## THE FARM.

Influence of Food on Milk.

The effects foods have on the richness of the milk are not so easily detected but the effect upon the quality of the milk and but. ter is quite apparent and should be carefully considered and provided for by the best possible selections of dry provender for winter use and the grasses and lands for summer pasturage. A trial carried out last year on the Ontario College Experimental Farm, and recorded in the annual report, has an important bearing upon the vexed question of the effect of a cow's food upon the richness of her milk. There were two trials, but it is necessary to refer to one only, as the conditions under which it was carried on were far more distinctive than those of the other. Eight cows were fed for a month on pasture and one pound of bran each given simply to induce them to come into their stalls ; for a second month on pasture and one pound each of bran, peas and wheat during the first week, in the third and fourth weeks; and, lastly, for a fortnight on pasture and all the green peas and oats they liked to eat.

Now, in the conclusions derived from the results it is said that there was practically no difference in the proportions of butter fat in the milk given by the cows in the first and second periods, and, taking the periods in their entirety, that is true; but it would be quite a mistake to suppose that this proves that the food made no difference to the quality of the milk and it is | ways impresses people who are not vaccinatstrange that the writer of the report did not notice the striking difference which we will mention. In the first place, the cows had been in their winter quarters, in sheds till the end of May, when they were first turned out on to the pasture getting one pound of bran each a day. Before they were turned out the average percentage of butter fat in their milk was 3.51; whereas for the first week on the pasture, it was 4.22, with a considerable increase in the that undoubtedly it never happened before volume of milk.

food making a diffence to the richness of few miles out of the city, is a thrifty gunners from the snow-clad plains of Canmilk. This surprised the manager of the though not a penurious man, and likes to ada, and bronzed troopers, finest of their experiments, who was prepared for the in- do with his own hands what he can do as kind, from the sheep-producing prairies of creased flow of milk, but not for the increase | well as not. He was sure that he could | the Southern Cross. in butter fat. But this is not the first trial vaccinate himself. So he bought a small in which it has been shown that good pas- quantity of vaccine matter of the best guar- haps a little more vividly picturesque—with ture produces richer milk than corn. As anteed quality, took it home, and before its lancers from New South Wales, its against them. Under these circumstances to the lack of appreciable difference in the he retired that night vaccinated himself on gunners from the batteries of Canada - the the English residents are justified in refusquality of the milk in the next two months, the left arm. it is clearly explained by statements made, Next morning he remarked casually to as rich as ever in martial feats of strength as a recent decree enjoins upon all maledenithough the explanation is not recognized. his family at the breakfast-table, as he and skill. The evolutions performed are all zens of the Republic. An attempt on the part It is stated that dry weather and conse- reached around uneasily toward his left, new and are most effective. The pace of the Boers to enforce this decree must surely quent poor pasturage caused the quantity arm, " I vaccinated myself last night, and which is kept up is especially noticeable | lead to resistance on the part of the English, of milk to shrink during the second month- by George, it's taking, too !" ly period, when the cows had a gradually increasing supply of corn. No doubt the " Certainly I did. Simplest thing in the somewhat slow, if stately, movement seen Africa, show that intense excitement premost nutritous grasses were eaten bare be- world. Did it just exactly as well as a docfore the second month began, and the corn | tor could do it." barely made up for the loss. Yet, in spite Mr. Trotwood's family were all admiraof the pasture getting worse and worse, the tion. But before he richness of the milk increased slightly with | went away for the the increase of corn, the average percent- day Mrs. Trotwood, age of fat being 3.82 for the last week of happening to go to the second period, as compared with 3.62 the bath-room, found for the first.

Again, in the last tortnight of the trial, an apothecary's enwhen the cows had all the green peas and velope, marked oats they liked to eat, still running on the | " vaccine matter," pasture, the average percentage of butter | which was sealed. fat increased from 3.82 to 4.01. Comparing and had evidently the results in the last period with those of | never been opened. the first week of the second period (when | She went to her the cows had poor pasturage and little husband. corn), the increase is from 3.62 to 4.01. But the most striking difference is that first | "what did you have mentioned. The cows before being turned | your vaccine matter in ?" out had been getting one bushel of roots, " Why, in an envelope. I got it at the twenty pounds of hay, four pounds of wheat | drug store in town and brought it out, openand four pounds of bran each per day, and the average percentage of fat in their milk during the last week as stated above, was at all !" 3.51; but they did so much better on the fresh herbage of the pasture, probably not touched before since the winter, that, while getting only a pound of bran each in addi- into hearty laughter, and produced another tion, their milk became richer as well as little white envelope, which had been more abundant, the percentage of fat being opened, from the near vicinity of the other 4.22. Seeing that the trials made in a on the shelf. previous year at the Ontario College were relied on to a great extent as having indicated that food made no difference to the and vaccinated yourself with my petunia richness of milk, it is important to notice | seeds !" the latest evidence from that source.

### Spraying Fruit Trees.

Decidedly beneficial results have been obtained from spraying apple trees for two purposes-to prevent the black rot or apple scab, and to destroy the codlin moth larvæ. For codlin worms, one pound of paris green to 320 gallons of water is sufficiently strong using a pure article of green. The benefits from a single spraying about June 25, reduced the wormy apples 50 per cent. The cost was merely nominal. It took about three gallons of liquid to a tree of size to bear 10 bushels of fruit. A spraying apparatus costs about \$10 and requires two men to drive the horse, ply the break and direct the spray. A stronger application would be necessary to kill the canker worms. Spraying for the apple scab was equally efficient but calls for different treatment. This is a fungus disease and disseminated by spores, which in countless numbers infest the trunk and branches of the trees when nude of foliage, and later the leaves and fruit. Spraying the trees before the leaves put out in spring, and once or twice afterwards, with carbonate of copper with or without the ammonia addition prepared according to a bulletin sent out by the Massachusetts experiment station, had a wonderful effect in preventing the effect of the disease upon the fruit.

### Clean Horse Collars.

One reason why horses gall their shoulders when at work is the neglect of the attendant in keeping the portion of the colher that presses against the skin free from dirt, or dandruff, which is constantly gathlumns by the friction of the collar against cidental.

the shoulder in walking. At the beginning of the season's work the shoulder is tender, the hair long and full of dandruff, and when the work is heavy the collar should be cleaned every morning and noon, before commencing the work. For the first few days one or two cleanings during the half day will often prevent galling. This can be done by rubbing the hand briskly several times over the surface. It takes but a moment, and can be done while the team is resting. The shoulders should also be washed with warm water at night, rubbed dry, and if then washed in water in which white oak bark has been boiled for fifteen minutes, the skin is toughened and the galling prevented. Colte, particularly, should have their collars well

#### The Farmer's Riches.

In silver and gold the farmer may be poor indeed, yet in the glories of day, in the mysteries of night, in sunrises, and | the greatest popular pleasures of the year. sunsets, in sighing winds and rushing Who cares for the tournament of tongues waters, in twilights and storms, in all the wonderful and grand operations of nature he may be rich indeed. Like music, true double quantities in the second, and treble poetry exalts human nature. Its mission is to purify. It fills the sky of life with rainbows, and creates ideals towards which we strive. If the goal of the universal brotherhood of man is ever reached, the poets in every land and the poems in every language will be found to have contributed much toward the result.

### MR. TROTWOOD'S VACCINATION.

#### He Carefully and Skilfully Vaccinated Himself With Petunia Seeds.

The humorous aspect of vaccination aled much more keenly and agreeably than it does those who are vaccinated. But in a play, but their appearance has been deferred case which actually occurred last spring in the environs of a great city in which a "smallpox scare" was proceeding, the was done, to see the humorous side of it. It was a very peculiar case—so peculiar and never will happen again.

" Vaccinated yourself !"

upon the shelf there

"Peter," she said,

ed the envelope and used what I needed." "But this envelope has not been opened

Mr. Trotwood was greatly perplexed.

"Why," said he, "I certainly-" At this juncture Mrs. Trotwood burst

" Peter Trotwood," she exclaimed, " I'll tell you what you've done! You've been

It was true. Mr. Trotwood had taken the wrong envelope, and had carefully and skilfully vaccinated himself with petunia seeds -and he was sure it was " working." He saw the humor of the situation, and laughed as heartily as any member of the ladder. The bottom of the skate is provided

### HISTORICAL LIES.

There was probably no such man as Romulus. The first historian who mentions him lived at a distance of time so great as to throw extreme discredit on the story as told by him.

Alexander the great did not weep for other worlds to conquer. There is reason to suspect that his army met with a serious | with a three-loop casting to prevent slipping reverse in India, a fact that induced him to retrace his steps.

The crew of Le Vengeur, the famous or taken off in an instant; that they do French ship sunk by an English man-of-war, not have to be taken off when walking ont did not cry "Vive la Republique!" They the ground ; that by their use standing on bawled for help, and the English boats were the round of a ladder is made as comfortsent to their assistance.

The immense burning glasses with which Archimedes burned the ships of the beseigers of Syracuse at ten miles distance were never manufactured and it is now known that they could not have existed.

Pitt did not use the expression, "The atrocious crime of being a young man." The words were used by Dr. Johnson, who was not present, but wrote a report of the speech from an abstract given him by a hearer.

the Alps. Nor will it dissolve pearls. So that the story of Cleopatra drinking pearls melted in vinegar must have been a fiction,

Worshippers are not crushed by hundreds under the wheels of the car of Juggernaut The car has not been taken out of the temple for many years, and such deaths as ering upon the leather. This is rolled into formerly occurred were exceptional or ac- to come unto me' he did not require their the deed was committed, she said, " the

### FUN FOR SOLDIERS.

Tommy Atkins Plays at Warfare at Isling. ton- British Troops Show Visitors How Battles Are Won,

The royal military tournament, recently held for the fifteenth time at Islington, England, is more than a popular entertainment. It is a public institution, and one too, without which there would be a positive and painfully felt gap in the life of the power to secure an outlet through Swazienation. What people is there under the Sun that does not like a show? And what can be a more fascinating show than one in which all the actors are not professional showmen, but the sternest of all living realities-soldiers and fighting men? With the mass of the nation leavened with the citizen-soldier spirit, this annual assault of arms at Islington, this Isthmia of Tommy Atkins, is naturally welcomed as one of at Westminster in comparison with the tournament of arms at Islington? And what a poor show, thinks the sightseer in London, is made by the gladiators of St. Stephen's as compared with the "All South Africa British" is his mottogladiators of the Agricultural ball 1

The beauty of these tournaments is that they are not restricted to the British army. to them some of their very best wielders of the white weapon; and now Denmark sends choice descendants of the men who used to land upon British coasts, sword in hand, with different intent. It was hoped that a body of United States cavalry would have added to the attractions of this year's distill next June ; and then it will go far to realize the hopes of race universalists, who are always dreaming of an annual Isthmia for all the Anglo-Saxon race. Certainly as a good and promising nucleus of such a fine scheme; and, indeed, there were some who began to think that its realization was well past the initial stage when the home troops of the Queen were seen contending Here we have a clear demonstration of Mr. Trotwood, who lives in a suburb a in the same arena of arms and honor with

But, if last year's tournament was perin previous years.

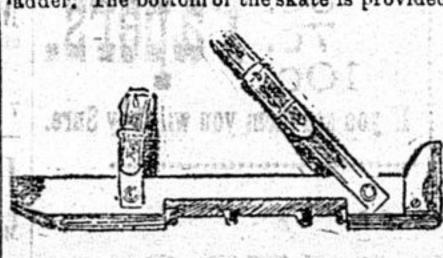
The series of performances of skill and strength by men of the army and auxiliary forces, horse and foot, was opened at the Royal Agricultural hall the other day. Among the visitors from day to day were Prince Edward of Saxe-Weimar, Lord William Seymour, and other military officers of rank. The First Life guards, the Scots guards, the Twentieth hussars, and two batteries of horse artillery, as well as many yeomanry cavalry troops and volunteer battalions, contributed to the varied programme of material displays and athletic

For the combined exhibition of all arms a model of a Soudanese native town on the banks of the Nile was erected, to be attacked by a British force. A light bridge stream, the advanced guards of troops pushed forward and prepared to bivouac; they were soon engaged with the enemy, but were relieved by the arrival of successive reinforcements, with a mountain battery and machine guns. A party of the royal engineers constructed a pontoon bridge and a balloon was sent up to examine the interior of the fortress. These operations resulted in driving out the Soudanese garrison.

SKATES FOR LADDER CLIMBERS. They Give a Surer Footing and Save the

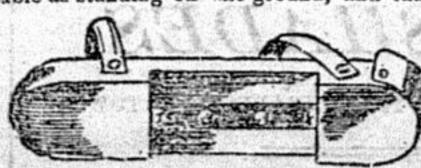
Shoes.

A ladder skate has recently been designed for roofers and other workmen whose employment calls for their frequent use of the



THE LADDER SKATE.

on the round of a ladder. The manufacturers state that the skates can be put on table as standing on the ground, and that



avers of shoes.

and all lower achievements vain.

When Christ said "Suffer little children

#### THE ANGRY BOERS.

Intense Excitement Prevails at Pretoria-The Boers Prepared to do Battle With the British.

The South African Republic is surrounded by British possessions or territory under British protection. It has no outlet to the sea and is not likely to get one. The former President Kruger tried every means in his land to the coast, but was unsuccessful. Rhodes' influence was too much for him. The Boers chafe under this restriction, which bears heavily upon them. The Republic raises its revenue by means of a tax upon imports. These having to pass through British custom houses at the coast, and to be hauled many hundreds of miles by railway or ox team far into the interior, where another tax is imposed at the frontier of the all commodities in the Transvaal, which would not be could the Boers secure an independent route to the coast for themselves. This is looked upon as part of the

#### FORCING OUT POLICY

of the aggressive Premier at the Cape-The existence of the Republic under such circumstances is doubtful, but when it is considered that the discovery of rich gold deposits in the Transvaal has caused France and Italy have in turn contributed great influx of foreigners, so that the British subjects in the Republic equal, if they do not outnumber, the Boer population, it can be easily seen that it will be extremely as messengers of peace and amity some difficult for the Republic to preserve its autonomy for many years longer. The con ventions of 1880 and 1884 with Great Bribut the British retained control of native affairs and foreign relations so that the Boers are prevented from engaging in forindependence and won it by overthrowing, with great slaughter, the British forces of Gen. Colley at Majuba Hill in 1881, and they have jealously guarded the Republic and others, attracted thither by the disfavor by the exclusive Boers, but the country has advanced so amazingly within the past few years that general prosperity reconciles them to the presence of the English incomer or "vitlander." Still they have steadfastly refused to extend the franchise to this large foreign element or to grant it representation in the Boer Parliament, which has

#### EMBITTERED ENGLISH FEELINGS

programme of the present assault of arms is | ing to do military service for the Republic, and to be commended highly. It is usually who refuse under any consideration to bear quick and lively, much in contrast to the arms for the Republic. Reports from South vails at Pretoria, the capital of the Transvaal, that the English have made a demonstration against the Boers, and that the latter, fully armed, were coming in from the surrounding country, prepared to do battle with their hereditary foes, so the situation may be said to be serious. War with the Boers will be no light matter. They are brave, intensely patriotic and skilled riflemen, which qualities have won them victory over the British before, and may again should occasion arise.

## WEALTH OF THE WORLD.

### of the World Increases.

Few people, even among professed politihaving been thrown across an imaginary cians, have much idea of the wealth of the Perishable freight is being ruined on side world or of the manner in which that wealth is growing. Still fewer have any notion of the potentiality of wealth to increase. M. Jannet quotes the elaborate calculation of an ingenious author to show that 100 francs, accumulating at five per cent. compound interest for seven centuries, would be sufficient to buy the whole surface of the globe, both land and water.

> M. Jannet cites various authorities to show that the wealth of Great Britain exceeds £10,000,000,000; that of France, £8,000,000 000; that of all Europe, £40, 000,000,000. If we place the wealth of the rest of the world at £26,000,000,000 we shall arrive at an aggregate of £ 80,000,000. 000. We should have, we may add, to multiply this vast sum 30,000 times before we reached the total to which according to M. Jannet's ingenious authority, 100 francs

accumulating at five per cent. compound interest for 700 years would grow. The figures we have given are so vast that they convey no appreciable idea to the ordinary reader. It may assist the apprehension if it be added that France on an average possesses more than £200, Great Britain more than £250 for each member of the population. Just 200 years ago Sir W. Petty estimated the entire wealth of England at only £ 250,000,000. Two centuries, therefore, have increased it forty-fold. But the chief additions to it have been madein the last fifty years and we believe that we are not far wrong in saying that the sum which is annually added to Great Britain amounts to £200,000,000, or in other words is nearly equal to its entire wealth at the time of the revolution of 1688.

### Result of a Policeman's Mistake.

A regrettable mistake, that has led to tragic consequences, has been made by a member of the "police des mœurs" at Mar. seilles, France. He arrested a respectable young dressmaker, aged 19 years, on suspicion of being an improper character. As the skates are so made that the foot can be it was not until she had been in the prison Vinegar will not split rocks. So Hannibal moved on a ladder to any desired position, cells for a whole night among criminals could not thus have made his way through The point is made that the skates are great | that she succeeded in establishing the fact that she was of unblemished reputation, the occurrence preyed upon the young girl's To become like Christ is the only thing mind, "I could not bear my parents to in the world worth caring for; the thing hear of my misfortune," she said more than before which every ambition of man is folly, once to a friend. In the end she committed suicide by suffocating herself with charcoal fumes. In a pathetic letter, written before police are the cause of my death."

# FAST ATLANTIC SERVICE.

SIR WILLIAM VAN HORNE HOLDS TO HIS OPINION.

Claims That the Country Needs it, and That it Will Pay if Properly Handled. It Must Be of the Very Best Class in Every Particular.

The following interesting statement was made recently by Sir William Van Horne with regard to the proposed fast line :

"I have publicly stated my views about a first-class Canadian Atlantic steamship line a good many times, and I held to those views just as strongly as I ever did. I would be quite unfit for the office I occupy had I not, with the opportunities I have had, become familiar with the commercial interest of the country and with all parts Republic, excessively high prices prevail for of the country. It is possible that my deductions from the knowledge I have acquired are incorrect, but I believe I am right in holding that an Atlantic steamship service of the highest class is the very greatest need of the country. Indeed, I have no doubt whatever about it, nor have I any doubt as to its practicability, to which I have given much attention; o that it will be successful if properly established and handled. where the business is to be had to support it, and I think I can see what effect it will have in promoting the material interests of the country; and I hold that it should be provided at almost any cost. I tain secured to the Boers republican rights, look upon it as a necessary and natural supplement to the enormous expenditures Canada has made for the development of eign intrigue. They had battled for their railways and canals, and that it will have a most powerful effect in attracting people to the country. I hold that it would be folly to start at this late date with a second victim of the operation was able, before all the Isthmia at Islington is already acting ever since. The influx of British miners rate line; and in order that it may be effective. tive and successful, it must be of the very coveries of gold, was not regarded with highest class. It must be all that money will make it. The Canadian Pacific Railway Company has no financial interest, and is not likely to have, in any scheme now under consideration. We would prefer to see the service established by some one of the prese ent Canadian Atlantic lines, or by a combination of them; but if they will not undertake it, anybody else who does will have our hearty cheers, provided, of course, that the service furnished is just what we think it should be. This company indicated to the Government at one time the conditions on which it would undertake to furnish the service, but these conditions were not deemed practicable, and the company has sinct dropped out of the question. It should nobe forgotten that when this company move ed towards the establishment of a first-class Pacific steamship line most of those who ought to know insisted that we could never induce passengers to go to Vancouver to take ship for China and Japan; but the results have strikingly disproved this, and they have proved that people who have travelled by sea will travel by the very best ships, from whatever port they sail."

### THE PULLMAN BOYCOTT.

#### The Mevement Gathering Strength-Not & Car Leaving Chicago.

A Chicago despatch says :- The extent of the Pullman boycott strike was indicated Thursday by the flood of telegrams received The Astonishing Rate at Which the Wealth by President Debes, of the American Union; the movement has gathered strength until nowit paralyzes the traffic of the whole west. tracks of overland routes in Texas, New Mexico, Arizona and Southern California as well as Nebraska, Utah, Montana, Oregon, Idaho, Minnesota and the Dakotas. Travel is stopped from the Pacific coast east, and not a car is leaving Chicago for the west. Messages received to-day from Minneapolis, Duluth, Los Angeles, Sprague, Wash., Emporia, Kan., Livingston, Butte and Missoula, Mon., and Little Falls, Minn., all agree that no trains are moving from Chicago to the Pacific coast.

No trains, through or suburban, were running on the Illinois Central into or out of Chicago to day. By 10 o'clock this morning the Galen and Wisconsin division of the Chicago North-western was at a standstill. Announcement was made that every road entering the Union depot would be tied up at noon. The Chicago, Burlington and Quincy, the Pennsylvania, the Chicago and Alton and the Chicago, Milwaukee and St. Paul, would all be affected if traffic at the Union depot should be

### Seeing the Editor.

The office boy, who was also guardian of he gate of the Occidentalist, was sunning himself lazily in front of the office when a rough-looking citizen, with his pantaloons in his boots and a gun in his coat-tail pocket\* approached the porteullis.

"Can I see the editor?" he asked in a voice that sounded like a bass drum out of tune "Do you want him to see you?" asked the guardian significantly.

"I don't care if he does or not, so long's can see him."

This did not strike the guardian propitiously. "What do you want to see him about?" he asked on another tack.

"About four minutes and a half," was the rather equivocal reply.

"Is it personal?" inquired the boy, disregarding the ancient form of witticism in the answer.

"Want to lick him?"

"No; want to pay my subscription fer last year and the year to come." The boy jumped up; he hadn't moved pre-

"Walk right in," he said, shoving the door open; "walk right in; but say, mister, don't spring it on him sudden; he ain't used to it and something might happen."

Policemen in Austria must understand telegraphy.