Truth's Contributors.

FROM WINNIPEG TO THE ROOKIES.

BY REV. E. A. STAFFORD, A.B.

No. 1.

This trip is certainly full of high promise. It was much written of before the C. P. R. had penetrated the dense solitudes that still enwrap nearly half a continent. During the summer of 1884 it probably had more advertising by distinguished foreigners, travelling on free passes, than any other route on this much trampled earth ever had. Then it is supposed to exhibit to the tourist's eye that field of agriculture which, only a short time since, was thought to offer to the industrious yeoman the best chance to become an owner of some portion of this earth's surface, and, in the fear that very soon it would be all taken up, men rushed forward, trampling upon each other, in the breathless haste of a genuine land craze, each striving to cover, in his covetons expansion of himself, as large a portion as possible. Private enterprise rivalled great land companies in the seal of appropriation, and in the gilded hope of vast and easy wealth for all. How animating the prospect of eseing the field of all this desire and disappointment !

It was, therefore, with feelings not unlike what I have had in looking upon the field of a great battle, heightened, of course, by the expectation of grandeur where nature has done her best, that I boarded a train for the west. It was September, the harvest month here. The rural life of my childhood had taught my eyes the correct appearance of valuable fields of wheat; but they were now to open with a new delight upon such vast fields of truly golden grain as they had never before beheld. Hundreds of acres. unbroken by a line, as even as if the tops had been clipped, after the manner of a hedge, in not one only, but in many places, rewarded a short excursion north or south of the nation's great commercial artery—the C. P. R. main line. O, hurrying tourist, make the most of the fields of wheat, for you are speeding on into a wide world of monotonous silence, that well start many a strange question in your thoughts. We breakfast at Moose Jaw, in the twenty-fifth hour from Winnipeg, and then on for the whole day without meeting any kind of a train, or seeing a living creature except our own company; occasionally, but not always, some one at a way station, and the countless birds that, yet unhunted, throng upon and about the small lakes in sight of the track. The prairie is not green. No flower blooms upon it. It appears gray and dry as a desert; and on every side this silence and desolation stretches away for hundreds of miles ! They tell us there will be 400,000,000 of people on this continent in the year 2000. Out on this wide waste you ponder upon this calculation. Except for less than a hundred miles about Portage La Prairie you have seen nothing approaching a fairly well peopled section of country. At Moose Jaw you left human habitations far behind. It is hard to believe, in this solitude, that one hundred years hence anything but an echo will answer to the voice of man. There will yet be room for the crowding millions

It fiendish ingenuity had determined to blast the prospects of this country it could not have devised a better plan than to supply the names of localities. Stinking and Belly Rivers, Seven Prisons and Snake land could survive such names?

At the last named place, about forty hours

tact with the first native coal produced by regular mining operations. The Saskatchewan Mine is located near here. It is 660 miles from Winnipeg. At a cent per mile per ton, which is thought a fair rate for carrying coal, \$6.60 a ton is required to carry a tou of this coal to Winnipeg. It has been selling this winter at \$7.50 per ton. It is well adapted for heating in this cold country, as it burns quickly, throws out a great heat, and lasts fairly well, though not as long as anthracite coal. The Galt Mine produces rather a better quality of coal, and is about 100 miles from Medicine Hat. A branch line is being built to it, and it is expected that its product will be sold in Winnipeg next winter at about \$7.50 per ton. This Medicine Hat is a division town or

the main line of the C. P. R. main line,

and the coal interest added to that fact furnishes its raison d'etre. An abrupt turn in the great Saskatohewan, causing on one side a break in its high banks, creates a really heautiful basin, bounded by pretty high cliffs, covering about one thousand acres; said the town lies on one side of this barin. Here three or four hundred people form a very pleasant community, with no outside world very near to them. A detachment of the mounted police, encamped on the hill across the river, a mile away, gives a sense of dignity and security to this quiet town. Beyond, but not far, is the camping ground and the breeding place of such an army of rattle snakes as causes a creeping sensation to think upon. But they are over the stream, and so far away that the citizens are never troubled by them, except when the adventuresome go on a hunt, and expose themselves to these ungenerous enemies. Here the cactus abounds, A flowering cactus, and a species bearing a wholesome berry, in shape and taste very much like the domestic gooseberry, is found in great quantities. Other varieties infest the prairie, growing in patches from one to three or four yards in diameter, and scattered at frequent intervals. Here the cowboy comesto view, and one can learn true economy in modes of transportation by observing the horse trains made up at this point for Fort McLeod, away to the south. Instead of one team attached to each wagon, half a dozen wagons are coupled together after the manner of a train of cars, then as many teams are attached one after another to the forward wagon. In this way John, seated in a great saddle, astride the near wheel horse, manages the whole train, and saves the skill, time and pay of four or five extra men. This is but one illustration of the fact that the great need of this vast west is population. The present generation would be grateful, if, instead of promising one hun. dred millions of people in the year 2001, an instalment of, say five per cent., were hurried out there now very soon.

This need was forcibly impressed upon my mind while stopping at Medicine Hat. Here I met, for the first time, one of those ghosts of sad disappointments in land speculation, which now stalk about in countless numbers over all this western world. It appeared in the form of a very small horse. smaller still by reason of exceeding poverty of flesh, and over his frame hung a harness which, though taken up to the last buckle. appeared like the garment of a very large father upon the body of his very little son. All this harmost and horse were attached to the most demoralized buck-board any one ever saw. The friendly driver had me at his Creeks, Moose Jaw and Medicine Hat; what side, to give me the recreation of a drive

Neither the rig nor those it carried had much spring that day, but as the horse went on, enjoying frequent rests while we tied up the ever-breaking harness, ever and anon leaping abruptly aside to avoid the many cactus beds, and so describing a course inexplicable by geometry, the driver was burning out first-class enthusiasm in the effort to impress me with the superior advantages of that locality for settlement.

I sympathized with him most sincerely. If like Roderick Dhu, by a shout I could have called up strong men covering all the hills, I should have done it. I would gladly have caused a great wave of emigration to break at his feet. But I felt that considering the force of his ples things would have been more in proportion if there had been less of cactus and more of horse; less confidence in his assertion, and more in the buckboard.

We are yet more than 300 miles distant from our western destination. It is a large world ! More anon.

VARIOUS FORMS OF LOW FEVERS.

MALARIA AND OTHER CAUSES PREVENTION.

BY DR. W. CANNIFF, MEDICAL HEALTH OFFICER

The practicing physician meets with not a few cases of disease in which fever is present in varying degrees, which continues fer a longer or shorter time. Sometimes it is continuous, sometimes intermittent, or emittent. The fever is often of a negative, character, or it may approach in character to that which is present in a genuine case of typhoid when duly developed. Typhoid, due to specific germs, may run its course without the characteristic fever. On the other hand, fever due to other causes may have febrile symptoms of the typhoid type. Consequently it is often impossible to determine whether an attack of fever is the result of typhoid germs, or due to other poisonous elements which have found entrance to the human system. The result is that all forms of low fever are very commonly designated typhoid. Sometimes the term malaris, or typho-malaria, is used. Now, ma laria is often met with apart from inhabited districts. It is the product of decomposition and putrefaction of different forms of vegetable matter under certain conditions of heat and moisture. But, while malaria is a frequent cause of fever in low-lying districts, in the neighbourhood of streams and marsh land, and in newly-settled places. it is also often found in thickly-inhabited places, in which cases it is due to drinking water charged with vegetable life, or the specific products of decomposition floating in the air. The malarial poison is regarded as consisting of germ entities possessing great powers of proliferation. It accends in the air, and may be wafted here and there, unseen and unfelt, by those who may inhale it. Malarial poison may also be taken with drinking water. A characteristic of malarial disease is the interremittent, or remittent nature of the fover.

If we recognize as the factors of malaria putrefactive decomposition of vegetable matter with heat and moisture, there is no difficulty in determining as to how the development of the germs should, if possible, be prevented.

What the people require to know iswhat are the causes of the low fevers, call them what you may? How does the poison ties is to have it examined by a « enter the system, and how can the fevers be over the sun-scorched prairie, on a day so prevented or controlled? While malarial out every spring. There is also water that anything with a leaf upon it fever is the product of germs developed in water cistorn, the water of which from our starting point, we came into con must have appeared restful and refreshing. decomposing vegetable matter, other forms foul. Although not censumed it

with typhoid symptoms, apart from true typhoid, are doubtless the result putrefying organic matter, both vegetal and animal. Frequently it is excreme tious material. Low forms of organi fructify in abundance wherever orga matter is fermenting. Heat and mount constitute the necessary additional fact Exclusion of air and sunlight aid in work. The essential conditions may found in many, or in every hole and an of a house, yard, stable, or factory. smells generally, though not always, cate the spot. It may be in the bases where exist collections of garbage, or dec ing vegetables, the floor and walls be damp from want of drainage. It may found in the waste pipe of an imperied deficient water closet, or in a privy cla it may come into the kitchen, or chark or bath-room, from an untrapped waster It may be in a corner of the yard when kitchen slops are deposited, or a foul n water cistern; or a well into which but or soaked, the liquid from the yardorn pit. It may be a sink into which is the all kinds of filthy material, or a stable floor of which is recking with animale: tions. And other sources of foul smells fever germs might be mentioned.

These germs may find their way its human body by the lungs or the ston They may be breathed, or they may be with water or milk, or perhaps with food, upon which they have collected, mould is often seen by the naked of stale food. The poison of these low! is not contagious. Like as in typhoi or more of a family may have the few after another, but they all take itis common source. These fevers are a rarely infectious, except in cases of t which is not often seen in Canada, cris is called ship fever. There is no r virus in the excretions; but they are charged with putrefying material and be promptly disinfected.

The great preventative of these lors are removal and destruction of the factors. All refuse organic matter, th come of domestic life, should be des or removed before decomposition mences, which is more speedy and so hot, wet weather. The best way is tod everything that can be, by fire. The of the kitchen refuse and all of the s ings can be burned up. Slops should be thrown in the yard; there should quate drainage to carry away the water and all fluids coming from the In a city, or large town, the prique should be abolished. In fact they not exist anywhere. Probably the way is to use the earth, or ash close water carriage system, unless then most perfect plumbing, with frequ spection, is attended with dancer. plicated appliances in a water close; delusive. House ventilation and b also ventilation of waste pipes must under the hand of a competent and entious plumber, and it is well to be guidance and inspection of a sanita neer. The purest water possible a should alone be used. Direase andes in many wells, although the wax perently pure and pleasant to the tark are many ways by which the well come defiled. The more thickly thek inhabited the greater the likelihod lution of the water. The only w certain that the water is free from expert. Wells in use should be

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