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showing an income in common plant the five months of \$177700 in weeking any fiscal of say, or कार्य मेंप्र फार्ड हुत होते छह 😤 🛴 ते । 🤊

GRAND THUNK LAILWAY

The following focts and figures so, troing the Grand Trunk Railway which we trid in the Took and Commence Report or the city of Montreal, will give some idea of the magnitude of this stups inloss corporation. The figures are for the year 1879, and refer exclusively to Canada -

No. of th T.R. station masters telegraph operators other employees at stations other employees at all more shops, eng. nearly departments, etc.

Total number of employees at all more shops, eng. nearly departments, etc.

So. of housestance engineers

do firenen passenger train conductors

freight do de 14

freight do de 15

brakesine nard train fiarcle

comployees not conversed

Estimated number of persons detected on the
d.T.R. for employment as well as subsistence,
including contractors, about

frose amonated all wages paid in 1879

Estimated value of station buildings, exclusive of
paid for cordwood in 1879

Empenditure for cual in some year, including \$189,

778 to Maritime Province mines presenter train conductors

The whole number of employees stationed in the city of Montreal 14 2,105 These are distributed as fol-

lows :--ecal effec raffe department agineers' do lechanical do nei do

The estimated number of the population of Montreal ndent for wages, as well as subsistence, on the G.T.R. including contractors, is about 10,000 persons The wages paid in 1879 to these employees amounted to very nearly a million dollars (\$961,700), the wages disbursed in Montreal during five years (1875 to 1879 inclusive), being \$4,800,000. The company a dealing with business firms in Montreal city in five years amounted to \$6,500,000.

THE CANADIAN PACIFIC RAILBOAD.

(From the Morning Post, Tuesday, July 27, 18 0 2

Sir,-The Premier of Caneda, assisted by some of his Ministers, is now in London with the view of forwarding the completion of the above undertaking.
Will you allow me to remark that, apart from the
magnificent project of peopling with our loyal English the rich portions of territory through which this line must run in its course to the West, the railroad is looked upon by officers of long experience as one of a importance to the strategic wants of the Empire. It is well known that the constant freezing of the Baltic on the one hand, and the pressure of China on the other, has led Russia to change front, no to speak, with her flort, and that the ports of Nikolayevak and Vindivostok, in the North Pacific, will in sare be the base of operations in those seas. An able article in a military jour, al pointed out last rech that these ports were councied by wire with he. Petersburg, and that a large fleet is n w assem-bling at them. Our principal coal mine in the Paristo is at Manaimo, close to the fine harbor of Esquimalt, British Columbia. This harbor and its coal mine is, I may my, the terminus of the line now engaging the attenden of the Canadian Ministers. Without in the least sting war botween England and Russia, the fact sures that she has done will force us to protect our Ane barbor with its excellent coal mine in the Pacific. and therefore the prospect of its being connected by can goods as his chief encouragement. Other points will suggest themselves to the reader. red with Quebec recomes of the utmost importance. Lieutenant-General Sir Edward Relby Smyth, who has just vacated his command of the Canadian forces, a nd which extends from Quebec to Esquimalt, stated in his last report, "Our security in the Pacific requires Esquimalt to be well guarded; our flosts must keep the sea, if necessary, in all weathers, and they cannot do so without coal." Sir Edward has nodingly fortified Esquimalt, as far as means would cerdingly fortined maquiment, as me no success of the admit, and has mounted rifled cannon on some of the works. It ha beginning of an important future, for ere in years to come will undoubtedly assemble the Siets of England and her colonies for the protection of her vast Pacific trade. The railroad to Esquimalt would enable scamen, soldiers, canuon and stores to ach these fleets in twenty days from Woolwich and Portsmouth Without this railroad the volunteer artillery, apparend by a couple of Eaglish men-of-war, could hardly resist a coap de a. How near we were to this in 1878 may be should from the fact that while only two of our ships were at British Columbia, thirteen Russian cruisers lay at San Francisco. Let us profit by this escape; it is plain from K. Selly Smyth's report that to loss our finest herbor and coul mine in the West would be a serious matter, if not a positive and last No feeling of ferntation, therefore, on the duties charged on our goods by the Canadlana should lend us to ignore the enormous cost to them and the great advantage to us of their railway now in head to our gate of the Pacific Ocean. Four millions custom at night was not considered too much by the people of England to pay for their shares in the dues al ; let us hope that the time will some come when not only England, but Australia also, will recognize and act upon the necessity of the completion of this great western highway of the British Empire. Your obedient servant,

ROWARD PATTER

Late Capt. 7th Human. Army and Mary Club, July 26.

THE CANNING INDUSTRY

A Busy lilve at \$1, "areta,

Chand to have I rest ; The gross earning a working expansion and not possit.

The gross earning a working expansion and not possit.

For some two of the consists there has been this tonden all wites at the expert moment of exposure and there is no class of our product and follows as the expansion of the monister of facts in this substitute as of the continued possition. That is the phrase used in the marking and there is no class of our product and follows as of the manifest of the manifest of the continuental knowledge and follows are follows as the expansion of this eligible of expansion to the world in printed form the follows as the expansion of this eligible of expansion and the expansion of the showing an increase the for the month makes and to it are concern. Lists Leaden Italy, there is a fine of the reasons for this is, undoubtedly, that page of \$80000 in well of \$10000 in the finding we call that are concern. Lists Leaden Italy, there is a fine of the reasons for this is, undoubtedly, that page of \$80000 in well of \$10000 in the postal little of finding we call and that fruit finds the same attitive on the reasons for this is, undoubtedly, that page of \$10000 in the reasons for this is, undoubtedly, that page of \$10000 in the reasons for this is, undoubtedly, that page of \$10000 in the reasons for this is, undoubtedly, that page of \$10000 in the reasons for this is, undoubtedly, that page of \$10000 in the reasons for this is, undoubtedly, that page of the reasons for this is, undoubtedly, that page of \$10000 in the reasons for this is, undoubtedly, that page of the reasons for this is, undoubtedly, that page of the reasons for this is, undoubtedly, that page of the reasons for this is, undoubtedly, that page of the reasons for this is, undoubtedly, that page of the reasons for this is, undoubtedly, that page of the reasons for this is, undoubtedly, that page of the reasons for this is, undoubtedly, that page of the reasons for this is, undoubtedly, that page of the reasons for this is, undoubtedly, that page of the reasons for this is, undoubtedly, that page of the reasons for this is, undoubtedly, that page of the reasons for this is, undoubtedly, that page of the reasons for this is, undoubtedly, that page of the reasons for this is, undoubtedly, that page of the reasons for this is, undoubtedly the reasons for this is, undoubtedly, that page of the reasons for this is, undoubtedly the reasons for the rea INTERESTING FIGURES IN PROADD TO THE market goden, and from year to year have ten of neutral wine non-Southern I cance, and 20,000,000 being for molecular method. At 1 a Int cultivation. The manager, Mr. O. F. Moore, wine, containing it per cent, et alcohol. received his visitor at the door, and, on request, courtenusly showed him through the various rooms and TRANSHIPMENT OF GRAIN AT KINGSTON explained the work performed in each. On the first flat is the cauning room, where fomators are for the most part treated, and sealed in cans as they are bought at the grocers. The vegetables are brought in from the adjoining field, washed in wooden vate, calded, skinned and freed from stoms by girls on long tables, placed in cans, sealed, placed in large iron bollers, submitted to a boiling heat for a certain length of time, taken out, labelled, and two hours after being picked from the vine they are ready for the market. With green corn the proceas is but similify different. Here were also a dozen or more kegs tilled with black and red currents, from which it was intended to make jelly. This is a new departure to Mr. Otwell's enterprise, which he has commenced simultaneously with the hottling of geneelecties without the use of sugar or other preservatives than pure water. The corn and tomatoes sell retail at eightoen or twenty cents, while the jellies, not having been placed on the murket, it is not known what the prices will be. In an adjoining room were stored comewhere in the neighborhood of 40,000 cans in readiness for the work which commences next week. These cans are made on the promises in a room immediately west of the canning department by a practical tinsmith. The tin is cut in strips and rolled into circular forms on an iron roller and soldered. The bottoms are then put en, and also the tops, in which are left small holes for the seertion of the fruit, and small tin caps. It was said that one man could make four or five hundred of these a day, from which it will be seen that their cost must be very small indeed. In a new addition to the factory was stationed a new steam engine, with which all the boiling will in future be done. This is regarded as a great improvement on the foreaces heretofore used, and in the outgrowth of Mr. Otwell's increasing business. The cellar is devoted exclusively to pickling. There were a large number of wooden vessels, holding several hundred gallons each, some of which were filled with cucumbers, cauliflowers and oulons in process of pickling. When ready for market they are packed in five-gallon kegs with suitable lide attached, and sold either by the pound or in bulk. Having galued a reputation for these pickles, Mr. Otwell experiences no difficulty in selling all he can manufacture. Before leaving the building, it was ascertained that in this line of canning no augar was used whatever, but that boiling and exclusion from the air were the only means taken to keep the vegetables fresh and palatable. When taken from the cane ther can be used for sauce or any of the various culinary purposes for which they are always in demand. The number of hands employed was from eight to twelve, including the girls. It was expected that 100,000 cans would be put up this season to meet the growing demand. A stroll over the farm showed immense patches of cauliflowers, cucumbers, ouions and currents under cultivation. Mr. Otwell grows all his own vegetables, but things they could be purchised by contract quite as cheaply. By growing immense quantities the cost of production is reduced to the minimum. If fealts were gone into he should be compelled to buy from farmers and market gardenors, but by giving large orders would expect to reasonably as under the present system. He resurds his trade as yet in its infancy, and points to the immense field in Canada for the supplanting of Ameri-

ENGLISH BANK NOTES

Few of the persons who handle Bank of England notes ever think of the amount of later and ingentily that is expended on their production. These notes are made from pure white lines; cuttings only, never from rage that have been worn. They have been manufactured for neat! 100 years at the same apot-Laverstroke, in Hampshire, and by the same familythe Portale, who are descended from some French Protestant refugees. Bo externily is the paper prepared that even the number of dips into the pulp made by each workman is registered on a dial by machinery, and the sheets are carefully connted and booked to each person through whose hands they pass. The printing is done by a ment curious pro-cess in Mr. Coes department within the bank build. There is an elaborate arrangement for securing that no note shall be exactly like any other in existence. Consequently there notes was a deplicate of a Bank of England note except by forgery. It has teen stated that the stock of paid notes for neven yours is about \$4,000,000 in number, and they fill 18,000 bomes, which, it placed aids by side, would teach three miles. The notes, placed in a plie, would be eight miles high; or, if joined end to end, would form a ribbon 15,000 miles long; their superficial extent is more than that of Hyde Park; their original value was over £3,000,000,000, and their weight 112

-Mississippl's penitentiary, which west the State \$200,000 for the firty years ending 1876, has been leased, with the convicts, for \$23,420 to a bulstered firm. Another firm has leased the penitentlary for the last four years at a profit of about \$40,000 to the fitate, the number of convicts having incremed from 331 in 1872 to 1,442 last year.

ABULIERATION OF FLENCH WINES.

The French Lew imposes a heavy tax equal to product the interior, on the addition of adopted to stress which a larger proportion of actual brain were intended to home consumption, but ex units from employed than in the building and working ments and the fact that contains is a norely in this result of policing the cax of adults ration with alcohol tests, looking the authority of practical up. Yes district a free Press reporter visited St. Mary a yesters for Long consumption, may of the with agriculture and because these tests in more than experiments. day aftermoon and inspected the only works in Canada | baying demanded so ha reduction because it de wine and frequently carry with them their own demonst a day are from and inspected the only works in Canada, baying demand of a resembling in any way those proposed to be images crops were insulicient to meet the demand, and were tion. The mechanic deals with material substance and do be They were established by Mr.J.P. Otwell interior in attempth, the gropes not having repeated and mechanical processes that are continually proceedings of the processes of the desired and mechanical processes that are continually processes. market graft is and from New to year maye then on neutric with from continuous a constanting of this solution invites attempts in more than one defined that the solution invites attempts in more than one defined the solution of the solution in the soluti the reased in the various a species which would be superior and wine some contains a containing the possibility of the factory is sittly proceed to mark a growing trade. The factory is sittly proceed to mark a growing trade. The factory is sittly proceed to make a growing trade. The factory is sittly proceed to make a growing trade. The factory is sittly proceed to make a growing trade. The factory is sittly proceed to make a growing trade of the factory is sittly proceed to make a growing trade. The factory is sittly proceed to make a growing trade of the factory is sittly proceed to make a growing trade. The factory is sittly proceed to make a growing trade of the factory is sittly proceed to make a growing trade. The factory is sittly proceed to make a growing trade of the factory is sittly proceed to make a growing trade. The factory is sittly proceed to make a growing trade of the factory is sittly proceed to make a growing trade of the factory is sittly proceed to make a growing trade of the factory is sittly proceed to make a growing trade of the factory is sittly proceed to make a growing trade of the factory is sittly proceed to make a growing trade of the factory is sittly proceed to make a growing trade of the factory is sittly proceed to make a growing trade of the factory is sittly proceed to make a growing trade of the factory is sittly proceed to make a growing trade of the factory is sittly proceed to make a growing trade of the factory is sittly proceed to make a growing trade of the factory is sittly proceed to make a growing trade of the factory is sittly proceed to make a growing trade of the factory is sittly proceed to make a growing trade of the factory is sittly proceed to the factory is sittly p Mary's, and is surrounded by large fields under excels water, making 2 occursors gallons of adulterated large and the cultivators so many. There may to _____

(81. Catharines Journal)

It is the old story over again. Our vessels are sufferrag the usual delay at Kingston in getting their grain discharged, now that there is a little rush of business above the ordinary. Our readers have no-ticed that an unusual amount of wheat has gone for-special that an unusual amount of wheat has gone forward of late from Toledo to Kingston en soute for Montreal and Europe. This slight rush added to the some acquaintance with cognate tongues. It is not Chicago trade in corn to the same port has over-taxed the small-potate appliances at Kingston in the way of the small-potate appliances at Kingston in the way of floating elevators and barges, which are all the ac- honors in a high-school class. But choice of language. commudation they have there for grain. And now with the lucrative rates of freight offering, time with our take rewels is literally and truly money, they are delayed for days at Kingston waiting an opportunity to get rid of their cargo a and start west for others. They do thloge differently at Buffalo, There on the very hour of their arnval, fiests with two million bushels of smin commence to discharge. In twenty-four hours this grain is out of thom, cargoes of coul, sait, coment, etc., loaded, and the vessels off again for the west. A one million bushed sterehouse and elevator is an acknow-ledged want at Kingston, or in its stead fity more barges of twenty thousand bushels caracity each, to meet the actual present requirements of trade. So it goes, so it has gone, and we suppose will go to the end of the chapter at Kingelon, and, we may add, Montreal, for the barges are mainly owned there we believe. As in the past, our really live, energetic lake vessel owners and masters must continue to be cramped in their actions, their business devastated, and their prospects of making money darkened, when freights are good and pleaty of grai is offering to move to the scaluard, by the sleepy, old time, short-sighted and narrow-minded people they have to depend upon to take away the grain they bring forward from the upper lakes. Those Kingstenian Rip Van Winkles, along with the Montreal burge owners, are the individuals who maintain the excellence of the system of transhipping grain at Kungston into the St. Lawrence river banges, and oppose tooth and sail the enlargement of the St. Lawrence canals to the size of the enlarged Welland. No government should listen to them. Give our lake people the opportunity to meet the ocean ships, with large cargous of 80,000 bushels, and Canada will realize the grain trade the now merely droams ot.

SWEDEN.

The remembrance which the travellor has of Sweden is to a considerable extent of a moroce charector. As I sit by the fire and recall the days I wandered through that northern land, there rice before me in a vague way, apparently endless miles of white rock" ground, and forests of dark plus trees, varied only by great shoots of water—a fourth part of Sweden, be it observed, is under water. It is the most sombe portion of Condinavia, wanting the grand mountain ranges of Norway and the open green fields of Denmark. But there are two things which stand out in recollection as height and cheerful. The happy, lively possentry and beautiful Stockholm. The people are vivacious and pleasure-loving like the French. If they were time blouses and cut their hair short as a acrubbing brush, and drank red wine, they might peas for children of fair Provence. As it is, their locks are long, their dress rough home-span, and their drink is of the strongest. But they are joyous, kindly, onurteous folk, fund of social gatherings, a dance around a May-pole, a marriage, or a market. They are hopel. table to the stranger withal, and when he crosses the threshold of farm or octtage he is a stranger no lunger a people full of hilarity and good humor when it is nice ant to remember. But it is worth while going all the way to that far off cemer of Europe just to see Stock. holm, as one looks at it for the first time from the Hollic; worth all the toming on the terrible North Hea, and the days pent up on shipboard in poky cablus, or on land in musty, fasty hotels. When the little auth metic stommer that has carried you from Gottenborg farrow tortsone channels among wooded Island turns a point, Stockholm comes suddenly into view. a bright, chaste, benutiful city, "kimed," to quote rapturous guide-book, " on the one check by the ripples of the lake, on the other minted by the billow of the sea, the lake being the Malar Lake, and the sea the Baltic. Indeed, I den't know that any capital of Furgue is more picturesque than this of Sweden. not "the grey metropolis of the North," nor Constantinople on the Goldan Horn, nor Berne with he girdle of snow-clad mountains. Stockholm rises from the water embosomed in woods of pine and ask and birch, with a inchground of grey bills. She site on her seven islands like a quoen. -Dr J. C. Lora, in Good Wards

-Bome of the directors of the " ('somer Basi Bugger Company," of Conticook, have negative visited the plantations in the Eastern Townships, to setled solven as to the adaptability of sent and climat They report that their expectations have book more than realised; that every plantation is in a most prosperous state, some fichis promising a crop of 20 tens, and that the toil is most eminently adapted for this valuable rust.

MECHANICS AS WRITERS.

another teams why the mechanic does not wrish we print" so readily as some others. He is not greet to talk. His work requires, largely, concentration attention that leaves little time for talk. Inde At 1. muchanic generally prefers to illustrate by sketch . work rather than to cluddate by words. In fact the method is easier than talking It is not easy to the voy a proper kies of a machine and its operation to words alone. The choice of language and the arms thorough knowledge of the English language and in mechanical writing is a necessity—not a merceon The writer on mechanical subjects ough to know that "rotary" and "revolving" are not synonyms, and that "force" is not necessariiv power," those, and similar errors, being quite com mon. There may be other reasons why meclanics are not fond of writing for publication. But it is a most that the number of really practical workers who are writ won their specialty are very small indeed The number of practical mechanics who are regularie employed on mechanical papers in this country is insignificant, when compared with the value of somachanical interests, as to surprise one who takes the trouble to inquire. There can be no doubt that the welface of working mechanics would be great's enhanced by a greater willinguess on their partipresent the results of their own experience to the fellows through the medium of the special paper devoted to their interests.

BOCIETY'S RESPONSIBILITY FOR CRIME

Much is to be said of the responsibility of more for making criminals. In a cortain source many a mon or woman is well-nigh forced into criminal pretions by their necessition. What is one to do, with starvation staring him in the face, and all the avenue of powouspie ambiniment uping ab we in more standard mental and the control of powers and the control of the co justify a men for stealing, or a woman for prostitution horself, in such circumstances, we, at least, accept their situation as palliating the crime, and justly my that society may be almost as much to blame as the oriminals themselves, silowing, as it does, the caues to exist which lead to so much suffering and wrong. And so when children are brought up with only evil influences surrounding them, and their falling tale erime becomes almoss as certain as their lessthing we say the young scamps are crimicals indeal, bit society men her the more criminal for allowing the to live with such surroundings. And so in mor other instances. Itiustrations in point might is given in great numbers. Indeed, it is sometime-claimed, with some abow of truth, that society is a co-partner in nearly all this low range of orime. Be how about the respectable criminals—the men who from out higher classes, have gone of late years in such numbers to Sinte Prison for forgerise and the missperopration of funds? A contemporary, co-menting upon a recent case of this kind, hits south some hard rups, which are most rickly deserved, fit eibility in consection with such iniquity We sek our readers to punder well a lew sentences which we quote as follows; "These higher-class crimicals could not plend that reglect, the lack of opportunities, or victous associations drove them init orime. They did but even feel the pressure of poverty or want in any legitimate sense of a comfortable subsistence were maured, whatover reverse they might scotain in insince. Yet, nevertheless, seciety is not wholly free from responsibility for their fall. In the minute details at were given upon their trial as to the moure which led to the ruffences, the fast was brought of that the great object for which, above all others, the straiggied, was to zero their social position. Come what might, that must be upheld at all heard! Business might be dull, and race ple over balanced by expenses, but the myle of traing most be kept up. rather than carry on a systematic process of forget and swinding, with the piges of suddining the sucial position, they had come down in the world as given up the superficities of metion, instead of book received on the old similar tooling and between he their courage and manliness, they would have conpiotely dropped but of sight or recognition. Such " the world. It is unclose to preach retreachment seesy and adaptation to altered electrostance. he first indication of a move in that direction is quite vertain to cause an lai cotracion. Family interests there is reason to believe, have been prominently connected with the respectable forgeries and deficienties of the feet few years. Many a man who would perhaps care little personally is second extractant, is influenced by the support mity for occuring the best positions punctible for he maily to take the first step which leads on to a care! of orims. All the moralising in the world evidentionable follow and financial fralities will avelittle so long as enciety continues to test men's well by the standard of meany, or of display which ind-cates the command of meany. So long as the trad-tional I way of the world! Is melutained, and pover? tional I way of the worst 10 merowants and 12 reput is treated as being akin to crime, revulations in reput to respectable, criminals will continue puri-