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THE

CANADIAN

MERCHANTS' MAGAZINE

AND

COMMERCIAL REVIEW.

VOLUME FOURTH.

FROM JANUARY TO JUNE, 1859.

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CANADIAN

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AND

COMMERCIAL REVIEW.

Vor. IV.

JANUARY, 1859.

No 1.

THE ADULTERATION OF COMMERCIAL COMMODITIES.

TEA, COFFEE, COCOA, AND PEPPER.

That, the well-known Chinese plant, genus thea, is so extensively used in this country as to be classed among the necessaries of life. It is imported from China in vast quantities, and is supposed, in many instances, to be extensively adulterated before it enters into consumption.

To ascertain whether other than tea leaves have been substituted for or mixed with genuine tea: To do this effectually it is necessary to acquire a thorough acquaintance with the character and appearance of the tea-leaf, and also of the leaves which are sometimes mixed with tea in the various stages of their growth, especially the condition of the hedges, and the arrangement and distribution of the bundles of woody fibre and vessels called To form an idea of the general appearance of the tea-leaf, and of the leaf of the poplar, elder, sloe, and oak, they ought to be seen, or at least a diagram of them. From which it will easily be perceived that the tea-leaves have a different structure from the sloe and elder, which are most commonly substituted for them. They are more elongated and more delicately serrated. Before examination the leaves should be untwisted by infusion or mois-They should then be submitted to the microscope, by which the tea will, in most instances, be distinguishable from the substitutes, even if the latter be rubbed or ground into very small pieces. Another mode of distinguishing tea-leaves from others, is by infusing a large portion of each. Genuine tea contains gum, gluten, or sacharine matter, a large quantity of tannin, and a peculiar nitrogenized principle called theine. The leaves of the sloe are astringent, and contain a considerable quantity of tannin, and on this account they are frequently employed in adulteration. On analysis it is found that while the average amount of nitrogen or theine in tea exceeds 5 per cent., that in sloe, hawthorn, and elder leaves but seldem exceeds 3 per cent., and in the first two is always much under this average.

To ascertain whether tea has been dyed, or mixed with adulterating ingredients: The presence of salt of copper may be detected by putting a pint of tea into a flask, with a small quantity of cold water, agitating it or shaking it for some time, and throwing the whole upon a filter; a portion of the liquid which filters through, being tested with ammonia, will, if adulterated, immediately assume a beautiful saphire blue colour; another portion of the filtrate, being tested with ferrocyanide, will produce a reddish brown precipitate of ferrocyanide of copper.

The presence of logwood may be detected by moistening a small portion of tea-leaves, and rubbing them gently on a sheet of white paper, which, in that case, will be stained bluish black. If a portion of the tea be thrown into cold water it immediately imparts a pinkish or purplish colour, which becomes red by the addition of a few drops of sulphuric acid. This is an indication of the presence of logwood, for genuine black tea produces only, after a time, a golden brown liquor, which is not reddened by sulphuric acid. The presence of plumbago or bla k-lead is detected by the shining or lustrous appearance of the leaves. If a thin slice be removed from the surface of one of the leaves and placed under the microscope, it will be seen to be minutely studded with small black particles. And if a spoonful or two of the tea be infused in boiling water, the liquid will frequently acquire a black. ish hue, and, on evaporation, the bottom of the vessel will be found to exhibit the dark shining and characteristic coating of black-lead. The presence of tale, chin-aclay, and soap-stone is indicated by the silvery lustre of some of the particles when placed under the microscope, especially if the leaves be expanded in hot water, redried and the surfaces attentively examined; some of the particles will be found to reflect light, and appear more or less iridescent.

The presence of *indigo* is also detected by the microscope, under which it appears as minute granules and irregular fragments, many of which reflect a blue or greenish colour, and it is easily distinguished from Prussian blue, the only substance which it nearly resembles.

The presence of turmeric powder is likewise ascertained by the microscope. The presence of Prussian blue is discovered by the non-effect of chlorine in bleaching it, as also by the action of liquor potass, and dilute sul-

phuric acid; the first turns the fragments of a reddish hue, and the latter restores the colour.

Adulterations in green tea may, in many cases, be detected as follows: Put a sample of the suspected tea in a sieve, hold it under a gentle stream of cold water flowing from a tap four or five minutes; if the tea be painted, it will change its colour, and upon drying, with a very gentle heat will gradually assume the appearance of ordinary black tea; the residue washed off will generally be found, on microscopic examination, to be Prussian blue, turmeric and French cha'k. A more simple test still, is to rub a little of the suspected tea, moistened, between your hands; if it is coloured it will soon impart some of the colouring matter to your hands. Other methods of detecting adulterations are the following: If the leaves be coated to any considerable extent it will be sufficient, simply to view one or two of them as opaque objects with a glass of one inch focus, when the colouring matter entering into the composition of the facing will be detected as minute specks, each reflecting its appropriate tint.

Another method is, to scrape gently two or three of the leaves on the surface with a pen-knife, when, if they be faced, the colouring matters may be detected in the powder, thus separated, viewed as an opaque object. A third method is, to place five or six leaves on a slip of glass, moistening them with a few drops of water, and after the leaves have become softened, firmly squeezing the water out between the finger and thumb; this will then be found to contain more or less of the ingredients forming the facing, should such have been employed. Or should it be desired to obtain the results on a larger scale, one drachm or so of the leaves may be agitated in a little water for a few minutes, which will detach much of the facing without unfolding the leaves, and which facing will collect as a sediment at the bottom of the vessel, as explained above.

Having, by any of these processes, determined whether the sample of tea be faced, the next thing to be ascertained is the nature of the adulterating substances. The blue colouring matter has generally been found to be either Prussian blue or indigo. The former is recognized by the angular form of the fragments, and by their brilliant and transparent blue colour, but most decidedly by the action of the liquor potass, which quickly destroys the blue, turning the fragments of a dull reddish brown colour. This re-agent may be easily applied to the smallest particles of Prussian blue under the microscope. The latter is known by the irregular form of the particles, their granular texture and greenish blue tint, but chiefly by the fact that the colour is not destroyed by the liquor of potass. The yellow dyes commonly used are turmeric powder and Dutch pink; the first of these is at once recognized by its microscopic characters, which have been already described,

and the latter, by the action of liquor potass, and acetic acid; the one reagent converts the bright yellow into a dark brown, and the other occasions effervescence; results explained by the fact that Dutch pink consists of vegetable yellow, in combination with chalk, or carbonate of lime. The white powders used are usually kaaline, soap stone, or sulphate of lime, and although some clue may be obtained as to which of these is employed in any particular sample of tea, by the appearance of the leaves and the microscopic character of the powder, yet, in order to obtain decided results it is necessary to institute a chemical analysis. It appears that genuine tea contains five or six per cent. of gum. Therefore, if any considerable portion be found beyond this analysis, it may be presumed that something has been added, either for giving a gloss or curl to the leaf, or to fix other adulterating ingredients.

To ascertain whether any of the tea-leaves have been used before, the form of the dry leaves should be particularly noticed. If they want the characteristic twist; if they be broken and agglutinated in little masses of irregular shape, there is a reason to suspect that the tea is spurious. Wash the sample for a minute or two in cold water, distilled, and, if they appear glossy, it is probable they consist of exhausted tea-leaves, made up with gum; in which case they should be subject to a chemical analysis, when it will probably be found that the tannin and theine, which give to tea its peculiar colour and aromatic flavour, have almost entirely disappeared, leaving a greater quantity of lignin (or woody substance) and gum, in proportion to the bulk, than is contained in the genuine tea. The following table shews the per centage of lignin, gum, tannin, and colouring matter, and carbonate of lime, found in samples of genuine green and black, and in samples of tea which had been used before and were seized for being spurious in 1843. The proportions will form a good criterion for a chemical examination in future cases:—

	Lignin.	Gum.	Taunia and coloring	Carbon- ate of time, &c.	Copper.
Green Tea, genuine	55.3 81.9	5.4 13.4	39.3		~ ~~~
Green Tea, containing exhaust-	84.9 84.0	6.8 11.4	1.1	4.0 3.8	3.2
eq. 1002-104705	87.5	4.8	.6	3.6	3.5
Black Tea, genuine	46 8 78.6	5.9	47.3	1.9	
Disab m	81.3	18.0	.7) 	
Black Tea, containing exhaust- ed tea-leaves	72.9	15 5	7.2 4.4		
	78.1	20.5 10.0	1.4 16.9	1.1	
	84.9	11.6	1.0	2.5	

COFFEE.

Coffee is the seed of a tree of the family rubiacee, cultivated principally in the East, and the berry, being first roasted and ground, is extensively used in this country as a beverage. A considerable portion of it is sold in the ground state, and then it is said to be extensively adulterated with chicory, corn, beans, potatoes, and other articles, all of which have to be roasted or partially charred before they can be mixed with the roasted coffee. In order to detect these adulterations, it is necessary to become well acquainted with the characteristics of the genuine and adulterating articles respectively.

The coffee berry, previous to roasting, and even after it has been soaked for a long time in water, is hard and tough, in which respect it differs from all those substances which are used in its adulteration, and which become softened by immersion in cold water; the hardness of the coffee-berry is even retained subsequently to the charring, and is so great that by this character alone, the fragments of the ground and roasted coffee-berry may be easily distinguished from those of chicory. It consists of an assemblage of vesicles or cells of an angular form, which adhere so firmly together that they break into pieces rather than separate into distinct cells. of the cells include, in the form of little drops, a considerable quantity of essential oil, upon which the fragrance and active principle of the berry depend. The testa, or membrane presents a structure very distinct from that of the sub-tance of the berry itself, and when once seen it cannot be confounded with any other tissue which has yet been observed entering into the adulteration of coffee. It is made up of elongated and adherent cells, forming a single layer, and having oblique markings upon their surfaces. quantity of this membrane present, in a broken and divided state in any samples affords, therefore, some clue to the quantity of coffee contained in it. When the coffee is roasted, the essential oil wholly disappears; partly arising from the heat, and partly from its being diffused throughout the cavities of the cells. Chicory, on the other hand, is the root of a plant; the chief bulk of the root being made up of little cells which are generally of an elongated form, but sometimes rounded; and which, unlike the cells of the coffee berry, separate from each other with great readiness, and present appearances which, when once observed, cannot be mistaken. Chicory, owing to the absence of essential oil, readily imbibes water, and when immersed in that fluid, becomes soft, in which also it differs from the roasted coffee-berry.

Corn, deprived of its investing tunics or husks, consists of a net-work of cells, in each of which a variable number of starch granules is included.

These granules differ in character in different plants. In the majority of the corn tribe, the granules are flattened and rounded discs, of moderate size, are obscurely marked with a number of concentric rings. Beans, and Peas, deprived of their seed covering, possess a structure altogether analogous to the grain of corn; the granules in the pea and bean are large, oval, sometimes uniform, and the central cavity is of an elongated shape presenting the appearance of a furrow under the microscope. The structure of the potato resembles, to a great extent, that of the corn, pea, or bean; after boiling, the cells readily separate from each other. These cells present a somewhat fibrous appearance, and are of course much larger than the starch granules, many of which are contained in each cell. The granules, as seen in potato flour, are large, oval, and beautifully marked with concentric rings; but in the boiled potato, they lose much of their form and beauty, and become generally misshapen and collapsed.

To detect roasted corn, peas or beans, in coffee, make an infusion of the suspected coffee, decolourizing it as much as possible by means of animal charcoal, and testing the cold liquor with an acqueous, or an alcoholic solution of iodine, which, in that case, will produce the characteristic blue colour indicative of the presence of starch.

Another method of detecting the presence of chicory in ground coffee, is to moisten a little of the suspected coffee and roll it between the fingers; it will, if any quantity, form a little pellet or ball, whilst the pure coffee treated in the same manner, cannot be agglomerated, and remains in powder. throw a portion of the suspected coffee into a glass of water without stirring the coffee remains for a while floating on the surface, but the ground chicory absorbs the water immediately, and falls to the bottom of the vessel, imparting a yellowish or brownish yellow colour to the liquor. If the coffee under examination, instead of being thrown into a glass, be put into an inverted bottle from which the bottom has been removed, or into a funnel, the chicory which falls down first may be at once separated by adroitly removing the cork, and collecting the chicory in any convenient vessel placed underneath, after which it may be easily identified by its taste and pastiness. If torrefied ground rice, corn, roasted biscuit, or bread, be mixed with the coffee or chicery; the chicory absorbing water more rapidily, will fall to the bottom first, and may be separated by the means referred to.

As the ashes of all vegetable substances are white or nearly so, should the ashes of burnt coffee appear red, or a rusty red colour, it is a sure sign that a mineral, such as venetian red, ruddle or some other analogous substance has been mixed with the coffee. See the Lancet, Normandy's Commercial Hand-Book, &c.

COCOA.

Cocoa is the bruised seed of the tree Theabroma cocoa, cultivated chiefly in the West Indies. Simply bruised, the seeds constitute the cocoa of the shops; reduced to a paste, mixed with sugar and flavoured with vanilla, they become chocolate. These articles are said to be adulterated in many instances to a great extent, but as the detection of the adulteration requires an intimate knowledge of the properties of the genuine nut, and of the matters usually mixed with it, it is attended with considerable difficulty. The most pernicious ingredients said to be mixed with this otherwise grateful and nutritious aliment, may however be discovered by simple analysis.

To detect mineral substances or earthy matter in cocoa—Incinerate, that is, burn to ashes, an ounce of the suspected cocoa, and weigh and test the ashes. If chalk or carbonate of lime be present, an effervescence will ensue on the application of a mineral acid. If the presence of any of the red earths be suspected, as these all contain iron, the ash should be tested for this metal, for which purpose it should first be treated with hydrochloric acid, this should afterwards be diluted, and the proper re-agents applied. Another mode of treatment, recommended by Dr. Normandy, is to grate 500 grains of the suspected article, into as fine a powder as possible, and throw it into about half a pint of cold water, stir the whole briskly for about ten minutes, leaving it at rest for about two minutes, and decanting the supernatant liquor. The earthy matter will then have subsided and will be left as sediment.

The presence of animal fats with which cocoa and chocolate are frequently adulterated, may be detected by the palate; for the chocolate generally has in this case a cheesy or rancid flavor, altogether different from the flavor of the genuine article. By exposing the suspected article to the atmosphere for a few days the fatty matter will become rancid.

PEPPER.

Papper, is the berry of various kinds of plants which grow principally in India, Java, and the Eastern Islands. The difference between Black Papper and White Papper is, that the latter has been divested of its outer coating by blanching, and is consequently much less pungent and strong than black papper. These articles, when ground, are frequently adulterated with ground oil cake, linseed meal, rice, and other like substances.

The presence of adulterating ingredients in Ground Pepper may frequently be detected by the use of a microscope; but before we can make

such an examination available, we must become acquainted with the characteristics of the genuine and adulterating articles respectively.

The Lancet gives the following hints for attaining this requisite knowl_ edge: - When Black Pepper is diffused through water, little particles, of three different kinds, intermixed with a fine powdery substance, are visible; some of these black, others reddish, and the last white; the black are the fragments of the outer, and the red those of the inner cortex, while the white are the pulverized seed itself. The powder is formed of the cells of the seed some united in twos and threes, but the majority either separate and entire or broken to pieces, as well as of starch granules of extreme minuteness. the black particles but little evidence of structure is to be seen; and where doubt is entertained of their nature it is necessary to bleach them with chlorine, and then examine them. In genuine white pepper, no black fragments ought to be seen, but numerous reddish brown particles are always present. usually adherent to the white cells which form the central part of the berry. So great is the quantity of starch in the seed or centre of the berry, that the cells, when touched with a solution of iodine, become deep blue. has two coats; the outer gives polish to the seed; in its cells the mucilage which linseed yields so abundantly is contained; the inner coat has narrow elongated cells. The oil is in the outer particles of the seed, and the starch When reduced to meal, these structures, by a little patien in the inner. investigation, may be detected; the parts most frequently seen, being fragments of the fibrous coats and little masses of starch, the appearances of which can be easily distinguished from the characteristics of pulverized pep-Mustard Seed is readily detected, even when ground into powder. The external membrane is formed of large transparent and nucleated cells; the second is formed of very minute angular cells, containing part of the coloring matter; the third is composed of cells, two or three times larger than those of the second coat. Rice is easily distinguished by its colour and the angular form of its particles. Wheat Flour and Pea Flour are well known, and need no description. In fact, no description of these adulterations can supply the place of experience and close investigation. A useful mode of proceeding, is, to get samples of each kind of the adulterating ingredients most commonly used, ground to meal, and then closely inspect them by the microscope. We may then become more familiar with their characteristic features, so as to be able to detect their presence when in combination with ground pepper.

To ascertain whether ground pepper be genuine, and of a good quality the best way is to find the amount of piperine contained in it. This may be done by treating 1,000 grains, for example, of pulverized pepper with alcohol of specific gravity, 0.83. until they are exhausted. The solution is then distilled to the consistence of an extract, the extract so obtained is then mixed with a solution of caustic potach, which dissolves the resin, and leaves a green powder which should be first washed with water, and then dissolved in alcohol of specific gravity 0.833. By spontaneous evaporation, the solution yields quadrilateral transparent obliquely truncated crystals of piperine, which are tasteless and inodorous, insoluble in cold water, and sparingly soluble in boiling water, from which they separate on cooling; soluble in alcohol, especially with the help of heat: the alcoholic pepper yields about $1\frac{1}{2}$ per cent. of piperine, and of course, if the article be adulterated, the reduced proportion of the piperine obtained, may serve to indicate the quality of the pepper, or the extent of the fraud.

To detect imitation Pepper, or P. D., when made of mustard, &c.— Throw a certain quantity of the suspected pepper into tepid water; the genuine pepper remains solid, and retains its spherical shape, whilst the spurious grains swell out, soon become soft and gluey, and on stirring becomes disintegrated, and fall into powder.

THE RETIRED MERCHANT.

There is a period for which most men look—for retirement from the cares and labour of life; it is an indefinite period, but is expected by nearly all to be reached sooner or later. The farmer expects to leave the plow, the mechanic his work-shop, the author his labors in the field of letters, the physician his practice, the lawyer his profession, the artist his studio, and the merchant his counting-room: all intend to go into retirement. The farmer, perhaps, intends to live at ease on his old homestead, lie in the shade of trees of his own planting, and wander over fields which his own industry has subdued; the mechanic, the author, the physician, the lawyer, the artist, and the merchant, have each their favourite phantom, and each has constructed an "air-castle" according to his peculiar taste, where he proposes to spend the last years of his life in the enjoyment of undisturbed pleasure. But, us the merchant, from the precarious nature of his employment, indulges most deeply in these anticipations, we propose to follow him in his retirement, and make him a type of the whole. He, like his predecessors, time out of mind, will occupy his new mansion on the avenue! He has been years planning and building it, and it is finished at last, and ready to occupy; his "air-castle" is finally made to take a substantial form.

It is a massive edifice; ships have sailed to and fro to gather the materials used in its construction and embellishment; artists of rare skill have been em-

ployed in superintending its erection from the time the first turf was lifted until the crowning cope-stone was set upon it; the ample grounds are coursed by a labyrinth of walks, overhong with trellised vines, and set thickly and orderly with curious and beautiful trees, and in the midst of all, a fountain throws its sparkling jets of spray far up in the sunlight. Men gaze upon it as they pass, and learn to look with contempt upon their more humble homes; young men look upon it despairingly, and wonder when they too shall become retired merchants, dwelling in princely mansions! Having neither time, taste, nor inclination to direct the furnishing of bis new home, the merchant leaves it mainly in the hands of others, and they furnish the decorations and needed furniture; the spacious halls and rooms are filled with the latest styles of workmanship, and the walls are hung with quaint and costly specimens of the painter's art.

The library room receives much attention, and great skill is expended to render it attractive; not being very much acquainted with books, the merchant gets a connoisseur in literature to select for him; he looks to the library for his greatest happiness, when the cares of business are at last laid aside—at least he knows it is essential to every well furnished dwelling. His place of business is now occupied by another, and his old home too, is inhabited by strangers. He left both reluctantly, for there were associations connected with both which he could not forget; there he won his early triumphs as a trader; there he launched his ventures on the sea of speculation, and saw them return laden yet deeper by the profits of exchange; there he made the acquaintance of those who became his companions and rivals in business; he will meet them now less frequently, and with less pleasure, for they no longer have common interests; when they call upon him in his new home upon the avenue, they will be received with painful formality, and the merchant will call to mind their familiar meetings in the counting-room and on 'change, and wonder what has come over the spirit of his dreams! And there in his old home, which had grown too unpretending for his ambition, he enjoyed the fruits of his early business life. and there, day by day, the wife who presided over it shared the joys of his triumphs, and mingled her sympathies with his misfortunes. But these things are all of the past! His great gains are securely invested; he watches no longer with pleasing anticipations the issue of any adventure; the wheel of fortune has rolled to him its golden treasures, and he at least sees the hopes of a life-long ambition fully realized.

The merchant has finally reached that situation in life which most men look forward to, and expect, or at least hope, to attain. Wealth is a precedent condition to its attainment, and none expect to reach it without; it is the central idea, towards which all physical and mental labor is attracted—the great incentive to all effort—at once the means and the end. Hence the dominant idea with the masses is to get wealth; not so much as a means of securing rational enjoyment for present, as to purchase it in the future. The man who is toiling more like a galley slave than a rational, free agent, and denying himself of even life's poorest pleasures, will find a ready apology for his foolish course in the promise he has made himself of retiring from business after he has secured a competence. Indeed, this is the subterfuge of most men who are starving the soul and killing the body in laying up riches; the merchant promised himself a respite from labor and care, for years before he closed his business, and went on the avenue.

The avowed object in casting aside care and business is to find time and means to enjoy real happiness; this is the phantom men pursue through life, and for which they prepare as for a feast. In what true happiness consists, or, in other words, what it is, has been the subject of much speculative philosophy, and it involves not less than a solution of the problem of life itself. fined it as a state of enjoyment; but the question which concerns us most deeply, is, how can the mind be best prepared to harmonize with external objects? Enjoyment is perception with pleasurable sensation or emotion; but as all sights which are in themselves beautiful, and all sounds which are in themselves harmonious, do not strike the eye and ear of all alike, they cannot be said to be, as to some, either beautiful or harmonious, and consequently can produce little or no sensation of pleasure. Experience teaches us that where there is no harmony of thought or feeling, there can be no pleasurable association of mind with the external objects in nature, or of mind with mind. which has been educated in one direction, is not turned in another, without for a time producing unpleasant emotions; the man who has spent his life in the mechanic shop, would enjoy himself but sadly were he to undertake a journey among the rocks with a geologist: the matter of fact man of business finds no associations consonant with his nature and education among the woods and hills, while the poet and man of letters calls them his companions, and communes with them as with familiar friends; and the common laborer sees no more beauty in the finest painting than in the coarsest wood-cut, while the artist, with practical eye, views them widely apart, and awards to each its true merit. We say of the mechanic, the man of business, and the laborer, that they have not sufficient capacity to comprehend the worth and beauty of these several objects, while, in truth they may not lack the capacity, but only culture and familiarity with them! They reap no enjoyments from there contemplation; and if transferred from their accustomed vocations, where such objects and scenery predominated, they would be far from true happiness.

We are now prepared to follow the merchant to his new home—or, more properly, to his new state of existence—for the change has been so radical that he seems to have lost his identity. The world pronounces him the happiest of men; let us see if, from the nature of things, this can be a correct opinion. Commencing early in life with nothing beyond a requisite business education, he determined to attain a position of affluence; he has reached it, but it has cost him years of unremitting toil and painful anxiety. His mind has tortured itself with schemes of speculation, all bearing upon the one grand object of life, the attainment of wealth; it has not been permitted to be turned aside for a moment to contemplate any object of pleasure, lest some golden opportunity of gain should elude his grasp. He has travelled but little, and only from necessity, and then, with his mind so absorbed in business, as to derive no beneficial knowledge or substantial pleasure. He has read no books in connection with his ledger, has formed no attachments to society outside of his immediate calling; has cultivated no taste for the beautiful in nature or art; yet from these sources must be draw that happiness which he has devoted the best years of his life to secure. What will he do in his new home! Before his mansion is a landscape, in miniature, with trees and shrubs, clustering vines and flowering plants, with a fountain not unlike a natural cascade; but how are these to minister to his happiness? He knows the utility of wood in the construction

of warehouses, stores, and dry-docks, and in the building of ships and canal boats for the transportation of grain and merchandise, and of water as a highway of trade and traffic, and for the propulsion of machinery; but beyond this he knows and cares nothing—the theory of his life has been utility. He will stare at his rare paintings as the fool stares on vacancy; but a delineation of some plan for labor-saving machinery, whereby a gain of twenty-five per cent., net, could be effected, would make his eyes beam with intelligence.

The library, which cost so much, and which contains all the standard works of art, literature, and science, affords but little of its promised pleasure, and why should it? The merchant is surrounded by a wilderness of books which he never read, and of which he never even heard. Here he entertains his old companions when they call occasionally to see him; and if he does not tell them during conversation, that "Mr. Waverley has written several good books," his ignorance perhaps will lead him to commit some blunder equally absurd. He is not at home in his library after all; he is sorry for it, for here he rested his main hope of happiness; but it is now too late to enjoy even a small portion of the rich harvest of learning which genius and labor have gathered around him, and the thought but adds another pang to the sorrows of As wealth is a precedent condition to retirement, so is knowhis retired life. ledge to the enjoyment of happiness. The merchant has wealth, but not the knowledge necessary to enjoy it. Put him in possession of both, and happiness would follow as a consequence; but having but one, he fails in securing the one great object of life.

The love of study and meditation, when once acquired, outlive all other passions of the human mind. When all the fascinations of the world become powerless; when its passing glories are no longer heeded, and power itself is despised, then the mind, like a good angel, gleams up the past, and brings its golden sheaves of thought and fancy to minister to the necessities of faltering old age.

This leads us to remark in conclusion, what must be obvious to every observing mind, that, with us, too little time is given to mental culture in connection with the active duties of life. It is not sufficient that the young man begins business with the little he has learned in the collinge or academy; the labor of each successive day should be relieved by a season of study, for in this way there is a necessity created, which to satisfy, becomes a constant source of pleasure. And when he finally goes into retirement, whether from the mercantile profession, or any other department of business, he will carry with him the love of the true and the beautiful as a part of his very being, and will journey the down hill of life in the enjoyment of that serene happiness which it alone can secure.—American Merchant.

Erom Hunt's Magazine.

CAUSES THAT PRODUCED THE CRISIS OF 1857, CONSIDERED.

It is now more than a year since the commercial and financial crisis of 1857 broke upon us. It came suddenly and unexpectedly. It was intense, wide spread, and painfully disastrous. A few persons were expecting what is

called a "change of times," a depression in business, and an unusual scarcity of money, but no one had the slightest conception of the reality. The time that has elapsed since it occurred favors an impartial investigation as to the cause or causes, both because the feeling produced has somewhat subsided, and because facts have been developed throwing light on the subject.

The importance of understanding this matter can scarcely be overestimated. It was a great public calamity, and not occurring in consequence of war, pestilence, or famine, nor from any extraneous or outside influences, and full statistics existing in regard to all the great interests of the country for many years, there is every reason why the subject should be so thoroughly understood as to produce general unanimity of opinion among intelligent men in regard to the causes. But how different is the fact. There are scarcely any two who agree, and especially in details—many judge from their own standpoint or experience, not looking at the whole subject; others, and they are numerous, have special the ries by which they explain every fluctuation in business—and then the great mass are ignorant and look outside and beyond themselves—they are right and all else is wrong; this is their reasoning.

There are four great operating causes, or controlling interests, that bave undoubtedly exerted, and that do exert, at all times, a marked influence upon the business and the prosperity of the country, namely, our banks, banking, or monetary system; the tariff; speculation and over-trading; and the credit system. Most of those who have written on the subject, so far as we have been able to ascertain, have attributed the crisis of last year to some one or all of these causes.

While all these act reciprocally upon one another, and each and all have more or less influence in shaping and directing our business as a whole, we think they have each, respectively, exerted a widely different influence in regard to the crusis of last year. This we propose to consider briefly; and we shall take up these interests in the order in which they are referred to above.

The time was when the monetary system of the country could be discussed on its merits. General Jackson's opposition to the United States Bank, caused the Bank question to become a political question. At first it was simple opposition to a national bank—not on its merits, but because it used its influence for political purposes—and approval of State banks. ter were created in great number, without much regard to the wants of the community, and, not unfrequently, for party purposes, to insure political ends. All such were in the main, as a matter of course, unsuccessful. with all banks" became the party cry; all good Democrats were expected to oppose banks, and all good Whigs to approve of them. ing question became a leading party question, and it was disscussed in the same spirit that prominent party questions are discussed in times of high party excitement. Prejudice, and not reason and judgment, was appealed Triumph was the object, and not truth. Although this question has, to a great extent, ceased to be a foot-ball in politics, there is a popular prejudice against banks and paper currency that is ready to attribute all unfavorable fluctuations in business, whether confined to an individual or extending over the country, to them. Much of this projudice arises from ignorance of the nature and the functions of money, and of banks, and of paper currency.

What is money, and by what law is it governed? Money consists of gold silver, and copper coined. It is governed substantially by the same laws It possesses a real cost value, and is the that regulate other property. standard, or measure of money value, or of exchangeable value of all commodities in any and all communities where it is used and circulated as with Paper money has no intrinsic value—a bill of \$100 is worth no more It is a representative of property, or evidence of itself than a bill of \$1. It is not a measure or standard of value; neither does it influence prices any further than so much credit. It is a substitute for gold and silver, as a check, or a draft, or a bill of exchange, or a negotiable note is. A in Boston wishes to pay \$100 in New York; he procures the amount in a bank bill, or a certified check, or in a draft, or bill of exchange, suiting his own convenience, in whatever form he selects; to him it is paper money. more valuable under the circumstances than coin, although it has no cost value, and is simply a representative of property, or evidence of debt. a substitute for coin or property. Money, both real and paper, is a motive power in business. It facilitates business and the exchange of products. Supply and demand, in a measure, regulate its value. The amount required by a community is determined by the amount and the character of its business, the method of transacting that business, the geographical extent over which it is spread, and the facilities of communication. One community of equal population with another may have ten times the amount of money of the other, and still have very much less in proportion to its business wants. Whether money is plenty or scarce is not ascertained by the number of the nonulation, neither is an increase of money or banking capital to be determined by comparing the amount at one period with that of another. regulated by the amount of business—this is the only true criterion.

Banks are the aggregation or association of previously acquired individual wealth. They do not create wealth of themselves any more than does a plow or a hoe. They aid and facilitate business as a steam engine aids and promotes mechanical production. Business exists and banks are required; they are not the forerunners but the followers of business. Business is made or created in a community, and a bank is required as a place of deposit, to collect and to facilitate the transmission of funds between different points, and to provide a urrency. In these and other ways they aid in creating wealth; they are a labor-saving machine, one of the most important of modern times.

In the few suggestions we propose to make in regard to the influence or agency our banking system and paper money had in producing the crisis of 1857, we do not intend to discuss the whole theory of banks and paper money, but to take a practical view of the working of the system as developed through well regulated banks. It is contended by one class of writers, and they are very numerous, that not only the crisis of last year, but that all

disturbances in our financial and commercial affairs, arise directly or indirectly from our banking system. To this class belongs the Hon. Amasa Walker, of this State. He takes extreme or ultra views of the subject. He published a series of articles in this (Hunt's) Magazine, all but one prior to the crisis, discussing the points at issue. We propose to refer to these articles, not considering every point, but some of the more prominent ones, rather as preliminary to the main question. Mr. Walker is an able writer, has studied and taught political economy, and has had a large experience in business, and he has undoubtedly made the most of his case.

We begin with his article in the August number of 1857, on "Mixed Currency—its Nature and Effects."

He assumes—1. That a mixed currency is fluctuating, both in quantity and quality.

- 2. That not having the cost value of gold and silve,r it can perform well only one function of money, to-wit, that of medium of exchange.
- 3. That it is not correct as a standard of value, consequently, it is local in its use—money at home and "moonshine abroad."
- 4. That it causes an extension of credits, demand for foreign products, and the export of specie.
 - 5. That it stimulates and depresses credits.
- 6. That it produces bankruptcies, which, he says, occur, "just in proportion to its expansibility and contractibility."

These points are argued somewhat at length, and a variety of bank statistics are given by way of illustration and proof. He says, "fixing our eye steadily on these great facts," (namely, the fluctuations of a mixed currency in quantity and quality,) "we are enabled to account for all those frightful convulsions in the monetary world which we know take place," such as "overtrading," "speculation," "gambling," recklessness," etc., etc. It is very clear from the language that Mr. Walker believes our banking system to be an unmixed evil—in fact, the root of all evil, commercially and financially considered.

The first point, to-wit, "the fluctuations in quantity and quality of a mixed currency," is extremely important. Much of the error and prejudice concerning banks arises from not understanding clearly the rules or laws that regulate the issuing of bank bills and the true criterion of their value. In the main, supply and demand regulate their amount and their exchangeable value, or what is the same thing, their "quality."

A bank is established for its dividends and to facilitate business. It is clothed with limited and well-defined powers, and is managed by, or under the control of, a board of directors. It has four sources of profit—its capi-

tal, its deposits, its circulation, and its exchanges. Its circulation, that is, the amount in bills that it can have out at any one time, is limited by law, and depending upon the amount of specie on hand. The amount of its discounts is also restricted by law, and, as a general thing, cannot exceed at any time twice the amount of the capital. From them its profits are chiefly de-When they can be increased and kept up to the limit without issuing bills, as they can in case of large deposits, the bank prefers not to issue bills, and in many instances, where the law allows it to use those of another bank. It is a common opinion that a bank can, and that it does, at pleasure, increase and diminish its circulation; and that the banks do capriciously affect the money market in this way. This is a great mistake. true interest of the bank lies in having its customers, and the public generally, successful; consequently it acts with caution and prudence, doing all it can to promote the public good, consistently with taking care of itself. never issues bills gratuitously, nor without securing or putting into its vaults their value. Every bill going from the bank is a debt against itself, payable on demand; and it is in the hands of the public, who, as it regards the bank. are jealous, unfriendly, and uncharitable.

The interest of the bank, and that of the public, depend reciprocally upon each other; the bank will do all it can in safety to accommodate the public; more than this the public have no right to expect, nor the bank to grant; and it is not only untrue, but absurd, to say that the bank increases or diminishes its circulation capriciously. It might be said with as much propriety that a prudent and responsible merchant buys and sells his goods in the same way. A merchant, in making his purchases, goes into the market, remembering that there is a pay day; in selling, he keeps steadily in view the question of getting his pay; and, not only so, of getting it in time to meet his own payments. This is the principle of the bank. They both may, and do, make mistakes—infallibility is not an attribute of humanity. We find a great fluctuation, as Mr. Walker says, in the amount of bank circulation, not only at periods distant from one another, but at different seasons of the same year, and also in different sections of the country, and he produces a variety of statistics in proof.

This fluctuation we regard as perfectly natural, forming no argument against a paper currency. If paper money of itself made the corn grow, built and equipped the factory, pegged the boots and shoes, constructed the railroad, it might be. Its office is of a very different character. After the corn is grown and ready for market it comes into aid in selling it, and in distributing it to consumers over the country. It lends its aid in the same way in scattering over the country all kinds of merchandise. The factory that turns out a million of dollars' worth of goods, the 80,000 people in Massachusetts engaged in making shoes, say amounting annually to \$50,000,000, are all benefited in the same way. As this corn, these goods, and boots and shoes are chiefly sold during five or six months of the year, it is very natural that more money should be required at one time than at another, causing a "fluctuation" in business, and a corresponding "fluctuation" in the amount of paper money in circulation.

Supposing the corn crop should fail, or partially so, and there should be scarcely any to send to market; supposing the factories should stop, or run half time, and supposing from any cause there is a great depression in business, a "fluctuation" in the amount of paper money in circulation ensues. comparing one year with another, just as it flictuates in a single year by crowding the business into a few months; this is a logical and legitimate re-Objection might be made with the same propriety to a railroad, because there is a fluctuation in the number of cars sent over it daily, monthly, or yearly, as to our banking system, because of the fluctuation in the amount of tills in circulation. The number of cars is graduated by business and by passengers. Passengers go West to buy corn, and others come East to purchase the products of the factory and boots and shoes. These articles are sent simultaneously in their opposite and respective directions, creating a necessity for a number of cars and a larger amount of money at one time than at another. The condition of the banks in 1857, as compared with 1858, illustrate our argument:-

	Capital.	Specie.	Loans and discounts.	Circulation.
In 1857	\$370,834,688	\$58.349,838	\$684.456,887	\$214 778,822
In 1858	394,622,797	74,412,832	583,165,242	155,208,344

Business is extremely light this year as compared with the last, and we see that while the banking capital has been increased very considerably, the loans and discounts have diminished more than \$100,000,000, being about one-sixth; the circulation has decreased about \$60,000,000, more than a quarter; and the specie has increased nearly a third, upwards of \$16,000,000. This condition of the banks is not a matter of choice, in respect to decrease of loans and circulation, but of necessity. Their circulation, business having fallen off, is not required, and, as a matter of course, it returns to the banks.

The error in Mr. Walker's argument is fundamental. His premises are wrong, and, as a matter of course, his conclusions are wrong. He puts an effect for a cause. He assumes that the banks create and regulate the business of the country, when, in fact, the business exists, and the banks come in to afford facilities for transacting it.

His method of determining the value of paper money (he calls it the "quality") is certainly erroneous. Assuming that it may be worth at one time 90 per cent., at another only 50, at another only 10, or even 5 per cent., he comes to this conclusion by comparing the amount of specie in the banks, at a given time, with the circulation. For instance, in 1840, the circulation of all the banks in the United States was, in round figures, \$107,-000,000, and they had only \$33,000,000 in specie, leaving the bills worth, by this criterion, only 31 per cent. We are at loss in determining why Mr. Walker adopts this method in discovering the value of the circulation. Why should specie be regarded as the true exponent of the value of our currency, or the debts of the banks, any more than it should be of the debts of individuals or of the community? It is a well-known fact that deposits are so much a debt in all respects against a bank as circulation. In 1840,

these same banks owed to depositors, in round figures, \$76,000,000. The depositors have the same right in law and equity to draw out the specie that the billholders have, and, as a general thing, they could do it with greater facility, having larger amounts, while the bills are scattered over the country.

If the value of a bank's indebtedness is to be decided by its specie, certainly the deposits should be an element in the calculation. In the case cited, the result would be very different from Mr. Walker's conclusion. The deposits added to the circulation made \$183,000,000, leaving the bills worth not 31 per cent., but 18 per cent. Now we regard this criterion, of judging the value of bills, as utterly fallacious, for a variety of reasons.

There may be two banks having each \$200,000 as a capital, and each having \$100,000 in specie and \$300,000 in circulation, and yet the bills of one may be worth in fact twice as much as those of the other. This is not an extreme case, and to a man who is acquainted with banks it is obvious. and at once understood. It is true a bank agrees to pay its bills and deposits in specie; but scarcely any terson makes a deposit in a tank, or takes one of its bills, with reference to its specie. Other considerations control him. As a general rule he prefers not to take the specie; when he does, it is an exception. There are but about four cases in which a man wants coin, namely, to send abroad: to pay government; to make change; and to make a legal tender in case of anticipated litigation. This view was most strikingly exemplified last year, at the time our banks suspended. Although it was expected for weeks, and known for days, that they would sus; end, there was no run upon them. Nobody doubted their solvency, or ju ged it by their specie. Let us examine a moment, and see where this criterion of Mr. Walker's will lead to.

As I have before said, the banks promise to pay their debts in specie. So do the savings banks—so do all merchants—bonds and mortgages, and all obligations of every name and nature, are payable in specie. The deposits in the savings banks in Massachusetts in 1856, amounted to upwards of \$30,000,000, and they held less than \$500,000 in specie, leaving, according to Mr. Walker's criterion, the deposits worth a fraction over one and a half per cent. We have no doubt that the individual and corporate indebtedness of the country at the time of the crisis of last year was, at the lowest calculation, five thousand millions of dollars, all payable in specie, and the specie in the country did not much exceed two hundred and fifty to three hundred millions, leaving the debt worth about 5 per cent. It is only necessary to carry out Mr. Walker's reasoning to its ultimate results to expose its absurdity.

The second general argument of Mr. Walker is, that paper money, not having the cost value of coin, can perform well only one function of money, to wit, that of medium of exchange; and not being a standard of value, it is local in its use—" money at home, and moonshine abroad."

The enemies of our banking system have a peculiar way of reasoning. Not content with charging upon the banks all the evils which business is heir

to, they attribute to them and paper money certain powers or functions which no friend claims they possess, and then proceed in the most formal manner to prove that they do not possess them. This is precisely what Mr. Walker does. He objects to paper money because it has not the power of coin and because it is not a standard of value. He might as well object to a horse, because it is not a cow, or a steamboat, because it is not a railroad car. We must take paper money as it is. It has no value per se. It is merely a representative of property—it cannot, in the nature of things, be a standard of value. It is simply a medium of exchange within a limited sphere; that is, where it is known. Where it is not known, it is as Mr. Walker says—"moonshine."

The third general proposition of Mr. Walker is, that paper money causes an extension of credit; an increased demand for foreign products; and, consequently, the export of specie. All this comes to us in the form of mere assertion. Still, it may be true. We are not favored, however, with either facts or arguments to aid us in determining the case. The old syllogistic system of logic is relied upon:—the banks produce all our commercial and financial evils—the extension of credit is an evil—therefore the banks caused it.

It is impossible to determine from facts whether our system of money produced the results alleged, so far as the extension of credits and the increased demand for foreign products are concerned, for we have no facts or figures that directly bear on the subject. This is not true, however, in regard to the export and import of specie; we have reliable statistics concerning them, and also of the amount of paper money in circulation each year, at least for the last thirty years.

The excess of importations over the exportations of specie for each five years from 1830 to 1849, inclusive, is as follows:—

From 1830 to 1834.	From 1835 to 1839.	From 1840 to 1844.	From 1845 to 1349.
\$24,812,910	\$31,327,885	\$15,939 560	\$9.315.676

From 1850 to 1854, our exports of specie were largely in excess of our imports. The excess in these five years amounted to \$121,806,669. In 1855, the excess wis \$52,587,531; in 1856, it was \$41,537,855. In seven years, from 1850 to 1856 inclusive, the excess of exportation of specie was \$215,932,055.

We will see for a moment how the movement in specie squares with Mr. Walker's argument. These statistics, and those of the banks, are the only reliable facts we know of that directly bear on the question; and what are the facts, and what do they teach us? and what are fair logical deductions therefrom?

After examining carefully, and we think critically, the bank statistics, and also those of all the great interests of the country, we have come to the conclusion that the banking capital and the amount of paper money in circula-

tion have decreased, from 1830 to 1856, inclusive, a period of twenty-even years, three quarters; that is to say, in 1856, the banking capital and the paper money in circulation were each only one-quarter as much as in 1830; therefore there has been a decrease of three-quarters in the period named. This decrease has not been uniform from year to year, but in the aggregate the result is as we have stated, and in considering another branch of the subject we shall attempt to demonstrate it.

It will be borne in mind that Mr. Walker's argument, or rather assertion, is, that paper money causes an extension of credit, an increased demand for foreign goods, and consequently the export of specie. We contend that facts disprove his conclusion, and therefore his assertion falls to the ground.

From 1830 to 1836, inclusive, a period of seven years, we imported \$42,-252.113 more specie than we exported. From 1850 to 1856, in the same length of time, we exported \$215,932,055 more than we imported. In the former period the paper money in circulation, in round figures, was four dollass to one dollar in the latter, and yet we imported specie largely, and in the latter exported still more largely. Now, it may be said that during the latter period we were producers of specie, and as a matter of course, export-Admit this for argument's sake. Our facts are then conclusive as against Mr. Walker's assertion, for from 1830 to 1849, there was a very rapid decrease in paper money, and also a large diminuition in the importations of gold and silver. From 1830 to 1834, we imported \$24,812.910 more specie than we exported; from 1845 to 1849, we imported \$9,315,-676 more than we export d. Here is a falling off between these two periods of two-thirds in the importations of specie, and the paper money decreased about in the same ratio. Now, if these facts stood in the relation of cause and effect, we should have strong grounds for concluding that paper money brought specie into the country. But we do not assume this. We simply say these facts disprove conclusively Mr. Walker's assertions, that paper money necessarily drives specie out of the country. We wish to discuss the question fairly. A good cause is not strengthened by claiming for it what it does not possess, neither is a bad cause overthrown by denying it the little good that may rightfully belong to it.

Mr. Walker's next assertion is, that "paper money stimulates and depresses credit." Volumes have been written in favor of this statement, and yet we have seen no direct proof of the statement in the sense in which it is intended it should be understood. It is obvious, however, that whatever enlarges the sphere of business, extends improvements, or stimulates production, evidently, under our vicious credit system, "stimulates and depresses credit." Our whole commercial system is floated along on credit. If the proof of this depended upon the cash transactions, that is, on the exceptions to the general rule, they are really too small in number to prove it. But more of this at another time.

The next point we notice is, Mr. Walker's assertion respecting paper money, that bankruptcies occur "just in proportion to its expansibility and contractibility." Here is great exactness, considering there is no proof, excepting the following statement. He says:—"We have seen it asserted, but

do not recollect upon what authority, that the comparative bankruptcies among business men in the different countries named were as follows:-In France, 15 out of every 100; England, 35; Scotland, 60; United S ates, This comparative statement would be much more forcible if it were more comprehensive. If Mr. Walker had only "remembered" about o her countries-for instance, in Asiatic Turkey, among the Bedouins, 0 out of every 100; in European Turkey, 1; in Rome, 2; in Spain, 3; in Portugal, 4-he would have had a regular progression, not only in figures, but as it respects currency and banks, or bank facil ties. In Turkey they have a purely specie currency; in Rome, only now and then a fugitive check or draft is seen; in Spain, paper money of the same kind is a little more frequenly used, and so in Portugal; and when we reach France, we find modern paper movey and a great increase of failures. Now, we have no doubt that failures among business men occur in the long run very much in accordance with this comparative statement, taking it as a whole; but to charge it to paper currency is contrary to fact, and simply absurd.

In California, and also in Australia, where they not only have a specie currency, but produce specie as an article of commerce, there are more failures and a more rapid and extreme fluctuation in the prices of goods than in any other part of the world. In France, and before the establishment of their present bank, which Mr. Walker views with such an unfriendly eye, there were instances of the wildest, the most senseless speculation that ever occurred; during which the number of failures and bankruptcies exceeded greatly anything that took place with us even in 1837. The crisis of last year was felt with more intensity in Hamburg and other parts of Northern Europe, where they have no paper currency like ours, than it was with us. Failures were more rapid, and the panic more sudden, complete, and all-pervading than even in New York. And there is still another fact bearing pertinently upon this point. There is more banking capital and paper money in New England, and, according to Mr. Walker's criterion, of less value, than in any other portion of the United States, and yet last year the failures were fewer in proportion, and, with one or two exceptions, less disastrous, than elsewhere.

The true cause of mercantile failures lies much deeper in our system than paper money. It is to be found in the characters of our race. The Anglo-Saxons are the pioneers of modern civilization and improvement. They are adventurous, enterprising, and far-seeing. There is no spot on the face of the earth, however remote or difficult of access, they will not visit, provided it promises to put money into their purse. This adventurous spirit characterises them at home as well as abroad. We conquer countries; lay out, people, and improve States; cut down forests; cultivate farms; open mines; construct railways and erect factories, with a rapidity unknown and incomprehensible to the old countries. Cincinnati, of forty years' growth, contains more inhabitants than Madrid, the largest city of Spain. Wherever such rapid improvement exists, and such extraordinary enterprise prevails, there will be much of rash adventure, failure, and vicissitude. are natural, and no more depend upon paper money than the difference of character and temperament existing between our own people and those of Catholic Spain and France depend upon, or grow out of, paper money.

THE COMMERCE OF INDIA.

The following admirable lecture on the commerce of India, delivered by Major Constable in Hamilton, will be found highly interesting and instructive, and we commend it to the attentive perusal of our readers. There is so much in it that is really valuable, and so little that could be consistently abridged without destreying the effect and interest of the whole, that although we should be obliged to carry it through two numbers, we feel compelled to give it in full, feeling assured that the space could not possibly be better occupied:

Indian Commerce! the commerce of the most ancient and wealthy country on the globe, the origin of which is lost in the misty records of the past; for, long before History usurped the place of tradition, the Phænicians, Egyptians and Carthaginians, carried on extensive and very lucrative trade with the countries eastward of the Persian Gulf, and of this trade it has been very pertinently remarked "that, whatever nation or city has, in the lapse of past ages, held in its hand the key of Indian Commerce and Influence, that city or country has, for the time, stood forth in the van of the civilized world as the richest and most flourishing. So long as Arabia enjoyed the full benefits of Indian Commerce, it was far-famed as Araby the blest. Indian Commerce found Palymyra composed of brick and left it more precious than marble. Monopoly of the Indian trade enabled Tyre, single-hanced, so long to resist the migh jest efforts of the Macedonian Conqueror. Direct trade with India and the East speeddy raised Alexandria into such marvellous pre-eminence-Through Moslem victories in the East, Bagdad started up at once the Rome. the Alexandria, the Athens of Asia, and Chuznee, the Capitol of wild, cheerless Affghanistan, was long called, in allusion to her connection with the golden Indus, the celestial Bride. And during the century of Portuguese Dominion in Hindostan, Lisbon outpeered all her rivals." Thus has been described the value of Indian Commerce. Is that value altered now? You will each answer to yourselves at the close of the evening.

The discovery of the passage round the Cape of Good Hope was almost simultaneous with the successful voyage of the great Genoese. When Portuguese and English enterprise was first bringing the wealth of the East by this tedious route and pouring it into the lap of the West, Spanish freebooters were busy in the West, spoiling the simple natives of Peru and Mexico—giving for their rich stores of gold, the simpler and more common metals, cold steel and rounded lead.—Portuguese and English sailed forth in ships laden with the manufactures of Europe, to barter for rich spices, sweet scented guins, costly silks, or still more costly shawls. Spain sent forth her armaments laden with armed men clad in steel, with fierce war horses, to frighten the natives of the far western Continent into yielding, without equivalent, the coveted prizes of Eldorado.

It may be said that Spaniards and Portuguese had different material to deal with—the one found in the East, nations living under an ancient organization of law and order; and that the other, under such leaders as Pizarro and Cortez found but tribes of semi-savages. I think, however, that one has only to read Prescott's eloquent histories of the Conquest of Peru and Mexico to be convinced that, in these countries, civilization of a certain kind had reached a high degree of refinement, when the war cry of the ruthless Spaniard startled the wild fowl on the still waters of the Aztec lake, or was echoed back to the fathouless Pacific from the snow-crowned Cordillera. Where are now the descendants of those busy millions who obeyed the nod of the ill-fated Mantezuma? where now the races who built the ibex, a road over the pathless Andes? The work of extermination began by Pizarro and Herman Cortez has been thoroughly completed by their deceadants. Need I describe to you the condition of these countries to-day: Mexico and Peru, words synonymous with silver and gold, are a by-word and reproach among nations; countries conquered by the sword, have lived by the sword, and are now perishing under it. How differently has it fared with India, under the benign influence of Commerce. That the first Eastern adventurers were just as unscrupulous as those of the West, may well be believed. Tristan D'Acunha and Jose Albuquerque would doubtless gladly have emulated the deeds of the Spaniards, but they had other material to deal with, and Portuguese, Dutch, and English soon learnt that trade was more profitable than war, and the coveted wealth more readily obtained and more surely acquired by the exchange of commodities than by the exchange of blows.

The mercantile policy inaugurated three hundred years ago has been steadily followed out by our countrymen in the East. It is true that we have, while in the pursuit of Commerce, acquired an empire more extensive than ever lured in the dreams of the Macedonian madman; but this dominion has been obtained in spite of ourselves in the teeth of our endeavours to the contrary. The East India Company, at its rise, never had a thought of conquest, and for more than a hundred and fifty years a simply trading policy was maintained; but onward, irresistible march of events, of which I need not to speak again this evening, hurried the Company on from one acquirement to another, each fresh annexation more strenuously protested against than the former, until bit by bit, step by step has been built up in the East that great Babel of Empire—the possession and retention of which is alike a wonder to the casual observer, and a problem to the wisest statesmen of our time.

India with every variety of climate, sends forth every variety of produce. Her scorched plains, her wide expanse of marshy ground, her ever green and ever cool mountain slopes, her dark pine forest and snow-crowned summits afford in rich abundance every fruit and grain of the known world. A wanderer through Hirdostan, may cheaply feast on the most expensive luxuries of our western world. To give a list of Indian products it would only be necessary to copy out scriatim an Agricultural and Commercial Encyclopælia. I have in vain tried to think of some one fruit, grain, or vegetable that may not be found in some part or other of that world's epitome. Here is a list of a few of the articles exported from India:—Cotton. Sagar, Indigo, Opium, Rice, Sılk and silken goods, Muslins, Tea, Coffee, Spices, Gums, Tobacco,

Spirits, Linseed, Castor Oil, India rubber, Hides and tallow; but what necessity to draw out the list. The animal world vies with the vegetable in variety. Every beast and bird fit for the use of man is found in profuse abundance; game of every species is not more abundant in the well preserved English park than on the plains and hillsides of India. There also the earth yields up her hidden treasures of gold and iron and coal.

"The diamond lights up the secret mine, And the pearl gleams forth from the coral strand"

in that country of almost fabulous wealth and resources.

If India be the wealthiest, she is also, excepting China, the most populous country on the globe, and there the necessaries of life are obtainable with the least trouble and at the least expense. Mr. Newmarch estimates the bullion in India at two thousand millions of dollars. The great majority of the people feed and clothe themselves on a sum not exceeding \$0.75 a month. No public works are ever undertaken by private enterprise; the Government builds roads and bridges, and digs canals, yet the rate of interest is higher in India than it is now in Australia or California, for it ranges from 20 to 30 per cent. That fact is one of the anomalies of India. But I must not linger over generalities, but proceed to speak of the various articles most largely exported. First in importance is Cotton; the plant which produces it being, I fancy, indigenous to Hindostan; for we have accounts of its culture and manufacture many centures before the Christian Era.

The cotton shrub is an annual, growing from two and one-half to five feet in height, and, when ripe, covered with white pods from which the cotton wool bursts in its white flaky form. In India, from natural tendency, or caused by the fierce heat of the sun, the husk of the pod at maturity is so dry and friable that in picking the wool it would appear to be impossible to prevent some portion of the covering adhering to the cotton, giving it a discoloured and dirty appearance.

An acre of land produces from 200 to 400 pounds of this wool, the average cost of cultivation being about two pence per pound; but cheap as this may appear, so many are the obstacles in the way of sale for an European market, that Cotton is about the least profitable crop of an Iudian farmer.

In the first place the friable nature of the pod, and the leaf of the plant just alluded to, causes the wool to have not only a very dirty appearance, but by the very fine and adhesive nature of the leafy particles, seriously to interfere with the English manufacturers' cleaning machine—technically called, "The Devil"—which, accustomed to the cleaner fibres of the American plant, cannot apparently be induced to lay hold of, or cast out, these extraneous substances.

You are all probably aware that cotton wool, when picked from the shrub, adheres tightly to the oily seed which it surrounds; after gathering the crop the first operation is necessarily the separating the fibre from the seed. In India, from time immemorial this has been the work of woman, using a rude

machine called the "Churka," which was simply two small rollers, one of iron, the other of wood, the latter having a diameter half as large again as the former, which was generally three-fourths inch rod about eighteen inches long, fastened horizontally under the wooden one. This affair required two women to manage, one turning each roller, in opposite directions with one hand, while with their other hands the Kuppas, or seed cotton, is pressed up against the revolvers which catch the fibre and drag it from the seed dropped on one side, while the wool passes to the other. By this slow process two industrious women can manage to clean some forty pounds of wool per day.

The fibre of the cotton is not the least injured or destroyed by passing through these smooth rollers, which, however, setting apart the slowness of the operation, have a radical effect. It has been found impossible to turn two pieces of wood and iron so perfectly true throughout their required length as to prevent the seed being occasionally caught with the fibre; the oil which is then crushed out, giving East India Cotton the dirty yellow tinge so hateful to the eyes of the Mauchester or Glasgow spinner.

The wool thus prepared is then placed in gunny bags, filled out by a man or woman tramping the elastic substance well down, while the bag is suspended from a tree or post. So elastic is the fresh wool that this primitive mode of procedure does not secure the desired object, for it is impossible thus to pack it without some soft places through which the dust or rain can enter and permeate through the entire bag. But this rude packing does not take place until after the cotton has been sold. It may lie for several days or weeks, even months, under a shed or even out in the open air, receiving the dews of the night and the dust of the day, without the farmer troubling his head about in

The purchase made and the bags weighed out and delivered to the dealer, you would fancy that some care would be taken to deliver it at the port of shipment as little soiled as possible. Not a bit of it. Let us suppose that a native broker of Jelgaum or Kelguam in Berar has received an order from a mercantile house in Bombay for a certain quantity of cotton or 100e, as it is styled; he sends his servant for the Brinjarrie, with whom he has made a contract to convey his cotton at a certain rate during the season; to this contractor is explained the extent of the order and the despatch that is desired. A day, or it may be a month afterwards, the broker's premises is surrounded by a dozen or two fierce, savage looking Brinjarries, having in charge a sufficient number of half-starved bullocks to receive the load—two bags for each—which they carry along at the average rate of ten miles per day, thus making the journey from Kanguam to Bombay in about a month.

At every halting place the freight is pitched off the bullock into the dust or mud of the road, or on to the long wet grass as the case may be. The strongest sacking that ever was made would not stand the wear and tear of such a journey, and the gunny bags are not proof against the treatment, so that by the time Bombay is reached the wool is bursting out in all directions, with dust and filth adhering to it. In this state it is delivered at the immense screw-press warehouse, and in a few hours four of the native

bags are compressed into one solid bale for shipment to Hurope. Seed, leaf and dirt are sent off together, and arrive in Liverpool to be exposed for sale, under the generic name of "Surat," which is in little demand, owing somewhat to the shortness and weakness of the staple, but more to the mode in which it is prepared for market.

The Government of India have made strenuous exertions to remedy this state of things, but their success has not been at all commensurate with the expenses incurred. The attention of Government was first directed towards improving the staple of the indigenous plant, which at the best was too weak and short to bear comparison with the produce of America or Egypt. Some hundreds of tons of Bourbon, Sea Island and Mastodon seed were obtained from this continent, and distributed to the Indian farmer, at the expense of the Government. Twelve practical planters were then induced by large salaries to leave their occupation in the States of Georgia and Mississippi, and to proceed to the cotton districts of India, to teach the natives by precept and example the American method of cleansing the wool and preparing it for market.

A lavish expenditure of public money built commodious storehouses, and distributed in every direction Whitney's saw-gins, by which the ryor or cultivator was invited to have his cotton crop cleaned and prepared for market free of expense. These saw gins are simple enough. Whitney's patent is a box containing an iron grating with a peculiar curve, behind the grating is a roller set with a number of circular saws, which enter the open spaces of this grating at a particular angle; against these the seed cotton is thrown, the fibres are caught by the teeth of the saw and torn from the seed, which cannot pass through the narrow opening; the wool thus obtained is brushed off the revolving saws, and carried along by the wind evolved by the brushes through a long mouth of wood, the floor of which receives such dirt and dried leaf as this current of air may set free.

The saw gins made by the Indian Government were generally small, with only 25 ten inch saws, capable of being kept in motion by two men, who could thus clean without any great exertion several hundred pounds weight in a day. The cotton thus cleaned was obtained at a great saving of time and expense, and also with a much less discolored appearance; but experience soon showed that what the cotton gained in appearance it lost in another way, for the Indian cotton was so short and delicate in staple that the saws cut it away instead of tearing it from the seed.

After the first year, saw ginned cotton realized no better price in the Liverpool market than the article cleaned in their old time-honored way, so that the English merchants at the Presidencies were discouraged in their endeavors to second the patriotic efforts of the Government; and the natives would not adopt the new method on finding that if they missed a sale for exportation, their stock was useless, as the cutting received in the gin rendered it quite unavailable for home consumption in their rude spindles and looms. Their objections to the "Belatic Kaum"—English machine—was not to be overcome, when the Governor found it absolutely necessary to make some

small charge towards defraying the enormous expense of the establishment, which, however, was soon reduced by the return of the American planters to their own country, from whence it was an expensive mistake ever to have taken them. At last, Government ceased their exertions in this direction and the saw gins were idle or sold off to a few enterprising men, hopeful of a gradual introduction of the stronger American plant, or willing to save the price of labor at the cost of the staple.

Thus you have explained the inferiority of Indian cotton, compared with American; but even were it much better than it is, there are one or two grand obstacles in the way of supplying Manchester with the quantity there consumed. The first is the deplorable lack of the means of transport from the cotton districts to the seaboard. The Grand Trunk roads of India are the finest in the world. The far-famed Bath road in England is in no degree superior to the 1,400 miles of road which unites Calcutta with the Northwest and Bombay; but produce has to be conveyed in some instances many hundreds of miles by cross country roads of the most execrable character before the Trunk road is reached. And these bye-roads for many months in the year are rendered impassable for produce, owing to the heavy periodical rains rendering the ground a sponge and the summer rivulet a roaring torrent. India, it is true, possesses canals of gigantic proportions, of which I shall speak presently, but as far as the great cotton growing districts are concerned, there is no water communication whatever, and no means of The other grand obstacle in the way of a larger supply I cannot so readily explain. If, as has been the case on several occasons, the American cetton crop be short, or a scant supply be anticipated, the despised Surats are immediately in request, and prices rise accordingly in Monchester and Liverpool, causing a corresponding effect in Bombay and Calcutta. creased breadth of land is sown with cotton in consequence of the high prices; but before the crop is ready, the European market has faller, and the unfortunate ryot, always poor, and generally in debt, finds to his dismay that there are no purchasers for his cotton, which in all probability may be the only crop on his s all farm of two or three acres. This has happened as I say more than once, until sad experience has taught the ryot that no dependence is to be placed on the appearances which formerly induced him to extend his small operations in the cotton line.

Of course this fall in price every article is liable to, and it would have a similar effect on the Indian farmer, whatever the produce might be. Their holdings are so small and their earnings so trifling that the merest fractional difference is intensely felt by them.

But I must linger no longer on this, to me, familiar subject. I should not have allowed it to detain you so long, did not the remarks I have felt called upon to make apply with equal force to other Indian exports.

Sugar is an article that might be raised in any quantity in Hindostan. Indeed, the exports of this necessary of life are enormous. Last year there was imported into the United States upwards of two thousand tons of Bengal sugar. Now, I am not, of course, aware as to the value of the article

in this market, but I know that in Khandes, the district in which I resided, a good, clean, wholesome looking sugar could be purchased wholesale at something less than one penny sterling per pound. Rice, about half that price in the districts, where it is raised, is increased in cost enormously by the difficulties of transportation. As an illustration of this increased expense, I found that, sending cotton to Bombay from a place 250 miles in the interior, in carts, well packed and carefully covered, was a larger item in the cost than all the subsequent charges from the time it reached Bombay till it changed hands in Manchester. If there were railroads in India, the internal trade would increase enormously, and her exports would be limited only by the wants of the rest of the world.

Opium is an export from India that deserves, like cotton, a more lengthy notice than my time will afford, for the many articles here enumerated. You are all aware that opium is the hardened juice of the poppy, and that, manufactured in India, it is sold to the Chinese; but it may surprise some to learn that the revenue derived from the export duty, is more than double the entire revenue of Canada, amounting to the large sum of two and a half millions of pounds annually, collected at the port of shipment, by a tax of two hundred dollars per chest, of 149 lbs. weight.

This trade with China has always been contraband, never having been legalized by the Chinese authorities. The East Indies claim the credit of never having trafficked in the drug, the smuggling having always been in the hands of private adventurers; but you will probably think that, if the Government be content to derive such a revenue from the article, they should share the blame attached to its sale.

In truth, the only excuse I have ever heard offered for this infamous trade is, that the Government of India would be bankrupt, were there a stop put to it, and this revenue consequently diminished by one-seventh. But, surely this plea of expediency is not becoming in a nation who paid, cheerfully, twenty millions for the liberation of their slaves.

Opium is the basis of all the mercantile gambling in India. It will not be uninteresting, probably, to hear something of one of the great merchant princes of Hindostan, most deeply engaged in this trade. In the year 1845 or '46, Ram Lall, of Jyepore, in Central India, made extensive opium contracts with the Bombay dealers for delivering, on a certain day, the price to be fixed by the ruling of the Government, opium sold by auction in Calcutta on a fixed date. When the advices of that particular day's prices reached Bombay, the dealers in than city were astounded-were, indeed, panicstricken; the price was found to be 75 per cent higher than was ever before known: and yet they were under enormous contracts at that exorbitant rate. The truth was soon understood. Ram Lall had himself run up the prices in Calcutta, by employing agents on the spot to bid against one another. action was brought in the Supreme Court against Ram Lall, on the grounds that his dealings were gambling, not in leg timate trade. From this Ram Lall appealed to the Judicial Committee of Her Majesty's Privy Council, by whom the Bombay verdict was reversed, and Ram Lall declared to be entitled to damages exceeding one million sterling. The wily marwerrie knew well that it would be hopeless to attempt the collection of such a sum, and that the endeavour would entail ruin on his best customers, so he actually wrote them, that he would carry to profit and Less account the whole amount of his claims, if they would individually appear before his vake for agent in Bombay, and lay at his feet their turbans in token of humble submission. This was joyfully done by all but the proud old Parsee Knight, Sir Jamesetjee Jeejeebhoy, who refused such humiliating terms, preferring to pay the uttermost facthing. This idea of Ram Lail's may well be called a new way to pay old debts. I wonder how it would answer here? I fear some of us might as well go without a hat, it would be off so frequently.

This man Ram Lall is perhaps the most influential native in India; he is by trade a Sheriti and Banker, and has agencies in all the principal cities of the continent. Like many other of our mercantile arrangements and customs, the system of remitting money from one district or from one country to another, is of eastern origin and of very ancient date. Banking and exchange are as well understood in Central India as in Treadneedle or Wall streets; no sharper, shrewder, or better informed business men are to be found in the world, than the Parsees of Bombay, the Marwerries of Central India, or the Circais of Calcutta.

In the ports of Calcutta, Bombay and Madras there are numerous English firms of high standing and great reputed wealth, but I believe no extensive business has ever been car ied on without the co-operation of a wealthy native trad r, either openly as a partner, or ostensibly as a cashier. cutta many firms gazette their native partners, but in Bomba the other system prevals; and when I was there, one Parsee gentleman was cashier to three of the most extensive firms on the Western coast. The duty of these Burmeshes, Shaffs, or Circars, as they are called, consists in finding the cash for the business of the firm, endorsing their paper and giving guarantee on commission for the up country dealers purchasing European goods. latter is an absolute necessity for extensive merchants in the East. of the most remote countries be dering on our Empire come to Bombay as purchasers. Dealers from Persia, Kohistan, Affghanistan or Bel ochistan, jostle against the Arab and African Merchants in the sale room of the English trader, and to such a pitch—some might call it to such a perfection—has the credit system been carried that the Parsee broker will as readily sell to a dweller in Zanzibar, Muscat or Cashmere, as to his next door neighbor. You will perceive how very rarely an European would possess such a knowledge of these distant markets as would justify sales to the unknown men arriving from thence. But the native brokers with the foreigners' credentials in his hands will gladly guarant e any purchases they may make for a commission of 21 per cent. Nothing is more surprising than the intimate acquaintance with the whole Eastern world possessed by these men. An extensive trader or broker has agents in every port and in every town with which it is possible to do any trade, and is kept constantly posted on the state of the markets, &c.; and no dealer can arrive in Bombay or Calcutta without a detailed account of his character and position being received from these agents.

There is a very prevalent notion with Englishmen that the great trade of India is with us; nothing is further from the fact. As I told an audience here a few evenings ago, Indian trade was great and flourishing when Roman proconsuls were taming down our savage ancestors. Indian commerce has not declined; it has extended its ramifications over the whole world. Thirty years ago the exports from India into the United States was trifling in amount; now they reach to twenty indian trade with China had no existence, now it amounts to forty millions of dollars. Of course, the direct trade between England and her great dependency in the east is enormous; having increased from 2½ millions sterling in 1813 to 80 millions sterling in 1856; but these figures only represent a portion of Indian commerce. The whole of Central Asia receives her tropical supplies from Hindostan. Caravans laden with wool and gums travel many hundred leagues to exchange and return on their weary road with the coffee, sugar and spices of our possessions.

No estimate, with any pretensions to accuracy, can be made of the entire trade of India; but one thing is well known, that it is absorbing the whole bullion of the world. Many years ago, Mr. Newmarch, the great authority on the subject, estimated the balance of trade in favor of India, at the annual value of ten millions sterling, and added his belief that, large as was the sum, it was not more than sufficient to meet the loss by abrasion, &c., sustained by the bullion already in the country, which, as I have said, he placed at four hundred millions sterling—two thousand millions of dollars!

I cannot help believing that this estimated loss is somewhat exaggerated; and yet the sun, large as it appears, is only a shilling sterling for each of the two hundred millions of population, among whom the fondness for gold and silver conaments amounts to a passion. To such an extent is this carried, that the wives and chill run of laborers, and servants, earning one and a half to two dollars a month, never appear in public without a tarlee on their necks, or bangles round their arms and ancles. The tarlee is a kind of necklace, which like a ring with us, is put on at the time of marriage. The men sometimes assume wedding rings, but they prefer to decorate, what a New England lady would call, "their pedal terminations," the great toe of the right foot being the favorite.

Children of wealthy parents, on festive occasions, are so laden with golden treasure, as scarcely to be able to stagger along; and this silly custom has proved a faultful source of robbery and murder. I remember that, a good many years ago, in the execution of my duty, I had to witness the hanging of a woman for the crime of child murder, for the sake of the ornaments. When she was brought out to the foot of the fatal ladder, I heard a loud sobbing from one of the native policemen on duty. On enquiring the cause of such a very unusual exhibition of feeling, I was told that the woman's husband was one of the force. The serjeant, in reply to my reprimand for inflicting such a duty on a husband, replied that it was at the man's own express wish that he was so situated. Just as the information was given, the woman cried out to her husband, "Bappro, come here." He stepped for-

ward; then she said, "Look in such a part of the roof of your hut, and you will find such and such gold ornaments." Then she stopped, took one step up the ladder, and continued, "and in such another place you will find so much gold;" and as she advanced step by step to meet her doom she disclosed a perfect mine of hoarded wealth to her now evidently consoled and almost smiling Bappro, who was not, however, allowed to profit by the discovery, as the hut was pulled down, bringing to light a marvelous quantity of children's gold and silver ornaments, obtained by the wretch during a murderous career of twenty years, and which the Government sequestrated.

(To be Continued.)

TEXTILE FABRICS OF THE ANCIENTS.

The clothing of the human race is an interesting subject of inquiry, and if "fine linen" now holds but a secondary place in some respects; it once held a proud place among textile fabrics.

The Greeks and Romans are but moderns when compared with the Egyptians and Assyrians. The fashious of Puaraoli's court, and the luxury of Sardanapalus, bore little analogy to the stately extravagance of George IV. or of Louis Quatorze. But unless, as Byron suggested, some future age should actually disentomb George IV. and his courtiers, posterity probably will be puzzled as to Brussels lace with the same doubts which perplex writers on ancient linen. When Lucius Lucullus invited his friends to supper in the Hall of Apollo, had he a shirt to his back ! When lovely Thais inveigled the philosopher, had she a cambric handkerchief? The learned say that Alexander Severus was the first emperor of Rome who wore a shirt, at least in our sense of the word, for everybody had an indusium. And here we are fairly plunged in the ambiguities of language, and we shall not easily emerge The Roman subuenta, the under tunic, was made of linum. Was it linen or calico? Curtis uses linum of cotton and cotton cloth. In Yorkshire they eali flax "line;" we moderns have restricted the word "linen" to the fabric made from flax. We may remark in general that the more deeply we dive into antiquity, the more completely isolated we find mankind, in their arts and luxuries, in their religion and in their government. Clothing was one of the prime necesities of life, and different races of men have clothed themselves with various materials; the Chinese kept silk-worms, and from time immemorial have worn silk; the natives of hindestan cultivated the cotton tree, and consequently have worn calico; the Syrian, the Iberian, the Gaul, made garments of the skins of beasts; nay, the ancient Spaniard, and all that maritime population which dwelt on the shores of the Bay of Biscay, used leather for the sails of their ships. When Lucian, who was a Syrian, describes Timon in his poverty, he dresses the misanthrope in a dipthera, or leathern garment. Linen would have been unsuited to the poverty of Timon. Thus, even to modern times, while mankind live apart, natious are distinguished by their clothing. The native fabric of Otaheite was the tappa, made from the bark of trees, but Queen Pomare, although like Penelope, skilled in the indigenous manufacture, preferred for herself an English cotton gown. At Manilla they make muslin from the fibers of the pine-apple; in New Zealand flax is in use, but the New Zealander does not employ the loom—he plaits the fibers into a square mantle for the chief.

So it is everywhere; the domestic production is cheap, the imported goods costly, and therefore valued. Thus linen, which so slowly made its way among the rugged Romans, was in more than one country the habiliment of females, of the luxurious, nay of the gods, and their attendants. days of old Homer, the wife of Ulysses superintended the spinning, but it was wool which her maids spun. Doubtless she had linen among her stores, but it was linen imported from Egypt, with which a trade already existed. Whether Penelope had not even some calico, may be doubted; for, if cotton was not yet cultivated in Egypt, it was brought from the East in caravans. The wares of China have been found in the Pyremids, and a portion of those of India, might have been there also. It is not at all unlikely that the rigging of the Grecian fleet which went to Troy, was supplied from Egypt; for at a period long subsequent to that expedition, we find Egyptian sailcloth made from flax, enumerated among the commodities for sale in the Tyrian marts. (Ezekiel xxvii., 7.) The manufacture of ropes from the same material, is a frequently recurring subject of those truly immortal designs which illustrate Egyptian arts.

Here we are, thon, on the early traces of the East Indian trade. It was carried on partly by ships from the Malabar coast, and partly by caravans arriving at the Euxine Sca, or passing down through Syria to Tyre, or even to Egypt. In the age of Homer, we find a Mediterranean trade in iron flourishing in full vigor. When Talemachus inquires of Mentor whether he was bound, the Goddess in disguise, informs the prince that she was conveying iron to Brundusium, where she would take up a return cargo of copper Doubtless the other goal of this voyage was on the coast of Pontus. Chalybes, or Chaldens, were famous for their iron-whether they got it from the higher Asia, or forged it themselves. At all events, this track was one of those by which Asiaic goods found their way into Europe for centuries. In the age of Pliny, iron came from the Seres, in company with wearing apparel and skins. But the earliest certain indication of the arrival of cotton in Europe is given by Herodotus. He relates the gift by Amesia, King of Egypt, to the Lacedemonians, of a linen corslet ornamented with gold and cotton, B. C. 556. The embroidery on this corslet, whether executed with the needle or the loom, was a triumph of Egyptian art. Devices of all kinds, more especially of a religious character, were produced by the Egyptian erafismen, who wrought, according to Julias Pollux, with a warp of linen and a woof of cotton, or with colored thread, or gold. According to Pliny, whose information as to their operations was most accurate, they were fa-"In Egypt," he says, "they produce m liar with the use of mordants. colored delineations with marvellous skill, not by applying the colors to the fabric, but drugs which take up the color. After the drug is applied there is no visible result; but t e cloth, once plunged in the seething bath, is raised again partially colored. And mavellous it is, when there is but one color in the vessel, how a succession of hues is given to the robe, produced by the quality of the drug which calls them out; nor can they be subsequently effaced by washing."

It was probably against this delineation of patterns ingrain that the prohibition of the Mosaic law in Leviticus xix., 19, and Deuteronomy xxii., 11, were directed. The Israelites were to be withheld from luxury; that is the point of many of their institutions; their strength consisted in their simplicity. But, moreover, they were to be preserved from the symbolism of Egypt. The embroidered rpresentations of Egyptian gods were as hateful to Moses as the more permanent images in wood or stone.

Here, then, we have arrived at the great flax growing country. Egypt the Greeks derived the manufacture of linen. But was all the linen which the Egyptians sold made from flax? More than one author has gone the length of asserting that the linen garments of the Egyptian priesthood, no less than the mummy wrappers, were all cotton. This notion counts among its partizans the well known names of Forster, of Tremellius, and of Dr. Solander. Rouelle, in the "Memoirs of the Royal Academy of Sciences at Paris in 1750," says that "all the mummy cloths without resinous matter, which he had examined, were entirely of cotton; that the rags with which the embalmed birds are furnished forth, to give them a more elegant figure, were, equally with the others, cotton." "Was the Egyptian flax cotton after all?" he asks, " or was cotton consecrated by religion for the purposes of embalming?" The inquiries carried on at the British Museum led to the same conclusions as those arrived at by the Frenchman. But the more recent microscopical investigations of Bauer and Thompson have overturned all these speculations. The fibers of linen thread are said by these more recent inquirers to present a cylindrical form, transparent and articulated, or jointed like a cane; while cotton offers the appearance of flat ribbon, with a hem or border at each edge. It has, indeed, been suggested that the ripeness of the cotton might affect the condition of the fiber, or that the ancient mode of treating the plant might give the Egyptian flax an appearance not presented by European specimens. Yet, although Philostratus expressly afarms that Calico was exported from India to Egypt for sacred purposes, the balance of opinion has inclined to the belief that all the cere-cloths at least were of flax.

As our enquiry leads us from the shores of Greece to the banks of the Nile, the language in which the subject of discussion is expressed is radically changed. In Egypt we are in contract with a Shemitic dialect. The Teutonic word "linen" disappears. The Greek in, purchasing a foriegn commodity, had learnt the word bussos, and he has given it to the Romans as "byssus." But in the Shemitic dialects we meet with half-a-dozen words which may all mean linen or cotton, and whose significations has been abundantly disputed. No doubt these words had originally different significations; but eventually they were all confounded together. The account of the corslet presented by Amesis, if there were no other evidence, would prove that the Egyptians had cotton under the Pharaohs. The very phrase fo

cotton, which we find in the mouths of the Greeks and Romans, viz., linen of the tree" or "woollen of the trees" we find in the book of Joshua ii., 6. But "byssus" seems to have been selected as the name of the material specially destined for sacred rites. It certainly is the term which Herodotus employs in speaking of the mummy wrappers. But had the father of history another word in use, intelligible at least to Greek ears? On the other hand if bussos meant linen, why did he choose the foreign word? Byssus evidently had a special adaptation to his subject. That the Jewish byssus had a more yellow tint than the plant cultivated in Elis may be inferred from a passage in Pausanias; but the etymology of the word leads us to surmise that the name implied peculiar brilliancy and whiteness. Theocritus, who enjoyed the favors of Ptolemy Philadelphus, and may be supposed to know the appropriate name for the material used in Egyptian rites, represents one of his female characters as attending a procession to the grave of Artemis in a tunic of byssus.

But if we are in doubt as to the native names for the various sorts of Egyptian linens, the mummy wrappers leave no uncertainty as to the excellence of the workmanship. The interior swaths are indeed coarse; but some of the exterior bands vie with the most artistic productions of the modern loom.

The peculiarity of the Egyptian structure is a great disparity between the warp and the woof; the warp generally containing three or even four times as many threads as the woof. This disparity probably originated in the difficulty of inserting the woof when the shuttle was thrown by hand. To give an idea of the fineness of the Egyptian muslins, we may remark that the yarns average nearly 100 hanks to the pound, 140 threads in the inch to the warp, and about 64 to the woof. Some of the cloths are fringed at the end, and remind us of the garments prescribed to the Jews in the Mosaic law. (Numbers xv., 38.) Several specimens are bordered with blue stripes of various patterns. Had the patterns, instead of being confined to the edge, been extended across the structure, they would have formed a modern gingham. The Nubians at the present day rejoice in similar shawls. The dresses in the Egyptian paintings, descriptive of women of rank or of deities, resemble our chintzes.

Such was the ancient linen, the staple commodity of Egypt. She exported it in Phænician bottoms to the Mediterranean ports. It was not all made of flax. Both Pliny and the Rosetta stone testify that the calico was in especial favor with the priesthood; but their partiality for the more modern material was not strong enough to break through ancient customs. The experiments on the mummy cloths corroborate all which we know of Egyptian conservatism. For religious purposes the flaxen texture was rigidly demanded.

JOURNAL OF BANKING, CURRENCY & FINANCE.

Monthly Averages of Canadian Banks.

Bank of British North America and Gore Bank not included.

		. 010 21/100/ 11/16	what Grove I	ounce not inci	uueu.
Date. 1857.	Capital.	Discounts.	Specie.	Circulation	Deposits.
March 31.	\$16,119,187	\$33,927,218	\$2,025,715	\$11,338,376	\$8,306,435
April29.	$16,\!295,\!597$	33,232,219	2,145,249	10,859,571	8,507,157
May 31.	16,844,834	32,470,986	2,114,084	10,226,624	8,795,06 5
June 30.	17,246,140	32,307,199	2,210,933		
July 31.	17,924.667	32,243,981		10,511,876	9,650,326
Aug. 31.	18,092,888		2,262,167	,	8,625,924
Sept. 30.	18,044,701	32,931,843	2,272,310	10,777,358	8,621,015
Oct. 31.	10,044,101	33,968,627	2,024,081	11,507,205	8,837,278
Nov. 30.	17,887,692	33,082,530	$2,\!135,\!270$	10,711,813	8,142,254
Dec. 31.	17,940,354	31,273,693	2,553,435	9,866,435	7,455,129
	17,991,288	30,745,735	2,217,237	9,157,976	8,137,484
Jan. 31, 1858.		30,468,213	1,982,688	8,450,573	
Feb'y 28.	18,057,669	30,758,657	2,042,757	8,477,114	7,251,386
Mar. 31.	18,071,775	30,921,803	2,004,000	8,352,030	7,249,846
April 30.	18,132,587	30,713,550	1,929,948	8,348,410	7,793,577
May 31.	18,165,652	30,068,176	2,107,873		
June 30.	18,326,020	30,279,684		8,057,114	7,614,409
July 31.	17,757,635		2,152,236	8,188,288	9,159,327
August 31.	18,448,710	30,300,069	2,075,230	8,438,313	8,616,399
Sept. 30.	10,440,710	30,351,386	2,209,045	8,688,356	8,436,413
October 31.	18,513,362	30,578,385	2 ,451,875	9,882,725	8,056,070
Novem. 30.	18,607,010	31,365.829	2,469,191	10,571,047	8,880,820
Decem. 31.	18,639,446	31,474,245	2,496,732	10,104 005	9,434,110
~ Journ. 31.	18,857,962	31,837,132	2,567,069	9,833,706	9,134,362
		• •		2,000,100	0,104,004

Business of Canadian Banks, 1858.

BANK OF UPPER CANADA.

	Capital.	Circulation,	Deposits.	Specie.	Discounts.
Jannoss	<u>«</u>	CP CP		•	\$
February.	3,110,250	2,306,947	3,015,571	336,497	7.227.823
March	,110,250	2,306,947 2,132,526 2.081.739	1,868,721	347.535	7.067.024
April	3,112,875	2,132,526 $2,081,739$ $2,165,550$	1,798,165	337,939	7.005.421
May		2,081,739 2,165,550 2,123,894	1,841,381	280,490	6.939.254
June	3,114,430	2,165,550 $2,123,894$ $2,108.925$	1,865,173	327,445	6.704.674
July	3 117 045	2,123,894 2,108,925 2.278.122	3,137,347	401,952	7.023,508
August	3.119 25 2	2,108,925 2,278,122	2,709,687	369,862	7.014,309
Septembe	r.3.118 00g	2,278,122 2,271,421 2.399 690	2,068,448	411,525	6,920,898
October	3.119.845	0.0002,271,421 $0.0002,271,421$ $0.0002,271,421$ $0.0002,271,421$ $0.0002,271,421$	1,915,070	494,410	6,800,185
Novembe	r.3.120.255	···· 2,399,690 ···· 2,605,319 ·····2.574.583	1,970.016	466,714	6,956,540
December	3.120.680	···· 2,605,319 ·····2,574,583	2,107,096	384,439	7,121,977
	,,	2,574,583 2,477,468	2,200,199	442,191	7,245,650

QUEBEC BANK.

September991,5301,926,852 October991,5301 957,602	159.240	569.148	501.529
October991,5301,926,852 November991,530	181,973	601,692	500,056
November991,530	756,550	204,892	2,023,245

CITY BANK, MONTREAL.

		OIII DANII, MOI	TREAD.		
	Capital.	Circulation.	Deposits.	Specie.	Discounts.
	\$	\$	* \$	* \$	8
Jannary	1 177 440	$456,05\overline{2}$			
Fohrus	1 177 440	448,385	550 777	207 641	1,049,020
Manalary	.1,111,440			170 970	1 022 509
marcn	.1,177,914	483,339		147 719	1.050,004
April	.1,178,968	476,639	575,748	147,712	1,976,158
Мау	.1,178,968	473,163	643,640	165,234	1,911,019
June	.1,186,544	500,799	639,523	173,017	1,956,552
July	,187,744	476,548	656,386	216,859	1,938,014
August	.1.190.144	480,552	657,164	187,374	1,932,470
September	.1.190.320	530,895	650,738	196.945	1.949.814
October	1 190 368	558,359	653.927	178 098	1 967 736
November	1 100 368	526,159	765 005	203 486	1 954 650
December	1 100,000	**************************************	792 005	220 100	1 021 906
December	1,196,248	518,693	1 45,000	238,100	1,931,290
	В	ANQUE DU PEUPI	LE, MONTREAL.		
				105 530	1 00 / 100
January	921,815	317,483	. 469,928	. 102,530	1,624,106
February	922,750	310,906	468,585	99,409	1,644,200
March	932,775	326,0617	421,136	75,220	1,655,04
April	936,035	320,089	492,288	92,222	1,673,342
May	936.875	296,425	469.315		1,644,593
June	943 390	279,380	517.460	142.630	1.649.441
Tulm	044 195	276,891	594 775	121,769	.1 708 581
August		286,196		104 704	1 752 200
September	958,660	356,465	942,504	142 500	1,000,200
		423,894			
November	963,250	371,444	515,113	.118,380	1,818,709
December	968,320	340,525	585,836	. 134,581	1,792,732
		MOLSON'S BANK,	MONTREAL.		
		•			
January	747.183	265,882	277,455	. 85,462	978,231
February	747.963	360.082	295.094	71,204	1.118.495
March	748 463	359 397	298 998	72 276	1 559 385
Annil	700,202	359,397 331,962	326 536	71.450	1 169 691
April	701 242	400 540	999 965	104 287	1 009 224
May	191,343	298,728		104,301	1 095 1 50
June	792,323	285,491	315,439	100,001	1.070.749
July	820,963	276,431	. 342,539	.106,826	1,070,743
August	825,643	319,204	428,328	.123,165	1,111,233
September	. 849.643	405,053	372,483	135,964	1,198,800
October	. 891.320	514.342	376,894	. 123,200	1,396,074
November	896.520	450,346	366,704	,011	1,350,465
December	904.260	428,160	386,492	.129,510	1,334,957
			•	,	7
		n 07 ff	N ON MO		
		BANK OF TO	JRUATU.		
Taniiary	417 465	391,771	137.816	88 495	672 979
Tohmary	421 270	298,963	140.368	98 629	654 819
repruary	499 910	272.068	127 12)	00,020	817 223
March	400.750	273,068	120 020	04,104	040.007
April	400,000	268,944	111 202	85,242	040,261
May	426,230	250,731	111,386	72,842	047,454
June	427,290	252,873	139,697	77,418	643,085
July	430,440	253,280	173,588	93,695	634,905
August	434,220	264,345	193,382	87,143	646,886
September	455.140	338,245	206.341	101,190	780,247
October	459.060	430,999	227.562	103,603	851.547
Maranhan	461 120	434,432	216 456	104.947	835 968
Describer	400 400	418,292	965.024	109 179	994 209
necember	403,490		400,034	100,144.,	

Journal of	Banking, Oa	rrency, unu	r inance.	31
	COMMERCIAL	RANK.		
Capital.	Circulation.	Deposits.	Specie.	Digeo
s -	%	@	@ _	Discounts.
January 3,750,8601,	237,7401	139.009	358.426	. 5978 see
- vorual yo, 101,000	440,100	075 972	386 986	6015754
	400.471	120 127	494 135	6 001 107
July3,885,5201,3	24,998	924 018	394,079	5,539,988
August3,886,000 1.3 September3,886,000 1.7 October3,910,000 1.7	59,247	961,098	444,822	5,623,400
October 3 910 000	19,153	927,899	403,022	5,734,873
October3,910,000 1,5 November.3,910,000 1	[14,785 1,]	131,630	424,881	5,790,056
November.3,910,0001,6 December.3,910,0001	534,2101,	314,685	494,169	5,886,018
December3,910,0001,	382,8121,	207,757	464,591	5,955,535
	BANK OF MONT	TREAT.		
January5,744,800	212 500 0	991 700	608 909	0 202 04]
April5,759,3202, May5,759,3202	338.7772.	751.292	695 394	9 612 055
May5,759,3202, June5,832,6402	233,8242.	582.860	700.422	9 903 638
June5,832,6402, July5,844,360,2	323,7102,	614.671	625.469	9.476.888
July5,844,3602, August5,846,1802	297,3072,	619,343	704.705	9.517.747
August5,846,1802, September.5,847,4802	422,3732,	888,815	705,369	9,506,606
September. 5,847,4802, October5,850,7802,	670,1602,	826,006	788,373	9.433,008
October5,850,7802,8 November.5,851,5602,6	346,6653,	177,786	784,051	9,507,464
November. 5,851,560	398,3813,	102,809	788,496	9,448,296
December5,913,1402,	684,2802,	975,132	716,835	9,694,628
February 183,154 189,431 March 191,262 April	161 400	22,024	14,888	253,519
101 000	4 4 2 2 2	10,020	· · · · · 4 · · · · · · · · · · · · · ·	
			31,632	327,114
203 343	107 000	20,001	,,,, I O' I OO '''	
oune209.607	110 700		*********	290,238 315,554
			23,100	369,304
	1361051		30.017	368,309
~ · p · c · m · c ·	104 003	M a	29.157	385,291
			30.959	447,794
		74,313	···• 45.760	439 600
December309,548	211,847	76,071	36.945	445,756
January	DISTRICT BANK,	ST. CATHARIN	ES.	
January227,165 February227,265	.175,941	56.273	27 411	407.070
February 227,165 March 227,475 April	.173,250	77.177	26.821	407,979 410,663
March227,475	.167,500	88,978	20,447	416,690
April221,475 May227,575 June 227,755	.173,267	66,950	21.241	416,436
July 248 227		12,130	24.076	437,795
244K486	,	00,012	13.034	*** ******
~срисшрег 249 131	,	, , , , , , , , , , , , , , , , , , , ,	40.000	*** ******
October 250 228	0.5	~,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	4U,IUT*****	· · · · · · · · · · · · · · · · · · ·
250 243	040	00,001	41,701	··· 927.988
November250,243 December250,243	.213 820	59,828	21,686	472,983
December250,243	,040	79,662	21,080	459,713
December	INTERNATIONAL	BANK.		
December100,000	27,000	6,916	15,366	69,743
				:

STATEMENT OF BANKS ACTING UNDER CHARTER

	CAPF	FAL.		LIABI	LITIES.	
NAME OF BANK.	Capital authorized by Act.	Capital paid up.	Promissory Notes in circulation not bearing interest.	Balance due to other Banks.	Cash Depos- its not bear- ing interest.	Sash Deposits bearing interest
Quebec Bank	\$ 1,000,000	\$ 991,530	\$ 540,553	\$ 69,980 43		\$174,538 69
City Bank of Montreal.	1,200,000	1,195,248	518,693	28,516 79	431,907 74	291,168 86
Bank of Montreal	6,000,000	5,913,140	2,684,280	87,177 73		974,577 81
Commercial Bank	4,000,000	3,910,000	1,582,812	80,097 63	994,418 21	213,339 48
Bank of Upper Canada.	4,000,000	3,120,680	2,477,468	946,961 02	2,003,222 42	196,977 58
Banque du Peuple	1,200,000	965,320	340,525	63,227 60	315,779 31	270,057 13
Molson's Bank	1,000,000		428,160	64,902 94	323,166 19	63,326 71
Niagara District Bank.			213,820	10,748 62	60,162 40	19,500 95
Bank of Toronto			418,292	29,552 17		198,776 98
Ontario Bank			211,847	7,865 33	76,071 83	
nternational Bank	1,000,000	100,000	27,000		6,916 21	
Total,	23,400,000	18,127,459	9,449,451	1,388,970,26	0,677,082 72	2,402,284 14

Statement of Assets and Liabilities of Banks issuing Notes under the Free

ASSETS. Debentures Debts due by deposited Furniture other Banks. Bills. NAME OF BANK. with the Real Estate. and and Notes of Discounted. Receiver other Assets other Banks. · General. cts. cts cts. cts. cts (a) Bank of British N. America. . 478,833 33 (b) Niagara District Bank..... 11,670 00 Molson's Bank..... Provincial Bank..... 140,000 00 100,000 00 1,000 00 2,555 81 25,675 48 Bank of the County of Elgin

1,000 00

1,328 00

3,883 81

7,915 40

7,915 40 122,034

96,358 81

730,503 33

CHAS. CAMBIE, Registrar. January 1859.

Total.....

Issues \$1 and \$2 Notes only under the above Act. Withdrawing its circulation under this Act.

FOR THE MONTH OF DECEMBER, 1858.

				ASSETS.			
Total Liabilities.	Coin and Bullion.	Landed or other Pro- perty f the Bank.	Government securities.	Promissory Notes or Bills of other Banks.	Balance due from other Banks.	Notes & Bills discounted & other debts due to the Bank not in- cluded under the foregoing heads.	Total Assets.
\$1,189,696 04 1,270,306 39 5,740,531 56	\$234,218 06 239,100 73 716,835 55	\$14,945 40 34,000 00 357,471 19	196,038 35 688,264 00	\$37,615 41 100,096 40 223,357 93	116,653 19 127,488 96 883,946 00	\$ 1,900,775 47 1,931,296 50 9 694 628 59	2,628,020 94 12,564,503 26
2,870,667 32 5,624,629 27 989,589 04 879,555 84 304,231 97	442,191 75 134,581 96 129,510 91	219,314 77 55,952 17 20,513 85	322,224 33 101,542 05 200,000 00	160,991 0a 37,879 09 48,735 40	461,187 42 684,873 90 38,170 68 109,707 95 55,816 33	7,245,650 35 1,792,732 10 1,384,957 05	2,160,858 05 1,843,425 25
712,850 07 295 ,784 41 33,916 21 19,917 ,788 12	109,122 07 30,945 99 15,366 46	6,646 98	102,400 00 37,300 00 10,000 00	26,366 07 11,345 75 8,977 00	116,104 17 84,837 49	864,309 76 445,756 78 69,743 78	1,238,392 07 622,832 35

JOHN LANGTON, AUDITOR.

Banking Act, to 31st Dec., 1858, (13th & 14th Vic., Chap. 21, &c., &c.)

				ri	ABILITIES		
Debts due by Individuals.	Specie in Vaults.	Total Assets	Notes in Circulation.	Deposits.	Debts due to other Banks.	Other Liabilities.	Total Liabilities.
\$ cts. 99,821 99 4,313 16 164,135 15	\$ cts. 5,988 72 17,556 03 23,524 75	478,833 33 11,670 00 275,022 00 227,471 40	\$ cts. 184,887 00 11,667 00 134,472 00 53,229 00 384,255 00	\$ cts. 550 00 54,446 74 54,996 74	\$ cts. 15,356 79 15,356 79	\$ cts. 1,410 06 1,410 08	184,687 00 11,667 00 135,022 00 124,442 59

JOHN LANGTON.

(From the New York Herald.)

THE FINANCIAL CONDITION OF THE WORLD.

THE PRESENT PUBLIC DEBT AND PROBABLE LOANS.

The peculiar position of the Treasury at the present time, the increase of the public debt, and the falling off in the revenue, all of them the unprofitable legacies of the Pierce administration and of the financial revulsion of last year, have placed the President, the Secretary of the Treasury and Congress in a dilemma, out of which it is not easy to see the best way to extricate themselves for the benefit of the country. But one thing is certain, that the revenue will have to be increased by some devise, either upon the President's safe system of specific duties, or the loose ad valorem principle of the Secretary of the Treasury.

A glance at the financial condition of the leading States of Europe and America reveals some strange and startling facts, as the result of a few years transactions. First, we find that the European States have been accumulating enormous public debts, the necessary consequence of an expensive aristocratic form of government, a hereditary nobility, and protracted costly wars. These debts amount in the aggregate to the immense sum of nearly ten thousand millions of dollars, and are apportioned as follows:

PUBLIC DEBTS OF EUROPEAN STATES.

Great Britain	\$3,876,563,473
France	1,606,398,494
Russia	1,043,414,123
Austria	1,208,420,090
Prussia	163,421,798
Spain	732,205,548
Portugal	100,366,319
Sardinia	135,404,045
Turkey	61,420,000
Bavaria	82,656,629
Belgium	121,150,000
Baden	17,211,536
Brunswick	7,224,296
Denmark	115,068,000
Frankfort	3,056,000
Greece	22,500,000
Hamburg	25,174,226
Hanover	34,659,778
Holland	480,595,339
Nassau	
Oldenburg	2,270,400
Parma	2,841,600
Roman States	66,471,294
Saxony	36,794,400

Saxe Weimar	4,233,408
Saxe Altenburg	1,702,000
Saxe Coburg Gotha	815,268
Sweden and Norway	4,384,300
Switzerland	None.
Tuscany	None.
Wurtemburg	21,451,816
Total\$	9.982.898.723

Compared with this extravagant shewing, the condition of the United States and the different States of the Union presents a less alarming state of financial affairs. The public debt of the United States is now over sixty-four millions, including the twenty millions of Treasury bonds, issued by the Secretary of the Treasury last year, while the aggregate debts of all the the States amounts to nearly three hundred millions; but it must be taken into consideration that each State is a principality in itself, and that every town and village in each has its own municipal debts to account for. These debts would, probably, not fall short of a hundred millions more. A tabular statement will show exactly how we stand in this respect:

Debt of the United States...... \$ 64,910,777

STATE DEBTS.

Maine									\$ 1,124,000
New Hamps	hire	,	•	•	•	•	•	•	None.
Vermont						•			None.
Massachusett		•	•	٠	٠	•	•	٠	
Rhode Island	1	•	•	•	•	•	٠	•	1,314,000
Connecticut	•		•			•		•	382,335
New York	•	•	•			•		•	None.
New Jersey	•	•	•	٠	•	•	•	•	31,483,258
Trew Jersey	•	٠	•	٠	٠	•	•	•	95,000
Pennsylvania	Ł	•	٠	•					39,268,111
Delaware		•							None.
Maryland									15,159,693
Virginia									29,899,512
North Carol	ina							•	5,208,848
South Carol	ina	-	Ċ		•	•	•	•	5,693,277
Georgia				-	•	•	•	٠	2,632,722
Florida	•		•		•	•	•	٠	
Alabama		•			•	•	•	•	167,000
Mississippi	•		•		•	•	•	٠	5,888,134
Louisiana	•		•		•	•	•	•	7,271,000
Texas .	•	٠	•	•	•	•	•	•	10,703,142
Arkansas	•	•		٠	•			•	None.
	•	•	•						2,524,345
Tennessee	•	٠	•						12,756,857
Kentucky	•	٠	•						5.574,244
Ohio	•								17,927,000
Michigan.		•							2,340,000

Indiana .								6,969,017	•
Illinois .				٠				11,138,459	;
Missouri .								19,602,000	1
Iowa					•	•		128,000)
Wisconsin			•					100,000	•
California								4,128,927	1
Minnesota								None.	
							_		\$239,499,875
Combined Aggregate								-	\$304,410,652 100,000,000
Grand	tof	tal							\$404,410,652

But it must be said that while the debt of the European and South and Central American States—for the most part the result of ruinous wars—are a dead weight upon their shoulders, our debts have been incurred mainly to develop the resources of the country—to construct railroads and canals, build up cities, and redeem the soil of the forest and the prairie—and however heavily they may press temporally upon the country or the individual States, they will one day bring forth rich fruits in a largely increased area of cultivated and peopled territory and material prosperity. It is true they have been unnecessarily increased by the wild speculation which preceded and produced the crash of 1837, and led to the subsequent repudiation of State debts.

The disastrous events which have been retarding the progress of Central and South America for so many years, have left them of course heavily in debt. The aggregate indebtedness of the leading States is over three hundred millions.

It is divided as follows:

PUBLIC DEBTS ON CENTRAL AND SOUTH AMERICAN STATES.

Bolivia									\$ 5,850,000
Brazil									73,277,250
Chili						•		•	8,500,000
Ecuador .									14,840,821
Guatemala .									1,200,900
Mexico									133,524,242
Peru							•	•	46,451,387
Venezuela .		•							22,865,620
Honduras .	•								350,000
Nicaraugua									800,000
Costa Rica									250,000
San Salvador			•	•	•	•		•	886 ,6 95
Total							 _		\$308,797,015

The total public debt of all the leading nations and States on this continent and in Europe would thus appear to be ten thousand six hundred and pinety-six millions one hundred and five thousands three hundred and ninety A large proportion of this has been accumulated within the present decade; and though in many of the European nations the capital may never be paid, still the annual payment of interest must be met, and it is a somewhat curious and interesting question to solve where the money is to come from. There can be no doubt that immense loans will be looked for during the coming year, and many are already proposed. It is seen that even this country has the considerable debt of sixty-four millions, whereas it was customary to have a surplus in the treasury of little less than that. Jackson's time a sum as large was distributed as a loan among the differenet States, some of which have never repaid it-Florida and Mississippi, for example, which repudiated the Union bonds altogether. Illinois has not yet acquitted herself of the liability, but she is doing so by degrees. The United States, then, to begin with, requires a loan this year of some thirty millions. England, of course, just emerging from the Indian war, must borrow money, and we should not wonder if one of the first acts of the new Indian government was to ask for a new loan of fifty millions to meet the expenses of the insurrection. Then Russia wants forty millions, and is now, it is said, negotiating with the Rothschilds for that amount. already proposes a loan, the amount of which is not stated, but we may put it down reasonably at fifty millions. In France the Emperor's design to establish a discount bank, with a capital of sixty millions, whereof half is to be loaned annually to the government, sufficiently indicates the financial condition of the empire; and as the deficiency in the Imperial treasury is about sixty millions of dollars, that amount, at least, will be probably asked So much for the great nations. We see, also, that Australia has issued bonds for thirty-five millions, to be raised within the next four years; and even St. Domingo is in the European market, endeavouring to negotiate a loan to pay the expenses of a war with Hayti. Here, then, are nearly three hundred millions to be raised this year. It may be asked what portion of that sum our capitalists can afford to furnish.

Looking now to the exigencies of the several States in the Union, we will find that many of them must borrow also, to complete their railroads, canals and other public works. New York must have at least eight millions and a half; Pennsylvania, Virginia, Missouri and Wisconsin are also in need of money. Kansas and the other new Territories, of course will require means to develop their rich resources. Minnesota asks for five millions, which the Legislature has voted for the railroad purposes of the State, and Massachusetts will probably require two millions more for the Hoosic tunnel.

Thus we have the following loans, which will, in all probability, be required at home:

	United St	at	es												\$30,000,000
	New York	•													8,500,000
	Pennsylva									_	Ī				5,000,000
	Virginia		•	:		•	•	•	•	•	•		•	•	3,000,000
			•	٠	•	•	•	•	•	•	•	•	•	•	5,000,000
	Missouri	-	•	•	•	•	•	•	•	•	•		٠	•	-, - ,
	Minnesota		-	-	٠	٠	•	•	•	•	•	•	•	•	5,000,000
	Massachus	et	ts			٠		•		•	•	,	•	•	2,000,000
	Wisconsin														4,000,000
	Kansas ar	ıd	oth	er	T	erri	tor	ies							8,000,000
	Total									_			_	_	\$47,000,000
			•	•	•	•	•	•	•	•	Ī		•	٠	φιήσου,σου
And	the follow	ing	, w	hi	ch	for	• eigi	n n	atio	ns	wil	l w	ar	it:	Ψ21,5000,000
	the follow	ing	, w	hi	ch	for	eigi	n n	atio	ns	will	l w	ar	it:	\$50,000,000
	the follow England	ing	, w	, hi	ch	for	eigi	n n	atio	ns	will	l w	ar	nt:	
	the follow England France .	ing	, w	, hi			eigi	n n	atio	ns	will	l w	ar		\$50,000,000 60,000,000
	the follow England France . Russia .	ing	, w	, hi		for	eigı	n n	atio	ns	will	l w	ar	nt:	\$50,000,000 60,000,000 40,000,000
	the follow England France . Russia . Austria .	ing	, w	, hi			eigi	n n:	atio	ns	will	l w	ar		\$50,000,000 60,000,000 40,000,000 50,000,000
	the follow England France . Russia .	ing	ς, w	hi ·			eigi	a n:	atio	ns	will	l w	ar		\$50,000,000 60,000,000 40,000,000
	the follow. England France . Russia . Austria . Australia	ing	, w	hi			eigi	n n:	atio	ns	will	l w	ar	it:	\$50,000,000 60,000,000 40,000,000 50,000,000 35,000,000
	the follow England France . Russia . Austria .	•	•	•			eigi	n n	atio	ns	will	l w	ar		\$50,000,000 60,000,000 40,000,000 50,000,000

Here are some facts for the financiers to muse upon, and some grave difficulties to be surmounted during the present year.

JOURNAL OF INSURANCE.

INSURANCE COMPANIES DOING BUSINESS IN CANADA.

CANADIAN OFFICES.	HEAD OFFICE.
Canada Life Assurance Company	· · · · Hamilton.
Brtish America Fire and Marine Insurance Company.	
Provincial Fire and Marine Insurance Co	do.
Western Fire and Marine Assurance Co	
Provident Life Assurance and Investment Co	
Erie and Ontario Fire and Marine Ins. Co	Niagara.
Montreal Fire and Marine Ins. Co	Montreal.
Montreal Mutual Fire Ins. Co	
Cobourg Mutual Fire Ins Co	Cobourg.
Home District Mutual Ins. Co	Toronto.
British America Friendly Society	Montreal
Niagara District Mutual Fire Ins Co	
Farmers'Fire Insurance Company	

Gore District Mutual Fire	Brantford, C.W
Imperial Fire, Marine and Life	Quebec.
Johnstown District Mutual Fire	. Brockville.
Mutual Fire Insurance Company	Prscott, C. W
Midland District—Fire.	Kingston.
Mutual Fire	Beauharnois.
Niagara District Mutual—Fire	St. Catharines.
Quebec Fire Insurance Company	Quebec.
Stanstead Mutual—Fire	Stanstead.

ENGLISH OFFICES.

Royal Fire and Life Insurance CompanyLiverpool.
Phænix Fire Insurance CompanyLondon.
London and Liverpool Fire and Life Insurance Company do.
Equitable Fire Insurance Company do.
Britannia Life Insurance Company of London do.
Colonial Life Assurance Company Edinburgh.
Eagle Life Insurance Co. of London, EnglandLondon.
International Life Assurance Companydo.
Professional Life Assurance Companydo.
Unity Fire and Life Assurance Companydo.
Beacon Fire and Life Insurance Company do.
Anchor Fire Insurance Company do.

UNITED STATES OFFICES.

	HEAD OFFICE
Great Western Fire and Marine Ins. Co	. Philadelph.
Attna, Fire, Life and Marine Ins. Co.	. Hartford
Home Ins. Co.	New York
Connecticut Mut. Life Ins. Co	Hartford
Farmers and Mechanics' Ins. Co	Philadelphia.
Continental Ins. Co.	do.
Exchange Mut Ins. Co.	do
Tradual Life Ass. Co	Now Vork
Denent Late Inc. Co.	Nomark
North-Western Fire and Marine Ins. Co	Octaogo .
Pacific Mutual Ins. Co.	Now York
Buffalo Fire and Marine Ins. Co.	Ruffalo
Star Fire Insurance Co.	Ogdensburg.
Hartford Fire Insurance Co.	. Hartford

TRADE AND NAVIGATION

TRADE OF TORONTO.

RETURN OF IMPORTS FOR THE QUARTER ENDING 31st DEC., 1858,

	Value.	Duty.
Goods paying specific duty	\$239,498	44,243 51
Goods at 25 per cent	7,995	1,998 72
" 20 "	178,343	35,668 2
" 15 "	201,021	30,154 31
" 5 "	29,823	1,491 34
Free Goods	291,228	
	\$947,908	\$113,556 0 9
RETURN OF IMPORTS FOR THE YEAR.		
Goods paying specific duty	\$818,052	\$152,455 00
" 15, 20, and 25 per cent. ad valorem	76,724	16,159 57
15 and 20 per cent, ad valorem	990,815	171,163 29
" 15 per cent. ad valorem	732,161	109,826 12
" 21/4 and 5 per cent, ad valorem	357,030	11,544 28
Free Goods	774,152	,
	\$3,768,934 \$4,847,456	\$461,148 26 \$578,900 00
- Company of the Comp	•-,,	4010,000 00
EXPORTS FOR THE QUARTER ENDING 31ST DEC	c. 1858.	
Articles	Quantity	. Value.
Pig and Scrap iron-Tons	430	\$8,860
Fish, pickled-brls	21/2	8
Plank and Boards—M feet	4,137	21,462
Shingles-Mille		234
Animals-Horses, No		775
Horned Cattle		115
Butter, cwt		1,040
Hides, "		5,020
Sheeps' pelts		400
Barley and Rye, bus	50,420	1,835
Flour, bris.		
Meal, "	,	45,687 247
Oats, bush		25,991
Peas, "	9,607	6.904
Seeds "		45
Vegetables		20
Wheat, bush	69.503	77,910
Hardware		110
Carriages, No		375
Ale, Beer, Cider, and Porter, gal	36	30
Whiskey, Brandy, and other spirits, do		1,520
	-	\$253,206
Total value of Exports for the year.		\$625,682

Trade and Navigation.

THE TRADE OF HAMILTON.

RETURNS OF IMPORTS IN 1858.

Value.	Duty.
Goods paying specific duty\$491,777 60	\$91,620 05
Goods at 15, 20 and 25 per cent. ad valorem	191,000 42
Goods at 15 and 20 per cent. ad valorem	77,883 64
Goods at 15 per cent. ad valorem	68,104 41
Goods at 9 M and 5 per cent ad valoring	12,926 10
Goods at 2½ and 5 per cent. ad valorem	•
Free Goods	••••
Total\$2,100,801 00	260,634 62
From Great Britain.	. \$919,601 00
N. A. Colonies.	. 1,753 00
U.S	. 1.156.467 On
Other Foreign Countries	22,980 00
Total	
imports in 1858.	
One 3	
Goods paying specific duty £139,382 19 9	£21,736 19 4
Goods paying 20 per cent	4,094 4 9
Goods paying 15 per cent	74,898 10 0
Goods paying 5 per cent	365 0 G
Goods paying 2½ per cent	3,158 11 3
Free goods 131,441 0 7	
Total	2.01.010 - 5.00
Or	£104,233 5 10
Total in 1858	\$413,933 17
2,100,801	260,634 62
Decrease in 1857	\$156,298 55
QUARTER ENDING DEC. 31st, 1858.	
Total goods entered for consumption, 1857	00 \$60,035 92
526,709	00 59,573 75
Decrease in 1858 \$33,059 00	\$462 17
EXPORTS-1858.	
,	
Produce of the mine	A 7081
" forest	01 701
Agricultural products. Manufactures.	\$20,500
Manufactures	
Total	\$964,732
EXPORTS-1858.	•
Produce of the mine	574
" forest	146,563

Agricultural products
Total
Decrease in 1866

LEADING AGRICULTURAL PRODUCTS.

Quantities exported in 1857 & 1858.

1857.	1858.
Barley and Rye, bush	99,527
Bran, cwt	2,820
Flour, bbls	103,042
Indian Corn, bush	94
Meal 57	106
Oats, bush0	77,296
Pease, " 6	7,961
Flax, cwt 0	742
Flax seed, bush	0
Other Seeds	223
Wheat, bush	185,690
Wooi, lbs	79,294

COMPARATIVE STATEMENT OF IMPORTS AT THE PORTS OF MONTREAL TORONTO, AND HAMILTON IN 1857-8.

1857 Montreal	1858 \$11,554,190 3,768,93 ₄ 2,100,801
DUTIES.	
185 7	1858
Montreal\$1,791,012	\$1,558,239
Toronto 578,900	461,148
Hamilton	260,634

CAN WE SECURE A PROFITABLE PARTICIPATION IN THE TRADE OF THE NORTH WEST STATES & TERRITORIES!

[Continued from our last.]

The nature of the Lake business requires that this charge be realized during the season of Navigation, is between the 1st of May and the middle of November, about $6\frac{1}{2}$ months, but it must moreover be borne in mind that during two months of that period, the traffic is invariably light, it follows therefore that the business of the remaining four and a half months must be relied upon for compensating these disadvantages. Assuming therefore that the business of the two months will pay insurance in addition to repairs and working expenses, the four and a half busy months must be charged with the additional burthen, and in this way the charge per month, during the busies part of the season, be raised to 6,31 per cent., being equal to 21 per cent. per day, and during the remaining two months it will be 1.55 per month, or .05 per day.

Estimated therefore with reference to the tonage of the larger vessel, this class of charges will amount to 14^{7}_{10} cents per ton per day on her whole tonage during the four and a half months, and to 3^{5}_{10} cents per ton per day during the other two, while with reference to the smaller vessel, the charge will come to 30.5^{5}_{10} cents per ton during the one period, and 7.5^{7}_{100} cents during the other.

While passing through the canals, another element of cost will present itself—namely, the charge for towing—for no skill in working the vessel by steam power, can remove the necessity for tow horses, especially while manceuvering in the neighbourhood of Locks, or when passing some of the more contracted waters of canals when the use of the Propeller is unsafe to the machinery. This charge will not vary much from \$24 per day for the larger vessel, and \$16 per day for the smaller one, being equal to $2\frac{4}{16}$ cents, and $5\frac{3}{16}$ cents per ton per day in their respective tonage capacities.

The elements examined in the previous paragraphs, may be collected together and tabulated in the following form:

* The low rate of charge theoretically established in this column, is nor inconsistent with practical results already arrived at as the following quotation from rates from New York to Liverpeol ruling, during the month of March, 1858, will shew:

that the ordinary rate of freight from Bengal to London, is £4 to £4 10s. stg. per ton for sugar, but the harbour dues at Calcutta are ressels, and I find that so low a rate as 06-100 cent, per ton per mile, has been the average on coal from Newcastle to Aden, and mearly 203. per ton. Rice from Arracan, is shipped at from £3 103. to £3 153. stg., these rates are equal to about 13-10 mills per This quotation shows that as low a rate as 1 16.100 mills per ton per mile has been reached in ocean transit, when carried in sail " Rates of freight from New York to Liverposi, are steady, with a moderate business. Engagements include 80,000 at 3d. to 512d. per bushel in bulk.—Globe.

ton per mile. As between these rates and the average of East and West rates arrived at in the table, there is ample margin to com-

pensate for the inactivity of the Lake shipping during the winter months.

The above figures would appear to justify the Tenlargement of the entire line of provincial Canals through which Lake horne freight is carried to a scale sufficiently large to admit the passage of the largest class of vessels; but the question can not be thus summarily disposed of; other and very important considerations must be taken into account; every delay is of greater consequence to a vessel 1000 tons burthen, thau to one of 275 tons, and the progress of the latter would be far less impeded by obstructions likely to present themselves in the canals than the former; indeed, it is questionable whether vessels of the maximum size for the Lake trade can be advantageously employed at all in navigating the canals having numerous locks. Division of labour formed the foundation on which has been reared the commercial and manufacturing greatness of Britain, and is a no less important element of success in the carrying trade; it is prudent therefore to enquire whether in aiming at the construction of canals suitable for the passage of vessels navigating the sea, we are not ignoring a principle essential to success; to this part of my enquiry, however, it is necessary to bring a clear conception of the condition which regulates the cost of transport on Canals in barges of the several sizes now contemplated, and of the cost of transshipping merchandise.

The size of the Eric Canal boats is at present limited by the Locks to 95 tons burthen, the enlargement now nearly completed will increase this size to 150 tons, the cost of the former varies from \$1,500 to \$1,800, and of the latter from \$2,000 to \$2,500. Barges of a size to fill the present locks of the Welland Canal, have not yet been constructed, but reasoning from analogy and some practical knowledge of the subject, I believe that such craft could be constructed and equipped—adapted solely for use on the canal—for \$800. Unencumbered by masts, anchors, rigging, &c., and being of much lighter build than lake going vessels, they would be capable of carrying through the locks at least 750 tons of cargo. In like manner a canal lock having capacity to pass a vessel of 1000 tons, would pass a barge of much greater tonage which would not cost a fourth of the capital.

The cost of working canal barges, will comprise crew expenses, tonage, repairs, depreciation and value of capital. The first of these items on the Erie Canal, is usually contracted for, and for the largest class of barges, including provisions, tow-lines, &c., is covered by \$125 per month, equal to \$4.16 or 2.7-10cts. per ton per day. The towing is also contracted for at 22 cents per mile, and at an average speed of 35 miles per day, this amounts to 5_{133}^{-3} cts. per ton per day.

Taking the experience of those largely engaged in the business for my guide, I shall estimate the repairs at 7 per cent.

Depreciation 9 do.
Value of Capital 12½ do.

Total 28¼ do.

As with lake going vessels, the greater portion of the charges above enumerated, must be realized during about $4\frac{1}{4}$ months of the season, and it is necessary therefore as in the former case, to increase the proportion of the charges, they will consequently amount, during the busiest part of the season, to .21-.175 per cent per day, and being distributed over the cargo capacity of the barge, will represent a charge of $2\frac{1}{100}$ -3.5 cts. per ton per day, thus the total charge on this class of conveyance (exclusive of tolls,) would be as follows:

For crew expenses - 2.7 cts. per ton per day.

Towing while in motion - 5.13 " "

Repairs, deprec. & value of cap. 3.5 " "

Total - 11.33—while in motion or while stationary in port 6.20 cts. But as in the case of lake crafts, the barge would only obtain lading in proportion to the movement of freight, hence the cost of carrying freight west would be as 71 to 29 in comparison with the cost of movement east, and therefore 26 to 29 cts. per ton per day while in motion, and 13.39 cts. while at rest may be taken as the cost of westward bound freight.

Similar calculations applied to a vessel built for canal purposes of a size to fill the Welland canal locks, will show the crew expenses to be equivalent to $2\frac{2}{10}$ —.35 cts. per ton per day; the cost of towing $2\frac{10}{100}$ cts. per ton per day, and the constant charges of repairs, depreciation and value of capital, 210-175 per cent. per day, is $1\frac{8}{100}$ cts. per ton per day, collected as in the former case, these charges shew a total of 6.19 cts. per ton per day, while in motion and of 4.06 cts. while in port. Here again the cost of westward movement must be increased as in the previous case, and while in motion it will be raised to 15.15cts. per ton per day, and while at rest to c.9.94.

A still further increase in the size of canal barges, would (provided there were business to employ them) produce a still further reduction of the charge per ton, but it is not necessary to pursue the comparison further, as the prin-

ciple which governs the cost of transportation on vessels of this class is sufficiently established by the above.

The cost and delay incident to Transhipment, is easily arrived at so far as grain or flour, which constitutes the great bulk of lake trade are concerned, the former is elevated, stored, and re-shipped for half a cent per bushel, and at that price affords those engaged in the business a fair profit; the actual cost of transferring grain from one vessel to another with the most efficient machinery used for that purpose, would not exceed one quarter of a cent per bushel—is $8\frac{1}{4}$ cents per ton. Flour, beef, pork and other barrel freight would be handled for a similar charge, added to the crew expenses, and would include all contingences for cooperage.

The cost of transhipping general merchandise, is not so readily ascertained, inasmuch as it would continually vary with the size and description of the packages. It is believed however that sufficient aid could be furnished to the crews of the vessels for an additional charge of 15 cts. per ton.

The time requisite to discharge cargoes of grain, has probably been reduced to a minimum. With the machinery now employed for such purposes, the largest vessels can be cleared out in from six to eight hours, and if necessary to give greater expedition, that object could be effected by elevating from two hatchways at the same time-in like manner the weighing and loading can be completed in the same time, and when grain is simply transferred from one vessel to another both operations could go on simultaneously. To receive and store a cargo of barrel freight, would occupy for the larger cargo about 36 hours, and for the smaller one about 24 hours - and a similar period would generally be sufficient to discharge in. Full cargoes of general merchandise are in no case estimated, therefore although the handling would be more tedious, the lesser quantity and consequently lesser necessity of careful stowage would reduce the time requisite to effect shipment or transhipment within the period above specified. Coaling could also be carried on during the same time, if proper convenience were provided for that purpose; all things considered, therefore it may be safely concluded that the average time in port either at the termini, or at a place of transhipment, need not exceed 48 hours, and this will afford abundant compensation for any irregularities that may arise during the voyage.

The duration of the trip of the well built propeller, may be calculated with tolerable certainty on the open lakes; the speed has previously been estimated, when culculating the consumption of fuel, at ten miles an hour, and with a view to simplifying comparisons, the speed of both classes of vessels is

assumed to be the same, though in practice it is not likely that the smaller vessel—especially if designed on lines to suit canals—would at all equal the speed of those built with sole reference to lake navigation. This difference will, however, in point of cost be balanced by the amount charged for fuel, which at reduced speed would be represented by a less daily consumption.

Many contingencies arise to delay the progress of canal barges—a damaged lock—a break in the embankments, or the over-crowded state of the canal at particular times or places, all tend to create delay; consequently their rate of speed cannot be calculated with so much certainty, as the duration of a voyage on the lakes. On ship canals there may be added to the above causes of delay, the embarrassment caused by the state of the wind which frequently prevents vessels with much top hamper from being worked with any degree of safety. From all these circumstances, I have frequently known a vessel to occupy a week in passing through the Welland canal, and though the passage is sometimes made in one day, I am of opinion that the average time will not be less than three days; and the same time may be taken for the passage of the large barges before alluded to.

I am informed by those largely engaged in the Forwarding Trade on the Eric Canal, that the average rate at which the Canal boats travel on that work does not exceed 35 miles per day. Consequently the time between Buffalo and Albany will be 10.4 days, and between Oswego and Albany 5 days, to both of which must be added the requisite time for loading and discharging, which, being estimated at one day at each end of the route, would make the duration of a "round" trip equal to 22.8 and 12 days respectively.

It has been confidently asserted that if the Erie Canal were sufficietly enlarged to admit the passage of the largest propellers from Lake Prie to New York, we should rarely witness the passage of one of them through, because this great cost, as compared with the ordinary barges, would overbalance any expense saved by avoiding transhipment. It is certain that the time would not be reduced but rather increased by the unwieldiness of the ships and want of space in the narrow channel of the Canal for working them satisfactorily. The risk of damage to the works would also be greatly enhansed by the use of such vessels, so as to negtive any reduction that might be made in the season's insurance by reason of the absence of risks from storms. The navigation of ship canals will therefore be placed in a more favorable position than circumstances fully warrant if we assume the speed of vessels that throng long lengths of the canal to be the same as that of barges.

The cost of transportation on railways is a problem, the solution of which has exercised the ingenuity of both theoretical and practical writers, so far, I believe, without arriving at such a result as enables us to adopt a recognized standard. In fact, the cost varies so much with every change of grade and curvature, and still more with every fluctuation in the amount of business transacted; and finally, with the state of repair in which the road-bed and carrying stock is maintained, that it is extremely difficult to arrive at any satisfactory conclusion. One of the most costly roads in America carries freight for one cent per ton per mile, and yet pays the highest dividend that has been realized on this continent. A result undoubtedly due to the constancy and large amount of the traffic offered, and to the fact that the grades nearly uniformly favor the traffic. The cost of working in proportion to the traffic is consequently reduced to a minimum and is only equal to the expense of distributing the stock, for the great bulk of the freight descends to its destination by its own gravity. On the other hand, roads dependent on local traffic-uncertain and irregular in quantity, as well as in the distance over which it is carried, have failed, either from mismanagement or deficiency of business-while charging an average tariff of 51 cents per ton per mile, to realize the interest on their borrowed capital, and are sinking into hopeless bankruptcy.

Much of the obscurity that prevails on this subject is attributable to the anxiety of managers to pay good dividends and thereby enhance the value of the stock; for the great majority of the proprietors of this class of property have acquired it as a speculation - not as a permanent investment, and hence their reluctance to determine their true value by a joint declaration of the cost at which their lines are worked; hoping to maintain or even advance the market price of their property by increasing the dividends. not hesitate to pay them from capital, or out of funds that should go to maintain the stock and works in repair; thus postponing the day of final reckoning until after they can find an opportunity to sell out at a profit, and the new holder follows the same policy so long as it can be carried out. therefore who can for the time being shew minimum working expenses are most favored, and but little care has been taken to check or verify their statements so long as a reasonable course could be assigned for charging the deficit to capital amount. Such deception could not continue beyond a certain limit, and on railways where that point has been reached, some care has been taken to arrive at more correct knowledge of the actual cost of working the line and of the conditions which influence that cost.

Avoiding the disturbing causes which are incidental to an imperfectly con-

structed line, or to an insufficiency or irregularity of traffic passing over it, I shall endeavor to arrive at an estimate of the cost of transporting freight sufficiently accurate for my present purpose.

The length of road over which freight can be carried without change of cars has, within certain limits, an important influence on the cost of transport per ton per mile. There are certain charges that are equal whether the goods are carried ten miles or five hundred. It costs as much to receive, weigh, store, load and make out bills, and to discharge and deliver a ton of goods when it is to be carried only five miles as when it is to be carried five hundred miles. The same may be said with reference to making up trains and other station expenses, but the charge per ton for their services is also influenced in a great measure by the quantity handled. A hogshead of sugar is as easily booked and nearly as easily loaded as a barrel; and a thousand barrels of flour can be "way-billed" for the same cost, as twenty barrels can, and although not loaded for the same cost the increase—supposing the existence of every convenience—is not at all in proportion to the increased quantity.

Regularity of supply as well as quantity exercise an important influence; where there is a sufficiency of freight to had an entire train daily at one place, and the freight so loaded is destined to the same place. All the plant is regularly employed and the number of employees are duly proportioned to the duty to be performed. On the other hand, if cars are partially loaded at the various stations and have to be picked up during the progress of the train; and if uncertainty exists as to the quantity to be carried, then all the expenses of a full train from end to end of the line are incurred, the staff of employees must be equal to the maximum duty that offers at any time, and the proportion of dead weight to the useful load is increased, inasmuch as the train will probably not carry through more than one-third or one-fourth of a full load.

The description of freight must also be taken into account; with well arranged elevators, spouts, &c., grain in bulk can be more cheaply handled than any other description. Barrel freight next, while light bale goods and grain in bags are the most expensive.

In his very able report for 1855, the Superintendent of the New York and Eric Railway investigates with considerable minuteness the various elements that constitute the transportation expenses on that road, and gives the following figures as the result:

"The average useful load carried for every mile run was 60 ions.	The
average distance freight was transported on the road was 177 miles.	

"The earnings per ton per m "The Expenses	ile were	٠ ۔	-	-	\$0 02 37-100 0 01 15-100
" Nett Returns was			-	-	0 01 22-100"

The above figures are apart from charge for capital, and the amount charged for expenses is composed of no less than thirty-eight items grouped under eight separate classes. The items which form a constant charge irrespective of distance, amounting to no less than $48\frac{3}{4}$ cents per ton,* namely:

For Agents, Clerks, Stationery, &c	13 cents.
Loading and unloading	24½ " 11½ "
Use of Stations (i.e. interest on their cost and repairs)	
	484 "

(To be Continued)

ANNUAL REPORT OF THE TORONTO BOARD OF TRADE.

In presenting their annual Report, it would have afforded your Council much satisfaction had they been able to congratulate the Board on a restoration of business to anything like its former position, but the effects of the rude shock which the credit system of this country so suddenly sustained towards the close of last year, still contine to depress all kinds of business, and a general want of confidence has existed never equalled in all former experience.

At the close of 1857, we may affirm, that the trade of Western Canada had become so paralyzed that it was generally admitted and change must be for the better. Yet another year has passed away, and still business matters remain in nearly the same state of lifeless inaction. This continued depression may in some measure be attributed to the short crops of the last two harvests, the failure of which in an agricultural country like Canada must vitally effect its commerce, particularly so when the cultivators of the soil become imbued, as many of our farmers have been, with a restless spirit of speculation, involving them in obligations altogether beyond their usual means of liquidation. This state of things is chiefly owing to the enormous expenditure of the numerous railroads in progress during the last few years, giving an impetus to trade that soon made itself felt in the increased value of every article of consumption for domestic use, doubling family expenditure in most cases without increasing their income. The enhanced value of produce naturally communicated itself to lend, the basis of production, which was eagerly sought after as an investment by farmers and others, until in their desire for speedy wealth they overstepped the bounds of prudence, and made large investments in wild lands and other unproductive property. This spirit of speculation was, doubtless, materially aided and fostered by excessive importations of merchandise, of which large amounts were entrusted for country distribution to young men without experience in business or knowledge sufficient to guard them against the evils of excessive credit, a system then in accordance with the times, but since terminated, at least temporally by the general crash in the fall of 1857, when credit and speculation received a check long to be remembered in Canada and the adjoining States. The importations of merchandise which of late years had been increasing in a far greater ratio than the wants of our population would seem to warrant, fell off very materially during last year. While this is significant of the severe struggle we are still passing through, it is yet one of the most healthy signs of a speedy return to our usually quiet and steady progress. The importations of last year were narrowed down to the most pressing wants of the country. Importers were thus able to work off their surplus stocks, and at the same time keep their customers supplied with an assortment amply sufficient to meet the reduced requirements of the community; doubtless importers of goods would best consult their own interests by limiting importations to the actual necessities of their trade, at least until such time as a more extended market, or the natural progress of the country would warrant an extension of business. As a consequence of short imports there has been much less demand for exchange, a circumstance which has enabled the banks to devote more of their capital to what may be termed local discounts, thereby easing the pressure of money for legitimate purposes, and here it may not be out of place to remark on the judicious course generally pursued by those institutions to their customers during the pressure of last year. It is satisfactory and gratifying to state that the banks controlled in Toronto. have afforded ample facilities to men in business, in enabling them to meet the difficulties incident to the late panic. The wisdom of this policy has been abundantly proved from the fact that they have suffered little or no loss on merchants' accounts during the year. This wise liberality has enabled business men gradually to control their over-extended credits, so that business is now being placed in a safer position and on a surer basis than for years past. The recent discovery of gold in British Columbia on the west of the Rocky Mountains and the adaptability of that country for settlement, together with an early prospect of easy access to the fertile and boundless prairies of the Red River and Saskatchwan valleys, have drawn the attention of the Imperial Government, as well as the Canadian public, to the practicability of an overland route through British territory from the Atlantic to the Pacific ocean. As our geographical position offers the most direct, and as far as known, the only practical route for a railroad, (the survey of which is now being promoted by the Imperial Government,) Canada must become at no distant day the great highway for intercourse, traffic and travel between the Eastern and Western hemispheres, a circumstance pregnant of the most important events to our future destiny, and more especially since recent commercial treaties have opened up the trade of China and Japan, countries which have hitherto been to the world at large. in a great measure, sealed from commercial intercourse. The importance of our position, in this connection, can be but faintly shadowed forth at the present time. Without doubt, a magnificent future is in store for the country which has the means of connecting the trade of the eastern would with that of civilized Europe.

Pending the solution of this vast revolution in our trade and future prospects, so full of promise to the onward march of commerce and the advancement of the Province; it is satisfactory to perceive that all clusses of the community seem impressed with the necessity of peesonal economy as one of the first and best symptoms of returning prosperity.

HUDSON'S BAY COMPANY, &C.

Petitions were presented to the Legislature against a continuance of the Hudson's Bay Company monopoly of the North-West Territory, and for the establishment of a judiciary in the Red River settlement. We note with satisfaction that the objects prayed for are in a fair way of being accomplished. The Imperial Government have already established the Colony of British Columbia, on the west of the Rocky Mountains, in a part of the Hudson's Bay Territory, while a large staff of English engineers is now engaged in surveying a line of railroad across those mountains into Canadian territory, which completed, will enable us to compete successfully with our American neighbors for a share of the world's trade by an overland route to the Pacific. As a proof that the business men of Toronto are fully aware of the important results which will accrue to trade on the development of this immense field of enterprise, a company has been incorporated by the Legislature, under the title of "The North-West Transportation Company," with ample powers for the construction of railroads, steamboats, &c., &c. This company may be said to have inaugurated its operations by the purchase of the steamer Rescue, for the transport of freight and passengers, and carrying the mails from Collingwood to the head of Lake Superior and Red River settlement; it is anticipated that on the opening of navigation the company will be in a position to carry into effect the objects of its charter, which has in view the developement of the trade and settlement of the fertile prairies of the far West, as well as being the pioneer of a through traffic to the Pacific Ocean.

HARBOUR TRUST.

A bill passed the Legislative Council at its last session, transferring the Harbour Trust to the City Corporation, against which transfer your council petitioned Parliament, on the ground of its being alike injudicious and uncalled for, inasmuch as the revenue of the harbor is derived entirely from the mercantile body, and there being no complaints against the present trustees, two of whom are elected by the Board of Trade, two by the City Corporation, and one appointed by Government. We record with pleasure that this injudicious measure was defeated by a member of your Council in the Legislative Assembly. In connection with this subject, the Government have intimated to your council their determination to erect a fog bell on Giberaltar Point for the prevention of accidents from fogs and snow squalls at the entrance of the harbour.

GEORGIAN BAY SHIP CANAL.

It is with regret your Council have to state that the services of the engineer for surveying the route of the Georgian Bay Canal, are in part still unliquidated. This matter has been pressed on the attention of Government from time to time, but hitherto unsuccessfully. From the magnitude and importance of the work already accomplished it was reasonably assumed that Government, which has spent so many thousands of pounds in surveying the Ottawa route, would have the liberality to grant the small sum of \$2,000, being the amount remaining unpaid on the survey, more especially as liberal private subscriptions had been contributed to promote this important work. Your Council, therefore, still rely on the liberality and justice of the Government for supplying the deficiency.

NORTHERN RAILWAY.

It was with great concern that your Council learned that the Northern Railroad was about to suspend its operations, it having being condemned as dangerous for travel and traffic, by the Government Inspector of Railways, in consequence of requiring an immediate outlay for new rails.

So soon as information of the road being interdicted was received by the Council, a meeting of the Board was held, and largely attended by its most influential members, when Mr. Cumberland, the Vice-President of the road, verbally submitted a full statement of its present and prospective condition, showing that a temporary advance of \$30,000 would enable it to continue running until spring; by which time it was expected some measure of permanent relief would be submitted to Parliament for its future prosperity.

A Committee was appointed by the Board to memorialize the Government and solicit a personal interview with the Executive on the subject, as also to confer with a similar Committee of the City Corporation and Railroad Directors, for devising a measure of permanent relief by re-organizing the Company, or otherwise placing it on a new basis. The Committee waited on His Excellency the Governor General, who expressed himself fully conscious of the importance of the road to Toronto and the northern country, but declined giving any assurance of relief in money, without sufficient security for its repayment; in the meantime, however, the Railway Commissioners had set aside the order for closing the road, and agreed to permit its working at a reduced speed, during the hours of daylight only, a measure of temporary relief which does not prevent its close at any moment, as the Government Inspector has declared its condition unsafe, and there is no available means for its immediate repair.

Your Council are unwilling to believe that a road so important to the interests of the Province would be allowed to stop, it is therefore hoped that so soon as the Legislature meets, some means will be adopted by Government for placing it on a permanent footing, beneficial alike to the country and to those more immediately interested in it as a pecuniary investment.

USURY LAWS.

The attention of your Council was, at an early period, devoted to the removal of that old standing grievance, the Usury Laws. A subject which has been referred to in our Annual Reports for years past, and long regarded with much interest by the commercial public throughout the Province.

At a meeting held by the Council a resolution was passed and embodied in a petition to Parliament, which conveyed the opinion of the Council on this subject, and, notwithstanding much conflict of opinion among mercantile men, as well as in the Halls of the Legislature, the law has confirmed to the letter of the resolution passed by the Council. It is therefore a matter of congratulation to be able to state, that the restrictions in dealing in money have been removed, excepting the banks, which are confined to seven per centum per annum, and it is now hoped that this measure will produce the beneficial effects contemplated by inducing the influx of foreign capital into the Province.

DEBTORS AND CREDITORS.

Frequent meetings were held, and much time spent in discussing the laws relating to debtors and creditors, mare particularly in reference to a printed memorandum on that subject, issued by the Roard of Frade of Montreal, which was amended by your council and returned to that body.

In connection with this important subject, a deputation waited on the Attorney General with a view of inducing him to introduce a more compreheasive measure for the regulation of insolvencies than the one he proposed, but on discussing the points at issue, it was found difficulties existed to more comprehensive legislation, unless by the substitution of a general bankrupt Act, an alternative which your Council was not prepared to recommend. The Bill of the Attorney General, intituled, "An Act for abolishing imprisonment for debt, &c.," may, however, justly be considered an improvement on former legislation, and it makes void all preferential assignments, and legalizes beyond dispute those made in good faith for the general benefit of creditors. It also provides stringent punishments for fraud, or the misapplication of trust funds, and would have been still more satisfactory to the commercial public, had it vested the appointment of an assignee in the hands of the creditors, or given them control over the assignee appointed by the insolvent, as one of the principle difficulties heretofore has been the want of control over the estate of the insolvent, by the parties most interested in its management. Fears have, however, been expressed, and much apprehension is felt in regard to the titles to real estate conveyed by parties when in a state of insolvency, as any conveyance made by a debtor to a creditor.

RECIPROCITY TREATY.

The new regulations introduced by the United States Consular Agents in Canada, requiring certificates and exacting fees on the shipment of flour, wheat, and other produce to the United States, engaged the attention of your Council, and a petition containing their views on this subject, was transmitted

to the Governor in Council, requesting that the Government would, in conjunction with the American Government, take such steps as may be necessary to abrogate the system complained of.

Of such importance to the trade of New York, is the Canadian flour business considered, that the Chamber of Commerce of that city lately unanimously memorialized the authorities at Washington, to permit American wheat to be manufactured in transitu through Canada for re-export to the United States. In reply to this memorial, the Secretary of the Treasury stated that flour ground in Canada from American wheat, could not be admitted free under the Treaty of Reciprocity, and that Congress had no power to alter that treaty. Further, in reply to frequent inquiries, whether articles manufactured in the British Provinces of materials the product of the United States, can be imported free of duty, the Secretary decided that articles so manufactured, not being imported in the same condition as exports, do not come within the exemption clause under the Tariff Act of 1856, nor within the meaning of any similar law or treaty, and must, consequently, be subject to a duty according to their classifications in said Tariff Act. In consequence of this decision, it will be necessary to look to the Imperial Government for redress of the grievance complained of, which course is respectfully submitted to our successors in office.

THE TARIFF.

Towards the close of last session of the Legislature, the Inspector General introduced a series of resolutions increasing the tariff on imports generally, raising the duty on ad valorem goods from 15 to 20 per cent., and from 20 to 25 per cent. The imposition of such an advance on the then existing high duties could be justified only by the most pressing necessities of the Government. Petitions were presented against the increased rates on cotton, wollens, especially, as entering largely into the consumption of the industrious classes, who could not fail to be unfavourably affected by such a measure, in a season of unusual depression like the present; but in view of a falling revenue and an increased expenditure, Parliament assented to this additional tax on commerce, which is to be regretted, as frequent changes in our tariff have a tendency to derange the regular course of trade.

RECAPITULATION.

Having glanced at the principle subjects which engaged the attention of your council during the past year, they would now direct the notice of the Board to the Report of the Committee of the Legislative Assembly on Trade and Commerce, presented at the close of the session by the Hon. W. H. Merrit, Chairman. This Committee was appointed on a petition of the Board of Trade, setting forth the depression in trade so generally felt, and requesting the House to investigate the cause; and, if possible, suggest some measures of relief or alleviation. The report is replete with much valuable information, especially that communicated by Mr. Wilkins, the British Consul at Chicago, in reference to the working of the treaty of Reciprocity, and in pointing out the difference between the laws of the United States and Canada, relating to inland shipping, &c.

Whilst we acknowledge having obtained a more extensive and better market for our wheat and flour, and other produce, by the treaty of Reciprocity, we yet have to complain of labouring under many disadvantages with respect to the navigation laws of the United States, which do not admit of foreign-built vessels to registry; and further, even when the vessel was built in America and sold to a British owner, will not allow a re-registry as an The Report, however, has one objectionable feature, as it American vessel. recommends "that the principle of Reciprocity with the United States be extended to manufactures." This extension we believe to be in direct opposition to our manufacturing interests, as well as that of Great Britain. is, therefore, a proposition in which your Council cannot concur with the Parliamentary Committee. It is desirable, for many important reasons connected with the commerce, that a "Committee on Commerce" should become one of the established Committees of the Legislative Assembly, as it frequently happens that matters of grave importance to the trade of the Province, are overlooked for want of some constituted authority to take cognizance of them. Your council would, therefore, desire to call the attention of their successors to its importance.

STATISTICS, &c.

With a view of enabling parties at a distance to gain some knowledge of our trade, statistics, exports, and imports, together with brief remarks on trade in the principal articles of commerce, are appended to this report, also a comparative statement of the imports and exports for a series of years past.

It will be seen that a large decrease has taken place in both the imports and exports. The former, as already remarked, may be considered one of the most encouraging tokens of prosperity; for, as our foreign indebtedness lessens, our means of meeting local liabilities improve. Regarding our exports, as the means of liquidating our debts abroad, the deficiency at first sight is rather alarming; but when the inferior crops of the last two harvests [which were exceptional] are taken into consideration, together with the quantity of produce sent from Port Credit and the Humber, [both of which ports may be fairly assumed as belonging to this city, their imports being purchased in a district tributary to, and with the funds supplied by Toronto] it will be seen that no fears need be in that respect.

With a return of the confidence which has been so largely forfeited, and a systematic practice of habits of economy, we have reason to look forward to better times ere another year shall have added its records to those of the past; and, gaining wisdom by experience, our commercial prospects may again hold a promise of reward to the investment of capital for the development of our material resources, and the extension of commerce.

All of which is respectfully submitted.

THOMAS CLARKSON,
President.

CHARLES ROBERTSON, Secretary. On motion of Alex. Hamilton, Esq., seconded by A. K. Boomer, Esq., the Report was adopted.

The Secretary then stated that he was indebted to Mr. E. Wiman, the Commercial Reporter of the *Globe*, for the commercial statistics which follow the Report.

On motion of E. F. Whittemore, Esq., seconded by Rice Lewis, Esq., the thanks of the meeting were voted to Mr. Wiman, for the statistics and other commercial information he had procured.

The President, in tendering the vote to Mr. Wiman, complimented him upon his ability and energy as a commercial reporter.

JOURNAL OF MANUFACTURES.

THE RELATIONS OF SCIENCE TO MODERN CIVILIZATION.

Whatever will best meet the demands of comfort and refinement by increasing the productive power of labor, by diminishing the cost of raw material, by adapting it to the greatest and widest utility, by quickening circulation and facilitating exchange, must necessarily advance civilization.

Let us see if science meets this demand. It has in some way contributed to every valuable process of modern industry. Take for example the single article of cotton; chemistry selects and prepares the soil; geology points out the hidden places of iron, lead, and carbon; chemistry, by the safety lamp, prevents explosions in coal mines, and dictates the most economical process of manufacturing raw materials into machinery; mechanical philosophy directs the construction of the cotton gin, which separates the filaments from the seeds; of the jenny, which spins them into threads; and of the power-loom, which weaves them. The process of bleaching, which formerly required five thousand hours, is now as thoroughly effected in one. The mineral, vegetable, and animal kingdoms pay tribute of their richest dyes; and the arts of design, engraving, and inchanics combined, tint the new-made fabric at the rate of two thousand yards per hour. Aided by chemistry, machinery metamorphoses the rags into paper, and stamps, with the symbols of thought, fifty newspapers per second.

Thus, in six short months from the planting of the cotton seed, the paper product, covered with news of the latest discoveries, improvements, controversies, hostilites, sentiment, and song, may be vivifying, energizing and harmonizing the entire mind of the world.

We read our obligations to mathematics in the stupendous structures which span the briny flood of Menai, and the fathomless abyss of Niagara. We have not lost the lesson in the fall of the suspension-bridge of Rochester.

Of the living force which is now absorbed in productive work, nine-tenths are generated in the water-wheel and the engine. Man's puny arm is tasked but for the remaining tenth, necessary to accomplish the present triunphs of industry. Science has shown him that mind is the seat of all power—has taught him division of labor—has enabled him to command and harmonize the powers of antagonistic forces—it has elevated him from the drudge to the superintendent—has raised him from muscular toil to the evermore productive, ennobling, and refining effort of mind. The fabled spear of Holus had not so potent control of the elements, as, in the hand of man, has the lever. He touches it—a thousand spindles whirl, and shuttles fly, animated by the transmitted force of gravity. He springs the valve, and the steaming Pegasus whirls his articulated train across the landscape at the speed of fifty miles per hour.

The intelligent observer sees the potency of science in the indespensable utility and elevating influence of every appliance of modern civilization—in the gas, which drives crime from the midnight street—in the supplies of water, which flow through the iron arteries of our towns—in the window, which admits the light, and repels the tempest—in the retort, which reveals the secrets of alchemy—in the crystal edifices which in London, Paris, and New York, rear their princely domes, sacred to industry and art—in the microscope that reveals the complex and symmetrical stucture of the animalculi—in the artillery of astronomy, which brings the denizens of infinite space within the sphere of human observation.

Political economy has brought to light those fundamental truths which regulate exchange—has disabused the civilized nations of the idea that individual or national wealth could result only from another's loss—has changed commerce from a source of hostility into a bond of peace.

Modern civilization is vigorous, radiant, all glow under the genial influence of a universally extended commercial intercourse. Not only are the products of the material world thus brought under the laws of supply and demand, but a commerce of ideas exists to an extent hitherto unknown, vivifying humanity to the remotest parts of the globe.

But how were obtained the stupendous agencies requisite to carry on this signatic exchange? What has enabled man thus to extend his dominion over the inanimate forces—to give them muscles of steel, and doom them to perpetual service? Why, in the last half century, have burst forth such great revolutions in agriculture, manufactures, commerce, literature, and art? How has material and immaterial nature thus suddenly a ten-fold capacity to administer to the convenience to the convenience of man agencies.

Whence the authority to appoint the goddess of the tides an omnipresent pilot of the deep—to arrest the thunderbolt in its path—to bid it mount the magic wire—dart athwart the land—plunge beneath the sea, and resume its terrene flight on foreign shores, an universal courier? What, we ask, has enabled the civilized nations of to-day thus to realize results more stupendous, magnificent, glorious, than imagination in its loftiest flights has ever before embodied? We have but to turn to the studies which have occupied

the silent thoughts of scientific minds of the last three centuries for an answer. When man has accumulated facts, and in studying their relations, abandons those speculations which transcend the limits of his capacity; when he places himself it harmony with the forces employed by his Creator, then his inquiries are practical—science becomes a fit handmaid of Christianity in extending civilization, in purifying and developing the human mind, and in spreading over the world the blessings of industry and peace.

DIAMOND CUTTING.

By cutting, the peculiar brilliancy of the diamond is brought out, and its Then the jeweler adds new beauty by tasteful setting. skilful combination of various kinds of precious stones, so that the one may impart splendor to the other, makes the starry rays of the diamond sparkle with glory in the tiara, brooch, or necklace. During the last twenty years great progress has been made in the art of setting, of which splendid exhibitions were exhibited both at the London and Paris exhibitions. Rubies, sapphires, emeralds, and diamonds, are now formed into anemones, roses, carnations, tulips, convolvuli, lilies, and other flowers. Probably, the idea originated with the glory which is seen, early on a summer morning, when the rising sun shines on the dewy flowers. The revolution in France, at the end of the last century nearly ruined the jewelers of Paris, and for a time gave a check to improvement. Under the imperial government of Napoleon I., some progress was again made, but the art only began to flourish after the restoration. At first, they worked with stones of the second class, such as topazes, amethysts, and aigue-marines, with which trinkets of more appearance than value could be made. Afterwards, it was found that by imitating flowers, the number of precious stones, in proportion to the size of the jewel, could be reduced without injuring the effect; while diamonds of less purity, such as those of Bahia, could be more freely used. The practice of setting diamonds in silver, and rubies in gold, so as to impart an apparent increase of size to the one, and splendor of color to the other, became more general; and the most beautiful designs have been wrought out with the greatest neatness and taste. At no period in the history of the world have so fine specimens of the jeweler's art been produced as during the present century by the artists of London and Paris.

MACHINE-MADE WATCHES.

It is not more than twenty years since clocks were exclusively furnished to us by European countries, and their manufacture here, with very few exceptions, was almost unknown. New, however, they are daily manufactured here by thousands, through the instrumentality of machinery, which enables them to be constructed not only in a much superior and correct manner, but at one-twentieth the price originally demanded for them when manufactured by manual labor. The most ingenious machinery is now in operation for this purpose. The manufacture of watches is also now carried on upon the same principal, and by somewhat analogous machinery to that employed for the manufacture of clocks. Dies of the most exquisitely-delicate formation are employed for cutting the various wheels, as well as other intricate parts, and lathes and polishing-wheels for reducing the pivot-jewels to the proper

size, and giving them the proper finish. And while the simplicity observed in the construction of the watch lessens its liability to stop on otherwise get out of order, any cause of disarrangement is more easily detected.

STATISTICS OF AGRICULTURE.

AGRICULTURAL EXHIBITION IN FRANCE.

The Paris Moniteur of the 2d October has an ample report of the Minister of Agriculture on the regional agricultural exhibitions in France. The number of them this year was ten, at central places in the great territorial The report embraces the names of the exhibitors to whom the chief prizes were awarded, and the main results of the convocations and the competitive system. Formerly those divisions of the country entertained mischievous prejudices and antipathies against each other; the peasantry refused to employ new implements of tillage, or to admit any changes in their antiquated husbandry. This evil has nearly disappeared under the influence of the assemblages and the means of comparison. France, says the minister, has at length learned to know herself and her resources; the rural progress, in every particular, suspasses all expectation. Many thousands of people of different provinces have been drawn together; they have parted with mutual cordiality; their only solicitude is how to make the best figure in the shows and intercourse of the next year. The railroads afford them facilities for every purpose, of which their forefathers could have no conception. The departments and the large cities contribute sums of twentyfive and thirty-five thousand francs towards the accommodation and arrangement of the animals and machinery brought to each of the rendezvous. From year to year the numbers of the frequenters and the objects for exhibition and rivalry have signally advanced. The report adduces the statistics. 1846 wheat was grown on not more than 5,936,908 hectares, (the hextare is two-and-a half acres;) in 1856 it occupied 6,468,236 hectares; the increase in the yield is larger in proportion. Special attention will henceforth be Paid to the classification of the animals, according to localities, and breeds, and qualities, and of the farming implements in reference to origin and usefulness. From 1860 the number of agricultural regions will be ten or twelve; each will comprize seven departments or provinces, and an exhibition will be annually held by each in turns. The central government and the authorities of the several circumscriptions or demarkations will appoint inspectors, Juries to award the premiums, surveyors of the farms in competition, and scientific and practical instructors. The emperor has created five model farms in the neighbourhood of the Camp of Chalons, on which the soldiery and corps of engineers are occasionally employed. His chief object is to fertilize for pasture the arid and nearly barren plains; and considerable sums are appropriated from the civil list to carry out his plans. Each of the new establishments has stables for a hundred cows, stables for twenty horses, and folds for twelve hundred sheep. Four hundred cows of the race of Brittany, more than three thousand sheep, rams of the English stock, and thirty choice brood mares are already collected. Five similar establishments are to be undertaken and completed next year.

BANK NOTE REPORTER.

COUNTERFEITS.

BANK OF BRITISH NORTH AMERICA.

2's altered from 1's, are in circulation.

BANK OF MONTREAL.

5's, a steamer, on upper right corner-cattle on the left end-5 in the centre

and on the lower right corner-an eagle between the signatures.

5's, Toronto Branch, let. A—pay Baker—in the genuine the word "value" to the left of Toronto, is directly over the word Toronto: in the counterfeit the nose of the small dog comes very near the "T" in Toronto; in the genuine it is an eighth of an inch from the T.

5's, altered from 1's-has a V in a circle at the bottom.

5's, altered from 1's—vig. a female reclining on a figure 5, clumsily altered from the figure 1.

10's, "Parliament" on the left side of the bill is spelled without the a.

10's, altered from 1's—vig. Britannia with a spear and shield, and the head is placed after the signature of the cashier; the genuine 10's have a ship, and "Bank of Montreal' is in one line.

10's, perfect imitation of genuine English plate-has no water-mark, and has a

somewhat blurred appearance.

BANK OF UPPER CANADA.

10's altered from 1's: vig. railroad train.

10's altered from 1's; vig. a beehive; the true 10's have ror vig. a landscape view.
10's, let. C.; close imitation; Nov. 1st, 1839; general appearance darker than
the genuine, particularly in the foreground of the vig. and the figure X at the bottom

CITY BANK MONTREAL.

10's, vig. British coat of arms; male bust on left end; "Parliament" is spelt "Parliament;" has a bluish look.

COMMERCIAL BANK OF CANADA.

5's, horse and rider on lower right and left corners.

5's, spurious—vig. a female leaning on a wheel.

10's, vig. flying Mercury in clouds, with 10 and scrolls each side; marine view on lower right corner; X., roses and thistles on the left; imitation of genuiue, but of a little dark color. This is a dangerous counterfeit.

20's, altered from 4's, vignette ralway cars.

GORE BANK.

20's & 50's-This Bank has no 20s. or 50s.

NIAGARA DISTRICT BANK.

5's, altered from 1s.—vig. lion and unicorn—milkmaid on left. 10's altered from genuine 1s—bank has no 10s.

QUEBEC BANK.

2's, altered from 1's. Well done.

10's, vig. man and woman-female on each end.

10's, altered from 1's. The altered bill has the letter X substituted for the figure 1 on the upper corners. The genuine tens have the figures 10 on the corners.

20's altered from 1's. The words twenty dollars, partly encroaches on the first of the word currency.

ZIMMERMAN BANK.

5s', 10's & 20's, altered from 1's—vig. suspension Bridge—female, anvil, and hammer on right—Clifton house on left. In the genuine 20's the name of the bank is on the Top of the bill; in the altered bills the name of the bank is below the Suspension Bridge.

Bank Note Reporter.

BANK OF BRITISH NORTH AMERICA

Head Office London, England. Charles NcMab, Secretary. Head Office in the Colonies—Montreal. T. Paton, Gen. Manager.

				DISCOT	INT IN
1 0~				Montreal.	Toronto.
BRANC	u at	Montreal.	Robert Cassels, Manager	par	par
44 .	"	Brantford.	James C. Geddes, Mang'r	1/2	par
"	"	Halifax, N. S.	S. N. Binney, Mang'r	5	5
"	"	Hamilton.	Geo. Taylor, Mang'r	}	par
"	44	Kingston.	Samuel Taylor, Mang'r	į.	par
"	"		Walter Watson	į	par
"	**		F. W. Wood, Mang'r	par	par
"	"	St. John, N. B.	Thomas Christian	5	5
. "	"	Teronto.	W. G. Cassels, Mang'r	ž	par
Agency	at	Dundas.	W. Lash, Agent	į̃	par
. **	"	Ottawa.	A. C. Kelty, Ag't)	par
Agents	in	New York.	R. C. Ferguson, F. H. Grain.	-	•
"	"	Scotland.	National Bank of Scotland, and Bra	anches.	
"	"	Ireland.	Provincial Bank of Ireland, and Br		
"	"	West Indies.	Colonial Bank.		
66	"	Australia.	Union Bank, and Branches.		
44	"	Vancouver	Bank B. N. A.		

BANK OF THE COUNTY OF ELGIN.

(Notes secured by deposit of Government Securities.)

Head Office—St. Thomas, C.W. Edward Ermatinger, Mang'r...... ½

All Foreign business transacted through the Commercial Bank of Canada.

BANK OF MONTREAL.

			DISCOT	UNT IN
Hand on	35 . 3	77 D M G 111 D 17 .	Montreal.	Toronto.
weath Office	ce-Montreal.	Hon. P. McGill, President.		
P		D. Davidson, Cashier		par
Branch at	Montreal.	E. H. King,	. par	par
Branch at	Quebec.	J. Stevenson, Manager	. par	par
	Toronto.	R. Milroy, Mang'r		par
	Hamilton.	A. Milroy, Mang'r	. 1	par
" "	London, C.W	. Wm. Dunn,		par
	Brockville.	F. M. Holmes, Mang'r	. į	par
- 4	Kingston.			par
ίε (ι	Cobourg.	C. H. Morgan, Mang'r		par
11 11	Belleville.	Q. Macnider, Mang'r		par
" "	Bowmanville			par
" "	Brantford.	A. Greer, Mang'r		par
" "	St. Thomas.	E. M. Yarwood, Mang'r		par
* et - et	Ottawa (late	Bytown). P. P. Harris, Mang'r	. 1	par
Agency at	Woodstock	W. J. Buchanan, Agent		par
** **	Cornwall,	W. Mattice, Agent.	1	par
" "	Whitby.	Thos. Dow, Ag't	7	par
u u	Peterboro.	Jackson Rae, Ag't		par
" "	Goderich.	H. McCutcheon,	. 1	par
и и	Simcoe.	S. Read, Ag't	. 1	par
" "	Port Hope.	R Richardon And	. 2	par
"	Picton.	R. Richarson, Ag't	• 3	-
	T TANGET	J. Gray, Ag't	• 2	bar

	BANK O	F MONTREAL (CONTINU	ED.)	DISCOUN	T IN
" " " Agents in Lo " " Li " " Ec " " Gi " " Ne	Lindsay. Herth. Windsor. ondon—The Unverpool—The Blinburgh—The lasgow—Do.	A. Macnider A. Macnider A. Macnider An Bank of London. Ank of Liverpool. British Linen Compan do. Ank of Commerce. hants' Bank.	y, and Branch do.	Montreal.	Toronto. par par par par
	1	BANK DU PEUPLE.		DISCOU	NT IN
				Montreal.	Toronto
u u b u u E u u C	Foronto, I Quebec, C Bowmanville, C London, Eng., C	. DeWitt, President. 3. H. Lemone, Cashier 2. F. Whittemore & C Quebec Bank. John Simpson. Glyn, Mills & Co. Bank of the Republic. its Agencies.	o.	par	par
	20.135				
	BAN	K OF UPPER CANA	ADA.	DISCOU	
	Brockville Hamilton Chatham Kingston Jondon St. Catharines, Montreal Quebec Barrie Belleville Clifton Goderich Lindsay Niagara Vitawa Sort Hope Sarnia Stratford	E. Holden, James Macklam, John McDonald, J. H. Hopkins, T. McCormick, J. Smart. Alex. Vidal J. C. W. Daly	esident.	nar par	par par par par par par par par par

	Ban	k Note Reporter.	71
	BANK OF U	UPPER CANADA (CONTINUED.)	DISCOUNT IN
Agents at "" "" "" "" "" "" "" "" ""	Albany, N. Y Boston Edinburgh London, Eng " " " " " " "	Bank of the Interior. Blake Howe & Co. British Linen Company. Glyn, Mills & Co. Coutts & Co. Barclay, Bevan, Tritton & Co. Bank of London.	Montreal. Toronto
	В	ANK OF TORONTO.	DISCOUNT IN
Head Office- Agency at """ "" "" Agents at ""	Barrie Cobourg Newcastle Peterboro Oakville London, Eng New York, U.S.	J. G. Chewett, President. Angus Cameron, Cashier Angus Russell, Agent J. S. Wallace, " Alexander Smith, " John T. M.Burnside " City Bank. Bank of Commerce.	•••
	CIT	Y BANK, MONTREAL.	DISCOUNT IN
Head Office- Branch at """ Agent at	Montreal. Toronto Quebec Sherbrooke Dublin London, Eng New York	Wm. Workman, President. F. Macculloch, Cashier Thomas Woodside, Manager Daniel McGee, " W. Ritchie, " National Bank of Ireland. Glyn, Mills & Co. Bank of the Republic.	Montreal Toronto. par par par par par par par no issues
Head Office		TERNATIONAL BANK. Capital, \$1,000,000. Fitch, President. J. H. Markell, (itan Bank.	Cashier
Head Off This Bar	Aut	NIAL BANK OF CANADA. horized Capital, \$2,000,000. M. Clark, President. eration.	, Cashier.
		ERCIAL BANK OF CANADA. mmercial Bank of the Midland Diet	rict.)
Koss.	Cashier Belleville Brockville Galt Hamilton	Andrew Thompson, Manager James Bancroft " William Cooke, " W. H. Park, " J. G. Harper, "	Montreal. Toronto. C. S. par

	DISCOUNT IN
Branch at Montreal, Thomas Kirby, " " Port Hope, W. F. Harper. " " Toronto, C. J. Campbell. Agency" Chatham, Thomas McCrae. " " Ingersoll, W. Sage. " " Perth, James Bell. " " Peterboro, Wm. Cluxton. " " Port Stanley, E. C. Warren. " " Prescott, John Patton. " " Stratford, George C. Small. Agents " Albany, New York State Bank. " " Boston, Merchants Bank. " " Bublin—Ireland; Boyle, Low, Pim & Co " " Edinburgh—Scotland; Commercial Bank of Scotland. " " Glasgow " Clydesdale Banking Company. " " London—England; London Joint Stock Bank. " New York, Merchants Bank.	1 par
" Oswego, N. Y.	•
GORE BANK.	DISCOUNT IN
Head office, Hamilton, A. Stevens, President. W. G. Crawford, Casi Agency at Chatham, C. Warteriss, Agent	 es.
MOLSON'S BANK.	
Head Office—Montreal, Wm. Molson, President; W. Sache, Cashier, Agency at Toronto, John Glass, Agent	Montreal, Toronto, par par 1 par
NIAGARA DISTRICT BANK. Head office—St. Catharines. Hon. W. H. Merritt, President. Cashier. Agency at Ingersoll, C. E. Chadwick, Agent. Agents.—London, England,	ranks & Co., Manhattan Co. Canada, in 1854.

ONTARIO BANK.

		•	MIARIO DANK.	DISCO	UNT IN
Hondon				Montreal.	Toronto.
Head Office	Bowmanville	•••	Hon. John Simpson, President		
Agent at	New York		D. Fisher, Cashier	• \$	par
" " " " " " " " " " " " " " " " " " "	London, Eng.	•••	Bank of the Republic. Glyn, Mill & Co.		
	nondon, mag.	•••	aryn, min a co.		
			Nagarana - Mara		
	PROV	VINCI.	AL BANK-STANSTEAD.		
	(Notes secu	red by	deposit of Provincial Securities.)		
				DISCOUN	T IN
Tr .				Montreal.	Toronto.
Head Office	-Stanstead, C.	E.,V	V. Stevens, President,		1 5
	J. V	w. Pet	erson Cashier	*****	
	Agents in Montre	eal	J. D. Nutter & Co.		
	" New 1	York	*********************		
	" Bosto	n			
The notes	of the Provinci	al Ra	nk are not taken in deposit by	onv of th	a other
Banks			. Mantaral and the deposit by	any or m	C Ollicz
diag-	ranches—the Br	okers	in Montreal redeem them at or	ne-nan p	er cent.
"acount.	in Toronto and	other	western cities they are honont	in large s	ums at
two and on	e-half, and, in sn	aller	amounts, at five per cent. discou	qt.	
			·		
		ζ	QUEBEC BANK.		•
				DISCOUN	T IN
n. '.				Montreal.	Toronte.
nead Office	—Quebec, James	s Gibb	, President—C. Gethings, Cashier	par	par
THE HOLL	LOTUDIAD. VV. VV.	B.ansn	m Manager	1	par
Agency at	Montreal Bang	սի ոս	Peuple, Agents	2	F
""	itawa, H. V. I	Vool	reapie, rigents		

	bree Rivers, John	I MCD	ougan, "		
"Kenis at F	redericton, N.B.	; Cent	ral Bank, "		
T	ondon, England	; Glyr	n, Mills, & Co., "		
" N	ew York, U.S.:	Maitl	and, Phelps, & Co		
" s					
	t. John. N. B. : (Comm	ercial Bank, New Brunswick		
	t. John, N. B.;	Comm	ercial Bank, New Brunswick		

PRIVATE BANKERS AND EXCHANGE BROKERS.

Head Office—Clifton, C. W.—Jos. A. Woodruff, President.

J. W. Dunklee, Cashier.

ZIMMERMAN BANK.

Montreal.—C. Dorwin & Co., St. Francois Xavier Street. J. D. Nutter & Co., Place D'Armes, Publishers of C. M's Bank Note Reporter. " Geo. W. Warner, St. Francois Xavier street. ω

D. Fisher & Co., J. E. Malhiot.

Agents in New York, Atlantic Bank.

COMMERCIAL SUMMARY AND REVIEW.

REVIEW OF THE TORONTO MARKETS.

Toronto, Wednesday, Jan. 26th, 1858.

The business of the Month has been perhaps more than usually dull, in consequence of the absence of sleighing, and the uncertain state of the weather. In this latter respect, the present winters remarkable, and we never before have had so many variations of climate, in so short a time as during the past month, The absence of sleighing depresses business, and prevents supplies of produce coming out from the back townships; which indeed comprises the only surplus now on hand, and on which the consumption of the frontier has soley to depend. It would seem that in any event, prices must remain as high as at present, if not go up higher, for the demand for wheat in the Eastern States will be as active as usual, and if it is to be supplied from the small surplus from this quarter, high rates will have to be paid. Prices during the Month have not varied materialy, for all seasonable products closes with an active demand, and firm prices. The following Market Report we abridge from the Globe.

WHEAT—In active demand. Supplies limited, in consequence of the want of good sleighing. Prices continue to exhibit an upward tendency. For good merchantable wheat 7s. to 7s. 6d. is freely paid, while medium and low grades are bought at 6s 6d to 6s 9d per bushel.

Spring wheat is also in very active request. Prices have also advanced, and recently 5s to 5s 3d has been the range, the outside figure being only paid in one or two instances for the purest samples.

FLOUR—There is said to be a considerably improved enquiry for flour; but owing to the absence of stock, the present week has been without transactions. Prices unsettled with a decided upward tendency, and \$5 50 is spoken of as as the nominal quotation for superfine, although we are not cognizant of offers at this rate. For Fancy we hear of no quotation. Extra is named at \$6 to \$6 50, and some favorite brands of double extra are as high as \$7 per barrel.

BARLEY.—Quotes at 4s to 4s 3d per bushel.

RyE.—Nothing of consequence doing. It is named at 3s 6d to 3s 9d per bushel.

OATS have continued scarce and in very active request both for immediate

consumption and for accumulation either for shipment or speculation, in the the event of higher prices. The rates are 2s 7d to 2s 10½d per bushel by weight.

PEAS.—There exists a very active enquiry for Peas, but the supplies are light and no transactions are reported. Nominal quotations are 3s 9d to 4s per bushel.

POTATOES have come in more freely, and by the load have sold at 2s 7d per bushel, and by smaller quantities at 2s 9d.

Sound Appels, of common variety, have brought from 4s to 4s 6d per beshel, and $\$3\frac{\pi}{8}$ to \$4 per barrel.

PORK.—A geod business continues to be done in dressed hogs, for which is still active, both for export and for local purposes. For heavy hogs say over 200lbs, \$6 has been the current rate, with occasionly a prime lot, at \$6 12\frac{1}{2}\$ and \$6 25\$. For light and medium weights \$4 25 to \$5 50 is the quotation.

BEEF.—Slaughtered from farmers sells by the hind quarter at \$5 to \$5½ per 100lbs. Fore-quarters find slow sales at \$3½ to \$4 per 100lbs. On foot first-class cattle bring \$5 to \$5½; medium; \$4½ to \$5, and inferior from \$3½ to \$4½ per 100lbs, deducting one-third for shrinkage.

SHEEP scarce at \$4 to t\$41 each. Lambs-none in the market.

CALVES are becoming plentiful at \$4 to \$5 each.

Tallow finds ready sale at 64d per lb.

BUTTER.—Fresh butter is in moderate supply at 1s to 1s 2d per lb. Tub No. 1 quality has brought at wholesale 16c. per lb.

CHEESE is very firm at \$9 to \$10 per 100 lbs for good American.

Eggs are in better supply, and 1s 3d to 1s 5d per dozen.

Poultry has become scarce, and chickens yesterday brought from 2s to 2s 6d per pair for the best. Geese plucked, 2s 3d to 2s 8d each. Turkeys. 3s 6d to 4s each.

Wool-1s 3d per lb. Sheep skins, 5s to 6s 3d each for fresh slanghtered Beef hides, \$6 to \$61 per 100lbs. Calf skins 6d per lb.

Wood in moderate supply at \$3\frac{1}{4} to \$4 per load of a full cord.

TORONTO STOCK MARKET.

(CORRECTED BY F. P. STOW.)

Toronto, Jan. 29th, 1859.

RATE.	Books closed. None. Nominal. None offering None 8 per ct. dis. 1 to 3 per cent. dis. per an.
DIVIDEND LAST SIX	4 per cent. 4 per cent. 5 per cent. None. None. 4 per cent. 6 per cent. None. None. Apper cent. 6 per cent. 10 per cent.
PAID UP.	All. 5 per cent. 15 per cent. 45 per cent. 20 per cent. 20 per cent. 3 All. 41.
SHARES.	8. d. 550 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
'DESCRIPTION.	Bank of Upper Cansda Bank of Montreal Commercial Bank Bank of British North America Gore Bank, Montreal. Torouto Gas Company Hamilton Gas Company Hamilton Gas Company British America Gore Gore Gore Gore Gore Gore Gore Gore

MONTREAL STOCK MARKET-PREPARED BY THE BOARD OF BROKERS,

÷
1859
. 29th,
Jan.
MONTREAL,
EXCHANGE, 1
ROOM,
BOARD ROOM,

DESCRIPTION.	Shares.	Paid Up.	Dividend Last Six Months.	Buyers.	Sellers.
Bank of Montreal	\$300 00	whole.	4 per cent.	116½ ex div	116% ex. div.
Bank of Montreal, New Stock	500 00	50 per cent.	3 per cent.	116% ex div	None.
Bank of British North America.		whole.	4 per cent.	120	None.
Commercial Bank of Canada	100 00	qo	4 per cent.	111%	111%
City Bank.	00 03	op —	3 per cent.	107% ex div	108 ex div
City Bank, New Stock	80 00	40 per cent.	34per cent.	ex div.	90
Bank of Unner Canada.	20 00	whole.	4 per cent.	95	92.7%
People's Bank	50 00	do	4 per cent.	109	109
Molson's Bank	50 00	40 per cent.	4 per cent.	109%	110
Montreal Mining Company's Consols	50 00	\$15 10	None.	\$3 25	\$3.50
Onebec and Lake Superior Mining Company	00 s	4 10	• • • • • • • • • • • • • • • • • • • •	None.	None.
Lake Huron Silver and Copper Mining Company	5 00	0 75		None.	None.
Canada Mining Company	5 00	26 •		None.	None.
Huron Copper Bay Mining Company	4 00	0 25	• • • •	0.15	0.25
Champlain and St. Lawrence Railroad Company	200 00	whole.	::	10	15
Grand Trunk Railroad Company.	100 00	whole.	6 per cent, per annum.	99	27.70
Great Western of Canada.	100 00	whole.	6 per cent, per annum.	08	5274
Montres Telegraph Company.	40 60	whole.	4 per cent., 6 mos.	115	211
Montreal City Gas Company.	40 00 00 0 4	whole.	3 per cent, 6 mos.	65	93
Government Debentures, 29 years.	:	:	6 per cent. per annum.	103	None.
Con. M. I. F. Debentures.	:	:	6 per cent. per annum.	95	95%
Champlain and St. Lawrence Railroad Bonds.	:	:	7 per cent. per annum.	02	£
Montreal Exchange.	400 00	whole.	6 per cent, per annum	2	2
Montreal Harbour Bonds.	:	:	9 per cent, per annum,	106	11.7
Do Water Works Bonds	:	:	6 per cent, per annum.	94	95

i. ВANK OF MONREAL—Has been in fair demand at 116½, with sales during the week, to some extent; holders are now asking an advance. No new stock offering anxelow asking an are reported at 107½ a Cliy BANK—Small sales are reported at 107½ a

107%: COMMERCIAL BANK—Has been sold at 1111%, but is COMMERCIAL BANK—Has being 1111%.
BANK OF UPPER CLANAR—Remains nominally as

last quoted—no sales reported.

Propres Bank—The latest sales were at 109%, holders ask 110.

STOCKS.

Moleca's Blank—Is generally held at 110; the latest gales were at 109% a 107%.

Montreal. Mining Co. Consons—Sales reported during the week at \$3.50, at which they are now offered.

to report of either stock or bonds.

GRAND TRUKE IAIREAD.—Nothing to report. No skick on the market.

GREAT WESTERN OF GANAIN—Nothing to report.

MANTHEAL IEEERAPH COMPANY STOCK—Is offered if IT. No. sales.

CHAMPLAIN & ST. LAWRENCE RAILROAD-No sales

MONYREAL CITY GAS COMP'T—Is saked for at 95. GOVERNMENT DEBENTURES—None offering; quotation unchanged.
CONSOLIDATED MONORAL LOAN FUND DEBENTURES—Sales are reported at 95%, at which they are now dull.
MONTREAL HARBOR BONDS—The 8 per cent's are asleed to 4106.

MONTREAL MARKETS.

MONTREAL, January 29, 1859.

ASHES—The advance in Pots noted In last report continued till within the last two days, best bills in some instances reaching \$6 17. The advance has now been checked, and they close quiet at \$6 10; receipts large. Pearls are unchanged, but in limited demand at outside quotation.

FLOUR—The market has exibited more excitement during the past week than it has done within the same space of time for some years past. As anticipated in last report, a further advance was established early in the week. All good brands of U. C. Superfine being eagerly taken at \$5 50, and Fancy at \$6. No extra offering. The demand has increased within the last three days and resulted in sales to the extent of 15,000 barrels Superfine at \$6. Some choice brands being reported at \$6 25. Fancy is now held at \$6 75. It is difficult, however, to give quotations, as holders are reserved.

OATMEAL-Holders are asking \$6, which is above views of buyers.

GRAIN—No Wheat offering. Oats have again advanced, holders now asking 62½c. Peas have slightly advanced; small sales reported at 90. Barley—small lots from farmers are now taken at 80c a 85c, which is an advance on last quotation.

PROVISIONS—Beef unchanged; no sales. Pork is unchanged and nominal; no sales worth reporting; holders firm. Butter—good lots are asked for at quotations; ordinary is neglected. Lard unchanged and firm.

NEW YORK MARKETS.

New York, January 22, 1869

FLOUR—Market is better. Sales 900 barrels at \$3 85 a \$4 40 for unsound, \$5 a 5 20 for Superfine State, \$4 50 a 5 90 for Extra State, \$5 90 a 6 00 for common to good Western, \$6 00 a 6 20 for round hoop Ohio. Rye Flour firm at \$3 50 a 4 25. Canadian also firm; sales 400 bbls at \$6 20 a 6 90 for extra.

GRAIN—Buckwheat is dull. Wheat also firmer, but quiet; sales 600 bushels at 85c for damaged Milwaukee Club, \$1 20 for unsound Red Winter Western. Corn firmer; sales small at 85c a 86c for mixed Western. Oats better; sales at 57c a 66c for State, Western and Canadian. Rye m at 85c a 95c.

PROVISIONS—Pork continues firm at \$18 25 for new mess. \$15 70 for old, \$13 35 a 13 50 for Prime. Bacon quiet. Lard firm and active; sales 100 bbls at 12 2c.

STOCKS—Dull and rather lower. Money continues plentiful. Sterling Exchange nominal at 105.

PRICES OF PRODUCE.

MONTREAL, January 24, 1859.

ASHES_Pot	05	@	6 10
Pearl 6	40	@	6 50
FLOUR—Canada Fine	00	@	4 75
Superfine No. 2 0	00	@	0 00
Superfine 6	00	@	0 00
Fancy 0	00	@	6 50
Extra 0	00	(n)	7 25
OATMEAL	50	(a)	5 75
INDIAN MEAL	25	(a)	3 50
WHEAT-U. C. White			
do Mixed 0			
do Red 0	00	@	0 00
L. C. Red	60	(a)	0 00
OATS 0	85	(a)	0 00
PEAS0			
BARLEY 0	75	@	0 00
INDIAN CORN			
PROVISIONS—Beef, Prime Mess			
Prime00			
PORK—Mess			
Prime Mess00			
Prime12			
BUTTER—Choice # 1b	15		
Ordinary	14	@	
LARD# 1b	10	@	121