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## MEWFOUNDLANDS DISTREBS.

$\mathbf{A}^{\top}$this date we do not suppose that there is a reader of the Canailan Militer who has not heard of the terrible fire that on the 8th inst. visited St. John's, NAd., laying in ashes almost the whole city. The more recent reports that have come from the scene of dis aster indicate that the first news received, in place of maknifying, inadequately portrayed, the true situation. The whole of the busisess part of the city is destroyed. Fivery lawyer's office, doctor's residence and office and I'mtestant clergyman's residence was burned. Every daily newspaper and every printing office was destroyed, not enough type, paper or ink remaining in the city for a single poster. But, great as has been the loss from the destruction of the business part of the city; the greater distress has come from the devastating work of the flames among the homes of the people. Fourteen thousand people are homeless and five thousand are in absolute distress. Not a few lives are already known to lee lost ; starvation, and disease that stalks hand in hand with famine, threatens hundreds of others. Careful est inates place the loss at $\$ 80,00,000$, with less than \$5,000,000 insurance.
The new's of the calamity that has overtaken nur sister colony had little more than been proclaimed to the public before this same public, callous and indifferent in many matters, moved as one man, and each sec uon of the lominion, without regard to locality, has wed with the other in deeds of kindness and love. Their neat neighbor, Halifax, N.S., forwarded alinos immediately a ship load of provisions. St. John, N.1s., Montreal, Toronto, Hamiton, London neariy every municipality has taken prompt and prartica! steps to relieve the distressed.

## MII.I.t.K Not H.NENI

Within a few hours after the morning papers of this city had been read the Canalitan Militik intervewed a number of the local inillers and found that they were at one in the opinion that a millers' contribuuon of flour should be sent to Newfoundland, and prompely made their contributions. A circular was also sent out from the office of the Cinaitan Mititer to leading millers throughout the country, who have been equally hearty in their response; and altogether up to the hour of going to press. less than three days after the movement was started, contributions as follow's have been receivel
Vclaughlin \& Mmwe, Tomionto
J. L. Spink, Timonto.

Citisens Milling Cia, Townto
N. Wenget AS Soma, Ayton, Ont

I hotwon \& Camphell, Heaverton, ( mt
I. D. Sauntry, lamedon, (mt.
II. Hrown \& Sions, Carketon Place, imt.
K. R. Clement and uthers, Walkerion, (Ont. and box of clothing.
James Gooldic, Givelph, Unt.
J. Knox \& Ca, Siayner, Ont
I. K. Hinwer \& Sions, (ireen River, Ont. John II ull, Lakefietd, Omt.
Hilliott \& Hawkina, Holland Centre, Ome.

## .

. 10 " .10 .. .25 .10 sacks .15 bdm. 15 BNW
20 ." 20 ..
..
20 .25 .3 " . 1
8 racks
The Canalian Mili.er, on behalf and with the warm approval of the trade, cheerfully undertakes this work. The Cirand Trunk, Canadian Pacific and Intercolonial railways have agreed to carry all four for the purpose free of coss. Vessel owners, it is expected, will be equally liberal in the matter of carriage from the railway terminus to point of destination.
Kemembering this country's relations, past and present, to the ancient colony, and taking right cognimasce of the consection between the milling trades of Canada and the prosperity of Newfoundland, it is peculiarty friting that the millers of the couptry should take a distinctive position in this work of relief.
"He giveth twice who giveth quickly." Let those who have not already responded do so at once. Wirr yuantity, when shipped and how. The telegraph companies will make no charge for messages of this character.
Address shipments: "Can iman Militik's Neu foundland Relief, Toronto." These will be placed :ogether and forwarded in one lot to St. John's, Nffd.

Since sending nut the cirrular to millers referred tom the foregoing, the Weekly Bulletin of th:- Dominion Millers' Association has reached us containing a notuce from Secretary C. 13. Watts, sajink: "It nouk: be a graceful as well as humane act tor our millers to send contributions of flour to the sufferer, from the St. John's fire." and instructing contributors to consign their shipments, if residing west of Toronto, to Newfoundiand Kelief Committee, Toronto, and if east of Toronto, to Dtontreal, "and adsise me of amount of contribution. When the Canalman Min.t.ek suggested a fluur contribution from the trade Mr. Watts was one of the first interviewed and heartily concurred in the proposal, voluntarily agreeng to do everything in his power to further the scheme, adding: "In the Bulletin of this week I will insert a notice informing millers of the pro ect and instruction them to address shipments to Cis milns MIIIt.k: Newfoundland Kelef.
We are sorry for Mr. Watt's sake that he has deemed It the wise thing to act in a manner altogether contrary to his own statement. We hate no desire to take from him the ghory that he may bethese will come from securing one barrel or $\mathbf{j 0 0}$ barrels of thour for the suf. ferers of Newfoundland. We have ah opinion, however, that glory obtained for sweet charitys sake is of somewhat shady quality. One thought only has moved the MIIt.i.k in this project and that has been a sincere desire to help a neighboring community terribly in need. Mr. Watt's Hulletin notice is apt to defeat to some extent this end in raising a doubt in contributors' minds as to what steps they ought to take in the matter. Assuredly the act was not "graceful" or courteous to the Canablan Mill.t.k, which has always treater Mr. Watts with every courtesy and consideration. Not for a moment do we suppose the Dominion Millers Association, nor its executive. has been party to this act

## DOAmHON mflem astoclation.

THE: annual meeting of the Jominion Millers' Association will be held in the lfoard of Trade Baild ing, August 2 and 3 . Not since the organization of the association will a more important meeting have been held. For the first time the association will assemble as an organization incorporated by special Act of the bominion Parliament. We believe the members take a just pride in being so constituted, recosnizing the powers and influence the changed conditions give them and they will be prepared to congratulate the executive on the manaer in which the work of incorporation, not unset with difficultiex, has been carried to a successful issuc. Hy the time the annual meeting will have been held the new grain inspection act. concerning which we have something to say in our editorial columns, will have becorve law. We shall be prepared to write move exactly of the mater after we have seen a copy of the bill, but there is good reason to believe that in a large measare the wishes of the association have received proper consideration. Next to the duty fight. yet fresh in the memory of the trade, no greater victory in the interests of the milling business in Canada has been won by Canadian millers. Long and wearisome was the fight, bot a righeous cause and John Bull persis. eary has conquered. Nor meed we forger to mention the satisfactory solation of the Newforndland difficulty,
which has been reachei sme the memikers last met toge ther.

The programme is not jet completed but we have reason to know that aside from the eapect.al prestige that will attach to the conung meetung, for the reasons we have already mentioned, that it will le such that ought to :nake Ausust 2 and 3 , in Toronto, memorable days to every Canadaan miller.

U'nder the heading of 13 the Wiay and also on the Mill Product page ue have touched on several pratural questions that might fittingly be taken up at the comention.

## the floun product of budapest.

BTDAPEST, Hungary, can clam honest credit for the important inventions that within a periond of tuenty years have completely revoluthonized the business of four-making. The most momortant of these, as miller, know, are the "middling's purfier" and gradual reduction system, and following these the substitution of sted rollers of various sues and patterns for the old-time millstones.
In the July Century, Albert Shaw, who has made a study of civic zonernment and the conditions and krowth of the citien of both the old and new world, has an able paper on "Budapest The Kise of a New Metropols." Where, in the succensful phating of the produr ts of the mill, so much depends on the methods of miling millers will naturally te mterented in the paper b) Mr. Shatw.

Hudapest is 10 .day the caputal of a nation of serenteen millions of progressice and ambintous people. Forty years ago when Kossutio fuund refuge in America, after Hungary's strugite foo independence, the vster touns of lluda and l'est, $\mathrm{l}_{\mathrm{in}}^{\mathrm{g}}$ on opposite sides of the D ,mule, together had hadly more than a hundred thomsand people. The consolidared municupality has now a popuslation of fully half a mallion people. Mr. Shaw tells as that despite its rapid growth, a conditon out of which so many coils of cuvic manageenem frequently grow, that it would jet be hard to find another large town whose decelopment has been kept on well in hand by the authorities and has been so symmetrical and ocientific from the point of wew of approved cuy-making.
Hungary is an agricultu al countiy, rich in the outcome of the soll, and Budapest is the market fir the farm surplusage. It is the grain recciving pount of Hungary, and, as one mught suppose, it has leen found an especially desirable centre in which to develop the business of flour-making.
The inills of the Hungarian capital are magniticent establishments, fitted up with automatic machinery insented and made in the city, provided wuth electric lixhes and well supplied with ingenious contrivances to prevent fire. Their finest grades of flour are sent to all parts of the world except America, and command the highest prices. Hinh the flour product and the general commercial movement of liudapest have at least doubled within fifieen years. The annulal nutput of four is not less than $5,000,000$ barrels, and the industry seems not yee to have reached its maximum, wo or three new mills having been built within as many years; but the profits of the companies have suffered much from American competition and from the recent high tariffs of lierimany and France. About one thind the milling business of the city is run by steam. The okiest milling company doing business today is the J'esth Koller Mill Company. founded by Count Szechenyi in 1839 .

## KwowLese whl TELL

IF a miller does not understand his business and attempls to run a mill in competition with those who do the will find himself in the reas ten tumes out of nine.

## BY THE WAY.

THOSE who have made a careful evamination of the krowing crop in Manitolsa say that wheat has reached a length of not less than twenty inches and indeed is already commencung to head out. All the rocks of agroculture in the prairie province have not se been summounted, but a gook lead has been made, and present indications point to an early harsest. This however, is to be remarked that the wheat acreage under culture this year will be 40,074 acres less than last vear This is accounted for by the large yuantity of unthreshed grain held over from last season preventing farmers from giving sufficient attention to fall plouing In other cereals the reports tell of an increased acreage. About 39,000 more acres of oats are under cultivation than ever before. The acrease of rye is in reased by 31 ; acres, peas by 1,633 acres, barley by 7,816 acres, corn by 1,725 acres, and the area under ronts is nearly doubled.

One is hearng complaints contunually of the impur ity, less or more, of the grain and rinur exported from this sode of the Atlantic. Between the trade on the Canadian side of the Chinese custom line and that on the 'tother side these douisful honors are perhaps eienly divided. We have talked before in these columns of deceptive practices discovered in the shipment of both wheat and barley to Europe and in all cases the exposture has been to the prejudice of the whole trade-saints as well as sinners. It always will be so. If the punish ment would fall alone on the heads of the suilty ones the case would not be quite as regretable, but it nes er does. An Einglish contemporary, the Brtish Baker, has been making the complant that maize in consider abie quantuties has been found inixed with recent armals of American thur. The English miller buys flour, not a misture of flour and maze, and the presence of this adulterant in Ainerican flour must certamly create a hurtiol impresson of the flours that are made in this country. It is foolish business all through. We may think that sommetimes it pays to be tncky. We have our own opinion. On the lines we cite there is nothink either clever or paying in the business.

There can hirdly be any doubt that the Dominion Millers' Asoot a tion will lx a alled upon to protect their members against a system of fraud that is the ogue in certain parts of the l'rovince of Quebec. Millers in Ontario have filled orders from Quebec dealers for gisen quantultes of four at prices as apreed. After the shipavents have reached their destination word is sent to the shipper that the foour cannot be accepted at the plice invored and some flums; excuse is guen for the action. The shopper is entirely at the mercy of the dealer who practices these tricis. He knous that demurrape charge are quickly plared on the willting cargo. It would never pay to have the shipment recalled. This is known to the consignee, and he takes adtantagie of tise stuation and, metaphoncilly, with bludgeon in hand, he says ${ }^{4}$ I will pay you such and such a price or you ian keep your flour." These practices have lieen on the increase lately when flowr prices have been on the decline. It will be readily seen at what dis idi antaxe the honest dealer in Quebec in placed. isi neighbor beconnes possessor of four $w$ hich has beet. purchased, as a result of his dishonest: al a price that enables him to undeı sell the other an: yet make a profit. The honest man to neet this form of competition, is obloged to sell at a toss, but sees no chuouragement io continue trade on these lines. Here the (Ontario miller is struck again In a mood, trade in Qucler is demoralized, and to remose the cause of the demoraluation will be the work of the imillers when in association assembled

A Nanionta paper draws a doleful picture of the losses of grain in that province. A plethora of gound things is not always an unmixed suctess. The crop of 1891 was of a sire and kind that sent a thrill of foy through the heart of every Clanadian from orean to oxean. liut there has been some holiering. before everyme was out of the words. The amorumt of amund in the prairie province under cultivation was enormous and the yreld per acre something unprecedented. The Manitubians,
howeser, appear to have bitten of more than they could chen. Savs our contemporary: "The management of such a quantity of produce was wholly beyond the means at the disposal of farmers. Help was costly and difficult to obtain; the inferior and undesirable reaping machines in use were continually breaking in the heavy grain and the labor of stacking was exhatisting owing to the usual weight of the sheares, while many farmers had from fifty to a hundred and twenty stacks to build. Before the lasge harvest was sathered and while many fields were still covered by stooks the winter set in with unusual severity, commencing with a violent storn that battered the stacks full of snow and made the work of threshing difficult if not impossible. The intense cold calused the weak and brittle metal of the threshing: machines to glee way as if the castings had been made of clay in a brickyard instead of being constructed in a foundry. Thaws, followed by frequent blizzards, made the stacks a sheet of ice, crusherl by snow, with the tops only projecting from surrounding drifts. Threshing had finally to be abandoned after enormous quantuties of grain had been rendered useless by the we that became mixed when the sheaves were passing through the machines, and the work of redurink the stacks that should have been done carly last fall is going on nou on some farms." The attempt to overtake this work has proved ineffectual. Hundreds of thousands of bushels of grain have been so damaged by ice and damp that the whole has become heated and is now useless. The imstake is fortunatelv one that is not likely to be repeated; and the information that the acreage of wheat sown in Mantoba this vear is $\$ 0,000$ acres less than 1891 is evidence that our friends in the Northwest do ntt get caught a second tume in a blunder. Similar condtions have existed in Dakota and Minnesota. The Market Kecorl, of Minneapolis, says. "There is much disappointment in handling the grain carried over the winter in stacks or otherwise unthreshed. The early threshings came out quite well in quality. The later ones are bad. Elevator people have lost heavily on such grain, until now many will not buy the wet grain at any price. Others buy at low figures. Still with sales here at twenty to fifty cents there must inceecibe a low price pand to farmers at points where the freight alone is twent; cents a hundred to ship it here. So inuch is offered the market is glutted. That is a cause of the extremely low price now." The Jamestown Alert, of North Dakota, says. "It is said that not one farmer in ten has secured a grade of No. I hard for wheat threshed thus spring, where, had it been threshed last fall, such would not have been the krade. In fact much of the wheat has tuined out to be rejected, and occasoonally a lot has been heard of that has been graded No. 2 northern, which is a fair milling grade. The disappointment over this condition of affairs has been general. Yuch of this damaged wheat will be only fit for feed. But after all it is cheering to know that there was the pienty from which these great losses could be taken and jet plenty remain.

## the powe of watra.

THERE are very many, generally unknown, pecularities alout water as a power-making agency, even to a great many mechanics that are quite efficient in practical hydraulic engineering. The spoutung velocity of waier is controlled by the same law as falliny bodies As an instance the spouting velocit; of water under $\Rightarrow$ 16 .foot head is the same as that of a ixdy faling 16 fumt, that is, the velocity of the falling body at the end of the 16 -foot fall is the same as the initial velncity of the spouting water from under a $\mathbf{t}$-fioo head, both being 32.4 feet per second.

The velority from under a 64 -fuor head is 64.8 feet. It strikes the careless thinker as being quite strange that water should have a spouting velocity of $\mathbf{i} 2.4$ fee from under a 16 -foot head. and why 648 feee from under a $6 d$ foot head, and each are apt to jump at the conclusion that as the head increases in height it loses relatuely in power. That, howeser, is very far from teing true. A 20-inch water wheel will yield eight times as much power under a 64 -foot head as it would under a 16 -foot head, but would, of course, use twice as much arater The power developed being always directly as the quan tity of water used and the height of the head

The square root of the mulupie of increased height is the multuple of the increased spouting velocity. Thus, as we have seen, the head has been increased from io 1064 feet or + times, while the spouting velocity was increased 2 times only, 2 being the square root of 4.
The spouting velocities of streams of water issuink from under various heads is as the square roots of the heads; or, in other and plainer terns, veloctics increase in exactly the same ratio that the syuare roots of the heads increase; and a convenient way to ascertain the spouting velocity of any given head is to take the square root of it and multiply it by the constant factor 8.1. As an example we will take a heaci of 16 feet, the square root of which is 4 , which multuplied by 8.1 equals 32.4 feet the velocity of a 16 -foot head. Again we have a head of 64 feet, the square root of which is 8 , which multiphed by the constant 8.1 , equals 6.8 feet per second, the spouting velocity of a 64 .foot head
Now, if we take a 4 -foot head as a basis and call its useful effect one, we are able to construct a simple formula for ascertaining the relative useful effiect of any other head. First oblain the spouting velocity of the head as above explained, and divide it by $\mathbf{1 6 \cdot 2}$ which is the spouting velocity of a 4 -foot head; then divide the height of the head in feet by four and multiply the two toxether and the product will be the efficiency as compared with a 4 -foot head. As an example take a 16 -foo head, the spouting velocity of which is 32.4 feet, which divided by 16.2 equals 2 ; and 16 divided by 4 equals 4. which multuplied by 2 equals 8 . Therefore, the efficiency of the 16 .foot head is 8 as compared with one for the 4 foot head. Or again, take a 64 -foot head, the spoutins velocity of whirh is 64.8 . divided by 19.2 equals $t$, and divided into 64 equals 16 , which multiplied by 4 equals of, the efficiency of the 64 -foot head being that many unes greater than the 4 -foot head. It must be understond that the vents are the same in size in their calculations. As the size of the openings are decreased or increased the effectiveness is decreased or increased in proportion.

The result of these calculations are only relative to get at actual results. In any case we must know the actual quantity of water that can be used.

## THE WATEROUS COMPANY.

AKEPORTER noticed the Waterous eam yoing to the station last night with two very large pulleys, with two men on the wagon painting them. This rather raised his cunositv, and, on enquiry, he found that this was a shipunent of two $82 \times 16$ inch face grip pulleys, arranged to work on one central driver, fifty inches in diameter, being made for Hunt Brothers, of London, for their electric light plant. The order was recened Monday; June 27, and the pulleys shipped last night. making just mine working days, out of which can be counted the holiday of the first of July, when the Waterous people excurted to Buffalo. When the mechanism of these pulleys is taken into consideration. it will be seen that this is very fast work. While on this subject, it mixht be mentioned that the Waterous people have shipped about iwenty-five to thirty tons of these pulleys during the month of June, two of the laryest shipments being to the Hamilton Electinc Light and Power company, and the Kingston Light, Heat and power company. The new feature of placing two pulleys on a doubie driver, economizing space, is highly appteciated by the electrical companies, who, as a rule, dnve their dynamo from each side of their shaft, and croud their pulleys as close together as possibie. Several prominent electricians have (after a thorough examina(ioni) expressed their approval of the Waterous srip pulley, making the statemient that they had not prevrously seen a pulley that they would care to attempt to use, and for that reason had not up to date used grip pulley.The shipenent just made to Hunt Bros. is the fith to them of grip pul'eys, they having some ten or twelve pulleys and couplings in use at their electric light station in London.-Mrantford Expositor, July 7.

## pacacume va. paactice.

T is one of the easiest things in the world to make a barrel of high-grade merchantable flour ous of 4.10 bushels of wheat-with the mouth or pen. And one of the hardest things to make it with the mill.

## VIEWS AND INTERVIEW8.

Where next shall we look for the staff of life? Anywhere, we suppose, in Russia. Dr. Makarof has been mroaj. making experiments in that country with the blood of animals in the manufacture of bread. Tie made a one-and-a-quarter of blood. This he baked, and so produced a very good loaf of bread, which was not only fit to eat, but also contained much more nourishment than ordinary rye or wheaten loaves. Dr. Makarof considers that some regulations should be issued to people who slaughter animals, requesting them to collect blood, which has hitherto been wasted, and send it to certain specified centres, where it could be made into bread and distributed to the peasantry in the grain, so that they are obliged to grind it down, and as in most of the districts there has been a great dearth of fuel, the baking of the bread has been a great difficulty, which in some cases has proved insurmountable.
ount ${ }^{210} 0$.
The article of Louis H . Gibson on "Winter-Wheat Flour in Europe," republished in the June Militer from our new contemporary, Milling, and matter in a similar line, which the same writer has recently contributed to other journala, is vigorously criticised by the Kauffman Milling Co., of is. Louis. They want to know what difference it makes to Mr. Cibson, so long as the European buyer buys his flour from this side of the Atlantic whether he takes spring or winter-wheat flour. "We do not wish to detract from the merit of the spring. wheat flours"" writes this concern, "but would respectfully request Mr. Gibson to kindly state (in view of the fact that winter-wheat flours are bringing a higher price to-day in all the principal markets in Europe and America) upon what grounds he bases his statement that be 'does not believe winter wheat generally has ever been milled as well as spring wheat; that the winterwheat milling has always been behind that of the Northwest, and that winter-wheat flour would have a much higher place in the market if it were milled in the same spirit of enterprise and intelligence. Mr. Gibson does not seem to remember that the spring wheat founs first got a foothold in she markets of America during a time when a very poor crop of winter wheat, of poor quality, had been raised, and winter-wheat fours were that year of an inferior quality, and now if there is a market in the world where spring-wheat flours to-day are selling higher than winter-wheat flours we do not know it. By consulting the principal markets of Europe we think Mr. Gibson will not find one wherein winter-wheat flours at present are not selling for more mosey than spangwheat flours. At least, to the best of our knowledye and belief, this is the fact, and if it is a fact, why should the enterprise and intelligence of the winter-wheat miller in America be placed below that of the spring-wheat miller? This question is asked in all spirit of fairness." And commenting on this letter the Modern Miller adds: "This is a reasonable communication, and the grounds taken are well held. It is a mistake to assume or attempe to school the trade into believing anything but facts in a financial way: therefore it is uscless to inform the trade, either domestic or foreign, thas winter-wheat flour is poorer or poscesses less value than spring-wheat flour. Facts are ayaiass such an assumption, and the quotations of to-day, like those of the past, prove this; and likewise make promise of the future."

Why not a millers' creed? The miller is a worshipping animal. At least the miller is a man. That is sure, and we have gond authority for saying that man is a worshipping animal. Then why not a millers' creed? One niller, if no ocher, believes in a millers' creed, and has constructed one after this fashion: "I believe in the Great Creator of heaven and earth, and the Bible, inasmuch as it does not coaflict with the True Short System. I believe that four-making is a business and not a pastime, and that experimenting is the most expensive operation machisery is pur ta. 1 believe that cleanliness is next to godliness, and I deay that the "mills of the gods" were in any respect as good as mine. I believe that the miller who says that he knows all about
the business is a liar, and, in the language of a muchquoted writer, "the truth is not in him." I believe in water power as a feature of economy, but I am not the kind of prohibitionist who waits for rain, hauls water or employs a poor dammed excuse instead of steam power. I believe in differentials and corrugations, and I admit that I don't know all about them. I believe it is wrong to spoil good wheat. I believe that wheat has whiskers and wind purifiers are a natural consequence. I beliere in milling only good wheat after it has been well cleaned and paid for, as I desire, before making any breaks or purification, to know that the product of my mill is mine own. I believe in making flour that will sell, even though my head miller dislikes the finish, on the theory that the people know what they want and that I am no back number. I am an advocate of electricity that will electrify trade, but am not at all partial to the alternating current system. I believe a barrel of flour can be made from 4.14 of wheat, but I will not agree to recommend it, or promise to tell where the addition to the feed pile came from. I believe that wind is not a good mill power. I believe in reciprocity if I am allowed to arrange $m$ y end of the schedule. I don't believe all I hear about the export trade, and I am not spoiling to feed Europe, nor do I give credence to the rash sayings of statisticians. I believe I know a little something about my business, or 1 wouldn't have any; likewise my competitors are not all fools, or I would be doink all the business, which I ain't by several per cent. 1 believe in the "survival of the fittest," and I fancyl'm "in it," or I wouldn't be "on the map."

## Mour Proncetion

With the large acreage of whent grown in Manitoba it is to be expect. ed that the people of that province would manufacture their own flour. In Winnipeg is located one of the large mills of $W$. W. Ogilvie whose fame as an extensive and successful miller is world-wide. In the country districts, however, the want of water power is a serious drawhack to manufacturing of any kind and particularly to the production of flour. This is the view of the Pilot Mound Sentinel, which, as a local newspaper, has spoken in very distinct terms on the subject. This is what is said: "Manitoba is not porssessed of any water power worthy of the name, manufacturing languishes in consequence and especially is the drawback felt in the production of flour in country places. When settlement was advancing in the castern provinces, the situation was much better; there was good power, at intervals on every river and stream. A few hundred dollars were sufficient to erect a mill that would grind com and wheat in a satisfactory manner. At such an establishment farmers had flour and meal made from their own grain, the miller takıng one bushel in twelve as toll. In Manitoba the case is very diffecent; flour mills are required in every district and are of such; an expensive description that little profit is obtained either by the millers or their customers. The town and districts where the mill is to be erected generally sive a bonus of a few thousand dollars, the mill couting, perhaps fifteen or twenty thousand dollars, then there is the cost of insurance, the interest on the money which is usually borrowed, there is attendance, fuel, and sometimes a difficulty in obeaining water, with the outlay for frequent repairs. Grinding in such a mill is of course expensive. If a farmer sells his wheat at fifty cents a busbel, it will take the price of about twelve bushels to buy a barrel of flour. If he pays for grinding the cost is considerable, and the farmer is often dissatisfied with the returns, especially when his wheat has been damaged by frost, alhough the miller may do the very best he can. The cost of grinding must always be high in a prairie country where there is no water power, and where fuel to produce steam is scarce and dear. Some relief might be obtained by using less expensive mills, and for curpery work, if :wheat is fairly good, millstones would perhisps prove more satisfactory than rolls, as then every customer might have flour from his own grain. In seasons when there is no damage to wheat by frost the business of a miller woud be more satisfactory to himself and to his customers than when he has to contend wieh inferior grain. During the few years when early frose has been so disastrous to grain fields the position of millers in country places has been moot undesirable."

Perhaps in the gook times to come, when Bulwer l.ytion's "Coming Kace" will have peopled this earth, Enoicese Motmods. or Bellamy's new world has been ushered in, excessive profits and ercessive competition may be consigned to the limbo of the past. These two abnorinal elements, in the opinion of the Bankers' Mayazine, plve rise to the various difficulties in production and exchange. The pity is, though the wish may seem chimencal, that we are not able to right these matters now, and not be obliged to wait for another generation, when the remedy will do no good, at least to those of us who are about here at the present time. Conditons are unevenly batanced. Constantly one end of the teeter and again the other is in the ascendant. The see-saw is no guided by any rules of a fair equilibrium. Is the trouble where the Bankers' Magazine places it? Our impression is that this journal has very squarely struck the mark. The reasoning is supported by the logic of a wise political economy and the lessons that one's own observation and experience teach. The journal in question says: "The profits from production and exchange in many cases are so great that those who reap them seek to produre and exchange beyond what may be termed the normal or healthful limits of society. That this remark is true is within the ken of everyone's eaperience. The modern machinery for forcing business in many directions furnishes abundant proof. The conduct of many producers and exchangers would seem to imply that inen no longer had any wants; that production and exchange were not based on mutual interest, but could be affected only by the application of extraordinary energy. This seems to be the underlying idea in much of our modern exchange, and yet, as we have seen, it must be wholly false, or else our leading premise is erroneous. Another explanation for thus forcing business is the small profits, which compels producers and exchangers to increase their business in every possible manner in order to get enough to pay their expenditures and save themselves from bankruptey. We are all familiar with the consequences of attemptiny to do business when insolvency is pending. All know what extraordinary efforts are often made in order to avert that event. How goods are pledged for future advances; how they are sold at very low prices and often at ruinous loss; how money is borrowed at high rates of interest; in short, all sorts of methods adopted in order to escape such an unwelcome fate; and the result of these things, of course, is most destructive to all legitimate business. Reasonable prices are destroyed, the entire market is demoralized, and, in fine, the whole process of production and exchange thrown out of gear, when the pressure to produce and sell originates from this state of things. And yet, in the past, a great deal of production and exchanke has had such an origin; the unlucky are always with us, who, in trying to save themselves, too often draw many others nearer to the danger line than they were before. These, in brief are the leading explanations of the phenomena which we set out to explain. Men seek to produce and exchanke beyond any rational desire, either to enhance their profits or to escape ruin. It is either a fight for too much or a fight for life. Probably society suffers more from the operation of the last cause than from the operation of the former; but in either case the suffering is great. Production and exchanke should lead to no such results; these processes should yield mutual gains and pleasure. And they would if kept within proper limits. What produces so much loss and miser; at the end is the extension of production and exchange begond these boundaries:"

## Loapmg erank.

THERE is soon to be a change in the regulations governing the loading of grain on the seamships in the porr of Montreal. Steamship men have for a long time been complaining that the regulations in regard to the fitting of the boats for the reception of the grain were $t 00$ stringent and entailed 100 much cost on the steamships. They pointed out that the regulations here were much more severe than those enforced at any of the American ports, and asked the lioard of Trade to modify the rules. The matter is now under consideration by the Board and the wishes of those concerned are likely in a measure at least to receive consideration.

 ARTHERR S."NORTIMER

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## manitoma grain inspection.

THI veady withoun that the fommon Viller Asme lation bashept up, ak.ount the system adopted in the inspection of Uamiobla wheat is likely at last to prexduce a remed!. Gur friends in Wantoba hase themselies come to recogmae the justue of the complaints, and are learning, av has been plainly recognized by the t.ade in the east, that Mantutha's interests are being mjured by the system of ir pection in wogue at l'on Arthur.

The Winnipeg Comnercial, which is to-day fighting the l'ort Arthur methods with as much ugor as has ever been employed by the Civillin Milit.t.k or the Dominion Millers Association, excuses its inaction until now on the kround that "krumbling from the east is looked for as a matter of course, and has on this account not recested as much attention perhaps as should have been ine en to it." So pleasure was taken by any one in this part of the lominon in persistently calling attentoon to this trouble, but it was a case where the evil protruded itself with wh temarkable frequenc! that the prevalue was. so to veak, before one all the tume. Then it wav an ewil of an axsratated character and becommin more wigratated all the tume. The sufferer, were here, and when no effort was made in allay the sufferng, whete it might lee allayed, the only recourse open to thone injured was to tixht on antul vetory was attaned.

The Commernal giles anay the whole charge of what
 our eatern friends to krumble; when it says, "complants from the eant and from abroad as to the grading of Manitubat whe.t have leeen pnncipally affecting I'on Arhur inpuection. Noin it must be understood that the gran ir ule of Wamitoba has nocontrol whatecer over the inspet tein at Port. Athur, though nothing but Mantoba krades of wheat are inspected at iron Anthur and fort Wilham In-iec tion there is carried out under the rules pmided be the thommond (imernment. independent if the VIantub.i bratid, of irade." If cuir contemporary will refer tur report, of the meetungs of the Dominan Millers Awom wown, whith appared in the Ciw whis MIItakif Dugut and lecember, IXyI, and April of this sear, it ewh of which this subject was disc ussed, it will tind that the chouse of unfar inspection was laid at the door of the l'ort Arthur inspector and nowhere else.

Tuocurr unntane on have no doubt hurried Manitola action in the matter at the present lune ia. The cirrular sent out by the Domonoon Millers Association in these words. "It is a notorious fact that nearly all the Manitolat wheat commeg forwaril is muin infenor to the standard of the grade at which it in certified. No. 2 and No. 3 espectally are in mowt rien! ase three to eight cents per bushei peorer wheat than are the fioternment standiards of these grades. The loss of from $\$ 20$ io $\$ 50$ a car in thus mistained by the purchaser. We have so far been unable tw wet this unjust state of affairs rem-
edied, but would strongly urge you to refuse to buy Manitoba wheat on inspection certificates. Buy by sample only, comparink it with liovernment standards, which is the only way you will get a fair value for your money. In this way it will not only prevent your being rolbed but will probably lead to the inspection leeing made more satisfactory in the near future." ib The complanns, to quote the Co.nmercial, from the east, which have been inuch in excess of previous years, and complaints from New York and other export points as to the grading of Mantoba wheat, "some of which have been of a semous nature.
The refonner who leads in the vanguard of reform is at tunes likely to be misunderstood. We suppose that the trade in Mantoba may have considered that those in the east , re pursuing this matter with unnecessary determmation They are now ready to admut that the importance of the case required it. I'sing again the language of our Winnipeg contemporary, we can sas it is most umportant "to have the srading of our wheat above the prossibility of undue manipulation and reproach. The reputation of the country demands this. The interest of our grain growern and grain dealers demands this. Wur grann evporters, who ship upon certifates of inspection. have a right to demand that every possible secuntry be placed about our system of inspection, so that there can be no possibility of tampering with the grades. Their business depends upon this, for if export shipments are belon the grades which they are supposed to represent, the effect of this will be felt disasmusly upon our exporters in tune.
The whole country has too intense an interest in the success of Manitoba wheat to be else than jealous of any element that would prove prejudicial to its character. And the Dominion Millers' Assoctation, in fighting its own battes as against I'or Arthur inspection, has also been standing out just as boldly for Manitoba's interests.
Girain men in the east will cordially welcome as a friendly ally the grain men of Winnipeg in the steps they are now taking to "make such representation to the Dominion Government as in their opinion is necessary to place our system of inspection upon a sound and satisfactory basis." And it will be gratifying to them and the trade generally to know that the ciovernment has finally reconnized the serious nature of the trouble, and that a bill on the lines suggested by the Dominion Uillers' Assockation is now before the Cominons. We do not know just how completely the inea sure will serve to meet the whole case, but we have reason to expect that the docernment will not any longer perimit the looseness that has characterized the present sistem of inspection to prevail any longer.

## bank opimion.

It is doubtful if in any other way the financial situatoon thoughout the country is more clearly and correctly focused than by means of the reports and addresses of our leading bankers, which usually come along about this time of the year.
Sir Donald A. Smith, president, and Mr. E. S. Clouston, yeneral manager, of the llank of Montreal, each delivered instructive addresses at the annual meetung of this bank, recently held. The occasion was the 74th annual meeting of the leading monetary institution of the Iominon. Illustratice not alone of the growth of the business of the bank, but also of the commerce of the rountry, for the two in this case go hand in hand, the president drew a contrast between the transactions of the bank in tis early years, and those of to-day. In $1 \$ 17$ its rapital was $\$ 3 ; 0,000$, and as there was no other bank in the country at that time this representert the entire banking capital of Canada, where at present the capital of the banks doing business in Montreal alone is upwards of $\$ 50,000,000$. The capital of the llank of Montreal is now. $\$ 12,000,000$, with a rest of fifty per cent., or $\$(\$, 000,000$.
The growith of the commerce of the Dominion during these years, and more particularly the past tuerity-five years, is shoun in a comparison of the impons and exports of this periad. some interesting fyures on this line being furnished i.y Sir Ionald. In 1868 the total value of our foreign trade was $\$ 131,027,532$. It has nom
always maintained an easy level, fuctuating more or less at times. The trade returns, however, for the fiscal year, ending April 30, show an extraordinary developinent as contrasted with the preceding year, the figures of the export trade being. 1891, 577,452,314, and 1892, $\$ 88,435.793$, and this notwithstanding the Nekinley Bill. So with the shipping. The month of May just closed shows an inward tonnage in the port of Montreal of 174,000 tons, against 132,615 tons in 91 and 157,000 tons in 'yo, or 17,w0 tons inore than in May, '90, which was the laigest previous record. Throughout the entire address I'residen: Smith takes a hopetul view of the business situation, believing there are great things ahead for this Dominion.
Hardly running in patal!el lines with this view is the opinion expressed by (ieneral Manager Clouston, but his remarks are none the less wholesome, even though in contrast with those of the president, decidedly pessimistic. Better times were expected when it was known beyond peradienture that the country had been fasored with an exceptionally fine hariest, but VIr. Clouston says "we have experienced as dull, if not a duller. year than those preceding." The explanation of these hatd times is attributed to the fact that farmers used what money was realized from the sale of grain for the payment of obligations due the loan associations, implement manufacturers and others. The residue of grain they have held in hopes of higher prices. "If, however," he says, "as it is supposed, there is still a considerable amount of krain in the farmers' hands, we are undoubtedly on a better and more assured basis, and with anything like a good harvest we may reasonably hope for some improvement in the future." Albeit, conditions would have been unproved if the farmers had sold their grain earlier in the season instead of holding for higher prices, which have not been, or seem likely to be, realized, whilst the grain is suffering, in the opinion of those competent to judge, a deprectation of fully twenty per cent. from storage and attendant causes.
The deposits of :he bank have increased largely during the year. In fact there has been, and is now, no lack of money in the country, but as Mr. Clouston remarks: "Cheap money is not an unmixed good, and is often a sign, as in the present case, of general distrust, and a widespread and far-reaching inactisity in bustness." The weak side of business in Canada to-day is the hestancy exhibited, by those who have the money, to invest it in commerrial undertakings. The generai manager of the liank of Toronto tourhed on the same matter in his annual address when he said: "The most conspicuous feature in the financial situation throughout the world has been the contunual accumulation of unemployed money, which has been accompanied by a state of heaviness in general business, and an absence of new outlets for capital." And in this country, the Toronto manager goes on in say, thes feature has "markedly characterized the business situation."
The one important article of confidence is what is most required to give healthfulness and tone to the commercial situation.

## ORE QUARTER OF A CEmTURY.

THIS month Canada has celebrated her twenty-fifth anniversary as a united Dominion. It is an experience of human nature that the forebodings of trouble that often take hold of the individual heart are seldom as black as they are first painted. No more can the picture drann by the enthusiastic optimist be taken as real life. Kocks and yuicksands covered the pathway of this young nation as she staned on her journey twent $y$-five years ago -so prognosticated opponents of confederation. A future that could know few storms, made under a sky overcast with sunshine, appeared on the canvas touched with the brush of the over sanguine unionist. Neither picture has been true to nature. The histon: of these twenty-five years tells of difficulties that had to be overcome; but we are stronger as a nation today for having to work for what ne have attained. Now we see clearer than ever before the great possibilities of this Dominion, and, pointing towards another twentyfive jear milestone, we may, with Sir Donald Smith, "look forward to the fact that Canada shall within the next twenty-five years be a country not only of great importance, but very great importance."


CENTKAL Wheat Buyer Charles B. Watts says: "As a result of our representations, re inspection of Manitoba wheat, the liovernment will investigate the first authentic case. I would strongly urge all millers who are not now busing their wheat on standard basis to start doing wat once, as 1 am sure there will be a lot of shrunken wheat this larvest which will involve the miller in heavy loss if bought straight basis, and it will cause bitter feeling amongst the local farmers if millers begin taking their light wheat standard basis after only paying them straight for all their heavy."
"One thing," writes Mr. J. Clarke, of Moncton, N.B., "1 think the Canadian inillers could discuss with more or less profit, in conjunction with English, Scotch and Irish millers, and that is a duty on all flour coming from any country not liritish, but no duty on wheat going into Enyland from any country. This would give large employment to millers in Enyland and her colonies without increasing the cost of bread to the masses in Enyland, as the competition between the hoone inillers and the millers in the colonies would be sufficient to keep prices down to a proper level. This 1 believe should be the first stone to lay towards 1 mperial Federation. Yos know it to be a fact that there are sufficient mills in Canada and England to supply the four demand, as the state of milling in Canada requires something to bring it into a healthy business, and that on the whole they do not run half time to-day. I trust the Dominion Millers' Association will take this matter up at its next meeting in your city, and pass resolutions and send copies to British associations across the water. 1 think 4s. per sack of 280 lbs. would be sufficient. Furthermore, I am firmly of the opinion that English millers will meet our millers with prompt action."
l'resident Hugh Baird, of the Toronto Board of Trade, does not often forsake, to quote our eveniag contemporary, The Telegrain, "his usual unruffled mien"; but on Change a few days ago he let himself loosc in expressions of protest at the manner in which Ontario breadstuffs were being decried abroad because of the dirty condition of the grain when shipped from here. He declared that a halt must be called. "I ain no alarmist," he said, "when I tell you that this is about one of the most serious problems that the farmers of this country .ver had to face. We are being discredited at home and abroad by sending dirty grain on to the open market of the world, and this must be stopped at once. Of course, apart from this, the trade will be ruined by the refusal of British importers to take Canada wheat altogether, but what with the infection of smut and the indifferent inspection the exporters on this side have already to suffer a surcharge of from 2s. to 3 s. a quarter. This can and must be stopped if the farmers will only take the trouble to clean their seeding before sowing it. I am told that a solution of blue vitriol will effert all that is necessary. But, anyhow, 1 intend to take immediate action in connection with all the leading cominercial bodies of the country:"

The Collingwood Board of Trade has passed a resolution commending the efforts being put forth by the promoters of the Ontario Ship Railway. Ruchester business inen are aroused on the subject, believing that the carrying out of the scheme would be a great boon to that city. President Max Brickner, of the Rochester Chamber of Commerce, in an interview says: "If the working of such a rail ray can be made a practical success, this particular route would be of inestimable value to the business interests of Rochester as well as of Toroata. It would shorten the distance from this ciny to the great lakes about 600 miles on the round trip. This would be a great saving of time and money in the
handling of such an immense tonnage as would be offered for carriage. It would make Rochester one of the most important lake ports in the country and that would mean a large increase of our population and an impetus to all business enterprises can readily be seen." It had been the intention of Mr. David Blain, the chief promoter of the scheme, to have visitud Eingland with the purpose of raising the necessary capital to carry on the work, but in a conversation I had with him a few weeks ago, he had, in the ineantime, abandoned this idea, believing that sufficient interest was being manifested in the States to secure the money there. It was his intention to interview leading New York bankers on the question.

A travelling man for a large mill furnishing firm has come to the conclusion that "millers, like other men, have their superstitions, no more or less." "And strange to say;" in his experience, "the millers' fear of the occult infuences is inore identified with the omens and prognostics of that day of the week called Friday than any other singie thing connectung the understandable with the supernatural; yet the average miller indulges in about all the weird dictates that flesh is heir to." The following story told by this travelling man, to illustrate what he has already said, is narrated in the columns of our contemporary, the St. Louis Miller. Engaged to construct a certain mill, "we happened to arrive in the place," he said, "Thursday night, and next moming, Friday, 1 showed up at the mill early. The mill was a contract job and under a forfeit of \$20 a day was to be done at a certain date, which had then transpired five cays previous. I was ordered to the place by telegraph to 'make quick time-not to lose an hour in setting her under way,' and of course when I arrived I had a inove on me. I hunted up the pioprietor and introduced inyself, at the same time requesting the presence of the boss millwright in the office. He came in at once, and I asked: 'Is she all ready to go?' 'She is,' replied he, 'ready since yesterday mon. My men are all ready to pack up and are remaining subject to your orders in case you want to make any changes.' 'Tell the enyineer to get up steam,' 1 replied. 'Hold, McDuff', said the proprietor, 'this is Friday, and if the court knows herself you don't start my mill up on Friday.' 'How about the forfeit? I asked. 'The devil take the forfeit, it stopped yesterday. 'How about my expenses and the cost of keeping the millwright crew here?' 'How much is it?' he asked. 'About \$60.' 'All right,' said the proprietor, 'I wouldn't have this mill started on Friday for five times $\$ 60$.' We all adjourned to the Y.M.C.A. rooms (?) and spent the day, and started her up Saturday with a whoop loud enough to produce a shower had rain-making been fashionable at that time. At another time I had everything ready for a next day start, the next day happening to be Friday. It was six o'clock and our crew were all leaving the mill with the understanding that a start was to be made 'in the morning.' The proprietor called me to one side and said: 'Take just what men you require to start and I will give you all $\$ 5$ apiece to make me a barrel of flour before twelve o'clock tonight.' We did it. It cost him $\mathbf{5 5 0}$, which he paid cheerfully, and said: 'I would have given $\$ 100$ rather than have started to making flour on Friday.' Ayain, once on Thursday evening we had a mill ready to go, but the next mornink the proprietor, who always locked and unlorked the mill for the crew to come and go, sent down word to the mill that on account of sickness in the family all work would be suspended at the mill for the day at his expense. That evening I got an invitation from him to attend a social hop with him and his wife. And notwithstanding the fact that I was paralyzed with surprise, I went. On asking about the sudden recovery of the sick that permitted their attendance at the frolic, the wife said: 'Oh, it was only the family dog that was ailing. And then, you know, Mr. Blank didn't want the mill started up on Friday.'

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Spending a brief holiday a few weeks since in the Koyal City of Guelph, I took advantage of the occasion to visit the Ontario Agricultural College, situated, as my readers no doubt know, about two miles out of Guelph. It so happened that I reached there on closing day and at the hour when the large gymnasium halh, recently
erected, was filled with tou nsfolks and vinturs who had been attracted thither by the closing exercises of the college. The proceedings were presided oner hy the principal, Professor Mills, and associated with him on the platform were the newly appointed Lient.-(iovernor, Hon. (:. A. Kirpatrick, Hon. John Dryden, Minister of Agriculture, and many local celebrities. I think that with everyone there is a certain indescribable charm in attending the commencement exercises of a college. If one is young there is an inspiration in the presentation of medals and diplomas that sends the blorel coursing through the youthful veins, for which one feels the better, even though an academic training may be something that has for some untold reason passed f.om one's grasp. If the years are growing on us we are apt to think of those of our own flesh and blened to wholl we are striving to give an education in sperial and liberal lines; or the memory takes us back to the dats of our own Alma llater with their many and diversified associations. We are taken out of the rut and humdrum ot everyday life, and life is the sweeter when its monotony is broken even fro a brief spell. How true it is that the sins of the fath:rs are sisited upon the children of the third and fourt generation, and, conversely, it is a fact, verified by observation and experience, that the better qualities of manhood and womanhood are im. pressed on those who follow after us in coming generations. 1 thought of this as I looked on the boyish face of J. A. S. Burns, of Halifax, N.S., who delivered the valedictory address. He was introduced as the son of the Rev. Dr. Hurns, the well-known Presbyterian minister of the Maritione Provinces, and a grandson of Rev: Dr. Burns, at one time minister in Knox Church, Toronto, and for years one of the best-known faces on the streets of this city. We talk of heredity; in facial expression, carriage, manner, method, there stcod the senior Dr. Hurns in that boy. The boy was talking agriculture and not theology; but where else was the difference: Whether the grain we grow will rank as high grade or low grade, depends primarily on the seed that is sown. The flour we mill rests on the quality of wheat that reaches the rolls. The boys we raise depend on the fathers and the grandfathers who have gone before them. I have not donned the pieacher's robes because perchance I am talking of a preacher's boy, but the thoughts are suggestive. They are not even foreign to the business of grain growing or flour milling. Principal Mills in his remarks told of the number of excursionists that had reached the farm during the month, from 300 to 3,000 in one day. Hon. John 1)ryden, a nan whom honors do not spoil, one of the most practical and intellixent farmers in the province, gave sound advice to the young men who were that day leaving the college halls with diplomas in their hands. They should be close observers and constant readers of all that pertained to their work. They should not think that agriculture was all science; it was an art as well as a science, and the young men should apply the knowledge they had obtained in a practical manner. He advised them not to be ashamed of their business; it was as noble a callsing as any, requiring the greatest amount of intelligence. Our Lieut.-(iovernor showed that he had kept hiunself in touch with the important interests of agriculture. It was now the chief industiy of the protince. He complimented the province on possessing an institution of the character of the Ontario Asricultural College, and told how Denmark, which had about the same poppulation as Ontario, had, under the fosterng care of its Government, so improved their butter-making that they sent to Britain last year $\$ 18,000,000$ worth of that product. I have no space to tell of the pleasant hour spent in rambling through the grounds of the farm. The country around looked prand, and if no setlack is encountered, one can believe, with the report of R . (; Dunn \& Co., that the wheat yield will not unlikely approximate the unprecedented crop of 1891.
C. A. Pillsbury, the big Minneapolis miller, says: "I have never sold a bushel of wheat short in my life. This has certainly not depressed the market. I have been called a gambler, and if my selling what I actually now is gaunbling, then I am a gambler. I believe I have done more to keep up prices for the farmer than anv other man."

## Cloth and flour.

THERE seem to be some very feeble notions extant in relation to the effect that the bolting cloth may have on the rising qualities, otherwise the strength, of the flour. Some inagine that, if the cloth is tox fine the flour will be void of strength, will not rise well, and therefore will not make gond bread. A little caln reflection ought to consince every thouking man that the cloth itself a an hase no mfluence in the matter. It ran neither add 10 or take from the four any of it natural constituens. Cloth simply sep.. ates the flour from the offal and dundes the coarse and the tine Whateser quantity of hour there ma! happen to be in : mass of chop material, that is tine enough to pass thouk No. 16 choth. will be separated from the m.lss by the use of that grade of cloth, but dies any one suppone for a moment that the mere operaton of separating the tine from the coarse will rolb it of any of tts bak 13 g or other natural characteristics? Assuredis not. Cloth is smply an agent used in separating, and can have no ponsible effect either in favor of or akunst the flour, and all persons interested may feel easy on that point.
There was a tume when it was thought and frequently said, and undoubtedly belieied by many millers, that flour could be irretrievabl! injured by arriding. But that was when low and very fast grinding with buhrs was the fashion. It was thought that chemical changes caused by the frictional heat, sometimes took place during the process of grinding, which injured the tlour. The fact was never indisputably established, and whether it was true or not does not now matter, as the method of grinding and the supposed resultugg injury have both passed away, and we are no longer interested in that part of the subject, furtier than to add that the recollec tions of the past may have something to do with the present idea annong some, that the cloth has an influence in determining the natural condition of the flour, theing formerly supposed that the flour ground too tine was the most injured, which was undoubtedly true, if there were any changes on account of the engendered heat, as the closer the xrinding the greater the heat, other things being equal. Close grinding required fine cloth, and now some retain the idea that, if fine cloth is used, injury may result.

It is true, buhrs are still used for grinding wheat in making flour, but not as fornerly. Much less is ground in a given time, and the grinding is higher, so that there is no longer any danger of "killing" the flour by grinding. There is, of course, not the slightest danger of any such injury with the rolls, as the prodact is merely touched by them and no time is given for dangerous heating. It is not so much as to how fine or how coarse four may be that millers must consider, but rather us evenness. We adapt cloth to the grinding, and if the intention is to make coarse granular flour, then we must use cloth coarse enough for the purpose. On the contrary; if fine flour is the object, then we must use fine bolung-cloth : but in neither case has the cloth any effect other than io perform its function. There is a medium that may be regarded a fair standard, and that is to have the finishing-cloth in a system of bolting about No. $\times \times 14$ The trouble in having finshing-cloth very much coarser than that is the difficulty experienced in clearing the flour. It is hikely, in fact almost sure, to be specky, a condition that decreases its commercial value although its bread-making qualities may not be unpaired. If much finer cloth is used for finishmg, then the gronding must be lower to sutt, and there is a greater liability to unevenness in the flour, patt being coarse and part quite fine, which does not work well, especially amonk domestic bakers.

Coarse flour needs more manipulating than fine, and when the two are tosether, the inexperienced baker, that is the domestic baker, is liable to hate "runny" dough and bad bread, no matter how naturally gond the flour may be. If irregular flour is sufficiently kneaded, not much trouble is experienced by baker of any kind. domestic or otherwise, but if not, the above indicated fault may as a rule be expected. And therein lies the trouble. The domestic bakers, as a class, do not like to knead dough very long, there being too much nork about it, and then sticking -a mixture of iery fine coarse four -are most sure not to knead it enough to get the best
results, and therefore make irruble for themselies and the makers of the flour, if in reach of said bakers. In view of the foregoing facts the miler will need to ask no yuestions nor borrow any trouble about fine cloths injuring flour, or expect that coarse cloth will make it any better. They should all aim to make it as nearly even as possible by adopting a standard about as here in dicuted. There is but little doubt that a straight flour dressed through evtra heavy 13 and 14 rloth will come about as near meeting ail requirements as any other standard that wat be adosted. Corse flour will be oljected to because of specks, and tine because some will think there is not body enough.

## REMOVING fuzz fRom wheat berry.

ANold shoemaker once said- "Shon me an old shave and I will tell you something of the character of the wearer." This person had, undoubtedly, as he pexped, sewed, and wisted the uny ends of the bristles on the well-waved thread, been somewhat of a student of nature, and espectally of humanity. The old shoes as they came to him to be repaired were indeed instructwe object lessons. They presented many shapes and forms: some worn in one place and some in another: sone with the lieels turned in and some out. This diversity of effect must have had a corresponding diversity of cause, thought the cobtler, and in : sserted that he found the causes in the uifferent chacacters in the neighborhood.

The thoughtfut, obsering miller of to-day can, I think. with security say. "Show me the quality of wheat and the cleanliness thereof and can detennine the quality of the flour produced." Tne wheat in its natural condition, however good miy be tis quality and however thoroughly all foreign matter may have been eliminated, needs to be improved before $t$ can be accepted as fit for reduction into flour. This has much to do with good yield and high yuality of the flour made. Since the adient of rolls, purifiers and other machines that have tended to improve the qualty of the flour, the first principle of good milling has in some degree languished, but at present this condition exhibits signs of innprovement and millers are beginning to recognize the importance of having clean wheat. The extraction of cockle, cheat, rye and other inatter that tends to depreciate the quality of the wheat is no inore necessary than that the article should be thoroughly scoured and have all the extrancous fuzz and adhering dirt removed as nearly as possible. In proportion as this is thoroughly done so will the break flour apprectate. One has but to subject a grain of wheat to a test under a magnifying glass and it will be seen that it is as fuzzy as the upper lip of a sixteen-year-old lad. This condution usually remains the same after the wheat has passed through so-called cleaning machines, and how imperfectly the cleaning is done millers generally can attest.

That this extraneous matter will discolor flour cannot be denied. One has but to put a handful of wheat that has been prepared for grinding, on a clean, white cloth, and put water enough on it to thoroughlv moisten it and then double the cloth around the wheat and rub briskly between the hands. After about two minutes of rubbing you will find that the white cloth has becume very much discolored. Or, place the same annount of wheat in a small vessel with clean water and stir for a few minutes. Take out the wheat, strain the water through a very fine cloth to remove all tine specks. Then take some flour on a testing board and insert in the water, and if you are not very much surprised is is because you have a very good cleaning outfit. This extraneous matter can be removed, and will be, as the next step in advanced milling. There is no reason why the flour from the break rolls should not be as white as the flour from the sizing rolls, and if this can be accomplished the results will be much more satisfactory than they are at present. The oid design of scourers has been much improved. The upright machines are giving way to the horizontal ones, for most of the manufacturers of the uprights are making the horizontal ones. I believe that the horizontal machine will be the machine of the future. Some object to the horizontal machine liecause it runs a little harder than the upright; but, considering the efficient work and that it is easier and clicaper to connect to the
nill and that swiftly revolving upright shafts are avoided, as are also the quarter-twist belts to which operative millers stronkly object, th: horizontal machine has decided advantages; and the1, 'mm, the power required to run it is proof of the work it is cioing.
I was once in a mill where there was a horizontal machine, the first one I ever saw, and this machine was continually giving trouble. It would choke and the belt would come off. Of course this was very exasperating to the operator. One day the machine was giving more muble than usual. The head miller's attention was called to the state of affairs, and after several attempts by that dignitary to make the thing go, and a few uncomplunentary remarks about the machines and the maker thereof, the millwright was called and the wheat spouted around it and the belt thrown off. In this condition did it remain until another man took charge of the mill and put in an upright machinc. Subsequent events and experience has led me to the opinion that that was a much-abused machine. In the first place, I believe, the machine was put in without any regard to the capacity of the mill and the belt had not sufficient power to drive. These two conditions alone are ennugh to blast the reputation of the best inactines.

No reason exists why the break four should not be as white as that from the sixing rolls, as I said before, and it would be if the wheat was thoroughly cleaned; but this will not be accomplished by the present modus operandi, and there must be a radical change, and when this change takes place one-half of the machinery that is in the mills to-day will not be necessary. The future course of the miller will be to put his wheat in condition so that it can be milled at small expense atd with as little loss as possible. He will not accept the wheat in its natural condition, and put in machinery to overcome that condition after it has thoroughly impregnated the whole mill. The expense of putting in a proper cleaning plant would not be so great as at present with the unnecessary amount of machinery now used, if the first condition of the wheat was improved. Nor would the cost of keeping in repair a proper cleaning plant equal the expense in adding new tnachinery to overcome con ditions attributable to unclean wheat. That the outside coating and fuzz on the berry exists is a fact, and if it is allowed to get into the break flour it will greatly depreciate it. The only remedy is to absolutely remove it before it comes in contact with the break rolls. The advocates of sieve scalpers assert that that machine will prevent this, or much of it, from getting mixed with the break flour, and they undoubtedly do; but they cannot prevent the action of the rolls from doing so. So the only proper method is to remove this hurtful matter before it reaches the stage where its removal is impossible. This fact will not long remain a secondary consideration. The mill builder who recognizes it and will furnish a thorough cleaning plant, thereby making the manufacture of clean flour possible at a small outlay, will get the trade.-American Miller.

## the dese or conk im gerinany.

$T$HE Indian corn crusade in Germany, as it has been termed by our American friends, is making considerable headway. Thirteen new mills have been put in operation for grinding com, and the demand for the product is so great that some of them have been working night and day. In Dresden, where two corn mills are in operation, more than half the bakers are selling maize rye bread, composed of one part maize and two parts rye, in which the laste of the maize is not perceived. Even the two mills in the latter city, one of them T. Bienerts, the largest rye mill in Germany, are baking and selling large quantities of this bread, and the old government garrison bakery is tuming out thousands of loaves daily. The Government is now patting in a com milling plant in their large mill at Modgeburg, and a government report on the value of com as food will soon be published.

## se tive.

$T$O the head miller: Do not on any account trife with the confidence of your men by any species of mis. representation or falsehood. One act of this sort begets others, invites imitation, and poisons that mutual trust which is the very life of business relations.

## To the Millers of Canada:

This is WM. \& J. G. GREEX'S page. You will know that by the tint. and while we are talking of tints, the tint of this page is typical. It signifies perfection, the "Pink of Perfection," and that is what our machinery is. You only need to try it once to discover its merits. We make it a point to have all the latest ideas and improvements, and embody them in our machines. That is, as soon as we know them to be improvements. We do not believe in sending out untried or unproved machinery to yex our customers and cause them loss of time and trade.

In the line of proved machines the "LITTLE WONDER" Reel is away ahead of any Dresser for flour or for scalping or grading that has ever been put on the market. If you have any point in your mill that the separations or dress do not come up to your ideas, we will undertake to place a Little Wonder at that point on its merits. It never fails to satisfy the most critical and exacting miller, and will satisfy you if you will try it.

Now about Rolls. Yes, we do cast our own Rolls, and we will say this that we are making a Roll that is UNEQUALLED by any in the world. Why rot? We have the Best Material, the Knowiedge and the Plant, and what more is required? We have had our make of rolls submitted to the most severe tests as to hardness, toughness and uniformity of surface, and we know they are right, and guarantee them to be the best.

Among some of the users of our make of Rolls are the following prominent millers, from any of whom you can get direct testimony as to their superiority:- IV. W. Ogilvie, Montreal ; Jas. Norris, St. Catharines ; John Campbell, St. Thomas : J. D. Saunby, London ; T. H. Taylor \& Co., Chatham; Thos. McKay. Ottawa : H. A. Mulhern, Peterboro.

Then as to Adjustments for Grinding, why our new frame is superb, and the feeder, it will inake you smile to see it work even on the most troublesome stocks. It will feed anything down to bran or flour as even as this sheet of paper. A true and perfect roll is absolutely essential and why not a true and perfect feed? We make both.

Do we make the latest improvements in Purifiers and Scalpers? Yes, we have the GERARD AIR BELT ATTACHMENT for the old style sieve purifiers, and we can assure you that more and better work can be done on fine ungraded stock on one good Sieve Purifier with this attachment than on any other. W'e also have the best regular air belt machine built. Write for particulars and circular about it.

Next month we intend to tell you something about our small mill plants and how to get the best value for your money ; also something about cleaning machinery, bran dusters, mill supplies, etc. So look out for the "pink page" again, and meantime write us for anything in Flour Mill Machinery and Supplies, and a catalogue if you have not got one already.

## WM. \& J. G. GREEY souter

# SUPERIOR <br> CHILLED IRON ROLLS 

Firty per cent. Harsep than the Hardest Imported At the came
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EXT
 ALL STEEL JOURNALS

ADVANTAGES WITH THESE ROLLS:

RUN TRUER LAST LONGER

DO BETTER WORK
COST LESS FOK REPAIRS

CORRUGATIONS MORE DURABLE always in better working condition

The discovery of a new process whereby the manufacture of Chilled Iron Rolls is governed at will, enables us to make Rolls of anY DESIRED HARDNESS, and, at the same time, VERY TOUGH-results never accomplished hitherto.

**BEST YET **
GERARD'E IMPROIEMENT

## Dustless filp Bolt Siovo Pupitibers

## Perfect Separation

## Perfect Purification



No Dust Collector or Blow Room Required
NO AIR BLOWN INTO OR DRAWN FROM MILL NO ClogGing of Cloth

## SIMPLICITY COMBINED WITH EFFICIENCY...

CAN BE APPLIED TO PRESENT SIEVE PURIFIERS AT MODERATE COST



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THE： 1 bommon Viller A Isox iaturn，when in comen ton neat month．maght tind a protitable subpect tion discussom．and actoon，in the methoxis of shipment and the uncertain charsucter $i$ fretght rates，harged by wur ralloads on grain and ،ou－shipped oer their reapectine roads．We cannot illustrate our meaning lxiter than th cite a case that cane under our notue within the past month．A miller donng business a short diotani c east of Tomono bouxht Manitoba wheat shapiced from l＇on Arthur and paid for fretight at the rate of mone cents per bushel．He leamed that had the same wheat leen billed to Montreal for evpirt，carned at leavt two hun－ dred miles further c．ast，the rate would have been oniy sid cents：on the onher hand the miller whoue alanie should happen whe west if lirunto．perhaps l．ondion． nould be charged at the rate of exght cemts per bushel Here are three different rates protailing for carring the satne class of mert handise wer the one road with the remarkable contradiction of ordinary business rules．that the xreater the laturir the less the cost．isy what sisiem of buriness metaphenss this basis is reached is lecyond the ken of ordinary montalo tiome years ago．when miller，were making a protit on forty and fify cents on a barrel of four，the！would hardly troubie alonut a matter of two or three rents freight charies，mdulging in nothing worse than an inward laugh at the absurdities of railroad inethoxis．but in this day when the fluest econouns and prudent man－ agement is neciled whork out a protit of any kind cents are rents．and cien the railriacts have to be wate hed
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 We doultt if the anourt an is natuir ams mere compere thenadite to the lat m：ned．nor $\quad$ onnuratnt with the in nencad ies of ratroading．than ther ter ent maxinanitumus rrällation of the l．t．mal I runh ajerertind ion arry wheat through in，Montreal at the gater rate a they are 1 arty

 though at other times it ic eienthing：

that a K．uixay Cimumissum，appounted by the ：Jo－ munun dinernment，to whom matters of dispute and doubt c milu be referred，wosld remedy not a few of the alsurd regulations whith evists in railroading in can adde，and which calls for so mucheffort on the part of millers and the bisoness communty generally．Our mallers when in comention in August might do worse perhaps than muve along these lines．

## OWE TEAR＇S WORK．

The Milleri＇Tracing Burcau of the l＇nted States has ancomplished during the first year of its evist－ ence everything．and even more，we opine，that its nost uptumsth promoters expected．Its operations date from July i3．As，i．I＇p to the ist of Jlay，inga，the recepts of the Buresu were $\$ 1,7,3,76$ ，and the expenses \＄1．44．1S，wowing a ravh latance on hand of $\$ 117.58$ bevodes $\$ 3$ ；2 ju of a guaramee fund untout hed．During this perwol Hour shpment，equinalent in the akgrepate
 is at the rate of nearly a million and a half of vacks a year．In nine days，recently，orders for traung，letween seienty tive and erghty thousand sacks were receled by the bureau．The imembenhip in steadil increasink including the addition lately of the tise Iinperial inill，of Bu＇xth．

Cinsdian millers are interested in whatecer scheme a an be vhiwn to have been effertuai in remedying in any reasonable degree the unfortunate delays at the sea buard that do so much to hinder a salisfactory expon trade in tiour，and it is for this reason that we chronicle occavon．tll：the workings of the Tracink Bureas of the Ameni an Millerv Assoctatuon，which is inaking a recond fol itself that is not de cond of mani eleneents of practical auciens．

## 

A knott！customis quevtion has ariven in the case of the Canadian veamer Clinton whith arnived in Chicago a fen weeks axo The Chicajo lournal explains the stuatuon thus＂The Clinton left Duluth about two weeks ako with ik，000 lmushets of wheal for tillope via Kingiston and Uontreal．In roming down St．Mary： mer the steamer struck a mock at Topsall Island and was beached to wave her from sinking in deep water． The underwintern at Sauit Site．Narie now berame the on ners of the net prain．and suld it to Armour S．Co．，of this cit！．But that lot of wet wheat is now very much like srain without a country．It couid nos be sold to Canadian distillen whow paying the Canadian duty． and it now seems as if it can nor be bought in the Inted sates whous paying a duty here．The only wa！it could hate exaped the barbed wire fence of cuatome dusics would be to have cominued on tis way io t．urope．hut hy thas tume there would have been 18,000 bunhel of fermented srain．whut wisuld tave killed by If suench everywne oat iwnod the mean steamer It would not is surpmome if the treavury departmem wa －alled upmen to matie the ruing on the yoerkon，to come uip here

In dixusoing the imporiant question of tolls on the St ianernie routc．a matier wal to the krain thppong inicersta of this a cintry．Mr．Then．（ Keefer．who is high authority on a subiect like this was＂The inoss dignitied，as well as jolltic comerse for us in meetong for－ rian romplaint，of diw rimenation $x$ wabolish all ionk upon the or．Janrente omute and make this noer free not only to the I＇nited states but to all nations．This －cuirse should have been taken when the tine canal was frend frominoll．or when the Sauli ，anal in Mrhisan was freel io Cianadian wervels．and this rourse we intend io take with onar own sault canai when completer．The whole amenint incoliod is keos than half that whoch we pay to kerp npen the Intervistma：rallway．and．Jutging froun all preceriont，them in evety reaum to belveve that in a iery short time the ine reace of conmmere by the
 remival of all restri tums．would more than cover anv how of tolk．＂The Vonireal diarette is outspoken on this quesioson，iontending for＂the conc essime of a reluate of tolle to all stain pasoing down canals to Montreal，mo matier where tranchupped．＂
The Slonctary Times，dirussmas the ranal quesuon pmints curt that the condurons are now launrable for
direct and contunuous navigation between fiurope and Chicako，by the ald of the Canadian Canals．＂The Norwegian steamship．Wergenland，has pissed through our canals on her return passage，on her way to Christ rana．Captain Weise reports that the financial result of the venture is fairly protitabie Owing to the incoun pletion of the enlarkement of the St．Lawrence canals， his steamer had to lighten part of her carko at hingston． it is expected that in 1894 the enlargement will be fin ished，and an expense of this kind will no longer have to be incurret．I＇art of the loss was in the delay which the lighteming occastoned．The possibility of direct trade in future $w$ ill depend upon the cost relative to that of other modes of convesance the enlargensent of our canals alters the condiuons of the problem．Already there is it call for still further enlargement，beyont the rapacty to which our canals are now being carred liefore foing any further in the direction it wall le． desirable to see gur nay ilear，：．ad whet ier there would be any profit in the enterprise fov the countr），whitis would have to pay the cont．Nio rival to the St．Lan rence route is posssible：what nature has hore done on ．t grand scale it is not in the purier of art to unitate．＂

## manker compitioms．

One cannot soly that the demand for flour is ．o an！ large extent on the increase，and vet the stuation is an improvement oser that of a month ago．Cireater con fidence in the future is manifest among leading inen in the trade even though prices remain practucally un chanked．Enquires from Newfoundland are coming in． mainly for the Jower graces，and a few shipments have been made．There is reason to expect a linely business wit？the ancient colony later in the year．W．W． ugilie．of Montreal，has made consideralile shipmens， to（ieat Brtain and the contunent within the month． and wher mills have not been altogethe whoun an export trade．Kecent reports from Minneapolis are mot any tmo cheering．The weekly output as the mulls is much in excess of the demaid and mills are being kepi runnum，in hope of cue stluation improving shorily and thus prevent the nevessity for shuting down．Jonces geserally are on the decline．certainly not as firm as the trade would hope for．This is the most discruragin； feature of the situation．

## PRICE OF FIOLX ANI，MEAIS．

Quotations at leading market centres at time of clos． ing this report are as follows：

Toronto：Cal prices Toronto freysh1s．，Manitoba patents．S4．9；to $\mathbf{S}_{5}$ ；Mantoba strong bakers：S4．45 to S $_{4} \mathbf{6 0}$ ： 1 intarin patents．$\$_{4}$ to $\mathrm{S}_{4} .25$ ：straught roller．
 $\mathrm{St}_{1}$ in $\mathrm{S}_{1}$ jo．The Millers Hulletin says．＂Sales

 lower proninces：latter for chonce brands．Iiran，Sio．jo and SiI jer ton．fo．b．Cinod demand for bran for ship． ment to the I＇nited States durng．July，Auxust ar． 1 iep tember＂＂atineal is if anything．linee：．Sales in rar lots have been macte at $\$ 3$ ．so．and for smi：！er tots $\$ 3.50$ It 53.55 hav iveren pard．

Montreal thour Price as followa Paiene spong．
 rouler，$\$_{4} .20$ in $\$_{4} .35$ ：evtra，$\$_{3} . \$_{0}$ tin $\$_{3} 95$ ．Superfine． $\$_{3.25}$ io $\$_{3 . j 0}$ ：fine．$\$_{3.10}$ in $\$ 3.3$ ：strong bakers：
 gumae diranulated，bibs．$S_{1.90}$ to $S_{4}$ ：molled．blals．．


 quet bucal trade is repurted．Qumetations as follows
 （1） 52 ：

Winnipeg．Man thour I＇rices in ioceal irade in strall lowe per 100 prounds．liatente \＄2．30：stmank bakerv．\＄：10：NXN．．．\＄1．10 to \＄1．2a Bran，Sq in
 ulated and rulted．S2 tol \＄2．05．Cimmeal，\＄1．to to \＄1．75 per 100 prounds．Siflt ：xexs．$\leq 2.10$ in $\$ 2.65$ per 100 prounds．I＇m harley． 52.100 in $\$ 2.05$ per 100 pourods． I＇earl harley．Ss． 20.

Jon．W．Kilgmur，Mount Fiores．Ont．：＂1 canamenger along mithout the MII I．R．R．＂


Office of the Canamins Mully $15,1892$. ，

## the general survey．

$\AA$Crivity in grain circles is not an expected condi－ tion of the midsummer season．In a very signifi－ cant sense it is the off season．What conditions will be later in the year rather than what they are now is the concern of any who are giving thought these days to business．
What is in the future？Ale we to have a repectition of the wonderfal jeeld of 1891？If so，what will be the effect of so lage a yield added to the surplus grain still on hand？Prices today would seem to have touched bottom，unless the bottom itself is to give out；how will prices rule when the eiement of the new crop becomes a leading factor？What is the outlook abroad？How is the crop coming tlong in Great Brizain，India，Russia， Australia？We are no secr and do not presume to pos－ sess any mysterious knowledge of the future．With all the influences that have been evolved from the science of hypnotism we have yet to leam of its magic touch hooding sway over the elements of wind and rain，chinch bug or rust．
All the wisest can do is to patiently wait，hold to what we do know and apply to conditions as the！develop from week to week a liberal sapply of business common sense．Once all the main conditions gathered together it may be possible，if one＇s judgment does not become warped by the proynostications of some farmers＇alli－ ance，or by other crazy fad，to reach a fairly intelligent view of the situation．The＂hold your wheat＂experi－ ence of the farmers both of the United States and Canada has，we imagine，been of a kind to discourage any work along these lines in the future．All over the country trade is suffering because of the grain harvested in barns and elevators that ought to have been turned into gold six months ago ang the money placed in cir－ culation．The loss has not ended here．Within this time the itain has depreciated in value and quality to an extent that is to many in the business a matter of serious alann．
hradstrafit＇s view．
We do not know that Iradstrect＇s，in their recent sum－ ming up of conditions，have aucmpted any more than is here suggested．Quite likely circumstances will arise that will necessitate a rerision in part of what is stated by this authority．Circumstances are uncertain enough to expect this．Yet as things are at this period their diagnosis will merit careful study．

It is taken for granted that the very favorable report as to acreage sown with wheat and the condition of the plant，which does not seem to have beent scriously affected by so much ram，is a complete surprise to the trade．An cridence of this is indicated by the continued low prices that prevail，thought Chicuge grain men attribute the demoralization to the atti－option trill before Congress，which is an element of doubtat this writing．
raking the United States Government totals of ex ports of wheat and flour as wheat for eleven monils of the fiscal year，and estimating shipments for the month ending July ，Bradstrect＇s places the aggregrate exports of wheat for the inelve months at about $=20,000,000$ bushels．
＂This sotal is by far the largest in the history＇of the comintr：the next heaviest year＇s shipment hating leen iwelve year＇s 2 KO ，in 1879.80 ，a total of $\mathbf{3} \mathrm{S}, 323,000$ bushels，or $34,000,000$ bushels less than the probablie aggregate in 1891－92．The average annual exports of wheat for the deracte of $8880-89$ was only $1=0,615,000$ bushels，and from $\mathbf{8 8 2}$ to t59t the annual average was only $117,300,000$ bushels annually；while for the ten years ending with the current cercal year the average ycarly exportation of wheat is apparently equal to nearly 125 ， 000000 busshels，owing io the unprecedented shipnient of the past iwelve months．
＂The statistical positoon of domestic wheat for the current year，based on the usual estimates as to rate of consumption per capita per ammun，etc．，may therefore be presented as follows：

| epresentedas folows． | Dinderk |
| :---: | :---: |
| Wheat on hand，wishle and insiable，July i， 1891．．． | 312，000，000 |
| Crop of 1891 ，as per Covernment report． | 612，000，000 |
| Total supplies for $189 \mathrm{t} \cdot \mathrm{gz}$ ．．．．．．．．． | 644，003，000 |
| 1：vpurts for 8 89t－92．．．．．．．．．．．．．．．$\times . .$. | 220，000，000 |
| Kemained for uxe at home． | \＄24，000，000 |
| Repuired for forsh and sead at hame．．．．．．． | 362，000，000 |
| Indicated reserved July 1，1S92． | 62，000，000 |

＂The last total awen in the foregong table may be regarded as a mmmum estimate，for it is quite likely that visible and invisible wheat in the country on the tst inst．will aggregate fully $70,000,000$ lushels．

PRICE OF WhEitr fok a feak to come．
＂Now that the Agricultural Department has put itself on record as pointing to a probable yield of wheat this year larger than in any preceding year except ：Sot，so far as may be inferred from the percentages given，per－ haps $\mathbf{5 0 0 , 0 0 0 , 0 0 0}$ bushels－a question arises as to the probable supply of and demand for wheat here in the cereal year $: \$ 92-93$ ．The preceding tabular evhibit contans one item，that of exports，which it is difficult to believe will be equalled in 180203 ，notwithstanding lately cabled reports from St．letersburg that prospects in the Russian famine－stricken regioms are worse thath they were one year ago．1hat so far as may be judged in advance the outhok appears to be about as follows：

| Keserves，vicible and innisible，（estimated） July 1，iS92． | $\infty$ |
| :---: | :---: |
| Crup，is92，entimated as jes latest govern－ ment report． | 00 |
| Total prohahle supply July 1， $\mathbf{2 S 9 2}$ Fequired for foonl and secl， $\mathbf{1 S O}_{1-93}$ | $\begin{array}{r} 620,000,000 \\ \mathbf{3} 65,000,000 \end{array}$ |
| Kemaming for exports and reser | 252，000，000 |

＂It may be seen，therefore，that if required，from such a crop as the government report has just indicated，to－ gether with reserves iwice as large as they were a year ago，the United States promise to be able to export $200,000,000$ bushels of wheat in $1892 \cdot 93$ ，or，at a pinch， as much as they have shipped abroad in the cereal year just ending，and still be able to carry over reserves as large as we possessed on July 1 ， $\mathbf{i S g 1}$ ．The question therefore naturally arises：Are we likely to be called ugon to export $200,000,000$ bushels of wheat in the next twelve months，in the face of an average annual export of less than $125,000,000$ bushels for ten years just ended， which includes $220,000,000$ bushels sent abroad within the past twelve months：Within the ：nswer lies that which may make the price of wheat for a year to come．＂

## Wheat．

Exceptionally wet weather the past wo months has given rise to many anxious thoughts ariong those inter－ csted in the growing grain；and who is not？Whilst in some sections we hear of damage donc，principally on low land，reports ienerally do not joint to the crops having been scriously injured．Uniess there is a pro－ longed continuance of moist weather beyond the present the probabijities indicate a large whent yich．In Nan－ itola，as we have pointed out clsewhere in thic issuc，the wheat acreage is alout $\$ 7,000$ acres less than last year， bat the amomat of unthreshed grain on hand is so larae that the general crop；will not be affected by the de－ crease．The acreage for other cereals has leen in－ creased．Official returns in the C＇uited States tell of an anticipated yield of wheat not far shon of a year ago． In（ireat britain the rejorts are fainmble to a good cmp．Prospects are improting in France and Cicrmany： Austro－Ilungarian authoritics complain of rust and mil－ dew．It is difficuls to arrive at safe conclusions of the oulook in Kussia，reports being consradictory：The re－ pott of the Indian Agricultural department is the least clicering of any：in liombay the acreage under wheat
 1Sopms．The intal out－turn is placed at $3 \$ 3.500$ tons， compaied with $\quad \mathbf{7 5 0 , 2 0 0}$ tons a year ago．In the l＇unjai） the area under wheat this year is set down at $6,22,3,(\infty)$ acres and the yiek at $1,39=, 100$ tons，as against $7,074,000$ acres andl $2,071,500$ tons in 1890．91．This year＇s yich is the lowest for the last scven years，with the exception
of $: 886.87$ ，when the out－tum was $1,364,900$ tons．Prices at time of writing ate as follows：American：Chiago： July， $773_{4}:$ ：August， $7, \therefore$ September， 77 呺．New Cort：No． 2 red， $884+c$ in store and clevator；No． 3

 No． 2 northern，Sor．to Sic．：No． 2 Chic：go，$S_{5}{ }^{1}+c$ to

 December， 88 ace Minamkee：July，74！⿱⺈巴，；September， $75^{1}$ zc．St．Lomis：July，76＇26．：Ausust，75c．；Septem－ ber，joc．；1）ecember，7asc．Duluth：No，I hard，so＇s c．
 for July：78c，for September：No．：northern， $7 \mathrm{~S}^{\prime}$＝c．for cash．Canada：Tonomo：lall，76ise．to 77c．；No． 1 hard Manitoba，51．0t：No． $\boldsymbol{2}$ hard，yac．

## HRE．t：

Very quiet ；entuires for No． 3 entra，and foc．offered outside：Montreal jo so 5jc．Oswego reports：Maket for Canadian barley unchanged；prices naminal；no sales，receipts，or shipments．

$$
081=
$$

Somenhat casier，but hardly any bumesh doing． Thirty－one cems has been offered here：Montical 33 to 35 C ；U＇nited Stater， $3^{6,1}=103^{3}+\mathrm{C}$ ．

गいふ。
A quict market．Fifyeceght and 99 cemts are local figures as far as figures are being talked；Montreal


NVI．
Trade almost mi．Montacal quotations，Sac．to S4c．； United States，No．2，Sz＇sc．

## personal．

Cecerral budwell，of（ahforma，the lowhibitiomist numinee for the presidency，is a wealthe math who include a flour mail among his jxאescion－
bamed Smith，of Amman，Bury 太 Smith，grain merchants， st．leuns，Mo．，is mahing an crtemked trij，through the cast and tortheast，and uill include Canda．
Mr．William Wright，of the ailling firm of J．Wright \＆ Sons，Onen Sound，Ont．，is a subject of congratulation，leing united in martiage within the pant fortnight to Miss ．Innic Mand lougall，of the same sump．Wroher dusties unite in congratulation：
Thor A．Hellew ias leen almitted a partaer in the firm of sache N Itowand，fiuur merchants，of Jondon．Eing．Prior to this he heht a reymonsible ponition with I）．※C．Mtacl ver，ship－ onnere and merchants，of liverpoul，anil Call I．Sombemann， who for some tine has taken an active gat in the conduct of the firmo thatinese
Jonefh William，hate head mailler for finkey N Mantin，of timbay，Ont．，who dievt on June 2 lant，agel fortyoceren years，was a miller from ho gouth，and hall beld difierent pooi－ tions of trust and importance in milling．Ife had leen with Finicy \＆Martin as first man for ten year The deccased will be remembered hy o？ 1 friends of Whithy and lickerimg．
John llown，of the Citizets Milling Cob，is jast now in Manitola．The carrent wae of the Winayges（onancrozal publiches an intervien with Torontios well－knunn cition in which he is rejurtel to hate suid．＂He hat enpectel that the Manitola trate noald be oppored to the eavern millers in their effots to change war watem of increction，bat he was gratifel to find that such was not the cace，as the Winnijers grain crehange had alrcady pased a resolution calling for reform in the came lizection as that acked for hy the mitters The millen askel that thesysten of incioction at Fort William
 ing to grade as it went in．＂Mis．lionn evpros to spend a


## PROTECTION TO A LOTTERY．

The Quelece authontics are still fighting the several lotieries that have recently endeavored to do business in that prowince．The only one that is able to carry on business unmolested is what is known as the l＇moince of Quelee l．oticry；and which has been doing，so its many patrons affirm，in square busmess for grars This jar－ ticular lotery is carried on not simply withot the pmo－ tests，but it bas the legislative sinction，of the l．caisla－ ture of Quelvec．The case of the jome gith，Mary Jonowan，of Montreal，who a month or so ago won the capital piaze of 515000 ，is one of the many insiances referred io as evidence of the straightormard manner in which all promises made by this eoneern are keph． The drawinges take place iwice a month．

## WANTED AND FOR SALE

Adsertisements will be inverted in thas defartment a the rate of is cents jer line each insertion．When four or mote cellisculise inmettions ate ordered a diciount of 3t ter cent，will be allowed．This notice shows the midth of the late and lomet in Nonjareilsyive．Adser－ cach nonth to usure incerti in in the following isue．

## WANTED．

 capacits）：alos to take two or three hundred share ahares $\$ 25$ ），ten fice cent．of dares calied up．Mes cumpetemt man．

## Junapisto



WANTED TO RFNT
 AILCR
MILI．ER，Ikyx gor

SITUATION WANTED
BY A STONE MIELI：R OF THRFL：IEARS Bexperience，in a role：inillof from fify to tho hun－ the charrele whete be could learn the twaines，with wited．Hest ư referenies Livenas to ability and habite Will go wne month witral．Aldress

WM．J．Shakj＇s．
Culuminus, Ont.

F1．OL＇K MIL．1．FOR SALE
THE COOKSTOW：FHOt；AND GRIST Keawar for wlling，allisealth．Firslechav trade keing done．Writeat onke

J．M15！しOE
mationst．Ont．
ROLA．ER MIIALER WNNIS OFFER．HAS ancusumed to milhing for she pribipipal（ianadian math ets ligines jield zuaranters．foselifat referemers as to ability and chatacter．Place muct te germanent Only miliers with sunghete follet funto need write Offac if the Canabtav Minlesk． 7 orocitan

ROI．LEK M1LI．よ゙OR SALE
 O row wale，or jartser wanted with a few show one Address Cate Canabiav Milles． MILI OHELLINGHOHOSE，LAND，ETC． FOR SALE．
 Fin illle，lionh wheas thour，Chropginh，ete．．hilh f．e Tlar

 Keau

Aifdy t．e A．（\％．NOKTIMEK Cavabla MHive

## ONLY \＄2，000 fok A

## Steam Grist Mill

（TWO KT＇N sToNE
Which is tew than price wif taxike and enathe．All in ertorien，eevem mike（）wner is max a milker and has Whet insanen The mill will be and for almexe jite
 from ihe farnvero．torlie juint fach in grinding．at a re Only a manll amanis domen required．Aigis

K．W＇EATHEKIL．I．
Gextreal Merthas． Oitcras．Ont

1FLUUR CORRESHONDENは W＇AN＇IED．
Flook impokting rikM is kast or finn of Camadian millers Cif terams jer direet ateam． ets from Momareal．vacketeronal referemer to kanh ets and toleadims thilers in United States
dpply－IMIPORTER，
care Canamas Milises．
［NSURANCE：FIRE AND MARINE MI！LS， whone at tny expertic． Mone al my exprice．

R．CUNNINGHAM，Guelgh．
 daily：good locality for cutom or merchants＂twaines

1），1H：．IOTTER
Real Fotate Asent，St．Catharines．

## Judicial Sale

THERE WILL HE SOLID BY PUBLIC AUC． Tiwn，ot Wediseday the 6 th day of July 1892 at iftikn1；at the pout Ofice in the village of

New Roller Mill and a Sawmilt with neter failing water of tate Henry Cireen．
The vilage of t．ridhurat is situate mithin miler of a sation on the lirechille，Westpon and Sault Ste－ Mane Kalway．
Fur tarticular agny，wo wil \＆WEMSTER u ROHS 110 RFiN： JOHN HOSkIN．Q．C．Tocontu

## ESTABLISHED 1885

##  higuritine foipiny

HEAD OFFICE：
Queen City Chambers， 32 Church Street Tokonto

Inxecroks：
JAMES GOLDIE，G：x．rnt，Precident
W．11，11OWIAND，Toknto，Vicel＇res
H．N．H．AlkI），Tukovi
W：1HELL，GLELR
S．NE：ELON，St．Cathaxixes
GEO．JATTINSON，14E＜ToN
A．WATTS，limantyont W．Hi．STOREL，Actox W．WILSON，Tomoxt

J．1．SHNF．，Tomoxto
HWC：I SCOTT，Matager ：oronto
THIS Conapang，was organised expreety for the pur． Wierehousci and conctenty Mlanufaciuring Industrien， The primary oljiga being iogive protection againa bes by fite at a manimam cons coasitent with abeolate
The syzem sdopted has been to inspect all rikica ath in accoedarce with the hatard asumed The very malll ratso of Fire Lownes referted
Provideat is antrilutable in a manked decrect to cete Wiet and chanatione，the mont imporgres to care， nbiaze firctand which，the mot prevailin all rink actors to Ty this Compans：
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