AGRICULTURAL.

Northern Agriculture.

It is wonderful that growth is made by plants under the long continued light of the Arctic summer, notwithstanding the sun attains no great elevation above the horizon. The light, such as it is, is almost constant furnish. for weeks together, at dt its constancy makes up, in great part, for the shortness of the It is to be kept in mind, also, that the growth of vegetation is not wholly deper dent upon the heat rays of the sun.

This becomes evident from the fact that wheat, for example, will grow in soil that, rape. They were shorn and pastured for a time of they were shorn a fed in sheds until the even in midsunmer, is not thawed more end of April, when they were shipped to than a foot below the surface. The limits of cultivation toward the pole are noticed in this letter, I may say that the financial asone of Mr. Vincent's books of travel.

In Siberia, agriculture ceases at sixty deripen under sixty-nine degrees, rye a half degree, and leg a whole degree further north. In Finmark the summer heat is intense, and daylight is continuous for ten anything in the slightest degree complicated.

The rapid growth of vegetation in Finmark is almost incredible. During the short summer crops are sown, ripened and harvested. It has been found by experiment that in latitude sixty-five degrees north, barley will grow two and one-half inches, and peas three inches in the twenty-four hours for several consecutive days. Barley is harvested in ten weeks after being sown.

At Hamerfest, in latitude seventy degrees and forty minutes north, the grass grows underneath the snow, and hay is made in a month after the snow has left the

also gradually changed to a richer and dark-

These are not the only variations that aroma and flavor than the same fruits grown under more southern skies. That is particach. Our farmers should have no trouble cularly observable in the small fruits that are so grateful in the early part of the warm

The experiments of this Norwegian scientist derive double interest from the recent inquiries of Doctor Siemens, illustrating the power of the electric light when applied to plants and vegetables to quicken and invigorate their growth. The two investigations, though entirely independent, have led to the same scientific result.

Campbeltown Diseased Meat Case.

as follows to the Meat Trade's Journal :-DEAR SIR,—In reading over your Journal of the 16th inst. I find you there give an account of the tuberculosis case tried in the Central Police Court. Glasgow, before Central Police Court, Glasgow, before Stipendiary Gemmel, who, after hearing the evidence, imposed a fine of £20 or two months' imprisonment. This being the first case tried under the new Public Health Act passed for Glasgow, it is but right a few comments on the case should be made. The carcase of beef in question was seized in Campbeltown, a town in Argyleshire, a long way distant from Glasgow, and entirely cut of the jurisdiction of Glasgow, by the Superintendent of Police there, who called in Dr. Gordon of that town to examine the carcase, who condemned it as being unfit for human food. Asking the defender what he was going to do with it, he replied that being dissatisfied with their decision, he was going to send it up to Glasgow to get it inspected there. It appears the Superintendent and Dr. Gordon consented to this, graphed to the sanitary authorities in Glasgow to do so, which they did, and who prosecuted the defender, getting a conviction against him.

This is all very well. The punishment meted out to the defender may or may not have been right enough. What I wish to have been right enough. comment upon and protest against is the authorities of Campbeltown allowing this same carcase to leave their hands after being seized by them and condemned, and getting Glasgow to do their dirty work in prosecut ing the defender, and causing the fair fame of Glasgow to be blasted through it. In the event of the defender not paying his fine he would have been detained for two montles at

the City's expense.

In my opinion there is too much laxity displayed in other towns by the authorities governing them in not being conversant with their powers, and whenever they make a mistake through a display of ignorance and red tape, apprise our officials of it, and get them to do what should have been done by themselves, and thus save themselves a great

Lambs for the British Market.

To the Editor of The Empire,

SIR,-Your issue of the 7th inst. contains a letter from Alderman Frankland regarding the lambs which were shipped from this college farm in the month of May. In that letter the alderman mentions that he expects me to supplement his letter with another, explaining the methods of feeding by which "the lambs were brought to so high a state of perfection." To do this will afford me of perfection." To do this will afford movery much pleasure, and with your conburrence, Mr. Editor, I promise you a letter very shortly giving this information, and also a summary of the financial statement relating to the transaction. I may mention further that a bulletin will be put in the hards of the Department of Agriculture about a month hence, giving full details of the whole transaction in all its phases.

In the meantime I desire to say that I am greatly pleased with the more important features relating to this venture. I never did feel so much concern regarding the price that would be paid for the lambs, as regarding their acceptability in the English mar-

Frankland has stated so well in his letter regarding the quality of these lambs, I may add that the English press have been loud in their praises. Since these lambs have pleased the people of England so well, I have no hesitation in saying that we can easily give them lambs in the future which will please them even better. These lambs were good, but not so good as this country can

The lambs composing the shipment were nurchased by Mr. Storey, the farm foreman in the month of September last. They were bought in the counties of Lanark and Carle-ton, and brought thence to this farm, where they were shorn and pastured for a time on

pect of the venture is satisfactory.

These lambs received no more attention grees of north latitude, but in Norway oats than can be given by any farmer who has They were fed on food such as any farmer may grow, in almost any part of the Domin-

It is to be hoped that our firmers will give this matter the attention which its importance demands. There are, doubtless, great possibilities connected with the future of this trade. It may yet become one of the most important industries of Canada. I go further, and say that it is likely to be come one of the most important industries of the country; nay, it is almost certain to become one of our most important industries, and I ask the farmers of all Canada to note fields. Here the Scotch fir flourishes vigor this fact, and to weigh it well. If each farously, sometimes reaching an altitude of mer of this province were to fatten but six But a little further east in this lambs a year for this market he would get a same latitude, in winter, mercury and even brandy frequently freeze in the open air.

A Norwegian scientist has been engaged our farmers very well know. We would A Norwegian scientist has been engaged our farmers very well know. We would for thirty years in making experiments to then have 1, 00,000 lambs for annual shipdetermine the effects to the midnight sun, ment. This would bring annually into the during the Scandinavian summers, on the country more than \$10,000,000 of British wheat and other grain crops. The conclu- money -a larger amount than is now obtainsion he reaches is that wheat, corn and other seeds imported from a warmer clime, when cultivated under this unintermittent sunlight, become hardier as well lambs, and these would relate to the lack of as larger, and are better able to resist ex-shipping accommodation. Notwithstanding, cessive cold. The colors of these grains are it is certainly true that there are splendid possibilities in reference to this trade.

Ald. Frankland dwells with a satisfaction These are not the only variations that plants undergo by exposure to a night and day sun. Wild and cultivated fruits, ripened in northern lands, have a much livelier est quotation in the wholesale market." in raising lambs which would dress 75 to 80 lbs. each when one year old, and of a quality the very best. The alderman speaks of the ready sale and good prices obtained for lambs of the Shropshire and Hampshire breeds. Along with these may be mentioned the Oxford Down and the Southdown. If the sires belong to one or other of these breeds the lambs may be of any grade, so

long as they are average in quality.
Ald. Frankland has certainly performed well the task assigned him. He has let the people of England know through the A Mr. Dancan Perritt of Glasgow writes ply them with mutton equal to that grown upon the varied herbage of their mountains,

Yours, etc., THOMAS SHAW.

Ontario Agricultural College, Guelph, June 11, 1891.

Agricultural Notes.

The statement made in the British House of Commons by Mr. Chaplin, Minister of Agriculture, in regard to the recent deten-tion of Canadian cattle is briefly as follows: tion of Canadian cattle is briefly as follows: stared at her.

—Two cargoes of cattle were landed about noon on May 24, 603 from the steamship I've been robbed!" he shouted, as he danced Huron and 300 from the steamship Mongolian, and placed in the same shed. Upon inspection one beast was found badly affected with some form of lung disease. The inspector telegraphed next day to the department that he had detained the cattle, and sent the for they allowed him to do so. Immediately after they must have taken a remorse of the 26th—the day afterwards—the lungs of "G-gone!" he gasped, as he put his hand conscience, for they at once telegraped to the Greenock authorities to seize it, but they refused to interfere the series of the same day, that is to say, after being detained for 48 hours. All cattle coming from free countries, of which Canada is one, are detained by the orders which have been in force for many years, for not less than 12 hours for inspection, and very commonly for 24. Some the cattle were branded, but that would be no guarantee against disease, and sporadic disease can be distinguished by experts from pleuro-pneumonia. The Minister regards the question as so serious that it ought not to be decided except after the most careful inquiry.

A moth or butterfly is said to have become so troublesome and destructive in a forest in Bavaria that it was necessary to destroy it. Children were employed to collect the caterpillars and were paid so much per bucketful. This was found expensive and ineffective, so enormous fly-papers were tried. These also had no ap-preciable result. Finally, it is said, an electric search light in connection with a blowing fan was designed. The insects are attracted by the light and fly near the lantern; they are then drawn into the suction pipe by the air draught and carried to a sort of mill which mixes them with a little flour. The resulting compound is then used for poultry food.

A new industry has sprung up in Germany. The young leaves of the wild straw berry are picked, carefully dried, and used instead of Chinese tea, which they are said to approach very closely in flavor. An addition of young bramble and woodruff leaves is said to add to the flavor.

One remedy to prevent squirrels, mice and birds finding planted corn, is to harrow the ground immediately after planting to cover the planter tracks, and then to scatter corn about the border of the fields and in the vicinity of the squirrelholes as soon as the corn begins to come up.

The wool clip in Ausralia this year is the largest in the history of the colonies and will reach \$100,000,000 in value. There will be 20,000,000 bushels of wheat for export. The colonies generally are said to favor trade with the United States.

Fences are the costliest item of so-called farm improvements, involving an unproductive capital of \$700,000,000 in this country. tive capital of \$700,000,000 in this country.
This matter I regard as forever set rest. In addition to what Alderman cumulated richness near and beneath them.

They occupy the best land, because of accumulated richness near and beneath them.

MR. AND MRS, BOWSER,

"Mrs. Bowser," began Mr. Bowser as he came downstairs the other morning, "is this house run on a system or is everything expected to take care of itself?"

'What do you mean?" she asked. "I mean that I have been looking for a shoe-string for the last hour and a half and that nothing of the sort is to be found!"
"No; I don't believe there is one in the

house."
"I presume not! I presume the two hunfore we left have all been chewed up by the cat or sold to the ragman. If there's a worse-run house than ours in America I'd like to see it!"

"Why, Mr. Bowser, you only brought home three shoe-strings, and you used two of those to tie up your papers!"

moving and anpacking."
"Don't doubt it in the least. While a

you go out on the street to-day you had course much, very much, if not all, of the better have a policeman go with you. If fitness and grace of such intercessions denot, you'll lose your purse or he robbed of pended upon the gifts of the minister, his

he entered the house with a smile on his and speech, his saying just enough, and at face and the door-mat in his hand, and

basement? It's a wonder to me they haven't

come in after the carpets!"

"That's a mat the girl put out in the barrel to be carted away," she explained.

"Oh! It is! More reckless extravagance,

I see! Mrs. Bowser, I want to sit down with you some day and have a long talk. I think you mean well, but you are deficient in judgment, and your knowledge of the world is very, very limited."

"Do you know everything?" she sar-

his favorite attitude, "there are probably one or two things I don't know! I don't claim to know it all, and I don't say you know nothing whatever. The husband who does not, however, know forty times as much as his wife, would be considered a stick of a man. Did you go out this morning?"
'I did."

"Was your bonrat taken off your head?"
"No, sir!"

"Lucky—very lucky! You are to be congratulated. I don't"——
"Mr. Bowser, where's your watch?" she

interrupted. "My watch, Mrs. Bowser—my watch is—great Scott!"

He dropped his hand to find the chain, but it was not there. He felt for the

watch, but it was gone.
"Did you leave it at the jeweller's?" she asked, as he stood with open mouth and

around.

around.
"It can't be. Feel in all your pockets."
"Pockets! Pockets! Do you 'spose I carry my watch in my coat-tail pocket! I tell you I've been robbed!" "Well, don't take on so; your wallet is

orgone: he gasper, as he plut with a land up—" watch and wallet both gone!"
"You must have been robbed in some crowd," she suggested.
"Robbed! Crowd! Robbed! Of course

I've been robbed!" he shouted, as he pranced about. "Git that infernal cat off that lounge and lemme lay down, for I'm so weak I can't stand up! Where's that cam-

phor ?" She ran for the bottle as he flopped down, and for the next three minutes he had his nose in the opening.

"You ought to go to the police at once," she finally said.

G-gone! G-gone!" he gasped. "But how could you have been robbed?" I dunno! Hold the bottle a little high

"You are so careful, you know."

"You never mislay anything or forget anything. "No "And never lose anything, and have so

much worldly wisdom.
"Oh! my head!" "I can't make it out. I am so careless

that I might lose a shoestring in moving here from Detroit, but you "Don't talk to me! Over \$600 gone!"
"A woman tried to steal my reticule in

Buffalo and I had her arrested, but it seems that you"——
"Gone! Gone!" he groaned.

"Haven't you no idea of when it was taken ?" she persisted.

"Well, I am sorry, but this will be a great lesson to you. You will be more"——
"Mrs. Bowser!" he interrupted as he suddenly sat up, "I see through it all now. It's as plain as daylight!"
"What do you mean?"

"I thought it necessary this morning to give you a little advice. I felt it to be my duty as a husband. This is your way of getting even !"
"Why, Mr. Bowser!"

"Don't why Mr. Bowser me! It's as plain as that chair over there!"

"How could I rob you or tell any one else to?" she demanded. " Never you mind! I see it all! Its all right, Mrs. Bowser—all right! Just let go this camphor bottle and take a seat in the other room! A husband will bear a great

we will come to an understanding, and you can probably take the noon train for your mother's in Detroit. Robbed. Plundered! But I see through it and know my duty!"

TRAVERSOFTHE PURITANS.

'Sending Up a Note" in Old-Time New England Churches.

in the small country villages all the inhab tants were brought together in the closes

-the birth of a child, espousals, sickness, absence from home, and death. Whatever social or class distinctions existed in any place-and there were such, for the "seat ing" of each congregation was a method of "Well, where's the other?"
"I can't tell. We may have lost it in ly and individual in the precinct could introduce their wants and woes in the public Don't doubt it in the least. While a prayers. So the minister, as he mounted the shoe string is not as big as a piano or as pulpit, had in his hand one or many "bills" valuable as a clock, the loss of it shows a or "notes" offered by individuals or want of system, a reckless extravagance families by name, stating the occasion or truly discouraging. Have you got a piece of clothes-line in the house?"

"I—I don't think so," she stammered.

"I—I don't think so," she stammered. "I—I don't think so," she stammered.
"Probably not! Probably gone to join the shoe-string! I must have something to tie up my shoe with, however, and I will use a piece of stovepipe wire."

After breakfast, when ready to go out, he said: one by one, and then frame a fitting inter-"Mrs. Bowser, I hope you will take this icesion to heart. Carelessness in a wife is a very reprehensible trait."

"You are just as careless as I am!" she tracted illness, bereavement, and the various protested.

"No, ma'am! No ma'am! I never mislay anything, forget anything or lose anything! Very few husbands do. I will anything! Very few husbands do. I will communities, in which no one was a strang-communities, in which no one was a strang-communities, in which no one was a strang-communities. choice of words and phrases, his delicacy, When Mr. Bowser came up to luncheon unction, refinement, and dignity of manner possibilities of infelicity and blundering, "I found a boy walking off with this mat! and of a large range in failures of taste and Has any one taken the range out of the sentiment. The risk was of formality, repetition of phrase, and sameness of language. The minister might fall short of the definiteness, the individuality, of specific references in such cases, disappointing the listening petitioners for whom he was a proxy. There were in the ministry occasionally, and not infrequently, men of eccentric ways, of quaint speech, sometimes very literal and overfrank and plain, whose expressions "Pretty soon we pulled up at a station," overfrank and plain, whose expressions might include or suggest judgments, opinions, on matters to be borne up in opinions, on matters to be borne up in prayer. Such a case comes authenticated castically queried.

"Mrs. Bowser," he replied, as he folded his hands under his coat-tails and assumed the trial and exhaustion of tending an invalid wife in a protracted and hopeless malady by sending up a "bill" on several successive Sundays. Perhaps the minister also shared in the weariness of these repeated calls on his intercession, well knowing the certainty of the impending issue. So he framed his petition "that the Lord, if it seemed good to him, would raise her up, or that she might be speedily and gently removed."

A large part of the more serious, interest-

ing, and important concerns in a rural community would find their way into the prayers of the sanctuary. Sometimes the minister, bent on some public or private rebuke or centure, would dare the venture of insinuating it in his prayer rather than in his ser-

mon.

Apples in June.

Apples a-plenty in June are not a new thing in London. English people have taken from Canada to a large extent a liking for having such fruit on the table, and the liking is growing. The luxury is within the reach of families who are far from being wealthy. The demand is supplied principally by Austria tralia, and the fruit growers of that country are displaying a fine enterprise over it. The Australian apple is ripe about Christmas, and by the time it reaches the English market it does not come into competition with the home supply, nor with the rapidly growing quantity that Canada sends.

The article in The Nineteenth Century From Albert Nyanza to Indian Ocean" by Lieut. W. G. Stairs, a Canadian whose conduct won high praises from Mr. Stanley. It is characterised, like his former article by modesty and good sense, and is pleasant as well as instructive reading. He makes some interesting observations on the presence of black women in caravans. It great mistake, he says, to suppose that black women hinder the rapid marching of a caravan in Africa ; they are of immense help to the men, and consequently to the leader of an expedition. They carry the cooking pots and food enough to last them-selves and their husbands six or eight days, prepare the meals, wash the clothes and ge the camp ready, besides enlivening all with their pleasant chatter and singing. Uusually they are the equals of the men outstany one are one equals of the men in marching ability. He remarks also that in a single day's march the Zanzibari would leave most Englishmen behind, but after that his feet would become tender and the white man would pass him.

Whether Sergius Sterniak the Nihilist can be relied upon to furnish American readers with an impartial account of the Czar's dealings with his Jewish subjects is a question. But there can be no doubt that Step-niak is well acquainted with the condition of the Jewish people in the centres of Russian population, and from that point of view it is interesting to know what he has to say on the subject. Some writers would have the readers of English, French and American newspapers believe that the Jews are in a large measure themselves responsible for the persecution which is being carried out against them. Stepniak removes that impression at all events. Instead of the majority of Hebrews amassing riches by the practice of usury, he tells us that most of them live in extreme poverty, while the "paternal Government" never interferes but to goad them into utter despair by pretty tyranny extortions, and so forth. Stepniak, strangely enough, takes the ground that the truly patriotic Russian, who is nothing if not a pillar of the Greek church, opposes the present anti-Semitic policy. He would make the Government alone responsible and redoem the reputation of his country-men from the shame of carrying on a religious presecu-

FREAK OF A CYCLONE

A Railroad Train Turned Com. pletely Round.

A "Yarn" Which Some People Will Find

it Difficult to Believe.

An old driver, known as Panhandle Dan told in perfect good faith the other day the

following extraordinary adventure:—

"When I was pulling passenger out on
the K. P. it was my proud boast that in the
three years I had been on the run I had never been late. I always got over the road according to the time-card without regard to washouts, wrecks, and sich-in fact, I was building up a world-beating record, until a cyclone one day laid me out so scandalous that I resigned as soon as I got to the end of the run. Yes, sir, in three minutes the record I had been three years a-buildin' smashed so fine that a search warrant couldn't a-located where it stood. And what made it so aggravatin' was that I had to double thirty-six miles of road that I couldn't turn in mileage for.
"You see, we left Salina at 2 p. m., with

the Denver express. We got to Brookville and then to Ellsworth right on time. Our next stop was at Oakley. It had been pretty cloudy all afternoon, and about two miles out of Ellsworth I noticed a cloud, blacker'n midnight, that seemed to rise up out o' the prairie about a mile away on the right-hand side of the track. It blossomed out at the top and started obliquely toward the track and in the direction we were going, with a roar that sends a cold chill down my back when I think of it to this day. I saw that it would cross the road about a mile ahead and just about the time we got there. Right there I made the mistake of my life. I should have stopped and let that stemwinder go on; but I remembered that it would make us late at Oakley, surer'n guns if we did, so, thinkin' of my record, I pulled her open to head off the cyclone.
"Jim Doolittle was firin' for me then.

Jim comes over on my side and looks at that stemwinder a minute. 'Dan,' he says, down-hearted like, 'it's pretty hard lines for a feller that's gone through three head-end collisions and two spells of the grip to get done up in a low-down cyclone.' Just then that tornader took a sharp twist and headed straight for us. I remember thinkin' how nice it would be if I knew how to pray, and then, when I had dug the sand out of my

and I got down to oil 'round, when Jerry Blake, the conductor, comes bustling up with his time-card in one hand and his

watch in the other.
"'Dan,' says he, 'what town's this?'

"'Vhy, it's Oakley, of course,' says I, without lookin' up.
"'Of course, must be;' says Jerry. "We

are due at Oakley at 3:06, and it's just 3:063 now. There can't be no doubt about it bein' Oakley. But I'll be blowed if I ever knowed before that Oakley was so much like Ells-

'I raised my eyes and there was 'Ellsworth' over the waiting-room door in letters a foot high. I got right up and pulled out for the next town without saying a word. The next stop ought to have been at Lin-wood, but the town we got to looked enough like Brookville to be its twin brother. Jerry tottered up to the engine so pale that a snowdrift would have looked like a heap of charcoal beside him.

"'Dan,' says he, 'I'll never touch another drop of whisky so long's I live, so

help me gracious.'
''Sh-h!' says I, 'go back to the baggage car and don't say nothin'. I'm with you on

that pledge,' and off we goes agin.
"We ought to have got to Wallace, but after a lively spin of twenty minutes we pulled into Salina, right where we started from an hour and twenty minutes before. There couldn't be no sort of doubt about it, for out comes the trainmaster foaming at the mouth and wants to know what in biankety-blank-blank-blank we meant by laying out the express two hours. You see, he thought we hadn't started on the run yet, when the fact was we had got over thirty-six miles of road when that cyclone took up the whole train, turned it end for end, and set it back on the rails again, and there we had started on the back track without ever slippin' a turn. And that wasn't all. The baggage, and express, and postal tellers had dumped out mail and truck as though we were goin' straight ahead; and the brakies had hustled off way passengers at the same stations they got on at, and there was no end of investigations, and damage suits, and confusion generally in consequence.'

Never Again.

Miss Vixen: "I am almost positive Fred Hathway intends proposing to me to-night, mamma

Mrs. Vixen: "What makes you think so,

my dear?"
Miss Vixen: "He acted so mysterious when I met him on the street this morning.

Mrs. Vixen: "Mysterious? How?"
"Miss Vixen: "Why, when I met him he
blushed and stammered like a silly schoolgirl, and finally blurted out that he would like to see me alone this evening. He makes me very ennui." Mrs. Vixen: "Well do you intend to see

him? him?"
Miss Vixen: "Oh, yes, I'll see him. But you mark my words, if he proposes to me to-night he'll never propose to another girl if he lives to be 100."

Mrs. Vixen: "I hope you won't decline his offer insultingly?"

Miss Vixen: "No, I'll accept him."

Multiplication Table for All.

The Gambler's—Won times one is won.
The Tobacconist's—Chew times one is

The Slave's-Free times one is free. The Society Leader's—Fore times one is

The Musician's—Fife times one is fife. The Invalid's-Sicks time one is sicks. The Religionist's-Seven times one is

The Cannibal's-Ate times one is ate The German's-Nein times one is nein. The Roofer's-Tin times one is tin.

The Baker's-Leven times one is leven.

The Fairies'—Tw'elf times one is tw'elf.