The Three Essentials That Are Giving Western Canada Greater Impulse than Ever This Year.

The reports from the grain fields of Central Canada (which comprises the provinces of Manitoba, Saskatchewan and Alberta) are to hand. The year 1909 has not only kept pace with previous years in proving that this portion of the continent is capable of producing a splendid yield of all the smaller grains, but it has thoroughly outstripped previous seasons. There is quantity, quality and price, and from all parts of an area of about 320,000 square miles there comes the strong refrain of contentment and satisfaction. In the distribution of the conditions causing it no district has been overlooked.

Various estimates of the total yield of wheat for the country have been made, but it is not the vast total that influences the general reader so much as what has been done individually. The grand total-say 130,000,000 bushels--may have its effect on the grain prices of the world; it may be interesting to know that in the world's markets the wheat crop of Canada has suddenly broken upon the trading boards, and with the Argentine, and with Russia and India is now a factor in the making of prices. If so to-day, what will be its effect five or ten years from now, when, instead of there being seven million acres under crop, with a total yield of 125,000,000 or 130,000,000 bushels, there will be from 17,000,000 to 30,000,000 acres in wheat with a yield of from 325,000,000 to 600,000,000 bushels. When it is considered that the largest yield in the United States but slightly exceeded 700,000,000 bushels, the greatness of these figures may be understood. Well, such is a safe forecast, for Canada has the land and it has the soil. Even today the Province of Saskatchewan, one of the three great wheat growing provinces of Canada, with 400,000 acres under wheat, produces nearly 90,000,000 bushels, or upwards of onetenth of the greatest yield of the United States. And Saskatchewan is yet only in the beginning of its development. As Lord Grey recently pointed last week, 41 in 1908 and 28 in 1907. out in speaking on this very subject, Those with liabilities over \$5,000 numone-tenth of the soil equally fertile that is yet to be brought under the plough.

Individually, reports are to hand of yields of twenty-five, thirty and thirtyfive bushels to the acre. Scores of yields are reported of forty and some as high as sixty bushels. The farmer, who takes care of his soil, who gets his seed-bed ready early, is certain of a splendid crop.

The news of the magnificent crop yield throughout the Canadian West will be pleasing to the friends of the thousands of Americans who are residents in that country and who are vastly instrumental in the assistance they are rendering to let the world know-its capabilities.

### Fine Mind.

"Everybody says that Jones has the finest mind, insight, and sagacity he ever ran across. How did Jones get such a reputation?"

"Easy. Whenever you make a state-

ment he says, 'By Jove, that's so! Why

didn't I ever think of that before?" "-Cleveland Leader. PILES CURED IN 6 TO 14 DAYS.

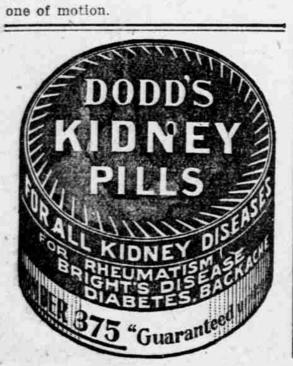
PAZO OINTMENT is guaranteed to cure any case of Itching, Blind, Bleeding or Protruding Piles in 6 to 14 days or money refunded. 50c

# Fair Warning.

Young Golightly (to pretty girl)-Is the seat next to you engaged, miss? Miss-No; but I am! And he's going to get in at the next station!-Comic Cubs.

PERRY DAVIS' PAINKILLER reliable remedy for lumbago, sciatica, pleuri stitches, etc., 25c, 35c and 50c. At all druggists.

The Human Tongue. Some remarkable facts regarding the tongue have been recently presented by the eminent surgeon, Dr. E. Southon, of New Orleans. The doctor, after stating that the tongue, the nose and the skin are the only organs of special sense which perform other functions, remarks that the tongue is the only organ except the heart which presents a base, a body and an apex, is the only organ which can protrude out of the cavity in which it is contained, and that no other organ can assume such a variety of shapes or is so movable. Its papillae, though similar to those of other mucous membranes, are larger and more specially developed, and those in the anterior two-thirds differ from those in the posterior third. The tongue presents a dual structure in accordance with its dual functions, motor and sensory, varies in color more than any other organ, and is more solid than any other viscus. It is the only organ presenting the three kinds of nerve, namely a nerve of special sense, one of ordinary sensation, and





### CHICAGO.

R. G. Dun & Co.'s Weekly Review of Chicago Trade says: "Indications of the usual year-end slowing up business are confined wholly to concerns preparing for their annual inventories and necessary repairs. All other activities testify to expanding efforts to increase production. Many deliverles have to be completed within the next two weeks and extra pressure is placed upon facilities in metal and woodworking. Finished products and general merchandise figure to an exceptional extent in freight forwarding. There is also an increased movement tree tops. of live stock and some of the principal raw materials, but the recent stormy weather caused decreased marketings of breadstuffs.

"The general demand for seasonable power. This is conspicuous in the leading retail lines here and in the interior. Estimates of the Christmas trade compare favorably with all previous records. Buying remains good for spring merchandise and the outlook is exceedingly good for wholesalers of dry goods, woolens, clothing, footwear and food products. Operations in the leading industries reflect sustained strength. New enterprises increase in number and capital investment, and include another large plant at Gary and extensive additions in mercantile lines on State street. Payments through the banks reflect steady expansion in commerce. Money is in wider request and there is little prospect of an earlier discount rate.

"Bank clearings, \$296,590,746, exceed those of the corresponding week in 1908 by 12.7 per cent, and compare with \$239,420,482 in 1907.

"Failures reported in the Chicago district number 28, against 20 last this year's crop does not represent | ber 10, against 7 last week, 13 in 1903 and 12 in 1907."

### NEW YORK.

The retail and holiday trade has been helped by seasonable weather and the approach of Christmas and makes good comparisons with preceding years, a few markets, in fact, reporting a record turnover for the season. Jobbing trade reports are cheerful, with special stress laid upon the volume of reassorting demand to fill broke en stocks. The wholesale trade and the demand from manufacturers tend to become quiet as the stock-taking meerschaum and are delightful smokperiod approaches, but order books for future delivery are well filled. Industrial operations are still active on old orders.

Business failures in the United States for the week ending with Dec. 16 were 273, against 259 last week, 311 in the same week of 1908, 300 in

1907, 227 in 1906 and 235 in 1905. Business failures in Canada for the week number 33, which contrasts with 30 last week and 31 in the same week of 1908.—Bradstreet's.

Chicago-Cattle, common to prime \$4.00 to \$8.75; hogs, prime heavy, \$4.50 to \$8.55; sheep, fair to choice, \$4.50 to \$5.75; wheat, No. 2, \$1.23 to \$1.27; corn, No. 2, 60c to 62c; oats, standard, 43c to 44c; rye, No. 2, 77c to 79c; hay, timothy, \$10.00 to \$19.00; prairie, \$8.00 to \$14.50; butter, choice creamery, 30c to 35c; eggs, fresh, 30c to 36c; potatoes, per bushel, 30c to 45c.

Indianapolis-Cattle, shipping, \$3.00 to \$7.75; hogs, good to choice heavy \$3.50 to \$8.65; sheep, good to choice, \$2.25 to \$4.50; wheat, No. 2, \$1.23 to \$1.25; corn, No. 2 white, 59c to 61c; oats, No. 2 white, 46c to 47c.

St. Louis-Cattle, \$4.00 to \$8.50; hogs, \$4.00 to \$8.55; sheep, \$3.00 to \$5.75; wheat, No. 2, \$1.29 to \$1.32; corn, No. 2, 61c to 63c; oats, No. 2, 43c to 44c; rye, No. 2, 75c to 76c.

Detroit-Cattle, \$4.00 to \$6.00; hogs. \$4.00 to \$8.15; sheep, \$2.50 to \$4.25; wheat, No. 2, \$1.23 to \$1.25; corn, No. 3 yellow, 61c to 62c; oats, standard, 45c to 46c; rye, No. 1, 76c to 78c.

Milwaukee-Wheat, No. 2 northern \$1.13 to \$1.16; corn, No. 3, 65c to 66c; oats, standard, 43c to 45c; rye, No. 1. 76c to 78c; barley, standard, 68c to 70c; pork, mess, \$23.00.

steers, \$4.00 to \$7.25; hogs, fair to ground was plowed May 29 and June choice, \$4.00 to \$8.50; sheep, common 25. On May 25 very few thistles could to good mixed, \$4.00 to \$5.50; lambs, be found. July 14 the ground was fair to choice, \$4.00 to \$8.20.

to \$1.22; corn, No. 2 mixed, 60c to thistles were found on the two and 61c; oats, No. 2 mixed, 43c to 44c: rye, No. 2, 75c to 77c; clover seed, of the season. The net total cost of \$9.00.

Cincinnati-Cattle, \$4.00 to \$7.15; hogs, \$4.00 to \$8.45; sheep, \$3.00 to \$5.00; wheat, No. 2, \$1.28 to \$1.30; corn, No. 2 mixed, 61c to 62c; oats. No. 2 mixed, 46c to 47c; rye, No. 2, 77c to 80c.

New York-Cattle, \$4.00 to \$6.80; hogs, \$4.00 to \$8.65; sheep, \$3.00 to trees should be protected from mice \$5.25; wheat, No. 2 red, \$1.28 to \$1.30; and rabbits. Mice, being small, gnaw corn, No. 2, 70c to 71c; oats, natural, the bark from the trees close to the white, 47c to 50c; butter, creamery, ground, but rabbits gnaw it off up as 35c to 37c; eggs, western, 32c to far as they can reach. In either case



Turkey Trouble.

Several inquiries have come in about turkey ailments. The heads are swollen, and, in some cases, dark colored. In cases of simple swelling the trouble is probably roup. Discoloration points to blackhead, a bilious malarial disease. An open shed, but roof protection from rain, is better than either a tight house or exposed

It is more difficult to doctor them than common fowls. Turkeys are both more delicate and more nervous. Since liseases are generally communicated through food and water, a feeding needs reflects a stronger purchasing board, regularly cleaned, frequent fresh water, and separation of sick from well are helpful. The white of an egg poured down whole, a one grain pill of quinine daily to each individual and dry bread crumbs or other easily digested food will cure, If cure is possible.

Hawks and crows, which took some straying young poults, especially the former, are such vermin destroyers that they are not unmitigated pests. If one is shot and hung up in plain sight it seems to frighten others away, and total destruction is not necessary nor probably desirable.-Chicago Weekly Inter-Ocean.

### Pipe Gourds.

Smokers of tobacco may in the near future go into the fields and pluck from plants pipes to their own liking, provided work being done by the department of agriculture realizes results confidently anticipated by those having it in charge. Efforts to introfuce into this country the South African calabash, or gourd, are meeting with marked success. The use of the calabash as a pipe bowl was discovered by the Boers, who attempted to monopolize the product and prevent the exportation of seed. Some were obtained for experiments here, and it is found the vine grows luxuriantly and produces large crops of gourds under our soil and climatic conditions. The pipes are graceful and distinctive in shape, according to a report from the department. Imported pipes made from the calabash sell at from \$8 to \$12 each. They color like the ers. The high cost of the pipes is caused by the amount of hand work necessary in preparing them, the shapes varying so that machine work is not practicable. The gourds can easily be made into pipes by buying inside bowls and mouthpieces. The United States department of agriculture has issued a circular (No. 41, Bureau of Plant Industry) on the subject, giving information in regard to the securing of seed, growing the plant, and making the pipes, which will be sent free to all who apply for

# Canada Thistles.

The experiment stations of this country have undertaken to show the farmers how to exterminate the Canadian thistles and do it scientifically. It is the most dreaded of all weeds. oecause its seeds are so easily distriouted, and it grows by underground

The life of the plant depends upon the green leaves above ground. Cutting these leaves and the stems twice does not seem to affect the roots, which have reserve material to draw upon, but by continued cuttings this reserve will be exhausted and the plant will die.

The most successful of the State experiments was in Illinois. The thistles used in the test covered two and onehalf acres very thickly of rich, black prairie soil. The thistles were cut July 17, when in full bloom, very tlose to the ground. The ground was plowed three inches deep and harrowed. Hungarian millet was sown at the rate of one bushel per acre. On September 10 the millet was one foot high and the thistles four or five inches high. It was turned under and and get ready to mine the ore it was winter rye at the rate of one and one-half bushels per acre.

The middle of the following April graphed the board in the East that the rye was turned under and the he had struck rich shipping ore and Buffalo - Cattle, choice shipping ground thoroughly harrowed. The seeded to millet, which was cut for vein. Toledo-Wheat, No. 2 mixed, \$1.20 hay September 15. Less than 50 one-half acres during the latter half

this victory was \$10.50 per acre. Thistles should not only be cut but burned. No trace of them should be left as the seeds are easily distributed and will thrive under the most adverse conditions.

Protecting Fruit Trees. As winter comes on all young apple

becomes stunted and distorted in shape so that it is worse than useless.

The way to prevent mice from gnawing young trees is to keep the ground free from grass or other material in which the animals can hide. If a circle two feet in diameter about the base of the tree is clear of dry vegetable matter the mice are not very apt to bother the tree. Mice will work only where they have material to hide under and if there is no such material close to the tree in winter they will not cross the open space. A circle of coal ashes about the base of the young tree makes a good protection against mice, since they become very compact and are not easily worked under. If the trees are mulched with straw or similar material it should not be placed within at least a foot of the tree.

As a protection against rabbits gnawing the bark from young trees in winter the only remedy is to protect the body of the tree to the height above which a rabbit can reach. This may be done by wrapping the lower part of the tree with heavy paper or several thicknesses of common newspaper. A permanent protection may be made by using small meshed poultry netting. Where the tree is wrapped with paper or similar material, the strings or wires holding the wrapping should be removed at the beginning of the following growing season to prevent girdling of the tree.

#### Growth of Bacteria.

Milk in the udder of a cow is formed entirely free from bacteria. It should be remembered, however, that an injury so slight that it would escape detection might be sufficient to allow the passage of bacteria. But even if milk is secreted bacteria free, it is difficult to obtain it perfectly sterile. Bacteria work their way into milk through the opening of the teat and find there conditions where they can grow and multiply. This growth is ordinarily confined to the lower part of the udder, and the greater number of the bacteria are washed out with the first few streams of milk. Sometimes they find their way further up and the last milk contains as many bacteria as the first.

The real contamination occurs after the milk has left the udder. In spite of careful milking, dirt, particles of dust, hairs and even bits of manure may fall into the milk. All of these things carry more or less contamination. Manure usually contains large numbers of bacteria, many of them being kinds which produce undesirable changes in the milk, and the dust on the stable floors contains great numbers and varieties of bacteria. This dust soon settles and an epen milk pail catches a surprisingly large number.

But the contamination does not end here. The pails or cans may not be properly cleaned and the corners or seams may hold particles of dirt or sour milk. The cloth through which the milk is strained may not have been properly scalded and the bacteria not only not destroyed, but have actually multiplied in the damp cloth. When the strainer is used again, many of these bacteria are washed out by the milk.

If a cooler is used, it may add to the contamination, if it is placed so that it catches dust. Finally the bottles in which the milk is distributed may not have been properly washed and steamed and thus may become another source of contamination. The contamination from each individual source may be small, but taken all together it has a serious influence on the quality of the milk. If right precautions are taken the number of bacteria in fresh milk may be kept down to a few hundred to the cubic centimeter; with careful milking and handling, the number will vary greatly with circumstances and may exceed 100,000.

# The Winze.

The superintendent of a Western mine in driving a tunnel struck a body of ore. The vein was vertical and had a sharp dip. To develop it harrowed. October 8 the ground was necessary to put down a winze-that plowed, again harrowed and seeded to is to say, to sink a shaft, in this instance an incline.

> Elated over the discovery, he telereceived the laconic reply to begin shipping at once.

He wired that he could not ship any ore until he had a winze on the "How much will a winze cost?" was

the telegraphic reply. "One thousand dollars," he replied,

promptly. The next query floored him. It read: "Can't you buy a second-hand winze cheaper?"-New York Post.

# Water Ways.

Bacon-Both of those men made money by watering their stock. Egbert-I didn't know they were in ousiness together?

"They're not. One's a Wall street broker and the other's a milkman."-Yonkers Statesman.

In England a dog used to guide a where the bark is seriously disturbed blind man is exempt from taxation.

At the Stockyards,

Visitor-I have always understood the only thing you couldn't use was the squeal from the hog?

Manager-It used to be so, but since the tariff agitation started, we have an unlimited demand for the squeal

#### serve it in these phonographs.-Puck AN EXCELLENT REMEDY.

from the Infant Industries, so we pre

Will Break Up a Cold in Twentyfour Hours and Cure Any Cough That Is Curable.

The following mixture is often prescribed and is highly recommended for coughs, colds and other throat and bronchial trouble. Mix two ounces of Glycerine, a half-ounce of Virgin Oi: of Pine compound pure, and eight ounces of pure Whisky. These can be bought in any good drug store and easily mixed together in a large bottle. The genuine Virgin Oil of Pine compound pure is prepared only in the laboratories of the Leach Chemical Co., Cincinnati, and put up for dispensing in half-ounce vials.

#### He Knew.

"My boy, here's the place for you Hours from 10 to 2; Saturdays from 10 to 12; work genteel and light; experience unnecessary; salary, \$100 per week. How does that suit you?"

"G'wan! I ain't got no \$50,000 to invest in the business."-Houston Chron-

This Will Interest Mothers. Mother Gray's Sweet Powders for Children, cure Feverishness, Headache, Bad Stomach, Teething Disorders, Regulate the Bowels and Destroy Worms. They break up colds in 24 hours. Pleasant to take, and harmless as milk. They never fail. At all Druggists, 25c. Sample mailed FREE Address, Allen S. Olmsted, Le Roy, N. Y

Best Test. "Tell me," said the lovelorn youth, "what's the best way to find out what a woman thinks of you?" "Marry her," replied Peckham, promptly .- Catholic Times.

Hamlins Wizard Oil will knock th pots off a sore throat. It's use makes tonsilitis, quinsy and diphtheria impossi ole. It is simply great for the relief of all pain, soreness and inflammation.

There is a union of hatmakers at Le Mans, France, in which the offices of president, vice president, secretary and treasurer are held by one man.

Constipation causes and seriousl

oughly cured by Dr. Pierce's Pellets. Tiny sugar-coated granules. The Italian government is making efforts to divert the tide of emigration

from the United States to Africa. TO CURE A COLD IN ONE DAY Take LAXATIVE BROMO Quinine Tablets Druggists refund money if it fails to cure. E. W

Would Have to Be Labeled. "What do they put under these cor-

GROVE'S signature is on each box. 25c.

ner-stones? "O, current coins, literature, and the like. We want posterity to know about our peculiar customs." "Then why not include one of the current hats?"-Kansas City Journal.

BREAK UP THAT COUGH with Allen's Lung Balsam, the popular family remedy. It cures where other remedies fail. All dealers, 25c, 50c, \$1.00 bottles.

In Cuba the State telegraph offices have been combined with the postal department.

Mrs. Winslow's Soothing Syrup for children teething, softens the gums, reduces inflammation, allays pain, cures wind colic. 25c a bottle.

Practically the Same. Mrs. Kawner-Do you get pasteur-

Mrs. Crossway-I asked the milkman about that, and he said they had to keep the cows in the barn, of course, but they fed them fresh hay, and that's just about the same thing, you know.



RESTORES LOST POWERS. man is like a clock run down, MUNYON'S VITALIZER will wind him up and make him go. If you are nervous, if you are irritable, if you lack confidence in yourself, if you do not feel your full manly vigor, begin on this remedy at once. There are 75 V.TALIZER tablets in one bottle; every cablet is full of vital power. Don't spend another dollar on quack doctors or spurious remedies, or fill your system with harmful drugs. Begin on MUNYONS VITALIZER at once, and you will begin to feel the vitalizing effect of this remedy after the first dose. Price, \$1, post-paid. Munyon, 53rd and Jefferson, Phila, Pa

# Just as some foods will make

the bowels active, so do Cascarets. Their results don't come through irritation, as with harsh cathartics, but in Nature's way. So you can take them any hour. No need to wait till bedtime.

CUT THIS OUT, mail it with your address to Sterling Remedy Company, Chicago, Ill., and receive a handsome souvenir gold Bon Bon Box FREE.

**OUICKEST WITH SAFETY** 

THE BEST MEDICINE FOR QUEHS 45 GLDS For the baby often means rest for both mother and child. Little ones like it too it's so palatable to take. Free from opiates.

All Druggists, 25 cents.

SP SOURCE AND STREET AND STREET AND SPECIAL SP

aggravates many diseases. It is thor-Senator Dolliver, of Iowa, says: The stream of emigrants from the United State visit to Western Canada, and says: "There is a and hunger in the hearts of English speaking peo-le; this will account for ur people are pleas the excellent adminis-tration of law, and they are coming to you in tens of thousands, and they are still coming." ly to the 70,000 Ameri-an farmers who made Canada heir home during 1909. Field crop returns alone during year added to the wealth of the country upwards of \$170.000.000.00 Grain growing, mixed farming, cattle raising and dairying are all profitable. Free Homesteads of 160 acres are to be had in the very best districts, 160 acre pre-emptions at \$3.00 per acre within certain areas. Schools and churches in every settlement, climate unexcelled. ettlement, climate unexcell

settlement, climate unexcelled, sollthe richest, wood, water and building material plentiful.

For particulars as to location, low settlers' railway rates and descriptive illustrated pamphlet, 'Last Best West,' and other information, write to Sup't of Immigration, write to Sup't

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S. C. N. U. - No. 1—1910.

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peculiar to our sex. I want to send you a complete ten days' treat. ment entirely free to prove to you that you can cure yourself at home, easily, quickly and surely. member, that it will cost you nothing to give the

treatment a complete trian; and if you should wish to continue, it will cost you only at the 2 cents a week, or less than 2 cents a day. It will not interfere with your work or occupation. Just send me your name and address, tell me how you suffer if you wish, and I will send you the treatment for you case, entirely free, in plain wrapper, by return mail. I will also send you, free of cost my book—"WOMAN'S OWN MEDICAL ADVISER" with explanatory illustrations showing why women suffer, and how they can easily cure themselves at home. Every woman should have it, and tearn to think for herself. Then when the doctor says—"You must have an operation." you can decide for yourself. Thousands of women have cured themselves with my home remody. It cures also old or young. To Mothers of Daughters I will explain a simple home treatment which spendily and effectually cures Leucorrhoea, Green Sickness and Painfal or Irregular Menstruation in Young Ladies. Plumpness and health always results from its use.

Wherever you live, I can refer you to ladies of your own locality who know and will gladly tell any sufferer that this Home Treatment really cures all women's diseases, and makes women well, strong, plump and robust. Just send me your address, and the free ten days' treatment is yours, also the book. Write today, as you may not see this offer again. Address

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