BY HENRY LYE.

As a constant student of the social problems of Canada, it has been my good fortune to have had access to sources of information which I have had pleasure and satisfaction in utilizing for the benefit of the country at large, through the financial press of Canada, as well as by private and special correspondence.

One of the branches of study of a most interesting and important character, is tuat of the continuously changing conditions of the cultivation of the land.

We see in Great Britain immense estates ceasing to be profitably cultivated, whilst the people of the towns and cities find it impossible to procure fruits or vegetables at reasonable prices, so that, in fact, the working classes scarcely know the taste of fruit and seldom obtain such vegetables as are necessary to health of body and mind.

In the Eastern United States we see similar state of affairs gradually increasing in intensity, yet in both Great Britain and in the United States there is a rapid increase in general wealth, with a gradual widening of the dividing line between rich and poor, between those who have every comfort at their command and those whose lot is constantly becoming more cheerless and hopeless. The cities and towns are increa ing in extent, in population and in riches, whilst the country and the villages are being depleted and impoverished; mortgages are being renewed, increased or foreclosed, although the rates of interest, by their decrease, show that there is not profitable use for the borrowed money.

It is my intention, if possible, at some time in the near future, to write upon the causes of the mistakes and hindrances in connection with the mining industries of Canada, but my present subject is that of the cultivation of the land in Ontario and the Bourbonism of those who should have the interests of the cultivators as their chief study and care. I am not ignorant of the work done at the Government farms and colleges, in fact, I write in the hope that their present comparative uselessness, may by an occasional glance outside of their boundaries on the part of those who have the control of them, lead to such breadth of statesmanship as will cause them to minister to the wealth, comfort and happiness of the agricultural classes en masse.

the welfare of Canada depends altogether | bination with other contents of silos. upon their success, whilst our forests are being depleted, our mines are unworked, our immense stores of iron are not utilized, and our lands are being exhausted, although it must be obvious to every careful observer that we should so protect the regions in which trees only can be sources of income, as that new forests may grow to replace those properly removed, we should remedy the faults of our mining systems, and as "grain areas" remove north-westward, we should replace grain crops by others more remunerative.

this latter direction have been made by ly collected just as the now are, conveyed these attempts were made without previous ometer will take the place of the lactomet- last: consideration of the peculiar circumstances er; the patrons of the factory will be proof the country, they have proved hindrances | tected from fraud in the same way they | adopted in the German factories have made instead of benefits. I refer particularly to the now are in reference to milk; the buildings | the beet sugar manufacture one of the most establishment of beet sugar factories at and appliances of the cheese factory will be profitable of industries, and the work goes etc., enterprises of a character to advance year than they now are, and another source conversion of \$2 per ton of beets, or 1 to the habits and circumstances of the peo- the farmer will be so great as to encourage labour and all materials used, like ple, consequently, just as certainly fore-con- him to an extension of the principles of co- coal, coke, lime, charcoal, wear and tear, demned to loss and failure, as would the operation which have proved so advantageous and interest on the invested capital. The erection of a monster cheese factory to be to him in the matter of cheese factories. dependent upon milk to be carried from far! distant points without any provision for beets, the farmer will require to feed a large either the purity or the quantity or the re- quantity of hay or chopped straw and of ers in direct and collateral industries. One gularity of the supply-for the protection of crushed grain, thus using on his own land the material from decay or for the utiliza- with profit what he now sells without any. profit derived from the manufacture of beet tion of the waste.

graph I have indicated the matter to be the soil which will enable him to cultivate | youd one hundred and twenty days. eastern beet sugar factories. There is no by the farmer at his own home.

not be idle for want of material.

of the beets to distant points.

crushed beets. 5. A well organized system of cultivation

in any state of the operations.

for the general benefit.

There is no doubt but that the system unnecessary freights nor unavailable prowhich prevails on the continent of Europe | duct. could be established here, but as it would They would require less capital than the confer only local benefits and those of doubt- ordinary factory, their output would keep ful character, it is not wise to contemplate | pace with their outlay, they would at the its introduction, yet we should learn what | end of each month pay for the syrup rewe can from it and find how far they may be ceived during the month, and would have adopted, or with advantage combined with returns from most of the month's product of industries which are already established in their own factory before the time of payment Canada. We do not want colonies of serfs | for the syrup would arrive. in this country, but more freemen breath- As to the country in general, no one can ing pure air and living pure lives.

for market and payment is given, because ers of about twenty five per cent. not from negligence or carelessness in their cultivation will result in such excess of saline matter as will cause loss, not only in respect to the particular crops which are improperly grown, but to all that they may be mixed with, thus embarrassing all the stages of would stimulate the better cultivation of raid on you.

ANTHORE AND

of competent district inspectors.

mixture with chaff or grain offal, still there out of it. would be no necessity for either failure of were adopted.

cost for cartage by lessening the weight to cope with this difficulty at once. ducements which require to be offered.

to the end of May every succeeding year turist. their returns, in proportion to the capital Many years ago the farmer found pro-

invested in them, would be doubled. year when the ordinary use of the cheese except one half of the year. factories has ceased. At this time of the

That which is required is a process of evaporation and a treatment of the cheese factories or slight additions thereto, so as to beet root sugar is gradually and continuadvance the syrup to such a stage as will enable it to be conveyed to the central or as an article of commerce. The decline of sugar-producing factory to be finished into

refined sugar. as will enable him to feed his cattle the refuse of the beets whilst it is fresh and pal-I am aware that spasmodic attempts in juice of the beets; these cans will be prompt. of beet sugar will be much larger.

In the latter part of the preceding para- creased means of preserving the fertility of dollars, and the seasondid not extend be-

doubt of the practical patriotism of their In Ontario and Quebec the growth of grain The sugar refineries of this country use vention, made the fibre from American, promoters, nor that they had assurances of for export has ceased to be profitable; it is the beet and cane sugar indiscriminately in Irish and Belgian flax straw, and had it success from parties whom they deemed to not likely that it will ever again be a profit- the manufacture of the block sugar of com- spun and woven, and there is an exhibit of be competent, so that the fact that these able pursuit in either province, so that it is merce, and the family grocer sells the im- the American product at the late Paris exfactories either remain idle or are diverted necessary for some other means of profitable ported refined beet sugar at a price from hibition, placed there by Mr. Dodge of the the fashionable ladies of venice of the prefrom their proper use, is a matter greatly to farming to be found. The breeding and fat- twenty five to fifty per cent above the price Department of Agriculture at Washington, sent day to smoke cigarettes, both when be regretted by all Canadians, the more es- tening of cattle; the breeding and training of cane sugar. pecially as whether for the production of the late war, Louisiana produced of the fibre as produced in five minutes by ball among the nobility receives her guests 1. The proper cultivation of the beet in fertility of the soil as well as with a prolongorder that it may produce the maximum of ation of the season for profitable labour upon saccharine with a minimum of saline matter. our farms we shall have made as desirable 2. An assured supply of properly culti- an advance as was the case when the cheese vated roots in order that the factories may factory system was adopted. Not only will this be done, but the fertility of the soil will 3. A method of manufacture which will be increased by the consumption upon the dispense with the expensive land carriage farm of much that now leaves it for want of combination, and by reason of the better 4. A market or use for the refuse of the cultivation requisite for the production of sugar beets and of flax.

So much for the farms; now for the beet and of gradual manufacture with a view to sugar factories. By this system they would such economy as will not prevent efficiency | receive a regular supply of material, little of which would be waste, concerning none of 6. The co-operation of all the interests which there would be doubt of danger ; in connection with which there would be neither

estimate the benefits which would accrue I. The proper cultivation of beet roots from this sytem. A rough calculation shows must be provided for when the guarantee an increase in the cash receipts of the farm-

ETATE OF ANTI-

2. The assurance of a profitable market would be benefitted by the regular corded. would cause the cultivation of the roots in flow of money into the hands of the such quantities as would meet the demand- farmers ; whilst the non-necessity for the imyet failure of market would not necessarily portation of raw material for our sugar cause loss to the grower of the crop, because factories would keep in the country an imof its great value for feeding purposes in mense amount of money which now goes

The missing link is the mode of treatmarket or of payment if a thorough system | ment of the expressed juice from the beets. I think this is not a very formidable diffi-3. The cartage and freight charges upon culty if properly faced, and I think it is the beets which form the raw material are | worth the while of our sugar refiners, the generally very important items in the cost owners of the now idle beet sugar factories, of the finished product, whilst the profitable our ministers of agriculture, the managers disposition of the waste of the crushed beets of our experimental farm and agricultural is absolutely essential to the financial suc- colleges, our agricultural societies, our cess of the enterprise. I propose to lessen the | chemists and our machinery manufacturers

and bulk of the product to be conveyed, and I cannot see why we should not produce to secure the profitable disposition of the re- | beet sugar just as successfully as the French fuse by causing it to be consumed on the or Germans do, or iron as good as the Rusfarms upon which the beets are grown. This sians or Swedes, nor yet why we should be can only be done by widening the sphere of obliged to follow the methods of France, usefulness and of interest, but cannot be Germany, Sweden or Russia, when we can done so long as the one uncombined idea of reach the same end by means better calmaking sugar from beets restricts the scope | culated to promote the health, comfort, of the enterprise. Let us then consider the morality and prosperity of our people. The facilities now in existence and all the in- solution of the problems as to the best methods of transplanting old-world indus-First, we have in various parts of the coun- tries into a new country in which the contry, buildings and appliances for the manu- ditions of climate, land tenure, habits of facture of cheese which have been the means life, and many other considerations are inof distributing immense amounts of ready volved, is worthy of the study of our most money in the districts in which they are enlightened citizens, not only from a patriosituated. The active operation of these tic point of view, but because of the material cheese factories is generally continued from benefit which would accure to every interest the beginning of June to the end of Decem- in which we are concerned, not the least ber; they are idle during the remainder of of which is preservation of that independthe year. If they could be put to profitable ence of character which can only be found use from the first of October every year in the ranks of the successful agricul-

fitable employment in the fall and winter, These cheese factories have enabled the in the clearing of forests and the preparaprofitable breeding and feeding of cattle tion of land and timber for the operaand the conservation of the productions of tions of the succeeding Spring, but now the soil because of the return to it of the he is without money producing pursuits elements of fertility; they necessitate the for himself and for his labourers from Octouse of large tin cans which could be used ber to May, except in very few cases; confor the conveyance of other liquids when not sequently, the labourers are driven out of have reached a pitch of success my head. If you know what British soldiers required for milk; they contain steam boil | the country or into the towns, and the farmer ers and pipes and pans which could be used is handicapped during the season of active for the purpose of evaporation. The sugar operations, by the difficulty and expense of beet reaches prefection at the time of the obtaining assistance which he cannot utilize

Increase the length of the term of profit-I do not wish to see any material change year certain cows are dried, some for fatten- able labour upon our farms, and you induce in the "National Policy," but I do regret ing and others for breeding purposes. The the settlement of labourers, who, working the general feeling that everything should leaves of the beet are excellent food for cat- constantly, could afford to work more cheapbe sacrificed to the interests of the manufactile, either for milk-producing, or fattening ly, working regularly, would do better work, turers or that it should be imagined that for ordinary feeding purposes, or for com- lead better lives, be profitable customers to our merchants and increase the prosperity

of the whole of our countrymen. We must not lose sight of the fact that ously driving cane sugar out of the market cane sugar is at the rate of about 100,000 tons per annum. It is stated that fourteen Then the farmer will wash and crush his | thousand tons of beets were crushed in the beets at home day by day in such quantities | sugar factory of Claus Spreckless in Cali fornia, last season. The sugar from these beets weighed 1,640 tons. Farmers who enatable. He will fill the cans, erstwhile used | tered upon beet culture netted an average for containing milk, with the expressed of \$35 an acre. Next season the production

In confirmation of my assertion as to the gentlemen in the province of Quebec, by to the now syrup factory and their contents | progress of the beet sugar industry, I quote which they have suffered severe losses, but as immediately operated upon; the sacchar- from the popular Science Monthly of May

"The simple and inexpensive methods monthly disbursements of such an establish-In order to use his daily supply of crushed | ment exceed sixty thousand dollars, and give employment to thousands of wage earnsugar corporation in France reported a net

considered when providing for the introduc- crops which are now impossible because of Under these new conditions the produc- perfect fibre, doing away with all water or tion of any industry which has previously their exhausting nature. So, therefore, the tion of beet sugar in continental Europe has dew wetting and the labor of scutching, been foreign to the country, because no one growing of flax would become more general, doubled in the last decade; and after the and producing a fibre as soft and fine as raw could design more beautiful machinery; which would add another month to the sea- home populations are supplied, the surplus silk, saving the great expense of bleaching, appliances better adapted for the purposes | son for profitable labor, because there is no | is exported to Great Britain and the United | while the fibre is much stronger and the for which they were intended, have never reason why the separation of the seed and the States, reducing the price of sugar in the yield much greater than by the old probeen seen in Canada than was placed in these preparation of the fibre should not be done markets of the world more than fifty per cesses of dew and water rotting. I have

raw material or for the disposal of the finish- poultry, and the growth of fruit are now the more sugar than Germany, and although the her fingers, and all ed product, no country can excel Canada. | only profit yielding branches of agriculture. | beet sugar industry in the latter country in its natural condition, and no injurious the fair dames smoke in the pauses of the With these facts in mind, and enlighten- If we can only add to these such other mas greatly stimulated by the high prices chemicals are used, nothing more so than an dance. ed by our experiences, let us consider the cash producing products as sugar, flax- of sugar prevailing incident to the entire emulsion of linseed oil." The sample ennecessary concomitants of the production of flax-seed, linseed oil and oil cake, with destruction of the closed was examined with much interest by an American lady, created a profound sensasugar from beet roots with profit to all con- out the requirements of extraordinary outlay | United States, yet as late as 1872 the em- | Prof. Willets, Assistant Secretary of Agri- tion in Venetian society last year by declarof capital, and with the preservation of the pire produced only twenty five hundred culture, who in his earlier days, had hackled ing that she would not invite ladies to smoke

must be under the direction and supervision | mechanic, the machinist, the whole- of one million three hundred thousand tons formed the sender that the sender that the sale merchant, indeed all classes of society of sugar and saccharine resultants is re- letter would be earnestly considered by the Beet sugar is rapidly taking the place of cane sugar as an article of commerce. Last year the world's yield of cane sugar was 2,432,000 tons as against 2,530,000 for the year before, a decline of nearly 100,000

> tons over the yield of the previous year. THE FLAX INDUSTRY IN CANADA.

tons. Last year the yield of beet sugar

was 2,808,000, an increase of about 400,000

The flax industry of Ontario has grown to produced and used with advantage, and you wanted them to fire.

there but to manufacture it into binding horse. He was never more vicious. twines, with the praiseworthy object of proto remember, however, that there are limi- report. tations of soil and climate which affect the staple. Some samples from Manitoba are | was as pretty as that of veterans. pronounced, we are told, too hort in straw

their total output.

Some gentlemen at Amherst, U. S., pur- took only a few seconds, but it was many minpose starting a factory for the manufacture utes longer than that to me. of linens, twines, threads &c., from home grown flax. During the past five years from before the motionless rifles I managed to and imported over \$6,000,000 worth of and every one of those stolid men obeyed manufactures of flax. The work of manu- the command with absolute precision. That facturing home-grown flax in the country assured me all the more that had I opened would appear to be a promising industry.

for Ontario Flax growers:

should produce a million acres for flax for ous and helpless a situation. both seed and fibre over and above what is now produced, which would give 12,000,000 Coaticook, West Farnham, Berthieren Haut, in use for at least three months longer every on day and night, at a prime cost for to 15,000,000, bushels of seed, worth as many millions of dollars, and 2,500,000 tons the interests of the agriculturists, but under- of income will be open to every agricultural- cent per pound of sugar, not estimating of flax straw, worth \$50,000,000, and from taken in such manner as not to be adapted ist. But we go further, because the gain to the cost of beet root, but including which 500,000 tons of flax fibre would be obtained worth \$100,000,000. Once established, American invention would soon build up an industry to consume this raw material. Further than this I have to say that I believe an entire revolution in flax and linen for the whole world is at hand. and most assuredly awaiting the operations of the next few months to demonstrate this in America. I have discovered a process by But his great advantage will be in the in- sugar a few years ago of two millions of which the flax straw is handled, and its fibre recovered in a length of time of but five minutes, from the dry natural straw to the demonstrated the practicability of this inlast January. I enclose you a small sample alone and in company. The hostess at a

the operations; consequently the cultivation | the soil. The country store-keeper, the tons, while for the year 1888 a production flax, and it was so satisfactory that he indepartment.

He Was Frightened.

"Was I ever afraid in battle?" said an English army officer. "Many times. But there are different kinds of fright. I have served in India, in Egypt and in Western Africa, but the worst 'funk' I was ever in was when there was no enemy within thousands of miles of me.

"I was a captain at the time and was stabe a considerable one. Its head quarters are | tioned at Fort Royal, Jamaica. We had in the County of Waterloo, where the just got a lot of recruits on our hands, the Perines of Doon and the Livingstones of rawest, greenest recruits you ever saw. I Baden have developed the business from the was drilling them in rifle practice at long day of small things. After many experi- range, and had great trouble to make them ments and vicissitudes these firms and others | obey orders with precision. In fact, one could have found out what can and cannot be pro- never be sure whether they would fire when fitably done; how far native flax can be you wanted them to present or present when

when it is necessary to import from Hol- "I had been sending them through a land. There are now a number of mills, practice one afternoon and they were so besides the establishments, such as that of terribly stupid that I got into a vile humor. Elliot & Co. of Toronto, which crush the The day was fearfully warm and the sun seed and make oil cake. Then Weir & beat down so fiercely that my horse, a wicked Weir, of St. Mary's, and S. J. & D. Taylor brute, got into an almost ungovernable of Guelph, and some others scutch flax and temper. I sat on my horse at the right of the squad and was giving them volley prac-For several years past efforts have been tice at long range. When my patience was made to develop flax-growing in Manitoba, entirely gone the men seemed to gain a little and the reports of the Department of Agri- sense and began to fire with rapidity and culture in that province contain yearly re- accuracy. Things were running as smoothference to the crop. There appears at pre- ly as clockwork and I was soon soothed insent to be a desire to not only grow flax to cheerfulness despite the heat. Not so my

"We were getting along so well by this ducing at home an article so largely used by time that it was 'Ready! Present! Fire!' the farmers of our North West. It is well and the volley would ring out like a single

"Once I cried out 'Ready !' and the work

"'Present,' and rifle went up to shoulder or fibre to be suited for such manufactur- in perfect form. At the very instant I was about to say 'Fire !' my fretting horse bolted, The Messrs. Perine, of Doon, Ont., after cutting directly across the range. I was not an experience of some twenty-five years twenty feet from the squad. My eye caught in growing, scutching and manufacturing, the glittering rifles leveled right at me and now run two scutching mills, and instinctively I closed my eyes and ducked which enables them to turn out, as are you can imagine my feelings, my terrible we are told, a ton of goods per day, fear, for as I said before, I was never before principally twine, for grain-binders, counter | in such a 'funk.' I knew that if I opened my use, express, furniture, sacking and whatnot. | mouth those recruits would riddle my body They exhibit eighty seven different samples. | with rifle balls, for they were expecting the They employ the year round some 160 hands, word 'Fire!' and probably would have taken men, women and girls, and in the fall of the any sound for that. My desire to cry out 'As year about 400 in all. Their flax binder- you were!' to get the rifles off my body was twinenow forms a very important portion of so great that I had to clench my teeth to keep from crying out. Of course the whole thing

"When my plunging horse had carried me Canada exported nearly \$400,000 of flax, wheel him. As he came around I cried 'fire!' my mouth while crossing their range I should A new process with Flax Fibre. -The U. have been a dead man, for they were not S. Economist of New York publishes the drilled sufficiently to distinguish a different following letter from an American, travelling order at the last instant and yet followed in Ireland, which should bear some interest one's words with a blind fidelity.

"I have often thought," added the officer, "There is nothing in the climate or soil with a strange smile on his lips, "that those conflicting with the assertion that just as recruits fancied I had cut across them to good flax and linen may be produced in every | test their drill, for they showed no surprise, state in the American Union as in any coun- not the faintest sign of emotion, when I sudtry. Germany now spins and weaves the denly wheeled and cried 'fire !' But you may finest linen, and she has no essentially dif- well believe that this was not the case. fering climate from America. There is And I pledge you that never afterward in every reason why the American farmers rifle practice did I get caught in so danger-

> The Month of Marriages. When the clover's in its prime, Then's the sweetest marriage time, They the longest honeymoon Have who marry now in June, When the earth's been wooed and won, And the summer's just begun; When the daylight loves to stay, And steals half the night away; And the moonbeams shine so deep That there seems no time for sleep; When the air throbs with the gush Of the silver-throated thrush, And the soil has felt the thill, And bursts into bloom at will, Imitating every shade That the skies have ever made; When the perfume, songs, and light, Earth's fulfilment of her plight, Steal into the human heart, Making all the love chords start Into harmonies so sweet 1; That there seemeth no retreat But to sing and blossom, too, Just as the birds and flowers do.

> > Smoking in Venice.

It is the all but universal custom among

The wife of the son of Robert Browning, at her house, and the little daughter of another American lady unconsciously uttered a

severe criticism upon the custom. The mother was visiting an Italian woman of title, and in her honor a ball was given in the palace of the hostess. The little girl, who was 6 years old, was taken by her nurse from her bed to a gallery where she could look down into the ball-room after the company had assembled. She looked at the brilliant sight for a moment in silence, and then asked, in much wonder.

"Where are the ladies?" "Why, the hall is full of them," answered

"Oh, no," said the child, "all those women but mamma are smoking."

## The Cholera in Europe.

The march of the cholera is worth noting carefully. The gruesome prophecies about the probabilities of a sweep of the dreadful pestilence over the world in 1890 announces that it would start from Asia, as it has done. It has swept on to the Mediterranean, and has now made a descent upon Spanish ports which are in constant communication with our Atlantic scaports. Valencia, where the visitation is now extremely severe, is constantly receiving and sending out American trading ships and steamers. Perhaps the plague will be mastered and localized before it creeps northward to Paris and London; perhaps it will defy all science. If it increases in Europe all American cities should until the autumn frosts arrive.



THE SUPPRESSION OF VICE.

Policeman No. 137921 :- Look out boys, clear away quick, we are going to make a pay special attention to their sanitation