Can the Provinces Raise Wheat.

Experience with Sheep.

increase, but as the means of keeping

## The Monitor's Agricultural Department For the Use and Benefit of Farmers.

Correspondence, Suggestions and Inquiries welcomed to these columns.

Seed Growers Organize.

THE BENEFITS OF SEED SELEC TION - IMPROVEMENT IN FARM CROPS,

Department of Agriculture, Ottawa, June 10.

tion, the chief aim of which is to encourage the production and general use of seed of superior quality for farm crops. Experience has shown that in all kinds of farm crops the yield perser may be materially increased and the quality substantially improved by the use of seed which has been graded use of seed which has been graded use of seed which has been graded to the careful growing and systematic, arm in this Eastern soil, and those over two thirds of the varieties were its parents suggesting medical treatment.

"He who made the earth and the waters, and the sun, moon and stars, ordained there should be some things that should not grow on and on and on until their deadly poisons had polluted all upon the earth. Two of year to year. Vigor of growth and productiveness in individual plants are transmitted through their seeds to the succeeding crop quite as surely as any distrable characteristics are transmitted to animals from their ancestors.

PERICREER SEED.

sults obtainable on the prairies. If so, it would seem that results in the volume and quality of wheat yield are better here than in Manitoba, upon which we have long looked as being better capable of producing wheat. What these this revealation signify for

With the above fact in view the new- the Maritime Provinces? regulate the growing, selecting and im- rust and other ailments of the grain up and bust. proving of farm seeds by its members, curtailed planting, and other influand providing for keeping records of ences, too, probably discouraged wheathe history of seeds, fixing standards raising for a time. We note, however, and issuing certificates of registration for hand-selected seed. For the present this grain during the past few years. the operations of the association will The prairie country is bound to grow he confined to wheat, oats, barley, as a wheat country, because people miaze, p. as, beans, flax, millet and powho have no capital can successfully Each operating number will undertake to raise the grain there, be required to conduct annually a and there are many other advantages, hand-selected seed plot of not less than such as the extensive flat lands which one-quarter acre, and must keep a re- enable the people to carry the industry cord in writing of each year's operations. District superintendents will new farm on a prairie any more pro-

SOME RESULTS OF SEED SELEC. the man upon it? If he can get a better yield per acre than the farmer in

In France and in Germany sugar beets now produce twice as many pounds of sugar per acre (twice as many pounds of refined sugar per acre) as they deleted the bear of refined sugar per acre) as they deleted the bear of refined sugar per acre) as they deleted the bear of refined sugar per acre) as they deleted the bear of refined sugar per acre) as they deleted the bear our local farmer is near our local mills and he is two thousand miles nearer the British market than the Manitoban. Ought there not, then, to be some been meted out during the last five possibility of making some of our unused farm lands yield a little more wheat? We do not pretend to say that these provinces can become wheat countries in the same sense that Ontario morin of Paris, three generations ago; tries in the same sense that Ontario bis grandson is at the head of the and Manitoba are, for we are aware

business now.

Some seven years ago the Illinois experiment station undertook to improve cheally as compared with the Maritime Provinces; but we dare say that the quality of Indian corn in this way. They had analyses made of the very best corn they could find for a high percentage of protein. They found the good corn contained nine per cent of the ears having the highest percentage of protein, and after six years' careful selection they had some corn that Brunswick on which sheep could be showed an average of over 15 per cent. kept to advantage, I decided to invest protein, or two per cent higher than in a few in the hope that they would that of wheat. This is an amazing achievement for this continent; for if than wheat it will be an immense benefit and advantage in the feeding of cattle, the production of bacon, and even in the nourishment of human because of the production of bacon, and even in the nourishment of human because of the production of bacon, and the production of bacon, and even in the nourishment of human because of the production of the pro

ings from the cereal district.

The Minnesota experiment station has lot of about one acre, with sheds on had a similar experience with flax, for in six years' selection they have effected an increase of 20 per cent in the length of fibre and in the yield of seed oats at noon, with a feed of turnips of the flax plant.

CANADIAN RESULTS AND POSSIBILITIES.

Ours at noon, with the pring once or twice a week, on which they I drove them back twelve flow across to the control of the pring once or twice a week, on which they is the pring of the pring once or twice a week, on the pring once or twice a week or

As it is g nerally known, the Mac-D nald Robertson Seed Glowers' Asso-ciation, which is superseded by the new organization, was an outgrowth about one-half of the lot, but only of a competition for prizes aggregating about 100 acres had much grass on it. \$10,000 that were given by Sir Wm. As "brushers" they proved quite. as o; crating seed plots and selecting the effectual as I had anticipated; more MacDonald to school loys and girls lest heads of wheat and oats caring the years 1900, 1901 and 1902. This competition was conducted under the supervision of Prof. Robertson, hence the name of the original association. In the case of the crops grown by the boys and girls, the increase was 18 per given by an owner, and were bothered boys and girls, the increase was 18 per cent in the number of grains in the 100 selected heads of spring wheat, and 28 per cent in the weight of grains in the 180 heads. Similar increases were obtained with oats. Ninety-two per cent of the reports said that the querter-zere plots carried crops decided by more vigorous and heavy than creps from the same varieties of grain shown on the same farm in the same senson from unselected seed.

An increase was 18 per given by an owner, and were bothered seminated place. However, they did after somewhat by dogs. However, they did after the some sold, and even at the low prices prevailing they brought about \$2.50 each. The flock of ewes, with a few lambs added were brought back to Sussex in the fall and kept in the same way as last winter. I believe that with proper attention which I am unable to give, owing to the fact that I am out of the province about half my time, the busing to the fact that I am out of the province about half my time, the business could be made a success from a financial standpoint, and in addition,

An increase of even 70 per cent in the total yield of Canadian farm crops would mean the addition of millions of dollars to the wealth of the country.

Another great possibility is found in connection with the improvement which may be made in quality. Take when may be made in quality. Take wheat for instance: From Sept\_1st, 1903, to March 31st, 1004, the overnment inspector of wheat in stem Canada showed 197,000 bushels of No. 1 hard, may be made in quality. Take whent

showed 197,000 bushels of No. 1 hard, 5,108,000 bushels of No. 2 Northern, and 7,039,000 bushels of No. 2 Northern. A very large proportion of the two latt r grades would grade No-1 hard were it not for the admixture of other grains and other varieties of wheat. Here is an unlimited field for the application of the principle of seed selection.

The executive council of the new association is composed of the president Prof. Jas. W. Robertson; the secretary,

sociation is composed of the president Prof. Jas. W. Robertson; the secretary, Mr. G. H. Clark; Chief of the Seed Division, Ottawa; and five directors, Messrs. C. C. James, G. A. Gigault, C. A. Zavitz, J. H. Grisdalq and W. H. Davidson. Fifteen additional members representing each province and the territories complete the board of directors.

Yours very truly, 1

V. A. CLEMONS,

Publication Clark. Cows.

Minard's Liniment cures Garget W. A. CLEMONS,

All "Blionaires" Should be in Jali,

Boston, June 30.-Thomas W. on, who is fighting the men behind Amalgamated Copper, has devoted part of his leisure moments to reading the baccalaureate sermons delivered to the graduating classes of New England colleges' One sermon in particular interested him. In it the speaker made the prophecy that in the next half century a billionaire would be no ore a rarity than a millionaire is Not many days ago the report of the

Saps Lawson.

Experimental Farms, carried an under the direction of the Dominion Depart-Talking on the subject to-day, Mr. awson said: ment of Agriculture, came to hand and we have studied therein the results of "If any school child should speak up when being instructed in spiders, experiments with wheat in the Mari- big black spiders, and even suggest time Provinces and in Manitoba. Out that in the future they would go A meeting that promises to have a of 58 varieties tested both at the Ex- up so big that their swollen hodies far eaching effect on the production of farm crops in Canada was held in Ottawa on the 15th and 16th of June. tawa on the 15th and 16th of June. This was the organization meeting of the Canadian Seed Growers' Association, the chief aim of which is to ention, the chief aim of which is to ention. In other words, over two thirds of the varieties were would be 'sent home' with a note to

the use of seed which has been granted up by careful growing and systematic, intelligent selection, continued from year to year. Vigor of growth and year to year. Vigor of growth and year to year in individual plants are sults obtainable on the prairies. If so, their growth are hig, black spiders in their growth are hig, black spiders

What does this revelation signify for great black spiders ten, a handred and a thousand times larger than black ly-formed association, which will im- A great many years ago there was a spiders are supposed to grow; but they poration, drafted a constitution to greater quantity of wheat grown in are exceptions, and they have but one mediately apply for Dominion incor- the provinces than there is now, but ending; at a certain stage they blow

> "Under no circumstances can these abnormal freaks of nature perpetuate their kind, for never in a thousand years-yes, a million years-do the exceptional conditions which have pr luced them come again.

"So it is with the 'billionaire.'
"I do not know an American 'bilionaire' who has acquired his billions honestly, even legally honestly. it is a tough statement, but when dealing with a big subject of big moment, to a big people, why mince the truth or shy at the consequences of not mentioning it? And the truth is, there the finest and fastest steamers plying out of Foston, leave Yarmouth, N.S., daily out of Foston, leave Yarmouth, Or S., daily out of Foston, leave Yarmouth, N.S., daily out of Foston, leave Yarmouth, N.S. supervise and aid the work of the fitable to a man without capital than mentioning it? And the truth is, there a farm already cleared in the East to is not a 'billionaire' in America but has committed crimes enough in the accumulation of his billions to send men who became defaulters directly

has made it the most popular prepara-tion in use for bowel complaints. It remedy that can always be depended upon and that is pleasant to take. It is especially valuable for summer d'arrhoea in children and is undoubtelly the means of saving the lives of a great many children each year. For sale by S. N. Weare. Believing that there are a great man

-Wr. B.-Did you take any mon out of my pockets last week, dear I've missed a roll of bills Mrs. B.-Yes, Charlie, I d'd. You know they say that old bills are s we have Indian corn richer in protein down small bushes and build up the them at all, and they were all awfully Mr. B .- And did you sterilize ther thoroughly? Mrs. B.-I think I did.

Mrs. B.-Why, I exchanged them a the tailor's for a new spring suit. The Verdict of Public Opinion.

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—It is only an affected person who always complains that nobody understands him. This man or woman may join with the great majority in so far that some of h's actions are misconstrued. Who is there that has not had that experience, with all its bitterness? But, as a matter of fact, it is comparatively seldom that we are not

if you are not satisfied after using Chamberlain's Colic, Cholera and Diarr

-To please, one must make up his mind to be taught many things which ha already knows, by people who do

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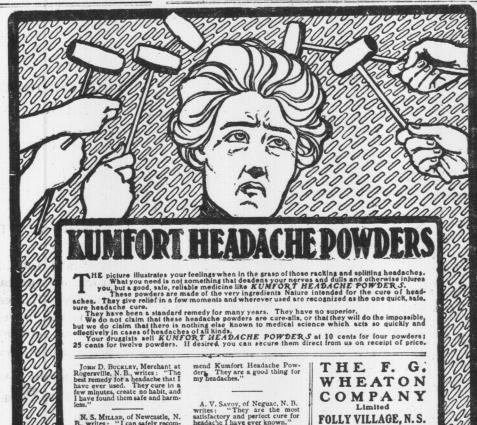
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International Dictionary increases Will. I. Iroop daily as it comes to be better known. It never refuses the information sought and it never overwhelms one with a mass of misinformation illogically arranged. The Inverness Railway & Coal Co, it in a cool place. The yolk will stay The St. James Gazette of London, England, says: For the teacher, the pu-pil, the student and the litterateur, there s nothing better; it covers everything.

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At Wellesley, where Miss Lucille E. Hill has instituted so many reforms in the matter of physical training, students are given carefully tested sug-heard to complain. dents are given carefully tested suggestions as to eating, drinking, sleeping, bathing and general care of the body, rules which apply to keeping in general good condition as well as to training for some particular form of exercise, such as tennis, rowlng and field hockey. And these suggestions have equal force with reference to exercise and physical training for girls.

Heard to complain.

A clergyman complimented Dr. Burt one day on his good disposition. "You never growl about anything," he said. "No matter what kind of a meal is set before you, you eat it cheerfully. If you are feeling poorly, you conceel it. How did you manage to acquire such a fine habit of good-squared tolerance and resignation?" ercise and physical training for girls. Like many other kinds of advice, the tions. Regarding food and drink, Miss or exercise immediately after meals.

Avoid sweet food except in great modstudying at Wilbraham Academy especially apples. Never eat sweets between meals or before going to bed."

Then as to liquids: Drink freely of household liked best. Finally it came cool but not ice water, especially on to the father's turn to be described. retiring and rising and between meals.

Avoid chocolate, strong tea, coffee lemonade, bouillon and milk. Never haven't got.' use tea or coffee as a stimulant. If dependent on either leave it off abso-

The Bousehold.

EXCELLENT ADVICE GIVEN GIRLS

Concerning sleep and bathing Miss Hill recommends: Eight hours (minimum amount of sleep) in a well venture. The omitting of a single comma from mum amount of sleep) in a well ventilated room. If possible, lie down a cablegram received here recently by

be taken as a luxury."

As to the care of the body after cable in reply:

"No price too high." such vigorous exercise as tennis or rowing, Miss Hill directs: "Run or walk rapidly home. Before the skin Rub fast with Turkish towels until the skin is in a glow. Occasionally beautiful gem, paying just \$25,000 for especially on the back legs and soles of feet (If inadvisable to use cold water, give a dry friction.) Relax is fresh underclothing and lounging robe on bed and rest 'absolutely. culation may become normal, the

of fatigue be overcome."

Every girl should give at least on air, is Miss Hill's requisition for the

USING THE GRIDDLE,

Not owning a soapstone griddle and not the boy I left my horse with.' wishing to avoid the disagreeable odor of frying cakes in grease, the follow ing method has been found satisfactory. If the griddle is not new, rub i well with a clean, dry cloth. When well warmed, not hot, put a teaspoon of lard in a dry cotton cloth, so that one thickness of the cloth may be be tween the griddle and the lard. Rub this well over the surface of the griddle, and as soon as it shows signs of on the griddle. Used in this way, a eloth with a single spoon of lard will answer for several bakings. With a little practice one can thus have delic'ous cakes without a trace of grease so distasteful to a delicate palate and without filling one's rooms with smoke or the odor of buining fat. used on the tines of a fork, is less ob-

Even a piece of pork rind an inch oks covering a griddle with a coat-A smooth steel griddle is almost as lately clean and free from grease by an be a hanthem." occasional rub with sandpaper. Such

baking begins. Whoever will give the will soon prove its merits. HOW TO REMOVE MOLES.

as to wash your face. Make a loop the size of a nickel, with which enclose the mole. Gently pull on the mole till hung from a strap, swaying in the the thread can be tied around its neck breeze, with not a soul in the car but firmly, though it need not be painfully knot. In a few hours what looks like fore had any one think that I was a a white glass bead will drop off frem car-full," strangulation and no trace of your little pest will be left. I performed my amputation with only a looking glass INVERNESS. - CAPE BRETON for assistant, but arother hand would Miners and Shippers of the be quite convenient. I read this rem-

-Custard pies or puddings will re quire only half the usual time for baking if the milk is scalded before being his throat. But, said the narrator, stirred into the beaten eggs and sugar. Custard puddings and cup custards may be steamed instead of baked if

-To keep the yolk of an egg fresh when only the white is to be used: Make a hole in the shell large enough stand the egg in an egg cup and keep in color, and be good for two or three WM. Petrie, Agent, Port Hastings, C. B. days,

GEO.E. BOAK & Co., Halifax, N. S. General Sales Agents for Nova Scotia, New Brunswick and Prince Edward Island. tf

30kers' Corner.

A CHILD TEACHES A BISHOP
GOOD-HUMORED TOLERANCE

The newly-elected Methodist bishop.

natured tolerance and resignation? "Maybe the remark of a child that I rules are often in the nature of nega-once overheard helped me to learn to Hill says: "Eat slewly; do not study ticle," said Dr. Burt. "While I was complain and grumble as little as poseration; and rich food, pastry, pickles father—a gaod man, but a chronic and hot raised bread, except crusts and corn bread. Eat freely of fruit, parlor one night when the question

and sodas. Accept cocoa Russian tea (mi'd) cafe au lait (the milk very hot), well, you like most anything we

THE COSTLY COMMA

From Paris comes the following

and relax during the day. The cold plunge or sponge on rising is advised if a good reaction follows the brisk \$25,000.

The woman had seen a beautiful diatal stimulus and a strengtnener of muscles, Miss Hill affirms, adding:

The woman had seen a beautiful diated muscles and a strengtnener of a noted Paris jeweller, and decided "Use no soap with the cold bath.
Use the warm tub occasionally on rejeweller to give her an option on the agent in case of a chill or stiffness.

It is also debilitating and must never was \$18,000, and asked if she might

In the original message there was a is cool sponge off in warm water, if "price," but the mark was dropped on convenient, before dashing on cold the way to Paris. The devoted wife took the message literally, and bought a still more

EARLY SPECULATION.

ter, visited Baltimere last month. At a dinner in Baltimore he said:-"The spirit of business enterprise and profoundly in America. For instance I was riding one day on the outskirts I dismounted and got a little ' hold my horse. I was gone about first boy gone, and another, a smaller "'No. sir.' said the tiny urchin: "I

other fellow for a dime. "Of course, after that," the Minister ended, "it was impossible for me to 'bear' the market.' AN ANTHEM DEFINED.

An old English sailor had heard in church in anthem which greatly pleassmoking the batter may be dropped ed him. He was telling a shipmate, "I say, Jack, what's an anthem?" 'What," replied Jack, "do you mean

to say you don't know what a han-"Well, then, I'll tell yer. If I was to say to yer, 'Ere, Bill, give me that 'andspike,' that wouldn't be a han-Bill-giv-giv-giv-giv me that-Bill giv. jectionable than the habit of some cooks covering a griddle with a coatthat hand-handspile, hand-spike-spike-

spike-spike, ah men; Bill, giv me that

handspike, spike, ah men?' that would

AN. AMPLIFIED WOMAN.

"The car was entirely empty, with method recommended above a careful the exception of one man," said Miss trial will not wish to return to any Myre Kelley. "He was the reverse of other. A little judgment and patience the car. As I entered he rose, made me an unsteady but magnificent bow,

"Madam, please be kind 'nough to

asshept this plashe.' There was nothing else for me to do, so I thanked him and sat down. "And for twenty blocks that idiot ourselves. Occasionally I have been

from New York was telling his mother of a mishap which had occurred to a appeared, had been regaling himself with one of these large, marble-like andies which are a particular delight of childhood, and in a moment of excitement it slipped down and stuck in they succeeded in relieving him, "Oh!" sand! his mother, "you got it "Naw," we's the impatient answer,

"we shoved it down; it was his, wasn't

salvage do I get?" -Nevely-married Daughter: "How long

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