proportion of extended the stock was butcher with however a very fair proportion of extended the stock was the stock was butcher with however a very fair proportion of extended the stock was the stock was butcher with however a very fair proportion of extended the stock was butcher with however a very fair proportion of extended the stock was butcher with however a very fair proportion of extended the stock was butcher with however a very fair proportion of extended the stock was butcher with however a very fair proportion of extended the stock was butcher with however a very fair proportion of extended the stock was butcher with however a very fair proportion of extended the stock was butcher with however a very fair proportion of extended the stock was butcher with however a very fair proportion of extended the stock was butcher with however a very fair proportion of extended the stock was butcher with however a very fair proportion of extended the stock was butcher with however a very fair proportion of extended the stock was butcher with however a very fair proportion of extended the stock was better the stock was butcher with how with how we have a very fair proportion of extended the stock was butcher with how we have a very fair proportion of extended the stock was butcher with how we have a very fair proportion of extended the stock was butcher with the stock was butcher with how we have a very fair proportion of extended the stock was butcher with the stock was porters. Shippers in the country are evidently cleaning up before the close of the season which accounts for the unusually large receipts. Export steers are not quoted quite so high as a week ago. 100 A slight casing up is noticeable in export demand.

The bulk of the shippers going east are being handled

The onk of the shippers going east are being handled at \$3.75. Hogs are unchanged. Prices for the various grades are as follows:

Export steers, \$3.50 to \$4.00; export cows, \$3.25; butcher entite, \$2.50 to \$3.00; medium grade butchers, \$2.25 to \$3.00. Hogs, \$5.75; heavy hogs, \$5.00; heavy \$5.00.

she has been steady during the past souther light in anything, a factor to a dividing prices. The quality s a rward is not high, common of deliveries. \$1.75 to \$5.00; good \$1.11 Short medium butchers, 1000 to \$0.000 sheep, \$3.25 to

HOME JOURNAL

A Department for the Family

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For hugging his wife in a dramatic fashion on a street car to the disgust of other passengers, Dennis Burns was summoned before a magistrate right to kiss her, law or no law.

The Legislature of Louisiana has passed a law prohibiting the slaughter of robins in their temporary sojourn in that State. The pot hunters of Louisiana have in the past killed as many as a million robins in a single winter, and a law was sorely needed to put an end to the needless slaughter of an excellent bird-excellent because it destroys injurious insects and is withal a cheerful songster.

hat rack and mirror on condition that the women of the congregation remove their large and fashionable hats during the service. The women have agreed to do so, and furthermore have signed a pledge to this effect.

Mr. Barrie is a lucky man. According to the Bystander, he has a fascinating wife, much wealth (accumulated from "royalties") a pretty house at Leinster Corner opposite Kensington gardens if so it pleases him. * * *

The Black Prince was one of the finest characters ever produced by the English race. A daring and wonderfully successful military commander, he was yet humble, and pious and gentle as a woman. This is the picture of him which Dean Stanley has rescued from tradition for us. His helmet and sword and saddle still hang high above his tomb in Canterbury Cathedral, and his motto, "I Serve," is worthy of adoption by every Canadian who would be loyal to his country, wearer of that title.

Queen Alexandra, who to her intimate friends has been known as an amateur photographer of talent, has decided, in the interests of charity, to become an author. Not merely that, but she through the traditions of court custom as written what is modestly known as otes" to some one hundred and thirty raphs of an intimate and personal charaken by Her Majesty. All England is at the word immoral. ted in the publication of the work, and

reaches 500,000, so that the charitable enter- James Robertson, the dairy expert of Canada, For the first time in the history of the univerbook will bear the signature of Her Majesty and hundreds of thousands as they were formerly sity a blind boy has entered Cornell. His name all the pictures produced will be those taken by hundreds. I wondered what he meant. Knowis William H. Moore, and his home is in Brooklyn. herself and hitherto unpublished. Heretofore ing he was of Scotch Presbyterian ancestry, I He came to Ithaca with his mother, who guided there have been books published by authoriza- wondered if this were just that Scotch Presby-him around the hill and to the classrooms. He tion of England's queens, and, in isolated in-terian habit of dragging religion in by the scruff has entered as a freshman in the College of Arts stances, some printed for private circulation, but of the neck. Then I read his lectures as head and Sciences, and hopes to be able to take the this is the first instance in which a series of pho- of the famous MacDonald Training Schools and herself, have been put upon the market.

under an old blue law of the state and fined \$2. Playground Congress, the purpose of which is on the farm is immoral because unnecessary and Burns said, "I love my wife dearly and have a to provide opportunities for decent and healthy the result of ignorance. exercise and play for children and youth, one of the speakers offered a sharp and just criticism of the comic sections of our Sunday newspapers. Of all their evils, perhaps this is the greatest. They are the portion first picked up by children, and the lessons taught are deceit, cunning and disrespect for gray hairs. The stories told in coarse pictures are of rudeness and indecent tricks played on the old and the helpless. If the morals of these pictures were better, yet the art is usually insufferably vulgar. If the papers that offer such sections are admitted into a house where are children-or older folks for The trustees of a South Dakota church have that matter—the comic section ought immediateoffered to expend \$125 for the installation of a ly to be committed to the flames. They fitly combine shocking art with corrupting morals. —The New York Independent.

THE NEW SPIRIT ON THE FARM

In the course of an article on "The New Spirit of the Farm," in the Outing Magazine for September, Miss Agnes C. Laut, who has written many interesting articles on agricultural progress

in Canada's West, says: Gardens, and one prettier still in Surrey. And "When you consider that the boll weevil hearts and intellects of thoughtful people lately, not only this. He boasts the "freedom of Ken- has caused a loss of as much as fifteen million and influence is at work to check the evil. But sington Gardens," which was bestowed upon dollars in a single year in a single state, and the the good movement has received a jolt and him by the authorities after he had written potato bug ten million dollars in all the United The Little White Bird," the foster-father of States, and the Rocky Mountain locust a loss "Peter-Pan." The curious may ask, what does of one hundred million dollars in a single year— prestige in an unexpected direction. North the freedom of Kensington Gardens bring with need one ask what bearing bird-life has on the Cape, that magnificent pile of rock of which it? Simply the key of the gate of the Broad farm? The birds are sent to do what we can't Norway and Norsemen are so proud is now noth-Walk. Mr. Barrie may stalk o'night in the do—destroy the multitudinous pests. It brings ing but a huge billboard. The most northerly you back to that old idea, the focus and center of gravity with the whole New Spirit of the Farm point in Europe, massive and majestic in the to find out and reveal. I say reveal advisedly; in the light of the midnight sun, it was the pride onism toward the great underlying laws of existence, what helps us to success instead of failure, what makes the moral man the efficient is departed. The stranger now has the doubtful man, is surely as much a revelation as if it came satisfaction of gazing on "Hohenzollern" in in a blaze of light.

fashioned ideas of morality, too, this pivotal idea his Imperial Majesty of Germany on a recent the Empire and mankind. Originally displayed of law that underlies the New Spirit of the Farm, visit! The name of his yacht! The name of his by the first Prince of Wales, it is presented to the It explains why men, who ranked as "good" University of Toronto by the wife of the present and didn't break the Ten Commandmentsat least, didn't break them so you could hear scene of grandeur, the smallness of his yacht, them crack—often proved most inefficient and himself and all his family? the most dismal of life's failures—not by the Will of God, no, not by a long shot, but because expect. Shipping firms sending excursion steamthey turned a bad furrow, let the weeds multiply, farmed slither-fashion—in a word, didn't obey ers to Northern Norway have painted the names the thoughtless and cruel killing of birds may followed by a chocolate maker who was smart be an immoral act, though the birds are to enough to see his opportunity and now a firm decorate the hat of a woman who would blush has taken space to tell forth the virtues of their

"There are just two things in this God Aln no way may it be accepted as a memoir mighty's earth, Right and Wrong, and that Queen's experiences, it already has aroused applies clear down to the way you spade your the Kaiser got space for nothing and the blacking garden," an old acquaintance used to say, man pays a big sum.

Mrs. Julia Carney, author of "Little Drops" clusively one of charity. The London Daily of the New Spirit of the Farm, I know now. of Water," translated into many languages, and Telegraph is publishing the book and 100,000 "When you think of the New Spirit of the Farm, Think of the Erring," found in many church copies already have been ordered. It will not don't forget the moral side of it, without which hymnals, died at Galesburg, Ill., aged 85 years. prise of the Queen already is well assured. The who raised Canada's expert products to as many tographs taken by the Queen, with comments by found the same pivotal idea—to make the good man a successful man by all-round observance of law, to make the farmer an intelligent farmer, without which he could not be moral in the deep-At the late meeting in New York of the American est sense of the word. In other words, failure

A ROYAL ADVERTISER

There is legitimate advertising, but of late years advertisers have gone beyond all bounds in their desire to get their goods before the public. They have defaced nature with the crudest, most glaring inventions of form and color and profit by it in dollars. How many grassy meadows are adorned (?) with a huge billboard recommending Jones' Shoes or Smith's Corn Cure against a background of noble trees? Mountain slopes, fertile valleys and murmuring streams no longer speak of the beauties of nature and the skill of her creator; instead they tell a tale of Brown's Pills or Somebody's Cigarettes. Houses and barns are paid for with shrieking advertisements on wall and roof. One of the finest specimens of church architecture in Winnipeg is surrounded on two sides with billboards at least twelve feet high impartially proclaiming the excellencies of sauce, whisky, stoves, opera companies, cigars and real estate.

The pity of allowing natural and artistic beauty to be so marred has been stirring in the "When you consider that the boll weevil hearts and intellects of thoughtful people lately, wild and indiscriminate advertising has gained —the idea of the law; law, which science is trying gloom and storm of the long winter or radiant for what helps us into harmony instead of antag- of the country and a sight regarded with admiration and awe by every tourist. But the glory painted letters fifteen feet in height on the face It is a fearfully keen-edged test of our old- of the mighty rock. A little souvenir left by family! Could he not have felt, gazing on that

His example has been followed as one would Nature's Ten Commandments. It explains why of their vessels on North Cape. These were shoe blacking. Why not? The only difference between the first desecrator and the last is that

A PRAYER

O Lord God, let come what will, sun-

be bowed or upright; whether we rise to

highest glory or sink in deepest sorrow;

whether we keep our souls clean or

HINTS ON BIBLE STUDY

Mark your Bibles. If you can afford

FELLOWSHIP

If we walk in the light, as He is in the light, we have fellowship one with another.—I. S. John, 1:7.

'Lord, where Thou art our holy dead must be Unpierced, as yet, the Sacramental

mist:

Thee At solemn Eucharist.

to Thee,

so fair: How little we may know, how little see, Only—that Thou art there.

"Dear hands unclasped from ours are separation from another soul whose fused the King's invitation because he clasping Thee;

Thou holdest us for ever in Thy Heart

"Lord, where Thou art our happy dead must be:

In very truth, apart?

Love's Anchorage is this.

And if with Thee, what then their boundless bliss! Till Faith be sight; and Hope, reality;

Christians may differ very greatly about the custom of observing saints days, but surely we should all join hands on "All Saints' Day," the day when we are especially reminded that we are one body, joined together in a glorious com-munion and fellowship. Plenty of peo-ple, who never think of observing a saint's day, will join together sociably on the eve of All Saints' and celebrate Hallowe'en. If they keep the eve of that festival, why should they forget the festival itself?

Fellowship is a vital matter to us all. Solitary imprisonment is, perhaps, the most terrible of all punishments, for we are all social beings, children of the Triune God. Those who find it hard to accept the doctrine of the Trinity should try to conceive the impossibility of a God whose grandest name is LOVE existing for endless ages-from an eternity without beginning—and yet having no one to love before the creation of the angels. We know that from all eternity the Father, Son and Holy Spirit have lived in a perfect fellowship, giving and receiving a perfect love. And God's passion for fellowship seems to be inexhaustible. When I find myself in a busy city crowd, I often wonder how much longer God will go on creating fresh objects of His love. It seems as though His desire for fellowship would never be satisfied. Is it not wonderful to think that He wants to give Himself, in all the perfection of His glorious Godhead, to each one of the myriad souls He has created! Life without fellowship would be very poor. The mere presence of one we love fills us with gladness. We look back to some occasions of deepest fellowship, some moments when we have looked deep down other at a distance, through the ordinary words and acts, are filled with a growing mode of conversation. But of course love and reverent admiration, and so are uniting the two who are conversing, glory to glory. But in wireless telegraphy the message What a strange thing it is that we Thrice I summoned him, for he

The Quiet Hour shine or shower, few days or many, the pinching of poverty, whether the head

But we are nearest them and nearest tinctness scenes far away, though our welcome. He may come to us in the dreams words distinctly spoken, and yet neighbor; or it may be He is waiting they were not heard with our ears. The with a helpful or cheering message with-"O Lord, we crave for those gone home powers of the soul are being studied now- in the pages of our unopened Bible, or For those who made the earthly home don't need to wait for scientists to ex- saints. He does not wish to interrupt plain the soul's capacity for fellowship any work that is really necessary, but it with other souls who appear to be far is a pity to let unnecessary work keep away. We know well enough that it is us from communion with Him. One of possible to be separated by a terrible the invited guests in the parable repossible to be separated by a terrible the invited guests in the parable repossible to be separated by a terrible the invited guests in the parable repossible to be separated by a terrible the invited guests in the parable repossible to be separated by a terrible the invited guests in the parable repossible to be separated by a terrible the invited guests in the parable repossible to be separated by a terrible the invited guests in the parable repossible to be separated by a terrible the invited guests in the parable repossible to be separated by a terrible the invited guests in the parable repossible to be separated by a terrible the invited guests in the parable repossible to be separated by a terrible the invited guests in the parable repossible to be separated by a terrible the invited guests in the parable repossible to be separated by a terrible the invited guests in the parable repossible to be separated by a terrible the invited guests in the parable repossible to be separated by a terrible the invited guests in the parable repossible to be separated by a terrible the invited guests in the parable repossible to be separated by a terrible the followship that the followship is the parable repossible to be separated by a terrible the followship that the followship is the parable repossible to be separated by a terrible the followship that the followshi holiest, happiest touch with a kindred crowd out devotion to his God. So close the One Communion-are we soul, though the outside world may fancy death or the ocean keeps us apart. If we claim our right of constant fellowship, the pain of loneliness will change to the joy of walking always heart to heart with our best beloved. of Christ's hand, a word in His listening ear, and the connection is made.

> "Thou with Christ and Christ with me, And so together still are we.

eyes were shut. We have heard in person of a little child, or a visiting unto Thee. And at whatever time in adays with scientific care. But we some other book written by one of His we go, we know it will be to our true body inhabits the same house with ours. was more interested in his farm; an-We know also that we can keep in other allowed his devotion to his wife to

> God invites us to enjoy fellowship it, try to spoil at least one Bible every with Him and with each other. If we year. Put your own poor, common never take time for this social inter- little thoughts right alongside all the great thing to write a book that has will be your collection of Bibles. some of the life of God in it; but it is Christian life, touching with the hand of it,

defile them with sin; whatsoever we do, even at our worst state, we are near in our lives we turn to Thee, this we know:-Thou wilt do what is best for the spirit that is within us; and wherever destination. Into Thy hands, whether

course, we starve our own souls, and lose great inspired revelations; and in after many opportunities of helping others. years when you are old and grey-haired, As a friend of mine once said: "It is a among your most precious treasures When you have read a chapter far greater to live a loyal, consistent through, write the subject at the head Where several verses go together, enclose them with a bracket, and write the subject at the side. In reading verse by verse, consider which is the most important word in the verse, and underline it. Take a Bible character, as Moses,

Peter; find out all you can about him, and write it down. Write a subject, as "peace," "temptations," "courage," at the top of a sheet

of foolscap, and set down underneath all the verses you can find bearing on it. In reading Paul's epistles, refer frequently to the book of Acts.

Whenever you hear a sermon, underline the text, and write opposite the name of the preacher, the place, and the date.

See how many verses you can find that are as suitable for the angels as for us. Hunt up the texts that you can carry to heaven with you. Compile an angel's Bible.

Do not read as a punishment or a penance, but as a pleasure and a privilege. Don't say "Duty before pleasure," and then pick up your Bible.

Do not go to it merely for proof texts to throw at the heads of those who don't agree with you.

Don't consider yourself bound to read every part of it alike; read most that which helps you most.

Don't try to see how many times you medan plan.

Do not make your capacity the measure of its truth. The Bible is like By fellowship we are gradually assim- of power the common folk walking near midnight in it. Some of it will never



FLEMISH LACE MAKER. This work is somewhat similar to the "pillow work" which may be seen in process of making each year at Toronto Exhibition.

into the depths of a kindred soul, as the ilated with another person, becoming one on life's common paths." This be understood in our day, but the bright spots of our lives. But we have one with him and he with us We think latter is within the reach of each of us. Christian who shall read it a thousand a rich treasure of human fellowship al-ways within reach, and yet too often and more from his point of view, even fellowship with God and our neighbors. ly. The Bible is graded for the cengo bare and hungry. The communion grow to look like him—as married peoof saints is a glorious reality—God's ple, who are really one in spirit, often great gift to a social race. In these grow to resemble each other. So it is in I days we ought to be able to believe in it. fellowship with Christ. We speak to I We can enter into fellowship with an- Him, look often into His face, read His there must be a connecting wire, visibly changed into the same image, from

goes straight to its goal without any should fill our days with the absorbing visible connection. Why should we pursuit of transitory things, letting this think the soul is entirely dependent on quickening, inspiring opportunity of felits servant the body? Some people say lowship slip past unheeded. We are apt that they can force others to turn and to feel that it is waste of time to read, look at them simply by staring at them and that we are working usefully if we from behind. I have often heard peo-ple say that if they think unexpectedly in the using. And, yet, by reading we Foll a silence in the room of absent friends letters are pretty sure can assimilate the natures of good and to arrive from them. We can't explain wise men, and grow more and more like Prisoner to hear his down how moths can attract others miles them. It will matter very little, ten Suddenly it all was change away, nor how a whale struck by a har- years hence, whether we had every spare. Tenderly I drew him no away, nor how a whale struck by a harpoon can instantly warn a spouting school of whales a mile away and cause this month; but one bour a day spent in them to disappear. Neither can we earnest, consider tellowship with explain why, at the point of death, so many have spoken as though they saw riches into our souls. It is possible to be absent friends. We see in more than working so persistently as to have felone way, not only with our eyes. We lowship crowded out of our lives. have all had vivid dreams sometimes. Christ comes to us every day, and we when we hav? seen with perfect dissipant of the bound of the

No one could tell me where my soul turies .- H. N. Casson. might be.

searched for God, but God eluded me. = I sought my Brother out, and found all three.

FATHER AND SON

Would not own his fault, nor break His proud dumbness, facing me Like a stone, for Courage sake Once again he came, and lo!

Inspiration from on high Whispered: "Fool, do ye not know He is only scared and shy

There he stood, removed.

INGLE NOOK

SIMPLE EYELET WORK FOR CHRISTMAS

Dear Chatterers: -To-day the cuts show some very simple things in the line of Christmas presents; yet with a little skill in adaptation they can be put to various uses. It does not require much skill to draw any of these patterns stranged, enlarged on a piece of white paper. Then all you need to buy is a sheet of arl on paper, which you can get at any book store er stationer's, the material upon which you want to put the pattern and kledersilk or pearl lustre thread to do ton work. I generally use size C in end reidery cotton, and D or E for the eyelet work, unless it is to be very

TUDY

u can afford Bible every or, common side all the and in after grey-haired, is treasures ibles.

a chapter at the head

t, and write

se, consider int word in

as Moses, about him,

.'' 'temptap of a sheet underneath earing on it. s, refer fre-

non, underpposite the place, and

ou can find e angels as s that you you. Com-

iment or a and a prive fore pleas-Bible.

for proof is of those und to read

most that y times you

he Moham

pacity the Bible is like dusk and will never , but the a thousand ning plainr the cen-

K FOR

the cuts ngs in the yet with a can be put ot require se patterns ite paper. a sheet of get at any e material he pattern tre thread use size C or E for to be very

nto us, but y."—Amen. simplify it by leaving out the spray haha.



two in larger proportions.

to be drawn when the transfer paper is French-English Dictionary, 90 cents; used. Made square with a button- French Irregular Verbs, Fully Conjumake a pretty centerpiece. Done on cents; French Readings for Children, an oblong piece of linen, 18 by 12 inches, 35 cents; First Course French Compoit would do for a tray cloth, while on a sition with Key, \$2.10; Introductory large square, say 24 inches to the side, French Prose Composition, 25 cents. it could be worked into a tea table I do not suppose you can use all of cover. Made in much smaller proporthese, but they are all good and you tions in either square or oblong shape, can take your choice. You will need continued, "I should say that the averity would make a pretty cover for a suppose you can use all of "Speaking as a patient," Mr. Kipling continued, "I should say that the averity would make a pretty cover for a suppose you can use all of "Speaking as a patient," Mr. Kipling continued, "I should say that the averity would make a pretty cover for a suppose you can use all of "Speaking as a patient," Mr. Kipling continued, "I should say that the averity would make a pretty cover for a suppose you can use all of "Speaking as a patient," Mr. Kipling continued, "I should say that the averity would make a pretty cover for a suppose you can use all of "Speaking as a patient," Mr. Kipling continued, "I should say that the averity would make a pretty cover for a suppose you can use all of "Speaking as a patient," Mr. Kipling continued, "I should say that the averity would make a pretty cover for a suppose you can use all of "Speaking as a patient," Mr. Kipling continued, "I should say that the averity would make a pretty cover for a suppose you can use all of "Speaking as a patient," Mr. Kipling continued, "I should say that the averity would make a pretty cover for a suppose you can use all of "Speaking as a patient," Mr. Kipling continued, "I should say that the averity would make a pretty cover for a suppose you can use all of the suppose you can use all of "Speaking as a patient," Mr. Kipling continued, "I should say that the averity would make a pretty cover for a suppose you can use all of the s silk lining of some pretty hue.



holing the ends of a towel in preference to fringing or hemstitching. Using good huckaback linen towelling you can produce a pair of very handsome towels in this way. The initial, of towels in this way. The initial, of course, will go only once on each towel. -The cut shows a design and a half, and each design should be not more than five inches across.

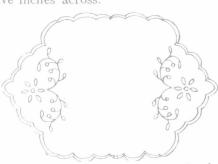


Figure 4 shows one of the simplest and prettiest of all. It is a design for one of the new bow ties so much worn just now. It is $6\frac{1}{2}$ by $4\frac{1}{2}$ inches, and is done in eyelet embroidery on white linen. To make it ready for wear just ni de half a dozen.

BOOK ENQUIRIES

could get a good botany book with dark, and spoiled the taste. I wonder that he does it according to the rules of colored illustrations? At home in the if maple syrup would do if I could get civilized warfare.

north of England my mother used to it pure. For my parkin I took 2 lbs. "Every sane human being is agreed use burdock and other wild herbs for fine oatmeal, 1 lb. flour, 3 lbs. treacle, that this long-drawn fight for time that various uses but I myself have but a property of the most important. ner for a linen handkerchief. As shown respond with any of the lonely Ingle ting it cool. here, it would require very fine pearl Nookers if they will say so when writing lustre and skilful fingers. But one who to the Nook. I should also be obliged NORTHUMBERLAND LASS.

above the initial, and making the other tion. I forwarded the card to Minneso far from Winnipeg that you will so rapidly, and that makes me all the never be visiting the city. Can't you more regretful. Write us on Mothers and Daughters, won't you?—D.D.)

The tree will be dragged out of you again. The space time to make a call on the Ingle and Daughters, won't you?—D.D.) Nook some time when you are in?

The only books that I can find that would be of use to you are "The Story of Plant Life," 50 cents; "Studies of Plant Life in Canada," colored plates, \$2.25; Spotton's Botany, Manitoba edition, 90 cents.

Undertaking to learn French without a teacher is pretty brave, though with your ability for self-teaching you will your ability for self-teaching you will doubtless be able to get grammar points and easy reading. If you had comeone and patients. He made this classinear to correct your exercises sometimes, and to give you some little idea of the pronunciation, it would be an immense

it would make a pretty cover for a a grammar and dictionary to start with, age patient looks upon the average docphoto frame, especially if put over a anyway. You can order any of these tor very much as a non-combatant looks unmolested. dictionary, and those can be got at are between him and the enemy, the Eaton's for 90 cents each.

A POPULAR DISH

be much better for the sick room. I run. But we non-combatants console made Yorkshire parkin with this meal ourselves with the reflection that it is Dear Dame Durden:—I am writing after the following recipe, and intended your business to make the best terms to tell you that I appreciate Ingle Nook to send Dame Durden a little sample, you can with Death on our behalf, and very much. My husband and I reside but it got eaten up too quickly. I can- to see how best his attacks may be diin the country, although we are not not get the pure cane syrup here, and verted and delayed, and that when he farming. Could you tell me where I corn syrup is too light and molasses too insists on driving the attack home to see various uses, but I, myself, have but a 9 ounces lard and dripping, 2 teaspoons we call life is one of the most important vague knowledge of wild herbs. Do baking powder, \(\frac{3}{4}\) lb. sugar, 1 ounce things in the work. It follows, there-you think, Dame Durden, I could ground ginger. Put the shortening and fore, that you who control and oversee learn to read French books correctly treacle together on the stove till melted this fight, and you who will reinforce the if I bought the necessary books and and warm. Mix all the other ingre-lines, are among the most important taught myself? While attending school, dients well together, then stir in the people. my parents were often informed by warm liquid with a cup of sour milk "Certainly the world treats you on teachers that I did much better when added. Stir well, but stand till next that basis. It long ago decided that you

WISHFUL-TO-LEARN.

LITERARY SOCIETY

PATIENT'S ADDRESS TO DOCTORS

fication at the Middlesex Medical School when he distributed the prizes. Mr. Kipling, who spoke in a fluent conversa-Figure 2 can easily be used for a help. Here are some good books for variety of articles. As the four corners you to choose from:—High School are exactly the same, only one needs French Grammar 200 control of the same of t are exactly the same, only one needs French Grammar, 90 cents; Cassell's perienced a certain delicacy in confessing that he belonged to the patient class ever since a doctor told him that all holed or hemstitched edge it would gated, 25 cents; Beginner's French, 65 patients were phenomenal liars where their symptoms were concerned. He would very much like to talk about his

through this office except Spotton's on the troops which are fighting on his

Figure 3 is the design for buttonDear Dame Durden:—I found out the permanently mobilized army which tering any port in the world; you can
the permanently mobilized army which tering any port in the world; you can
the permanently mobilized army which tering any port in the world; you can

left to myself with a book than when day, bake in flat tins in a moderate have no working hours that anyone is Figure 1 shows an embroidered corinstructed. I should be glad to coroven. Remove from pan before letextreme bodily illness will excuse you, in its eyes, from refusing to help a man (I think you could change your name who wishes to call you up at any hour has not done much eyelet work can if you would forward enclosed to Minne- to Able-to-Teach very appropriately, of the day or night, whether your are in and the members will agree with me, in your bed or your bath or on your holi-(Thanks for your words of apprecia- for you always bring along a grist of day. If any of the children of men good recipes and ideas. I'm sorry I have pain or hurt you are bound to hahal and she, no doubt, has written missed the parkin. It was a complisucor them, and what little vitality you since receiving it. You are not ment to its goodness that it disappeared you have accumulated in your leigure ment to its goodness that it disappeared you have accumulated in your leisure

"In all times of flood, famine, plague, pestilence, battle, murder and sudden death, it will be required of you that you report for duty at once, that you go on duty at once, and that you stay on duty until your strength fails or your

conscience relieves you.
"These are some of you obligations, and I don't think that they will grow any lighter. There is no eight-hour working day for doctors. Does there exist any change in opinion which allows a doctor not to attend a patient when he knows the man never means to pay the bill? Is there anything to prevent a man of means from taking all the advantages of a free hospital, where he can get the best treatment and cork legs and glass eyes for nothing?

"It seems to be required of you that you should save others. It is nowhere laid down that you must save your-selves. That is to say, you belong to the privileged classes. Let me remind own symptoms on this occasion, but you of some of your privileges. You he had been instructed to talk not about and kings are the only people whose explanation a policeman will accept if you exceed the legal limit in your car. On presentation of your card you can go amongst the most riotous crowds

"If you fly the yellow flag over a Botany, and the French grammar and dictionary, and those can be got at are between him and the enemy, the into a desert. If you fly the Red Cross flag over a desert you can turn it into a "I have had the good fortune this afternoon to meet a number of trained men who in due time will be drafted into knees. You can stop a ship from en-

To paraphrase Caesar's remark, the directoire gown came—was seen—and has conquered. So fat ladies are reduced, so to speak, to the necessity of either reducing at a very rapid rate or eliminating themselves from public view until the fashion dies out. Other-

wise they risk being ridiculous.

Since many fat ladies will not eliminate themselves, however, but, per contra, will insist on wearing the curveless gown, no course is open to this wellmeaning scribe other than to tell them how they may eliminate the fat.

What is there, then, that reduces fat safely? What pleasant inexpensive article is there on druggists' shelves that can reduce a pound a day without causing wrinkles or stomach ache? What can the pharmacists offer as an improvemnet over scanty victuals or ten mile walks without breakfast? Is there anything pleasant to take and inexpensive to buy that will reduce one and fasten on with a fancy pin, or cover the stitches with a tiny strap of the linen. One of its great virtues is the ease with which it is laundered. A quieter of a yard of linen will easily make half a dozen.

6107 Child's Cost.

Gored Skirt,

6106 Boy's Russian

Medium 36 or 38.

Large 40 or 42 bust.

The above patterns will be sent to only the figure representing the age. Allow from ten days to two weeks of ten cents per pattern. Be care-in which to fill order, and where two of ten cents per pattern. Be care-in which to fill order, and where two of ten cents per pattern. Be care-in which to fill order, and where two of ten cents per pattern. Be care-in which to fill order, and where two of ten cents per pattern. Be care-in which to fill order, and where two of ten cents per pattern. Be care-in which to fill order, and where two of ten cents per pattern. Be care-in which to fill order, and where two of ten cents per pattern. Be care-in which to fill order, and where two of ten cents per pattern. Be care-in which to fill order, and where two of ten cents per patterns. Suit, 2, 4 and 6 years.

Large 40 or 42 bust.

The above patterns will be sent to only the figure representing the age.

Allow from ten days to two weeks in which to fill order, and where two of ten cents per pattern. Be care-in which to fill order, and where two of ten cents per pattern. Be care-in which to fill order, and where two of ten cents per pattern. Be care-in which to fill order, and where two of ten cents per patterns. Be care-in which to fill order, and where two of ten cents per patterns. Be care-in which to fill order, and where two of ten cents per patterns.







6104 Misses' Nine



ful to give Correct Number and Size numbers appear, as for waist and of Patterns Wanted. When the Patsideas that are workable. Won't send them in, with drawings, if send them in, with drawings, if Dame Durden.

Dame Durden.

ful to give Correct Number and Size numbers appear, as for waist and for 15 cents they of he will give you need only skirt, enclose ten cents for each number. If only one number appears, the send them in, with drawings, if mark 32, 34, 36, or whatever it may be. When Waist Measure, 22, 24, and for 15 cents they of he will give you one large case of these safe fat reducers, containing so generous a quantity of tablets that sometimes one case only is ten cents will be sufficient.

Address: "Fashion Department," the Farmer's Advocate," Winnights, and for 15 cents they of he will give you one large case of these safe fat reducers, containing so generous a quantity of tablets that sometimes one case only is ten cents will be sufficient.

Address: "Fashion Department," the Farmer's Advocate," Winnights, and for 15 cents they of he will give you one large case of these safe fat reducers, containing so generous a quantity of tablets that sometimes one case only is ten cents will be sufficient.

The Farmer's Advocate," Winnights, and for 15 cents they of he will give you one large case of these safe fat reducers, containing so generous a quantity of tablets that sometimes one case only is ten cents will be sufficient.

The Farmer's Advocate," Winnights, and the produce the desired results.

Can you match that for a simple solution of your problem?

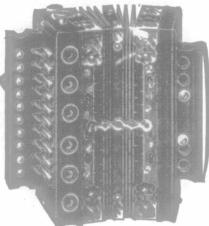
ful to give Correct Number and Size numbers appear, as for waist and

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streets to be pulled up or houses to be He assimilates certain convention

you always will be exposed, to the contempt of the gifted amateur, the gentleman who knows by 'instinct' and most effectively applies it when necessary. tleman who knows by 'instinct' everything that it has taken you years to tion does not exist, and here their perlearn. But the work goes on, and will sonality is quite as effective. go on. You remain, perhaps, the only class that dares to tell the world that motion in hat-raising, and yet not be in we can get no more out of a machine any way well-mannered. In fact, courthan we put into it, and that if the tesy is one of the most poignant weapons father has eaten of forbidden fruit the in the hands of a blackguard. He may, children's teeth are likely to be affected. under its cover, use all his malignant You are going to join a profession in sarcasm, and still be irreproachable for which it pays, not only to tell the truth, a moral whipping; however, courtesy, but in which you are paid to tell the handled by one who possesses it as a truth. Its responsibilities and death natural asset, can do wonders. Its ate are high, and I sincerely hope that you will have enough work to do and gatherings, for there it is the means of enough strength to do it."

WHAT OF OUR MANNERS?

We often hear wails from those antediluvian meanderers who are always croaking about lost arts, and the good old times, which, together with being hackneyed, are erroneous to the ex-

Why regret lost arts when we have a tolerable abundance at the present day to satisfy all immediate demands? It is like a man regretting the loss of a nickel while he has a five dollar bill aboard. Our present day arts and manners are, no doubt, of more avail than the fossilised paleolithics would be, and no doubt, the manners of a hustling community like that which is found on this side of the Atlantic are more serviceable than the minuet species; in fact, the latter would be ludicrous if displayed by a suburbanite trying to obtain a seat with the aid of ju-jitsu on the home-going car.

Manners are not easily cultivated, but a kind of counterfeit can be acquired. The former are more or less bred in the hone; in fact, the individual who possesses savoir bivre is really not aware that he or she has good manners, so spontaneous is it. It is those who have doubt as to their ability to behave who are always on tenterhooks; these, as a rule, become obsequious, and often servile. It is not an essential of good behaviour to acquiesce on every subject propounded by your host, for it will give him an erroneous idea that he is an oracle. Some hosts relish an argument, but on the other hand, if they dislike controversy, there is no need to make any pointed remark showing that you think either way.

We have heard of people who at functions committed errors in etiquette, the frost. hardly looked upon as a blunder; also we have known cases in which the defaulter has made the mistake ludicrous by self consciousness and an overdose of so-called manners.

Is it not natural that human beings if they can be described by that adjective, would appreciate an artless feeling in manners such as would appeal more to the heart than to the god or goddess Convention? Behaviour is more or less like many other customs and theories surrounded by an indiscreet uselessness, and amended till they would be irrecognizable by their originators. In the beginning there was a certain instilled code of behaviour which was more innaturalness therein.

entertainments, neither is it necessary subscribe.

on board in mid-ocean until an opera- is not built by manners, but is a natural tion is concluded. You can cause product, as is an artist or author. burned down, and you can count on the alities which we have made a necessity, warm co-operation of the nearest troops in the same way that the artist has to see your prescription properly carried out.

"Well, you have been exposed, and has also, like the artist, learned how to We still find gentlemen where conven-

> We may have a system of perpetual effect is most pronounced at social making everyone enjoy themselves, it brings out the reserved members, and by judicious questioning can make the foolish wise, by sagacious banter it quells the boastful, leading the conversation into channels that are available to all present. It does not take an abundance of imagination to see that the spirit of savoir bivre is beyond the pale of education, and is a natural acquisition only given to a chosen few Victor P. Carter.

The Western Wigwam

A DISAPPOINTMENT

Dear Phila Delphia:—I was sorry indeed to miss you when you came through Winnipeg. The letter announcing your coming did not reach me until Monday morning. I at once called up the hotel and they told me no one of your name had registered there. In your letter you did not say which Sunday, so I waited a week and then called up the hotel again with no better results. Then your card came from the States and I had to give in to the disappointment. Perhaps some day there will be another opportunity. Hope to hear from you that you are quite recovered in health.

With best wishes, COUSIN DOROTHY.

THE ONLY BOY IN SCHOOL

Dear Cousin Dorothy,—This is my first letter to your Corner. Our house is in a beautiful bluff; there is an opening on the south side. We have a nice flower garden, and a vegetable garden, too, and most of the vegetables escaped

CATE for a number of years. I like to read the letters in the Children's Corner. I have been puzzled how to earn a watch. I wish Cousin Dorothy would tell me.

We have about twenty head of fine. pure-bred cattle, eight horses, and three colts, a dog, and five cats.

I am ten years old, and am in the third reader. Did you ever hear of a school with only one boy in it? I go to the school. I have one brother and two sisters. I will close wishing your Corner every success

WILLIE IVERACH (10) Man. (a)

(You can earn a boy's watch by getting three new subscriptions to the stinctive than distinctive, and with the FARMER'S ADVOCATE for a year at \$1.50 aid of exaggerators we have managed to each. That doesn't seem very hard successfully obliterate all the true work, does it? The new subscribers you get can have the paper from now It is not exactly polite to give your entertainer the impression that you think him a here whilst enduring his busy right away and persuade them to

to give exaggerated expressions of No. I never heard of a school before

Is Mrs. William Noxon, King St., Picton, Ontario, who was cured of Eczema by D.D.D. Prescription

"I have used the D.D.D. Prescription and I feel safe in recommending it to all skin sufferers as a fine medicine. I suffered so much from Eczema before I knew of D.D.D. that I feel more than grateful for what it has done for me." There are thousands of people throughout Canada and the United States who feel just as grateful as Mrs. Noxon to D.D.D.—because it has cured them after doctors and drugs failed.

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Given for Selling Colored Xmas Postcards, 6 for 10c.

While visiting the Franco-British Fair in to give exaggerated expressions of enjoyment whom being handed an album containing the portraits of people in whom you are in no wise interested. A person possessing manners in their natural form would have sufficient knowledge of the world to know how both catastrophes should be met, and would, by the aiding the case should be dealt with.

We have always have a rought up to believe that "manne and ke a gentleman." Now, as a sale, a gentleman." Now, as a sale, a gentleman of the portraits of people in that had only one boy in it. But once that had only one boy in it. But once that had only one boy in it. But once that had only one boy in it. But once that had only one boy in it. But once that the biggest and best furriers there for a supply of the Finest Fur Scarfs ever given as premiums. It is the fashionable fur now, 6 feet long, and can will be a stay there, I'd have called them. William William William William William William III had been got the fashionable fur now, 6 feet long, and can will be a show the fash of the biggest and best furriers there for a supply of the biggest and best furriers there for a supply of the biggest and best furriers there for a supply of the biggest and best furriers there for a supply of the biggest and best furriers there for a supply of the biggest and best furriers there for a supply of the biggest and best furriers there for a supply of the biggest and best furriers there for a supply of the biggest and best furriers there for a supply of the biggest and best furriers there for a supply of the biggest and best furriers there for a supply of the biggest and best furriers there for a supply of the biggest and best furriers there for a supply of the biggest and best furriers there for a supply of the biggest and best furriers there for a supply of the biggest and best furriers there for a supply of the biggest and best furriers there for a supply of the biggest and best furriers there for a supply of the biggest and best furriers there for a supply of the biggest and best fur London, Eng., last summer, we arranged with one Matal Fremium Co., Card Dept. 17F, Toronto.

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Initial

GIVEN FOR SELLING COLORED XMAS POSTCARDS Gunmetal case, open-face fancy dial, stem wind and set, guaranteed works. Your own initial in a fancy gold letter on the back case. Man's size given for selling \$3.60 worth, or Lady's size for selling \$4.80 worth of lovely Christmas Postcards; 25 cesigns, all gems of art; many richly embossed on solid back. They are worth 5c. At 6 for 10c you have only to hand them out and take the money. Just say you wild oyour best to sell the cards and write your name and address plainly. The Gold Medal Premium Co., Xmas Card Dept P 17 Tenanto.



Repairing

F you are, don't forget Lathat a good roofing means dry feed, healthy cattle and poultry, and properly protected farm implements. It means dry buildings, and dry buildings save money.

Let us write you a personal letter and tell you why

ROOFING

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PAROID is not an experiment; it has been used for years; it is time tested; it is the easiest roofing to lay. Comes in handy rolls with rust-proof caps and nails, and complete directions for laying inside.

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Write us and let our special building expert write you a personal letter and give name of nearest dealer.

F. W. BIRD 2 SON, (EST. 1817)

Hamilton, Ont.

A FLOCK OF "WHYS"

Dear Cousin Dorothy:-I have been silent for quite a while, but have not neglected to read the Corner. I like the pen names and hope we may change the Corner's name soon. What do you think of this for a name for our corner, "Wild Rose Bush?" I see some of the members are saying they do not like pen names, but I think that if they did not want them they should have said so long ago. As we have started in to change the corner we might as well make a good job of it.

Now I guess I will ask some questions,—I think they all begin with "Why" for I am rather inquisitive.

Why not, when we write our second and third letters, instead of telling all about the stock, and the health of the folks at home, tell a story taking for our topic an adventure that we, or someone else, have had?

Now that we have pen-names, why not have the addresses printed, also the dates the letters were written? And if the cousins that write would kindly tell what kind of weather they were having where they lived, we might establish a kind of weather bureau. I may have made a mistake in saying, "If the cousins that write," but I know quite a few people in this country that take the Advocate, and lots of children read the corner but do not write, and I think that whoever reads it and takes an interest in it is a sort of member. Is my statement correct, Cousin Dorothy?

Why are not the ages all given.? Why do you leave off grading some of the letters.?

Why not, if we decide in taking, "Duck Pond," or, "Wild Rose Bush," for a name for the Corner, have a duck in the position of flying on either side of the name, or for the name that I suggested a bunch of wild roses on either side would be nice. What do the rest of the Cousins think about it?

I see a few of the members say they are sending drawings, but I haven't seen any of them published. Were they not good enough or what?

This has been a very dry summer out in this country and hardly anyone will have a good crop. The prairie fires have been something terrible, but it has been raining a few days now at last, and I hope the fires are all out

I am afraid my letter is getting rather long, but I'll soon be so old you won't allow me to write, so please excuse me this time.

DEW DROP. (15) Sask. (b)

(I'm going to leave some of your questions to be answered by the members, but will answer one or two for you now. The ages are not all printed in the paper simply because the writers forget to put them on their letters, and it would never do for me to guess at them, would it?

No one in the office cared to do the grading on the letters that came while was away.

When the new name is finally decided upon, an appropriate heading will decorate our page. I am not altogether satisfied with any name that has come in yet.

I've answered three questions, now I'm going to ask one:—Why do not members who use pen-names send their real names, too, and so obey the rules?

FROM UNCLE SAM'S SIDE

Dear Cousin Dorothy:-I will try again to get acquainted with the Corner, as my first attempt proved a failure. I am from Uncle Sam's side. We have been here nearly three years and my papa has taken the FARMER'S ADVOCATE during that time. I enjoy reading the letters in the Corner very much; I think the idea of having pennames a very nice one. My papa owns four sections of land in a beautiful valley between the Rocky Mountains and the Porcupine Hills. Our nearest town Lundbreck, is seven miles south of our ranch. There are three coal mines in the town. I do not go to school as the school is five miles from us, and the winters are too cold for my sister and I to go, so we study at home and mamma is our teacher. We also

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If so, we advise you to secure at once a holding on the

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which we are offering in blocks of five to twenty acres at

REASONABLE PRICES.

The land is rich, black, alluvial soil, practically cleared, free from timber and easily placed under cultivation, when it yields very heavy crops of all farming and market garden produce.

It is the nearest land of its class to Westminster and Vancouver on the new Electric Railway to Chilliwack, which lines runs direct to the property. In addition, the V. V. & E. Railway and the Serpentine River both traverse the estate and are available for transportaion.

The Essential Elements of Successful Farming Soil, Climate, Transportation and Large Markets

are present in marked and unusual combination, making these farms ideal propositions for new settlers.

We can show samples of fruit grown on the land. We will send plans and full particulars on application.

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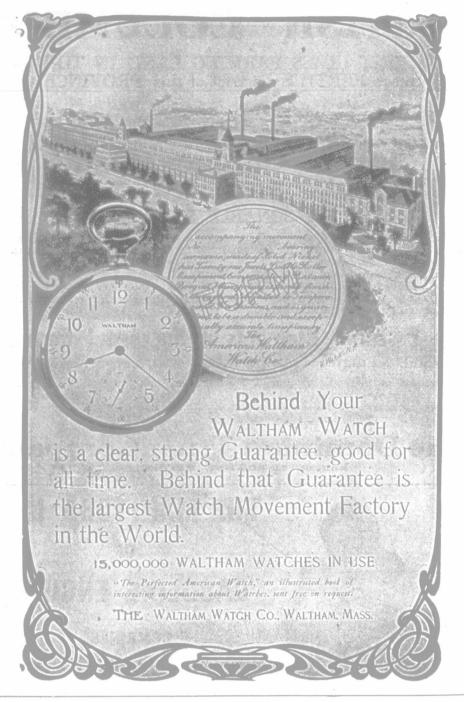
The Manitoba Windmill & Pump Co. BRANDON, MAN. Box 301

Given for selling Colored Picture Postcards, 6 for 10c.



This Charming Fairy Princess has flown thousands of miles over land and sea from the far-away famous Black Forest of Germany, the homeland, of all the fairies, and is now here in Toronto stopping with us till some nice little girl invites her to her home. Like all fairies, she is as pretty as a picture, and, being a Princess, she is the prettiest of all the fairies. She is 20 inches tall, and is beautifully dressed from top to toe Has a straw hat, edged with what lace and trimmed with a pak rose and pink ribbons; curly hair: a sweet little face with a peach-bloom hair; a sweet, little face with a peach-bloom complexion; laughing eyes, and lips just parted, showing a row of pearly teeth. Her dress is made in the latest fashion from a delicate pink material, with an overdress of sparkling, gauzy silver veiling, trimmed with pink satin ribbons and bows and pink roses and she has white stockings and dainty white slippers, with little silver buckles. She is exactly like her picture which was drawn by a fine artist. She will come to you on one simple condition, which is that you sell for us only \$3.00 worth of Lovely Christmas Postcards; 25 designs, all gems of art; many richly embossed on solid backgrounds of gold; all brilliantly colored They are worth 5c each. At 6 for 10c you have only to hand them out and take the money. Here is your chance to have a Fairy Princess of your very own, to live with you all the time, to play with you, sleep with you closing her eves just as you do. She will make you happy and contented all day long. You may never get another chance like this, so don't miss it. Send to us for the cards right away. Write our name and address prainly. The Gold Medal Premium Co., Card Dept., Toronto.

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Write Us

Sign Blue Star The Blue Store 452 Main St. Chevrier & The Blue Store Winnipeg, Son (ESTABLISHED 1872)

take music lessons. We have a room we call our school room.

The snow storm this September did not damage the grain like last year, as the farmers had their grain all cut. Well, this is a long letter for the first one, so I will close hoping this letter will find a place as I would like to be a member of the Children's Corner.

Alta. (a) IDAHO (9).

THIRTY-SEVEN PRIZES

Dear Cousin Dorothy:—It is a long time since I have written a letter to the C. C. and I am going to intrude once more. I am twelve years old now, and think I am a better writer than when I last wrote you. I am in grade six, and my sisters, Mildred and Olive, are studying for their third. We have a very fine school and always good teachers. I like going to school very

Well, Cousin Dorothy, I must tell you how many prizes we took at our fair, which occurred on August the 4th and 5th. I took first on doll, and mamma took three firsts on buns, first on mushroom catsup, three firsts on barred Rock fowl, one first on ducks. Then we got first on Yorkshire pigs, two prizes on cultivated grass, also sixteen firsts on vegetables, also first on col-lection of vegetables. In fact we took thirty-seven prizes altogether, and we have for several years taken about the same amount. My papa understands gardening well, and he uses Steele Briggs' seeds which, he claims, are the best to be obtained, he having tried a few from most houses, but now he only uses the one kind. We had corn fine for the table on the 28th of July, and I did not hear of anyone else having it fit till about the 15th of August. You will think it strange when I tell you I sell vegetables after school hours. I sell from one to three dollars worth every day, sometimes four and five dollars. Of course I have a pony and buggy and take orders first, then deliver later on. I really like it, but my sisters would not do it for anything. I had a very fine dog that will do almost any thing: Go on the prairie and get our cows from herd, bring them home and drive them in pen and is also a splendid bird dog; no matter how many ducks are shot in a slough, she will get every one, this was my own dog, a school mate gave it to me when a pup, now my brother owns it. He gave me an even trade for a pony, so now I own the pony and he owns the dog.

Well, Cousin Dorothy, we are having very poor weather for threshing, have had so much rain and cloudy weather that the grain in stook will not get dry. I suppose we are not the only ones. likely other countries are just as bad or worse, of course, I do not know much Manitoba in the same house we live in now, also both my sisters, but my papa was born in Cirencester, England; my mamma in Parkhill, Ont., and my brother in the U.S.A., but he was very voung when he came here with papa that he claims to be a Canadian now, which I think is quite right. I will not write a long letter this time.

BLANCHE CLIFFORD.

Lemon biscuits.—2 cups sugar, 1 cup lard, 2 eggs, 1 cup milk, 5c worth ammonia, 5c worth oil of lemon, flour to stiffen. Knead twenty minutes, cut with square cake-cutter.



EE A MOTHER'S EE HAPPY THOUGHT.

A lady writing from Ireland says:—"I went to see my sister's baby, who was very ill indeed. She had been up for nights with him without undressing; he was crying all the time as with some internal pain. The doctor told her he could do nothing except put him in a warm bath, which gave him a little case for the time being.

him a little ease for the time being.

"I thought of STEEDMAN'S SOOTHING POWDERS which I used for my own children; and next day I sent some to my sister, when she gave the child half a powder according to directions. For the first time for a fortnight she and the baby, and, in fact, all the bousehold, had a good night's sleep, and the little fellow has continued to improve ever since."

These powders do not contain poison,

These powders do not contain poison, nor are they a narcotic; but they act gently on the bowels, thus relieving feverish heat and preventing fits, con-

vulsions, etc.

Please notice that the name of STEEDMAN is always spelt with EE.





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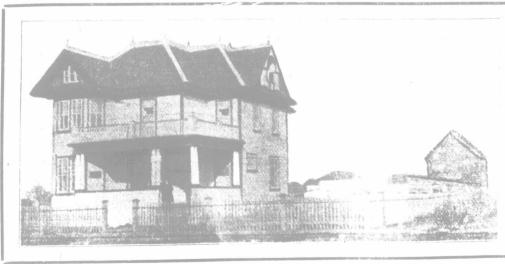
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Exchange your improved farm for this splendid City Home. This is a photo of a ten roomed fully modern house. It has electric light, hot air heating, has water connections, eistern, only built two years. Centrally located in Windows Corner lot 63 x 120 ft. fenced, stally, carriage sheds. One of the best ten built sections of the city. As owner, it will seet one for improved farm land.

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THE SUPERIOR QUALITIES OF TOWER'S 1000 FISH BRAND SLICKERS. SUITS AND HATS are the men who have put them to the hardest tests in the roughest weather. Get the original Tower's Fish Brand made since 1836 CATALOG FREE FOR THE ASKING OWER CANADIAN CO LIMITED, TORONTO, CAN



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Send for our Circular in reference to CUSTOM-TANNING, HEAD-MOUNTING. COW-HIDE ROBES, COATS, ETC. CARRUTHERS & CO., Brandon, Man.



"SHOULD LAST FIFTY YEARS" says Mr. R. Nagle, of Mount Brydges, Ont. about our Corrugated Sheet Roofing. He adds: "I think it is as near perfection as anything I ever saw."

Our "Acorn Quality" Corrugated Sheet Roofing and Siding makes an absolutely lightning-proof barn construction, besides being quickly put on. Our Galvanized Sheets show no signs of wear, even on our earliest work years ago. Such Roofing prevents all moisture or dampness.

> iare & Brockest, Winnipeg HERS to the FARMERS OF CANADA

Questions and Answers

In the course of a year quite a few queries addressed to this department are tossed over the end of the editor's desk into the waste-paper basket, because the persons sending them in have failed to comply with our rules, which require, in every case, that the name and address of the sender must be given. We require this as a pledge of reliability on the inquirer's part. We do not maintain this department for the answering of any kind of questions to send in. We maintain it for the purpose of answering inquiries of bona fide subscribers. contribution. Not for publication that the editor may know who you all the others seem perfectly well. are and where you live. This rule is never departed from. Unsigned

COLLECTING A NOTE

I sold some machinery to a party that lived in Saskatchewan till May 1st, 1907, then he came to British I took a lien note, due the exemptions in B. C.?

Ans.—From the reading of question we assume that you took this they will do if water is withheld. the lien note in Saskatchewan. We also assume from your question that the party making the note took the goods out to B. C. with your conedge. You could not take the goods from B. C. with the security as you have it. We have not a copy the exemptions in B. C. You could get a copy of this by writing to the Deputy Attorney-General, Victoria, B. C.

HORSE HAS GENERAL DEBILITY

I have a horse, seven years old, which is in very poor condition. He seems to have no strength at all, eats good. He didn't shed his hair last spring, and seems hide-bound. Have seen no signs of any worms passing. Just now, too, his stifle is swollen at the lower extremity. Please diagnose and prescribe.

Alta. Ans.—In the first place have his mouth carefully examined for any be used in making carbolic oil? irregularity of the teeth, if they are found to be at fault, have them attended solution of arsenic, continue this medi- of one part of the acid to twenty of oil.

cine for two weeks, then rest for a week, and commence again for another two weeks. Feed an occasional bran mash, with carrots or a turnip every day Boiled flaxseed once a day mixed with his grain, or bran mash, would benefit NAMES AND ADDRESSES NOT GIVEN him. The swelling below the stifle is the result of his debilitated condition, and will disappear as he improves.

Give gentle exercise every day.

DEATH FROM MECHANICAL PNEU-MONIA

About two weeks ago I noticed one of my last year's colts to be very bad with diarrhoea, and we had great difficulty to get her into the stable. On examination I found a puffy swelling between the front legs, also half way which anybody in the country cares under the belly. I consulted the veterinary and described the symptoms. He gave me some powders to If any reader stop the diarrhoea and restore the aphas ever sent an inquiry in to us, petite, but did not think the swelling and, after a reasonable time, has accounted for anything. I kept her in failed to find his question answered a loose place by herself, where she stood in this or some other department of almost in the same position and never the paper, he may conclude that he lay down for over a week. She drank has failed to comply with our re-very little water and would eat no soft quirements. There are no hard rules food, but picked away at hay and dry hedging anybody out from the oats. The powders did not appear to columns of the "Farmer's Advohelp her so I drenched her very often CATE AND HOME JOURNAL." Any with flour in cow's milk. The diarrhoea Any with flour in cow's milk. The diarrhoea subscriber or member of a sub-stopped and her bowels became quite scriber's household may write us on natural and she seemed to get brighter any question at any time, and if his and more eager for food. I bathed her letter is signed it will receive the under the belly and chest with hot attention of the editor. An answer water, which took away the swelling will be printed if it is a query, or but she was always moist in these if it is an article on some subject in-places with an exudation. Two days tended for publication it will be ago she lay down, and though she often printed in due time, providing the tried, was never able to get up-not matter discussed is of sufficient gen- even with our help. She showed no eral interest. Every department of signs of uneasiness or pain until last this paper, except the editorial, be-night, when she began to breathe longs to our readers. They may faster and tried to cough now and then longs to our readers. They may faster and tried to cough now and then write in them on any question they This morning I could hear the heart wish, but the name and address of beat a long way off and by noon she the writer must accompany every was dead. What was her trouble? She was running in a good pasture along unless the writer desires, merely with seventeen horses and colts, and

Ans.—Your colt became much weak letters never receive any considera- ened by the severe attack of diarrhoea. The puffy swelling (Oedema) between the fore legs was the result of a weak heart, and the system being depleted by the diarrhoea. But we think the actual cause of death was mechanical pneumonia, brought about by some portion of the flour and milk drench accidentally finding its way into the 1st December, 1907 (now nearly a lungs, instead of the stomach. Acyear over due). I sold this note cidents of this nature frequently occur to another party in Saskatchewan. in cases where the animal is drenched How will he proceed to collect this with viscid substances, such as flour note? Can his stock and imple-gruel, and often linseed oil. When it ments be seized here? What are is necessary to adminster a liquid containing flour, it is better to make it J. W. S. of such a consistency that the animal nail voluntarily drink

DRAINAGE FROM A DITCH

I own 800 acres of land. A ravine sent, at any rate with your knowl- runs through it. I cut not less than 50 edge. You could not take the tons of good wild hay off it annually. My neighbors are draining land miles to the south of me and are at present just about to continue this "Zoot Ditch" right through the centre of my ravine. I am told I cannot stop it The excavated earth thrown on each side of the ditch spoils all my hav Have I no recompense? If my cattle get into this wet hole and are mired and lost have I no recompense?

SUBSCRIBER Man. Ans.—If the work referred to is being well, but the food seems to do him no done under the "Drainage Act" there are proper remedies provided in that Act, and you had better consult your solicitor. If it is being done by private parties you can obtain damages.

FORMULA FOR CARBOLIC OIL

What per cent. carbolic acid should Sask.

Ans.—Carbolic oil is made by simply to. As he did not shed his coat last mixing carbolic acid and either raw spring, we would advise you to clip him. linseed oil or olive oil, in varying This would give the skin an opportunity proportions, according to the use it is to perform its functions. You must to be put to. For instance, earlolie then use a blanket on him or he will acid one part, oil eight parts, make a suffer from the cold. Give him in about stimulating mixture to be used on old three quarts of drinking water three sores that heal very slowly. For times a day, a tablespoonful of Fowler's ordinary uses it is made at a strength. Toronto. 3 boxes for \$1.25. Send to

part of Canada you live in, you can have your suits and overcoats made to vour own measure by our city tailors - in the latest styles - of the newest weaves and patterns - and your money back if they are not entirely satisfac-tory. Prices, \$12 to \$25.

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A FARMER'S ARM

Some Sensational Proofs of Its Healing Power.

Every day brings interesting instances to light of the wonderful healing power of Zam-Buk, the herbal balm. Mr. Wm. Snell, a Langenburg (Sask.), farmer, says:—"I saved my arm by using Zam-Buk. I had a terrible scalding accident and the arm after the injury 'took the wrong way.' When I started to use Zam-Buk it was all swollen up and discolored, and I feared it would have to come off. In a few days Zam-Buk killed the poison, reduced the swelling, and finally healed the arm

ECZEMA CURED. Mr. J. E. Cusick, of 249 Wilson St., Hamilton, says:-'Every winter I used to have eczema on the back of my hands. Last winter I was especially bad—so bad that I had to be off work for three weeks. suffering acutely I was advised to try Zam-Buk, and did so. I could not have believed anything could have healed so quickly! It just seemed to dry up and clear away the sores, and in a wonderfully short time my hands were quite

PILES CURED. Mr. Neil Devon, of Webbwood (Ont.), syas:—"For eight years I tried all kinds of things for piles. but I got nothing to do me any good until I struck Zam-Buk! That quickly worked a complete cure.

Zam-Buk heals all skin diseases, cuts and bruises, eczema, scalp sores, ulcers, chapped places, scrofulus ailments As an embrocation it cures rheumatism, stamp for dainty trial box.

Clothes Made To Your Measure at the Price of "Ready-Mades" No matter what





WANTS AND FOR SALE

TERMS—Two cents per word per insertion. Bach initial counts for one word and figures for two words. Names and addresses are counted. Cash must always accompany the order. No advertisement inserted for less than 50 cents. FOR SALE—We have a number of rebuilt Threshing Engines, Portable and Traction, in first class erder, various sizes. We can sell much below their value. Write for particulars. The John Abell Eng. & Mach. Works Co., Limited, 760 Main St., Winnipeg, P. O. BOX 481.

WANTED—Stockmen and others to get their Printing done by The FARMER'S ADVOCATE Mail Order Job Printing Department. Prices Quoted. Sample sent on application. Address Mail Order Dept. The FARMER'S ADVOCATE, Winnipeg.

MEN WANTED, good vision, under 30, over 145 pounds, for brakemen and firemen on all railroads. Experience unnecessary; pay \$75 to \$100 monthly; prometed to conductor or engineer; \$150 to \$200. Railway Association, Room 163-227 Monroe Street, Brooklyn, N. Y. Distance is no bar. Position guaranteed competent men.

PARTNER WANTED—Active or silent, in high class enterprise. One who is willing and able to assist capable experienced woman [widow] in a business that has been built up to a point that requires enlarged capital and credit. Commercial."FARMER'S ADVOCATE" Winnipeg, Man.

wanted. Farmer's Advocate. Winnipeg, Man. Wanted—Land in Canada (Alberta or Saskatchewan). A U.S. Syndicate wishes to correspond with Syndicates, Ranchers or Homesteaders, who are holding lands and wish to sell at bargain prices. Land must be close to railroad or proposed railroad, and price must be right or will not be considered. State location, township and range, quantity, kind of land, price & terms. Address, U.S. Syndicate, Farmer's Advocate.

FOR SALE—Scrip for 640 acres and for 22 detached quarter sections, East of the Rockies at \$4.50 per acre. Apply E. A. Harris, Fort Street, Victoria, B. C.

FOR SALE—An A I half section, under fine cultivation, with stock and implements, two miles from elevators on C. P. R. and three from elevator on C. N. Price and terms most favorable. N. Wolverton, Nelson, B. C.

JERSEY CATTLE—A few registered cows for sale, coming in, and I shall have young things to express from prize winners. W. Bellhouse, Galiano Island, B.,C.

IF YOU WANT to buy or sell property, any kind, anywhere, write the Northwestern Business Agency, Minneapolis, Minn. EVER HEAR of the famous Fraser River Valley, the fruit growers' and dairymans' paradise Mild climate, electric railways building everywhere. Send post-card for free booklet. Publicity Association, New Westminster, B. C.

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This department is for the benefit of paid-up subscribers to the PARMER'S ADVOCATE, each of whom is entitled to one free insertion of a notice not exceeding five lines. Notices exceeding five lines will be charged two cents per word for each ad litional word, payable in advance.

for each ad litional word, payable in advance.

STRAYED—On June 17th, 1908, one bay colored mare colt, 2 years old, white star in forehead, rather slender, halter on, no brand. One bay colored mare colt, 1 year old, white star in forehead, some white on hind legs, rather chunky build, rope around neck, no brand, last heard of near Kirkpatrick Lake, Alta. \$25.00 reward for information leading to recovery. Address, O. S. Ostgaard, Provost P. O., Alta.

through the ADVOCATE how to prenot come off? I intend to have a waist-coat made from it.

Ans.-We would advise you not to and try to prepare this hide yourself, promising young bulls. Mr. Ramsay There are certain home methods of tanning hides and skins, but as a general rule a man inexperienced in the work will get mighty poor results. A firm of reputable tanners in cows and heifers is an exceptional tional constant. are advertising in this journal, and tional one for breeding and quality, you will get much better satisfaction some of the best individuals in the by sending your calf skin to them herd being included. It looks to us than in attempting to prepare it like an opportunity for Alberta than in attempting to prepare it like an opportunity for Alberta yourself. You will find that it is farmers to pick up some choice breedcheaper in the end, too, for while ing animals at unusually attractive you will be charged something for prices. the tanning, you will have a calf hide fit for use when it is done, while if you try tanning it at home you will be out the time and materials required for the job, and very likely you will be minus a calf pelt as well.

CATTLE DAMAGING GRAIN-BOG SPAVIN ON A TWO YEAR-OLD COLT 1. How much damage can I claim

got into my wheat stooks and fed all night?
2. Two-year-old colt has a bog spavin. Is it too young to blister, or what would be best to do for it?

if fifty head of my neighbor's cattle

SUBSCRIBER. Mán. Ans.—1. It is impossible for us to estimate the damage that fifty cattle might do in a night in a field of wheat. Your best course would be to call in the man whose cattle did the damage, and a number of other neighbors, and have them estimate

the damage done. 2. A bog spavin in a two-year-old colt may be blistered, if it is con-

sidered necessary. As the animal grows older and matures these puffy tumors on the hock (bog spavins) sometimes disappear without medical or surgical interference. Unless the tumor is quite large, or is causing lameness, we would advise you not to blister, but to attend to the feet. See that they are kept regularly and evenly pared down to their natural Also be sure that the colt gets regular exercise in fair weather.

UMBILICAL HERNIA—SIGNS OF PARTURITION

I have a heifer due to calve in two veeks' time. Her udder and teats are full and tight, and she has a swelling about the size of two fists on her navel. What is the probable cause of the swelling, and can one ell a few hours or a day beforehand when a cow will calve?

Sask. Ans.—You must exercise great care Brooks, have a bad case of garget. If she breeder of Clydesdales and Shorthorns. Box 134, Pense, Sask.

With this heller's udder of you may have a bad case of garget. If she is in good condition, it would be well to give her a laxative dose of Epsam salts, about three-fourths of a pound. This should be given at She should be stabled in once. comfortable quarters, and always POPLAR PARK HEREFORDS, A number of young cows, heifers, and bulls now for sale from this famous herd at low prices. Berkshire pigs. J. E. Marples, Deleau, Man. tf the udder becoming chilled. You do navel is of recent origin, or of long standing. We presume it is an "umbilical hernia," and is of long standing. If this is the case, the fact of her being heavy with calf would likely cause the swelling to become larger. After calving the swelling will get smaller. You may then use a pad on the tumor, kept in place with a wide bandage around the body; but if it still remains large you had better consult your veterinary surgeon as to the advisability of performing an opera-

> The principle signs of approaching parturition are: The vulva becomes relaxed and placid, the inside lining s red, and there is a discharge of mucous in long filamentous streams, soiling the tail and hocks. This mucous is destined to labricate the genital passage. The ligaments of the croup also are relaxed, and the parts look hollow, the arrival be comes restless, the udder percent hard and tender to the room to before calving the plant begon soft. As parturition diams

TANNING CALF SKINS Mr. John Ramsay, Priddis, Al-Would you please inform one, berta, in sending in a change of advertisement, which is running to this pare a calf's hide so the hair will issue, informs us that he intends reducing his herd, and is offering for immediate sale, 20 cows and heffers a number of exceptionally



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PURE BRED BARRED ROCKS—A fine lot of choice early - hatched cockerels at attractive prices. Order early and get the best. Mrs. A. Cooper, Treesbank, Man.

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A. D. McDONALD, Sunnyside Farm, Napinka, Man. Berkshires and Yorkshires from prize winning stock; all ages; write for particulars.

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BERKSHIRES.—Gold Medal Herd, Neepawa, Manitoba. Address J. A. McGill. 24-4

BEN MORE, reg. Jersey herd—P. W. Reid, proprietor, Enquiries solicited. Hill P. O. proprietor, Enquir. Vancouver Is., B. C. BROWNE BROS., Ellisboro, Assa.—Breeders of Polled Angus cattle and Berkshire swine. Stock of both for sale. 13-3

CLYDESDALES,—A choice collection of breeding stock always available. Jas. Burnett, Napinka, Man. 30-1

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JAMES WILSON, Grand View Stock Farm, Innisfail, Alta.,—Breeder of Shorthorns. 13-6 JAS. BRAY, Portage la Prairie. Choice Here-ford cattle and Berkshire swine for sale. 20-JAMES A. COLVIN, Willow Dell Farm, Sedgewick, Alta., Breeder of Shorthorns and Berkshires.

JOHN GARDHOUSE & SONS, Highfield, P. O. Ont.—Breeder of Scotch and Scotch-topped Shorthorns, Lincoln and Leicester sheep and horses.

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GOSSIP

THE BLIND MAN'S ENEWSPAPER.

Of the 80,000 sightless persons in America about 35,000 are able to read blind printing. The fact that they are blind lessens in most instances their earning capacity, and inasmuch as the making of reading matter for them is a costly operation it is practically impossible without aid from wealthy people to supply them with literature.

The oldest newspaper for the blind is published at College View, Neb. It is called the Christian Record and was founded at Battle Creek, Mich., in 1900 by A. O. Wilson and his wife, who are both blind.

Wilson did the editing, his wife the printing and binding. Wilson has since engaged in other business, but his wife is still the composing room force. Four years ago the plant was moved to Nebraska.

It began with a circulation of 100 each month, and there are 6,000 names on the waiting list. These persons would like to subscribe and are willing to pay the subscription price, but the publisher is in the position of losing more money the more subscribers he

gets.
**One sheet of paper can carry but one page of reading matter, since the matter printed is read from the opposite side from that upon which the printing is done. When the magazine or book is bound it must be padded at the back to allow for the raised or em-

bossed printing. Blind printing has been in the process of evolution since 1784, but only within the last ten years has invention made it possible to place the results, either in book or magazine form, at a price that many of the blind could afford. A number of printing establishments exist in the United States, the largest being that of the Matalda Zeigler Magazine in New York city, which has the largest circulation of any printed. This is made possible by the fact that Mrs. Zeigler pays the excess of cost above the selling price, about \$20,000 a year

In most establishments the work is done by blind people. The editor writes his copy with a little machine built on the principle of the typewriter, but so small that it can be held on one knee, which embosses the letters. This copy is turned over to the compositor and the writing is reproduced on a machine similar to the one used by the editor except that it is larger, about a sewing and 11 makes the impression on thin copper plates. A foot lever is used to force the points into the metal plates. In some of the small shops the impression is made by a tap on an awl-like piece of steel.

When the metal sheets are finished the compositor or the editor does the proof-reading. If an error is detected t is necessary to smooth down the surface at that point, or if that is impossible the plate must be made over again. The mechanical difficulties involved make changes from copy very infrequent.

The metal plates are next put in the printing press on rollers. These rest against other rollers holding rubber mats. The paper runs between, and at each revolution the copper plates force their impression through the paper, turning out printed pages.

In the papers and magazines printed for the blind very little fiction is found. Some short stories appear, but seldom any serial. While most of the papers have a religious tinge, they aim to give condensations of current events.

The College View publication has a wide range of circulation. Nevada is the only State not represented on its subscription list, and copies go to Canada, England, Australia, and Mexico.—The Star

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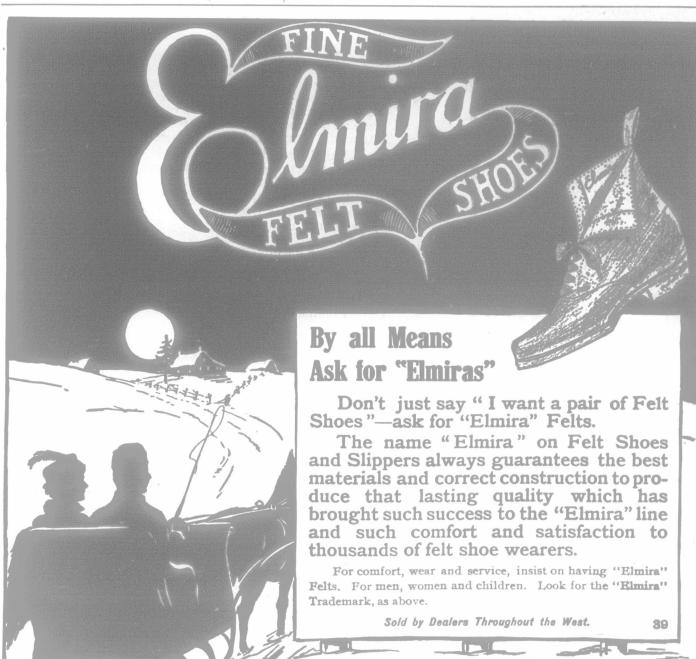
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BALANCE OF THIS YEAR FREE TO ALL NEW SUBSCRIBERS

Farmer's Advocate and Home Journal

WINNIPEG, MANITOBA

HUNTING THE MUSK-OX IN THE night, ordered an immediate move to

One of the most interesting animals of the far north of Canada is the musk-ox, and Mr. Tyrrell, in his new book, "Across the Sub-Arctics of Canada," devotes a chapter to the meat.

While several of the party were busying themselves with the arrangements of our new camp, they were hunting of these animals. In general appearance they look rather like low of a musk-ox almost at their huge, horned sheep, but in size resemble the ox, or, more nearly, the buffalo. They are found generally in search of his comrades, and had herds of twenty or thirty. In pre-historic times the musk-ox occupied a very wide area of the earth's surface, both in Europe, Asia and America, but now his range is limited to the northern parts of Canada and Greenland. "From personal obser-vation," says Mr. Tyrrell, "I have found the southern boundary of the musk-ox habitat to-day to be Hudson Straits and Bay, Chesterfield Inlet, the Thelon River, Clinton-Golden and Aylmer Lakes, whereas in the time of Samuel Hearne, one hundred and fifty years ago, we have his assertion that musk-oxen frequented the vicinity of Fort Churchill, four hundred miles south of their present haunts."

The author tells of his first musk-

ox hunt as follows: It was 11 p. m. one glorious subartic night in summer. . . . perfect silence our canoe was drawn ashore at the base of the bluff, and, having marked our ground as we approached, my companion and I selected a little gully or waterway on the side of the bluff as the best place for our ascent. The Indians, he wheeled about and faced our line. who were unarmed, crept behind close on our heels, evidently courting the protection of the rifles. The hill being high and steep, we were all pretty badly winded before the summit was reached, so a halt was made to recover breath and nerve, for by this time suspense and nervous expectation were keyed up to a pretty high pitch. A few minutes' pause, however, greatly relieved the situation, and, having examined our rifles, we cautiously crept the remaining distance until, our eyes coming level with the brow of the hill, we found ourselves suddenly within full view of nine huge, dark, shaggy forms, which, of course, we knew to be musk-oxen. comparatively close range, not more proved a huge success as a source of than one handred yards distant. It entertainment, nor was the play yet is quite impossible for me to describe the thrill of admiration and excitement which now possessed us, but in an instant we selected the two nearest bulls and pulled. Both staggered, but to our surprise neither fell, so without stirring we pulled and pulled

wild disorder. Having despatched the first two victims, we turned our rifles upon the next two most dan- I have ever seen. There on the gerous-looking brutes and brought farther side of the hill were Percy one to earth, but the other, having and the musk-ox in hot chase of each located us, and with blood streaming other around a huge boulder, the from a wound in his side, led the former calling excitedly for someone band in a furious charge straight for our position. Nor did we easily lieving my friend to be in no great evade their blood-thirsty onslaught, danger, I instead ran for my camera, but, springing from concealment to hoping to procure a snapshot of the our feet, we met them with three scene, which I did, though imperfectdeadly volleys. This so demoralized ly, for the hour of the night was now the band that only one young ox got away unharmed. The remaining As eight were either killed or wounded. In the heat of the encounter we had forgotten our Indians, but they had thought of themselves and had kept close behind us. They were now set rifle with a crash across his adto work to skin and save the best versary's adamantine head, certainly meat of the slain oxen, whilst we doing no damage, unless to the rifle. proceeded to despatch the wounded. This was by no means an easy task. interested in photography than I re-One old bull (most of the band were sponded promptly to Percy's appeal males) refused to fall until he had for assistance, and immediately upon received six mortal wounds, three of the accomplishment of my object his which I found from my own subsequent examination passed through sport was ended, at the cost of the his heart, leaving it completely shat- lives of nine noble animals. some distance, were pursued until the other opportunities of working simi-8 huge forms were stretched upon the lar destruction were afforded me durground, only the one having escaped. ing the continuance of my journey,

again before they fell.

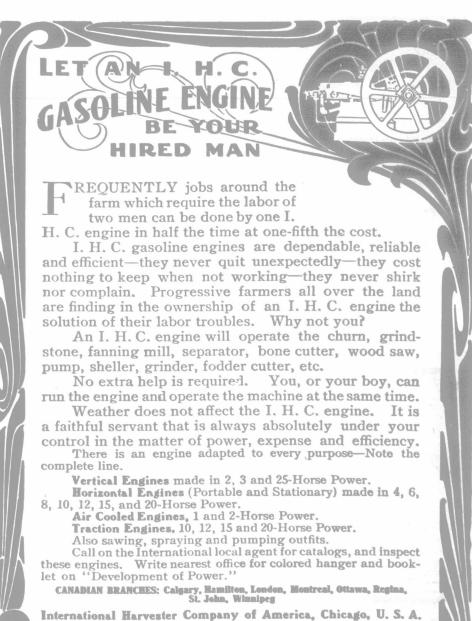
the scene of the slaughter, so that all might engage in the work of skinning, cutting and curing as much as

possible of the meat. While several of the party were ments of our new camp, they were suddenly startled by the horse bel-The young bull, which we had search of his comrades, and had given forceful vent to his feelings just at the moment when he was turning a sharp angle of the bluff within a few feet of a tent occupied by two of my companions. ing been in the tent I can only imagine the expressions depicted upon their faces, but the musk-ox, finding himself in such unexpected company, galloped past the camp and out on to a long, narrow, bare point extending into the fake. Seeing now an opportunity for sport, and preferring it to further slaughter, Mr. F. and I armed ourselves with cameras, and calling out all hands, we arranged ourselves in a line across the base of the point and proceeded to advance upon the enemy, thinking that he would likely take to the water, and that we might there effect his capture by means of a We were not long left in lasso. doubt as to the outcome of the project, nor were we permitted to push our enemy to the extreme, for, sizing up his position and evidently not wishing to take chances in the lake, For a moment, with lowered head and with fury glaring from his protruding eye-balls, he stood at bay, and then like a rocket sped straight for the centre of our line, where stood Mr. F. with his camera

A less ferocious-looking object approaching in so precipitate a manner would have been sufficient to cause most individuals to take to the woods, had there been any available, but not so with my friend, who posed like a target until at fifteen feet he snapped the flying charger and sprang to one side only in time to preserve his anatomy. Our project had failed, so far as effecting the capture of the musk-ox was concerned, They were all within for he was now gone, but it had Stimulated by the exciteended. ment of the last encounter, Percy and another member of the party secured their rifles and set off in pursuit of the ox, which exhibited an inclination to return to the place where he had lost his comrades. Several rifle shots were heard in the The remaining seven animals, apparently not having located us, were Percy's companion returned. Other thrown into a state of frenzy and shots were again heard in closer rushed back and forth in a state of proximity and quick succession, and to bring him more cartridges. Be-

> As I approached the combatants, what impressed itself most vividly upon my memory was hearing Percy exclaim, "Get out, you brute!" at the same time bringing his empty Others of the party who were less

Others which had run for I might add that, although many While the Indians were busily en- no recurrence was perpetrated or gaged in skinning the oxen, I, with permitted, knowing that I had almy companion, returned to the camp, ready overstepped the bounds of true though the hour was now mid-sportsmanship.



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with much interest the plan proposed submit them to the action of the by Dr. Nivan, Medical Health Officer authorities. The presence of one or of Manchester, and supported by Professor Delepine and Mr. Brittlebank, the Chief Veterinary Officer of tute a perfectly defensible and reathat city, which includes the form-sonable ground for official action; and ing of disease-free in lands by eradi-by making notification by owners or ing of disease-free in lands by eradicating tuberculosis from certain farms, and gradually extending the work over small districts, to be still further enlarged as the system finds favor with stock owners. While there are some features of the scheme, such as the spending of public money in specially-selected localities, to the exclusion of other taxpayers, and the supplying of sani- Koch, in 1901, has, after all, by hulldings, through bringing stimulating others to investigation tary buildings, through bringing pressure to bear on landlords, or otherwise, which are scarcely apble and likely to be productive of doubtedly caused.

ultimate benefit than the diffuse As a result of that address, we policy of promiscuously testing a veterinarians to-day know or here here over an extensive herd here or there over an extensive haps I should say, have the proofs, territory, difficult, if not impossible, conclusive and satisfactory, of many to keep under observation or control, without an enormous staff of welltrained, experienced, and absolutely conscientious veterinary inspectors, having no interest, beyond that of duty, in the herds with which they are called upon to deal or their owners. I might here say that the policy of employing local practi-tioners for this work has been repeatedly tried, and, in my experience, at least, has not, in the majority of instances, proved either beneficial or successful.

THE BANG SYSTEM

most consistent advocates and ad-There is no doubt that, if all our period of fifteen months. stock-owners were thoroughly intelli-

their herds of tuberculosis, and ground before we issue any more of gifted with an infinite capacity for these definite pronouncements which taking pains, either the Bang system make nasty swallowing later on. or that of Ostertag might be I have now briefly and inadequate-adopted with every hope of a suc- ly placed before this Congress my cessful issue. As matters stand, we views regarding the various methods must, in order to deal with bovine recommended by scientists for the tuberculosis effectively, have some control of bovine tuberculosis. While definite policy of legal control, and these views may to some appear the question, to my mind, is whether pessimistic, they are at least honest,

based on the tuberculin test. COMBINATION OF SYSTEMS PROPOSED

At present I am inclined to favor a combination of the systems of Bang and Ostertag with that of the Manchester men, accompanied by a closer supervision of infected herds than is recommended by either of the two first-named authorities, so far as I understand their methods. All clini- ground. cal, or, if they can be detected, open cases of tuberculosis, should be destroyed; all the adults in herds in which such cases are found to be treated as if diseased, marked and segregated accordingly; all milk from such herds to be pasteurized, whether used for human food or for that of animals, the progeny to be effectively separated from the adults, regularly submitted to the tuberculin test, and kept by themselves until the disease has been eliminated from the premises by the death or removal of the affected parent-stock. Any animals added to the healthy herd would, of course, have to be tested should first be taken up a question on purchase, and retested after three in regard to which veterinarians have months' careful isolation. I am hitherto, in most cases, been culfree to admit that this plan is open pably negligent. to many of the objections which I matter to-day in which veterinarians myself have advanced against the are behind the age, it is that of failother two already reentioned, but it ing to insist, at all times, in season appears to me to obviate the enor- and out of season, on the importance mous economic was e and the tre- to live stock of thorough and energy mendous popular opposition involved tive stable ventilation. Having bein the policy of compulsory slaughter, fore us the object-lesson afforded by while it promises, if systematically the medical profession, and the marapplied, and patiently and carefully vellous results which its members are

CONTROL OF BOVINE TUBERLOSIS carried out, infinitely better results than can be hoped for from that of promiscuously testing the herds of In this connection, I have read only such owners as are willing to more actual clinical caser of tuberculosis in any herd would constiveterinarians compulsory, as in other scheduled diseases, reliable information on which such action could be taken, would in most instances be While forthcoming.

As has been well said by the editor of the Lancet, in commenting on the recent able paper of Dr. Overland, of Norway, the famous address of Dr. and research, been productive of good, perhaps to an extent sufficient

things which we knew before, but were scarcely able to prove, regarding the transmissibility to man of bovine tuberculosis, and vice versa.

And this brings me to vaccination, a subject on which I have nothing to say, beyond that, up to the present, the published results of inoculation with bovo-vaccine are, from a practical viewpoint, singularly confusing. inconclusive, and discouraging. immunity acquired under the most favorable conditions appears to be of short duration, and any advantage I have nothing to say against the which may be gained is, to my Bang system itself; in fact, I am, thinking, more than offset by the and always have been, one of its danger of spreading the disease.

Where cultures of the human type mirers. I cannot, however, after are used, the risks appear to be, if thirty years' experience as a veteri- possible, even more serious. Weber narian on this continent, and with and Tirze, working under the directhe knowledge acquired in that time tion of the German Imperial Health of conditions on the ordinary North Office, report, according to Theobald American farm, bring myself to be-Smith, that the udder of a cow vaclieve that it is capable of successful cinated with a human culture shed general application on this continent. human bacilli into the milk for a

Let us make haste slowly in work gent, well-informed, anxious to rid of this kind, and be sure of our

not such control can properly be and have been carefully considered with due regard to the responsibility which the veterinary sanitarian entrusted with large interests owes to humanity at large, as well as to Dogmatize as we those interests. may, we are still groping, and in this, as in other matters of a like nature, those who have delved the deepest are the least sure of their

In the meantime, while we are waiting, as I fear we will for some time yet have to wait, the discovery of a certain and satisfactory scientific method of dealing with bovine tuberculosis, let us, as practical men, carry on an energetic campaign of education among cattle-owners and the general public. Bovine tuberculosis will be stamped out when individual owners realize that it pays much better to keep sound cattle than to lose money and feed in maintaining herds tainted with disease.

IMPORTANCE OF STABLE VENTILATION In this campaign of education there If there is one

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achieving by open-air treatment, not only helping, but actually curing advanced cases of tuberculosis, to say nothing of checking the disease, as is now daily done in its early stages, it is nothing short of disgraceful that we are yearly permitting thousands of valuable animals to become infected, owing to the insanitary conditions under which their owners insist on keeping them. truth of this contention, which is, perhaps, at first sight, rather sweeping, there is no lack of proof. In northern countries, where cattle are generally closely housed, and where a proper system of ventilation is the exception, and not the rule, we almost invariably find bovine tuberculosis rampant. In milder climates, where animals have free access to fresh air, as, for instance, among the Hereford cattle in England, it is a rare thing to find a case that disease. On the ranges, tuberculosis is unknown, except where it has been introduced by some pampered, stable-bred individual, and even such an one is more likely to recover than to die, provided the malady is not too far advanced and the first winter can be endured. To put the case plainly, stockmen are BREEDING TUBERCULOSIS a great deal faster through neglect of this important subject of ventilation than it

Black Watch

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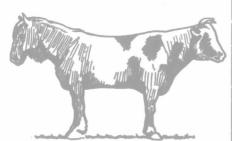
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To use a ROPE RIMMED COL-

SORE SHOULDERS CAN BE CURED by using

would ever be possible to stamp it ions, they would not have escaped as A Sure Cure For out by the promiscuous use of tuber- they have done. culin and the slaughter of diseased

animals.

HERD

I may be pardoned if, while on this ern themselves; secondly, to ascertain to or, rather, unthinking owners and atwhat extent healthy cattle, kept in tendants.
contact with diseased cattle, under
open-air conditions, are subject to not to teach. The problem of the
infection; thirdly, to ascertain what control of bovine tuberculosis is units results been properly tabulated forever grateful. for publication. 1 may say, how-ever, that of the 28 reactors, only THE INTERNATIONAL TUBEPCULOone has broken down from generalized tuberculosis during the three years which have elapsed since the experiment began. from the same racks, grazing over the herd, and allowed to mix freely with its original members.

The results in the rearing of healthy calves, however, remind one somewhat of the Irishman's pigs, which, you will recollect, when killpected, and he never thought they would.

Of the calves dropped and reared by reacting cows, seventy-five per cent. have so far entirely failed to react, while twenty-five per cent. have reacted, at various ages, rang-

The results of the various tests of enlist against a common enemy. Contains reliable and exhaustive information on the treatment of one hundred diseases of horses and cattle. The most complete book ever given away to farmers. Well bound and indexed. We will send one of these valuable books to every hand. Those in attendance and will, when published, together went about as if they had come to farmer who will send us the names and addresses. Mr. with the post-mortem notes, merit learn something and intended to take

tuberculin as a diagnostic agent. der observation.

It should be mentioned that.

GET CLOSER TO NATURE

The highest medical authorities are OPEN-AIR TREATMENT OF A TUBERCULOUS nowadays advising—and with the very best possible results—our mod-I may be pardoned if, while on this ern hot-house humanity to get subject, I refer briefly to an experi- "closer to nature" in every possible ment which I have been carrying on way. The advantages of adopting a for the last three years. A herd of similar policy in the handling and forty-three (43) cattle, twenty-one housing of domestic animals are too (21) being dairy cows, twenty-eight apparent to admit of discussion. Naof which had reacted to tuberculin, ture has furnished our animal friends the remaining fifteen being apparent- with every conceivable requisite for ly free from disease, has been kept protection against ordinary climatic under open-air conditions since the conditions, and most of the diseases fall of 1905. The objects of this ex- and disabilities to which they are periment, which is of a purely prac-tical nature, are threefold: firstly, their continuance to the irrational to ascertain the effect of open-air artificial conditions imposed upon treatment upon the diseased cattle them by well-meaning but ignorant,

percentage of healthy calves it is doubtedly the most serious confrontpossible to rear from diseased cows, ing the veterinary sanitarian of tokept without any precautions under day, and if the labors of this section open-air conditions. The experi- of the International Congress result ment is not yet concluded, nor have in its solution, I, for one, will be

SIS CONGRESS

The World's Congress on 'Lubercu-One other has losis, the most notable gathering of been killed, owing to tuberculosis of scientists ever held for the discussion the udder. Of the healthy animals of tuberculosis, met at Washington. kept in contact with them, feeding D. C., during the later half of Sep-from the same racks, grazing over tember. Dr. A. J. Douglas, who over the same ground, drinking from was the official representative of the the same pool, not a single one has city of Winnipeg at that meeting, become affected, and this in spite of furnishes the following report of the the fact that from time to time aniproceedings: "In point of numbers mals suffering from acute, generalized the attendance was very large. There tuberculosis have been introduced to was a registered attendance of between five and six thousand, and thirty-three countries were officially represented. Places as far apart as Chili and Sweden, British Columbia and Russia, had exhibits almost side by side. Those taking an active ed, did not weigh as much as he exverse quarters of human society, great scientists and country doctors bacteriologists and judges, labor leaders and rich philanthropists, health officers and dairymen, settlement workers and farmers, architects and hospital superintendents, lawyers and college professors, officers of the army and navy, manufacturers and railroad officials, and a great many more met on a common ground to

the original reactors, made at inter- "Perhaps the outstanding feature the careful perusal of those who be- the lesson home to their communilieve in the absolute reliability of ties. When it is borne in mind that in the United States, tuberculosis, I might add that the cattle have in various forms, kills 160,000 people had no shelter but open sheds, and per year, in Canada 14,000, and that have, with the exception of a few of it is responsible for 11 per cent. of the weaker individuals, been fed the total death rate, the importance nothing but hay for the three win- of earnestness and united effort in ters during which they have been un- doing something is made abundantly

"The congress was divided into through an error in judgment on the seven sections, each with a set of part of an over-zealous herdsman dur- officers of its own, and each taking ing the first winter, our calves be- up a different part of the tuberculosis

part of an over-zealous herdsman during the first winter, our calves being the first winter, our calves behave and well made. The Rope Rim prevents breaking or wearing into at the throat. The colar is firm yet very flexible and readily adapts itself to the shape of the horse's shoulders. It is impossible for a horse wearing this collar ever to have a sore shoulder.

BE CURED by using the first winter, our calves being different part of the tuberculosis the first winter, our calves being different part of the tuberculosis the first winter. These sections held their meetings simultaneously in separate rooms, and at each papers were read demonstrations were given at night in the large hall by eminent men from various parts of the world. These sections held their meetings simultaneously in separate rooms, and at each papers were read demonstrations were given at night in the large hall by eminent men from various par While the experiment above the joint session of the sections of this collar. Being so flexible you can easily shape it to suit the shoulder. The sore not being young animals can be and are most of tuberculosis in animals and its rejectated will quickly heal. SWEAT PADS are not required when this frequently infected through the diges- lation to man. At this Professor tive system, it also, to my mind, Koch promulgated his latest dictum THIS COLLAR is endorsed by every user, among whom might be mentioned Paul Bredt, R. H. Taber, Robt. Sinton, Mutch Bros. By ordering this collar at once you will make no mistake. Price \$5.00. Let me know position of sores, I feel satisfied, and I think all congress of 1901 that infection could the satisfied. shows that, in the case of adults, in- regarding the transmissability of tufeel satisfied, and I think all congress of 1901 that infection could Harness Maker Box 6 REGINA, SASK:

The hearting cattle in this experiment man, and that, therefore, the danger from tuberculous meat and milk was been kept under ordinary stable conformal from tuberculous meat and milk was ditions with their diseased companion practically nil. This year he someditions with their diseased companion practically nil. This year he someditions with their diseased companion practically nil.

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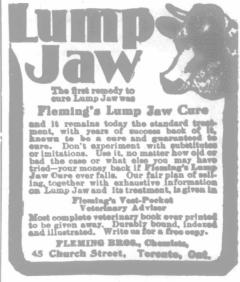
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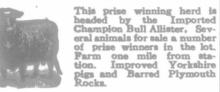
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For immediate sale: The well known bull, Neepawa Chief, winner at Neepawa, Portage la Prairie, Winnipeg and Brandon fairs, guaranteed sure stock getter. Red Jack, a splendid 3 year old; also 3 exceptional yearlings. In Tamworths, everything in the herd. This stock has won firsts and championships wherever shown. A nice bunch of May pigs for quick sale. Write for particulars, A. W. CASWELL, Neepawa, Man.

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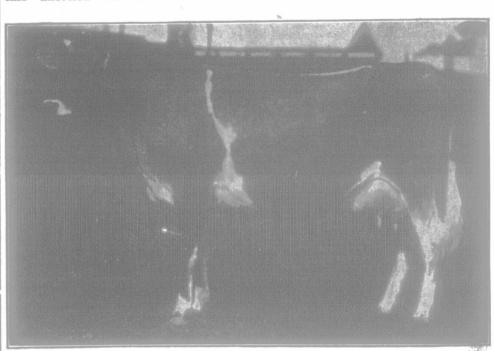
tuberculosis that affects man.

the disease in animals.

forth their conditions regarding tu- of dusting and sweeping rooms, and berculosis, the remedies they are ap- of washing dishes. plying, and the results they are obthis affection has been reduced to cellent collection of pathological

what modified his view, and stated of the milk. There was an exhibit that while bovine and human tuber- of a sanitary spittoon, and the way culosis were different diseases, yet it should be cleaned and handled. sometimes bovine tuberculosis did There were remarkable models of attack the human organism, but its tenement blocks in the city of New results, however, were never serious, York—as they were formally allowed the infection being confined practical—to be constructed—dark, ill-ventilated ly to the lymphatic glands, and it and insanitary; and as the ordinance never caused consumption. This now requires them—light, airy and view was vigorously opposed. Almost all the prominent pathologists tuberculous meat fresh from the city and the prominent pathologists. and bacteriologists present assailed abattoirs. There was a patholo-Professor Koch's position and en-deavored to show that the bovine morbid conditions caused in the hutype of the bacillus was responsible man and animal organism by the tu-for a very large proportion of the tuberculosis that affects man. travelling exhibits which could be set "After a stormy session the con- up anywhere in a short time (concensus of opinion was that animal sisting of pictures, models, etc.) that tuberculosis is transmissable, and is go about in various states with a particularly efficacious in causing view to instructing and educating the glandular, intestinal and joint tuber- public. There was a demonstration culosis, and possibly tubercular men- several times daily of the Nathan ingitis, and that steps should be Strauss method of pasteurizing milk. taken to control, as far as possible, There were models of Indian villages, showing what the United States "A large number of papers were government is doing to resist conread by representatives from various sumption among these people. There countries, states and cities, setting was an exhibit of the proper method forth, their conditions reconstitutions of dusting and among these people.

"To those of us who came from taining. Particularly striking were Canada there was one regrettable the figures from England, Germany, feature about the exhibition, and and Denmark, where the anti-tuber- that was the lamentable lack of maculosis propaganda is possibly more terial from our own country, which advanced than anywhere else in the had but two exhibits—a small one world, and where the death rate from from British Columbia, and an ex-



SULTANE 24TH Jersey cow, 3 years old. First in class, Royal Show, Newcastle.

who runs may read,' and was the our house in order.
most inspiring part of the whole
gathering. Nearly every country, conducted in a comparatively simple doing. The exhibits took the forms ing lines, viz.
of models and photographs of "1. The collection and tabulation could be lowered by concerted effort; actually exists. copies of by-laws, placards, public "2. The establishment of one or patient, no ventilation, filth every-cities themselves a most striking contrast.

"There was a model dairy shown study of occupational conditions. clean milkers in white duck suits, sputum and tuberculosis lesions.
small-mouthed pails, cows carefully "5. The restriction of tubercubrushed and washed before milking, losis by the disinfection of rooms and milk cooled at once by modern buildings.
methods and bottled, and then a "6. The supervision and control of demonstration of the bacterial count bovine tuberculosis.

one-half of what it was 40 years ago. specimens from McGill University. "Apart from papers and discus- Montreal. Canada, from its showing sions, and more important than at this congress, apparently has done either, was a splendid tuberculosis but little, and it seems to me that exhibition. This was such that 'he we should commence at once to put

state and many cities had something and eminently common-sense method, tangible to show as to what they are and involves effort along the follow-

hospitals, dispensaries, and sani- of statistics relating to tuberculosis toria; diagrams, plans, and models through reports of each individual made up from vital statistics show- case-without this, one cannot even ing how the tuberculosis death rate get an idea of how much tuberculosis

lectures, pamphlets and regulations more sanitoria for the treatment of regarding bovine tubercle; reports of incipient cases, and one or more what had been accomplished in dis- hospitals for advanced and hopeless pensaries and sanitoria. As an ex- cases. The sanitoria are usually ample of dispensary work, two built and operated by the state or models of the same room were shown provincial government. In the case side by side. In one, the condition of cities, hospitals for advanced cases when found occupied by a phthisical are often owned and operated by the

where, over-crowded, and no pre- "3. The establishment of dispen-cautions taken as to the spread of saries for the care of cases which the disease. In the other, the same cannot or will not avail themselves room after visiting and renovation- of sanitorium or hospital treatment, including house visitations and the

-the stable built on the most sani- "4. The maintenance of laboratary lines, tuberculine tested cows, tories for the free examination of

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"7. The enactment of laws pro-hibiting the construction of buildings operations? Have you trampled bare-

ment of anti-spitting laws.

"9. The provision of ample park accommodation and open spaces in cities and the prevention of overcrowding.

"10. The medical inspection of schools and the education of school children as to tuberculosis and how to avoid it.

"11. The dissemination of in- age no longer hid it from view?

PREVENTING PIG TROUBLES

There is no class of enquiries which nosed, treatment in the case of pigs is often very unsatisfactory. The truth of the old maxim, "An ounce of prevention is worth a pound of cure," was never better illustrated than in the case of pig diseases. There is no need of arguing the desirability of keeping the pig healthy and thrifty. All readers will agree with us on this point, but singularly enough it is difficult to get them to act upon their own belief. "Take," says Wallace's Farmer, "the disease known as partial paralysis, which has become quite common, comparatively speaking, during the last two or three years. We are convinced that if due care were exercised in this disease would not be at all troublesome, but notwithstanding the frequency juvenile country life. with which we have emphasized the importance of preventives during the past two or three years, not one out of ten of our friends who ask for help in this par-ticular matter have made an effort to a physical exercise on the flying-wedge prevent it. In addition to providing order, and Junius chuckled. clean, well-ventilated sleeping quarters, it will pay to feed the Government recipe honors. to all hogs which show any signs of dislished many times before, is as follows: the rest of us got."

Pounds
Wood charcoal 1
Sulphur 1
Sodium chloride 2
Sodium bicarbonate 2
Sodium hyposulphite 2
Sodium sulphate 1
Antimony sulphide (black antimony) 1
"These ingredients should be complete-
ly pulverized and thoroughly mixed.
The dose of the mixture is a large table-
spoonful for each 200 pounds weight of
hogs to be treated, and it should be

given but once a day.

Our friends should also keep before the hogs a box of wood ashes or char-coal, in which a little salt has been What are you going to say about yourmixed. This ought to be where the self?" hogs can have access to it at all times. If they will adopt these simple pre-face. He raised a pair of troubled cautions and then exercise some care eyes to his questioner. "Why, I never in feeding a balanced ration, the number stopped to think of that," he began, of complaints of pig diseases of one sort slowly, all the brightness fading out of

NUT GATHERING

Have you ever gone nutting in a bush Junius. n't see out? Have you got up early on a brisk October morning and scampered back to the woods to make a hurried circuit of the hickory trees ere some "pot-hunting" neighbor had gathered the "rough" of the morning's Edward Billings in the old chest, against the day when there should be time to hull them, then his legs all right to stand on. hustled off to school, cheeks glowing with healthy exercise, and eyes kindled by anticipation of winter evenings, going to do if I can get this job. Then with feasts of nuts and apples before the fire? Have you, some windy Satur- office hours, and earn a lot of money day, following a frosty night, spent a Edward Billings Henry talked rapidly, day in the bush harvesting a bonanza but the young man beside him was not crop, filling sack after sack in the old to be turned from his purpose.

having dark, ill-ventilated rooms either for sleeping or working in, and the remedying of these conditions when found.

operations: Have you trampled bare foot all_day over the fresh-littered, spongy mould of leaves, now through the inky swale, anon digging your toes into the decaying trunk of a falling the construction of buildings operations: Have your heart denced to the "8. The enactment and enforce- pine? Has your heart danced to the music of he wind swaying the lofty tree-tops overhead? Have you bounded like a deer when approaching the favorite old hickory tree, which bore the "large, three-cornered" nuts, and dropping to your hands and knees, snatched eagerly at the tempting fruit-age which filled the bag so fast? Have you spied the old hawk's nest, away up in the crotch, where the thinning leaf-age no longer hid it from view? Have formation regarding the disease to you noted with jealous eye the red the public by means of lectures, squirrel helping himself to a crop which, literature, etc." by right of eminent domain, belonged to you, reflecting meanwhile upon the utter uselessness of red squirrels anyway in the economy of man? Have are answered with so little satisfaction to fat black or gray squirrel up in another you more complacently observed a big the agricultural press and to its readers as those concerning ailing pigs. It is thard enough to diagnose pig troubles when one has an opportunity to make a personal examination, and doubly hard the double-barrelled breech-loader some evening after school, and try his aim personal examination, and doubly hard when such an examination is impossible. Even after the trouble is correctly diagnosed, treatment in the case of pigs is nosed, treatment in the case of pigs is house, and, depositing the heavy load, after very unsatisfactory. The truth of trudged wearily off to do the evening chores? Have you come in to supper happy but tired, and as hungry as a bear? Have you filled up on fried potatoes, bread and butter, and apple sauce, and pie, and then laid down on the sittingroom lounge, from which you were al most immediately roused and hustled off upstairs? Have you stumbled your way upstairs to "roost", undressed, and tumbled into bed, to dream of forests where all the trees were hickories, and none of the squirrels were red? If you have done these things, you have experienced a sweet touch of nature's the matter of feeding the pigs and very common preventive measures taken, missed one of the supreme joys of missed one of the supreme joys of

Wanted—An Employer—(Continued)

"Then I'll tell him that father stood and a ration which contains some muscle- almost at the head of his class in high making food in addition to the corn, school, and he almost took a lot of

"Well," assented Junius, "that 'alease, This recipe, which we have pub-most' is a step farther than a heap of

"Yes," exulted the boy, "I guess Mr. Florins will say so, too. Then I'll tell him that father taught a lot when he couldn't go through college.

"What next?" inquired Junius. They were approaching Twelfth Street now, and the car was hardly moving in the press of vehicles.

Edward Billings curled his bare toes . under, and unconsciously pushed forward with all his slender might. "Then I'll tell him that father used to read a e lot, law-books and things, same as he

"But, see here!" interrupted Jnuius.

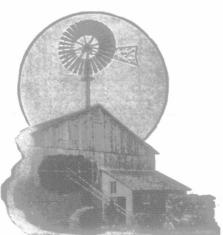
A cloud overspread Edward Billing's or another will be cut in half within his tone. "There's nothing much to three months." say about me. I sell papers and help say about me. I sell papers and help father-

"What does your father do?" asked

The boy hesitated. His face flushed,

ered the "rough" of the morning's drop? Have you, returning, hastily deposited a rock of the morning. deposited a peck or half bushel of nuts had bad legs"—the evasion continued— 'but his arms and back are strong, and

> Yes," insisted Junius. and waited. I could sell papers after and before



\$ ====100==== \$

Is all we ask for a

Star Windmill

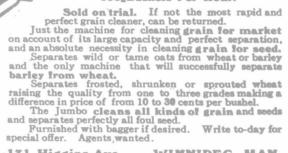
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Caters' Wood and Iron Pumps, made specially for the West at reasonable prices. Aermotor repairs kept in stock. Catalog free. Address

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Guaranteed Capacity on Wheat: 100 Bushels Per Hour.



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WINNIPEG, MAN.

TO SAY THAT YOU SAW THE ADVER-TISEMENT IN THE FARMER'S ADVOCATE IS BUSINESSLIKE.



Golden West Stock Farm Clydesdales and Shorthorns

Stallions and Mares of excellent breeding, of all ages, for sale. Also some choice young bulls fit for service and a number of cows and heifers of noted Scotch strains.

Many of them Leading Prize Winners at the big Western

P. M. BREDT

REGINA. SASK.



FOR SALE—REGISTERED PERCHERONS Stallions, Mares, or Colts, all ages

Your choice of 40 bred from imported stock. One black Stallion, Charleroi, 6 years old, weight 2,050 lbs.; Mares weighing 1,500 lbs. to 1,700 lbs.; Yearlings and two-year-olds of good quality. Correspondence solicited. Photos sent on application. mported stallion, Robosse, at head of herd very low for this class of stock. Farm 3 miles from North Portal.

W. E. & R. C. UPPER, North Portal Sask.



Canada's Brampton JERSEYS Premier Herd

Strengthened regularly by importations from United States, England and the Island of Jersey.

We have animals of all ages and both sexes for sale, and the largest herd in Canada to choose from. Write for prices and particulars. Long distance 'phone at farm.

B. H. BULL & SON

BRAMPTON, ONT.



Have you any stock for sale? If you have, why not advertise. This is the largest circulated farm paper in the West. If you have the goods the Advocate will find the buyers. Send your adv't in to-day.

Farmer's Advocate

Winnipeg, Man.

"Then what is it he's not going to do?"

The boy hesitated again. "Father takes in washing," he finally burst out, proudly defiant, "and I help him, and we do it good, I tell you! No one ever complains. Father says if you can't do what you want to, you can try something else, and that was all he could do, and found out he could wash and iron good, and a lot of it."

Junius considerately looked straight ahead of him, not wishing to add to the embarrassment of Edward Billings Henry, Junior, but he could not resist the temptation to ask, "Are you going to tell this to Mr. Florins?'

"No, sir-ee!" responded the boy, proudly. "Father ain't going to do—washings—any longer if I can get the

job."
The car entered Congress Square. drew up in front of an imposing stone building, and stopped. The driver removed his goggles and turned a pair of moved his goggles on the boy. "Well, pleasant gray eyes on the boy. "Well, Edward Billings, here we are—and you've got the job all right. Can you come in the morning?"

Edward Billings nearly fell off the

seat.
"W-hat?" he stammered.

"The job is yours," smiled the young nan. "I happen to be that same Mr. Florins, who, you have assured me, will never regret employing you. My office is on the second floor here. I did advertise for a boy, but had totally forgotten it," He gave a short laugh; business had never oppressed Junius Florins. "Report in the morning, please, and we'll see about a suit and some shoes and that stone-bruised toe.' Out of the automobile Edward Billings Henry tumbled in a dazed condition, and stood beside his new employer, look-

ing up speechlessly.

"I'll advance you a car fare on your salary," the young man continued. He carefully avoided the pocket where lay the nickel previously owned by his passenger, and produced the change. "And, Edward Billings, just tell your father from me that his maxims work out so well that I'm thinking of adopting them myself.'

FARMING IN ALASKA

There is a chance to make good money in farming in Alaska. Many have an idea that because it is severely cold in winter and the winters are long, that it is impossible for cereals to grow, but such is not the case. As a matter of fact, nature has regulated things so that in the far North latitudes vegetation grows much faster than it does farther South, seemingly realizing that it has to hustle to make up for the short ason Vegetables an eatables, are high in Alaska, and if some of the prospectors would start a garden they would find gold quicker than by looking in the rocks

Suburban Life says that in the north of Alaska, where the country is frozen solid through most of the months of the year, is said to be a plot of several acres owned and worked by a young miner named Karshner, which yields profusely most of the common garden vegetables known to more temperate climates. Karshner was prospecting for gold through this region last year, and found, instead, a spring of hot water. Investigation showed him that many acres of land here was warmed and irrigated during the entire year by innumerable hot springs. His vallev was surounded by snow and ice, but the soil of the little plot was moist and warm to the touch.

The prospector immediately abandoned his search for raw gold, and decided to become a farmer. He sent southward for tomato, potato, cabbage, squash and other seeds, and sowed his land. In a short time his plants pushed through the earth, and speedily ma tured. His first crop of fresh vegetables was sold at fabulous prices. A few melons, which he raised as an experiment, were disposed of for a small for- HAVE YOUR

Karshner, next season, proposes to double the yield of his farm. He has also invested in chickens, and sells fresh eggs to the miners of the neighborhood

HOW TO BUILD A GOOD FEN Everyone intending fence building should send for our folder on Erecting Fences. It's full of valuable information on fence building, tells how to end woven wire fencing quickly and substantially, describes the manufacture of the fence wire and has an article quoted from bulletin of U. S. Dept. of Agricultum on concrete post making, showing how these durable posts can be economical made at home. Don't fail to write for a copy. It's free.

THE BANWELL HOXIE WIRE FENCE OD., Ltd. Winnipeg, Manifelder.



That is the question which every weak man puts to himself. If you have thought much of your trouble you know that the force which keeps up the health and strength of your body is nothing more nor less than electricity. All the motive power in your body is born of electricity.

That is what you lack, and that force given to your weak organism as I will give it, will renew your strength. You will be able to enjoy life. You will be strong again. I can point with pride to hundreds of men who came to me after having failed to get the craved results from drugs and other treatments, men broken down, sleepless, short of memory and without the courage and energy of strong people. They have come to me almost without hope, discouraged; and I can point to these men to-day, after their having worn

McLaughlin's Electric

happy, enthused and shouting with gladness in the possession of the full vigor of perfect manhood. These men will at any time be glad to tell you what I have done for them.

Dr. McLaughlin:-

Dear Sir:—I purchased one of your Belts in December, 1905, and after using it as you directed. I felt like a new man, and I am pleased to inform you that I am just as well to-day and free from pain as I ever was in my life. I found your Belt much better than was represented, and I have recommended it to many others, and shall always feel a pleasure in doing so. I am more than satisfied with my Belt. I followed your instructions and found it complete. Hoping you will have every success.

TIMOTHY LEADBEATER.

Dr. McLaughlin:-

Dear Sir:—It is some five years since I wrote you that your Belt had given me perfect satisfaction, and I am still as strong and hearty as any man could expect to be. It is certainly a Godsend that such an appliance should be invented for the cure of the ailments of poor, wrecked humanity. I can now eat anything that is eatable and digest it well; no trouble worries me and my nerves are very strong. I have been singing the praises of your Electric Belt for eight years, and will continue to do so. I cannot say too much for it has made my body a pleasure to own. W. L. Flemmington, Lumsden, Sask.

The confidence I have in the wonderful curative powers of my Belt allows me to offer any man or woman who can give me reasonable security, the use of the Belt at my risk, and they can

This appliance has cures in almost every town and city in the country, and if you will write to me I will send you testimonials, given to me by people that are probably well known to you. My Belt not only cures weakness but Rheumatism, Sciatica, Lum-

bago, Backache, Kidney Trouble, Nervousness, Constipation, Indigestion and Stomach Trouble. have a beautiful illustrated book, which I will mail, sealed, to any address FREE. This book is full of lots of good, interesting reading for men. Call to-day. can't call, send coupon for Free

DR. M. D. McLAUGHLIN, 112 Yonge St., TORONTO, Can. Dear Sir,—Please forward me one of your books as advertised.

Office Hours-9 a.m. to 6 p.m.; Wednesday and Saturday till 9 p.m. Write Plain,

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REET

82 Front St. E., Toronto, Ont. Established 1865

Write for our November Price he asked. 'We can't give you the mon-

We Pay all Express Charges.

"Then may I ask," the meek young man asked calmly, "what happened to WIT AND HUMOR be the trump card the dealer turned

"I have just read a story of an economical farmer that Mr. Rockefeller, jr. had been telling to his Sunday school class," said Higgins. "He says there is a farmer out near Cleveland who makes a fad of economy. Every time he drives into town he carries a hen with him tied to the seat of his buggy. A friend who rode out with him one day was curious to learn the use of that hen so he watched carefully, and found When at noon the farmer lunched under a tree, he gave his mare a feed from the nosebag, and the hen, placed on the ground, ate all the horse had spilled from the bag, so that there was no waste at all.'

"Good story," said Wiggins, "and true, too. I know that old farmer. Mr. Rockefeller didn't say where he got his lunch, did he?"

"No," said Higgins. "The story stops there."

"It was an egg the hen laid under the buggy-seat on the way out," said Wiggins.

The major was laying down the law on whist. He always did, and woe to the man who ventured to differ with

"I tell you," he said, glaring defiantly round, as if daring anyone to contradict him, "I once, and once only, had all thirteen trumps dealt heavily mortgaged. He said that the

"You, I suppose, were—er—the dealer?" a meek-looking man put in.

The major turned purple. "No sir," he roared, "no, sir! Con-

found your impudence, I was not the

To the Grand Work Dodd's Kidney Pills are Doing.

Fishermen Regard Them as a Boon to Mankind - Mr. Frank Banfield Tells How They Cured His Bachache.

GARNISH, FORTUNE BAY, NFLD., NOV. 9 (Special)—Among the fishermen here, who, through exposure to wet and cold, are subject to those pains and aches which come from diseased Kidneys, Dodd's Kidney Pills are looked upon as a positive boon to mankind. They are never tired of telling how their Backaches and their Rheumatism vanish before the great Kidney remedy.

Among many others, Mr. Frank Banfield, after years of suffering, has found relief in Dodd's Kidney Pills, and here is what he is telling his friends:-

"I find Dodd's Kidney Pills the best medi ine for Backache I have ever used. I only used two boxes and they cured Backache I had had for five years. also bothered him, and he got to receive this information:relief from one pill I gave him. were too precious to give him All persons suffering from Backhould use Dodd's Kidney Pills." yourself ask your neighbors. but when she presented the application

By the time the major had recovered from an apoleptic fit the meek young man had left the room.

You ask why I weep and moan, like some lost spirit in despair, and why I wander off alone, and paw the ground and tear my hair? You ask prepared to shoot? Alas! my troubles have begun—the women folk are canning fruit! There is no place for me to eat, unless I eat upon the floor; and me fall a block or more; the odors from the boiling jam, all day assail my weary snoot; you find me, then the wreck am—the women folk are canning fruit! O, they have peaches on the chairs, and moldy apples on the floor, and of pears outside the door; and they are boiling pulp and juice, and you may hear them yell and hoot; a man's existence is the deuce—the women folk are canning fruit!

A lecturer was touring through the country recently, and delivered an address before an audience in a country schoolhouse.

In the course of his remarks he reviewed the agricultural prospects of the country, and as an illustration told a story of a poor farmer who had died, leaving to his wife the farm widow set to work with a will and succeeded upon one year's wheat crop in paying off the entire mortgage.

When he had completed his lecture, the gentleman shook hands and greeted the members of his audience. middle-aged man finally approached

him thoughtfully, and began:—
"I say, mister, you told a story 'bout the widow raising a mortgage on one

year's crop?"
"Yes, my friend, that was a true It happened only two years

ago."
"Well, sir, could you tell me who that widow is? She's just the kind of woman I've been looking for all

A tramp passing through the waitingroom of the North Western depot at Milwaukee spied a small enamelled pin lying on the floor. He picked it up, looked it over in a careless way, and pinned it on the lapel of his coat. The same tramp, a few moments later, was hit and knocked into unconsciousness by a switch engine in the freight yards, just outside the depot. men picked him up and telephoned to police headquarters for an ambulance.

"What did you say his name was?" came over the telephone from the desk sergeant. "Don't know. The man is uncon-

scious," replied the switchman. "Any papers on him by which you can identify him?" asked the sergeant. "Not a thing," 'phoned back the

witchman. "Does he belong to any lodge or union?" inquired the sergeant.

"Hold the line till I take a look," replied the switchman, and in a moment nted through a strain. My father's the desk sergeant was greatly surprised

"Yes; he is a Lady Maccabee."

do Dodd's Kidney Pills cure long line of people at the money order he? Simply because Backache window in the Boston post office the v ache, and Dodd's Kidney Pills other day, and all because her memory cure all Kidney aches and went back on her. She wanted to send has been proved in thousands some money to her son, a sailor on in Canada. If you haven't merchant steamer then in foreign water

at the window the clerk noticed that

the address was lacking.
'Well, where do you want to send it?' ey order unless you know the name of

'Yah, dot's de trouble,' she replied 'I didn't pring his letter und I can't remember der name of der town, but t's some place out by China, dot sounds

like der noise an automobile makes. The two clerks looked at each other dubiously.

'What kind of a noise does an automobile make?' asked one.

'Honk, honk,' suggested the other.
'Yah, dot's it!' exclaimed the woman. Honk, honk, dot's de place.

'Fill it in Hongkong,' said the clerk, and she paid over her money with a sigh

Professor Phelps used to tell with glee of the way he achieved a reputation for knowing a thing he hated. He took a walk with Professor Newton, who lived me why I pack this gun, all loaded up, in the world of mathematics, and started off at once to discuss an abstruse problem. Mr. Phelp's mind could not follow, and wandered to other things At last he was called back, when the peelings get beneath my feet, and make professor wound up with, 'Which you see gives us X.' 'Does it?' asked Mr. Phelps, politely. 'Why, doesn't it? exclaimed the professor, excitedly, alarmed at the possibility of a flaw in his calculations. Quickly his mind ran back and detected a mistake. 'You are wormy plums upon the stairs, and piles right, Mr. Phelps. You are right!' shouted the professor. 'It doesn't give us X; it gives us Y.' And from that time Professor Phelps was looked upon as a mathematical prodigy, the first man who ever tripped the professor.— Christian Register.

> It is told that Cyrus Leland, while oushing his candidature for the Republican gubernatorial nomination, wrote a letter to a Kansas farmer asking him for his support at the primary.

'Answer this letter, daughter,' said the farmer to his fifteen-year-old girl of whose penmanship he was proud when the letter reached him. 'Tell Uncle Cy, that I am too busy in the field to do anything for him. Tell him I'm working early and late to get in my

The girl waited until her father had gone back to his fields, and then penned this short note, which she thought told the story: 'Papa has all he can do to support himself without supporting anybody else.' She mailed it.—Kansas City Journal.

Bronchitis is generally the result of a cold caused by exposure to wet and inclement weather, and is a very dangerous inflammatory affection of the bronchial tubes.

The Symptoms are tightness across the chest, sharp pains and a difficulty in breathing, and a secretion of thick phlegm, at first white, but later of a greenish or yellowish color. Neglected Bronchitis is one of the most general causes of Consumption.

Cure it at once by the use of

Mrs. D. D. Miller, Allandale, Ont., writes: "My husband got a bottle of Dr. Wood's Norway Pine Syrup for my little rl who had Bronchitis. She wheezed so badly you could hear her from one room to the other, but it was not long until we could see the effect your medicine had on her. That was last winter when we lived in Toronto.

"She had a bad cold this winter, but instead of getting another bottle of Dr. Wood's Norway Pine Syrup, I tried a home made receipt which I got from a neighbor but found that her cold lasted about twice as long. My husband highly praises 'Dr. Wood's,' and says he will see that a bottle of it is always kept in the house."

The price of Dr. Wood's Norway Pine Syrup is 25 cents per bottle. It is put up in a yellow wrapper, three pine trees the trade mark, so, be sure and accept none of the many substitutes of the original "Norway Pine Syrup."

GOUT, RHEUMATISM, SCIATICA, LUMBAGO, is

BLAIR'S GOUT & RHEUMATIC PILLS All Druggists at 40c, and \$1.00 per box.

Try us with an Advertisement

SUCCESSORS TO

Drs. Kennedy & Kergan

SPECIAL NOTICE.

Owing to Dr. Kergan being deceased, Dr. J. D. Kennedy, Medical Director, has associated with him Dr. Kennedy Jr. who has been with the firm for several years, so hereafter business will con-ducted under the name of

DRS KENNEDY & KENNEDY

NERVOUS DEBILITY Thousands of young and middle aged men are annually swept to a premature grave through BARLY INDISCRETIONS, EXCESSES AND BLOOD DISEASES. If you have any of the following symptoms consult us before it is too late. Are you nervous and weak, despondent and gloomy, specks before the eyes, with dark circles under them, weak back, kidneys irritable, palpitation of the heart, bashful, dreams and losses, sediment in urine, pimples on the face, eyes sunken, hollow cheeks careworn expression, poor memory. lifeless, distrustful, lack energy and strength, tired mornings, restless nights, changeable moods, weak manhood, premature decay, bone pains, hair loose, sore throat etc.

BLOOD POISONS Blood Poisons are the most prevalent and most serious diseases. They sap the very life blood of the victim, and unless entirely eradicated from the regeneration. Beware of Mercury. It only suppresses the METHOD cures them.

system may affect the future generation. Bewasymptoms-OUR NEW METHOD cures them.

OUR NEW METHOD TREATMENT alone can cure you, and make a man of you. Under its influence the brain becomes active, the blood purified so that all pimples, blotches, and ulcers disappear, the nerves become strong as steel, so that nervousness, bashfulness and despondency vanish, the eye becomes bright, the face full and clear, energy returns to the body, and the moral, physical, and vital systems are invigorated; all drains cease—no more vital waste from the system. Dont let quacka and fakirs rob you of your hard earned dollars. We will cure you or no pay.

READER No matter who has treated you, write for an honest opinion Free of Charge. Phoo ES FRFE—"The Golden Monitor" (illustrated)

Question List for Home Treatment Sent on Request.

RS. KENNEDY & KE

Cor. Michigan Ave. and Griswold St.

If you farm for profit, you need one of my scales.

NLY my scales are sold direct from the one Canadian maker who has made good with the Canadian farmer on a straight business basis.



I will make the price right and the terms easy. MANSON CAMPBELL

> You can't farm right without a scale; and you can't find a scale that is equal to those I Manson Campbell, President

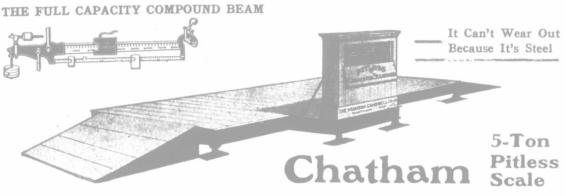
EVERY Chatham Pitless Scale is sold with a Government Inspection Certificate that warrants its accuracy.

There is no extra charge for this warranty, signed by a resident Government Inspector, who tests every scale we make before it leaves the factory.

This Scale is COMPLETE Can't Get Out of Order

Any other scale comes to you as a few parts with a huge blue print, showing how you can build the rest of it; and you have to build it, too, before you do any weighing. This Chatham Pitless Scale is absolutely complete, built of heavy steel, staunchly bolted together, easily erected ready for use in a few hours. Read Mr. MacLean's letter below. It stands solidly on its broad steel feet, clear above ground, needing no fixed foundation. Move it readily anywhere. You cannot do that with a pit scale.

No check rods, no frail parts to get out of order. Compound beam, finely finished, fully tested, shows full tare on lower section -easily read, no chance of error. Poise on top beam runs on roller bearings; notches lock the beam by a touch at each 200 lbs. Odd weights shown by small poise on lower beam. Weighs with absolute, warranted accuracy up to FIVE FULL TONS—ten thousand pounds. Nothing about it to go wrong — built so well, tested so carefully.



Mr. W. F. MacLean, M. P. for East York, Says This About The Scale:

Donlands Farm, Ont., July 2nd, 1908. Some days ago the Chatham 5-Ton Pitless Scale ordered from you came to hand. The farm foreman and another man went to work at it in the morning, and in the afternoon they had it all set up and were weighing on it before supper. The directions were so explicit, and the parts so simple that they had no trouble in putting the scale together and verifying the weighing capacity. As well as being useful for weighing hay and straw and things of that kind, it is very useful for weighing cattle and other livestock. One good way of selling horses is to be able to give their exact weight; and the way to get most for cattle and hogs is to know their weight before leaving the farm. Your scales are admirably adapted for every kind of work on the farm.' W. F. MACLEAN.

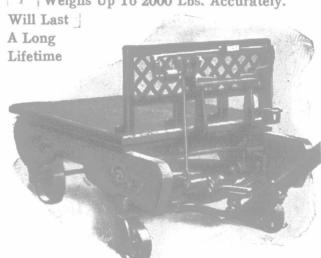
Big Enough For Any Scale Use. Your Farm Needs Such a Scale.

The Chatham's Platform is 8 x 14 feet wobble, won't get sprung. Whole outfit built so it will last a lifetime and be good

You ought to weigh all you buy, all you sell; ample room for big load of hay, six fat steers, ought to weigh your stock regularly; ought twelve hogs, etc. Platform can't sag, won't to keep track of your farm's yield—be a BUSI-NESS farmer. This scale makes it easy to do all this, and thus save its cost to you over and every minute. Sold for a fair price, on easy over-because you can't cheat yourself, nor terms, and fully warranted in every way. can you be cheated with this on your farm.

The Scale Every Farm Needs

Weighs Up To 2000 Lbs. Accurately.



Chatham Portable Barn Scale

is the handiest truck scale built-compact, easily moved, readily turned short (front wheels and pole are swivelled.) Certified by attached Government Inspection Certificate to be absolutely accurate and well-made. Will weigh up to 2,000 lbs. with positive certainty. Warranted in every way. Priced low enough to suit you. Terms to suit you, too, if you

THE SAFEST SCALE TO BUY

No other scale is so fully worth your money. The Chatham levers are solid casting, extra staunch, can't spring a bit, strong enough to carry TWO tons. Main frame all one-piece solid casting. Bearings selfaligning, whole pivot rests on bearing loop—so scale must weigh right even if not standing level. Chatham drop-lever principle spares weighing parts the jar of loads, thus bearings stay sharp fifty years or more.



CHATHAM Portable Platform Scale

Very handy on any farm, specially so on dairy farm. Weighs accurately to 1,000 lbs. Has Double Brass Beam—no extra charge for this. Strongly built, finely finished. Government inspection warrant attached to each scale. Freight

Lowest Priced 1,000 Lb. Scale in the World

Address Warehouse Nearest You For Booklet, Price, Terms, Etc.

The Manson Campbell Co., Limited, Chatham, Ont. **BRANDON MOOSEJAW** CALGAR

