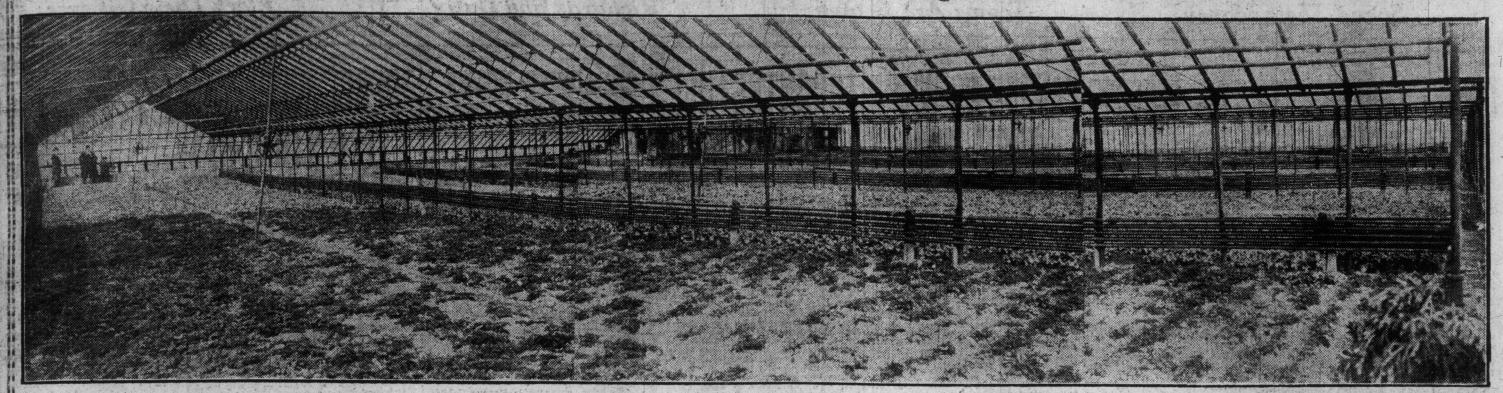
# There Lettuce, Radishes, Strawberries and Summer Vegetables Are Grown in Mid-Winter



## Producing Vegetables Under Glass Has Made a Fortune for J. D. Nairn

Crops of Summer Garden Truck in Rotation Are COSTLY WRECK Grown All Winter and Sold at High Prices -Land is Plowed as in Open-Automatic Heating and Watering Systems.

Unique in the history of market gardening in Canada is the ant which is operated by J. D. Nairn of Hamilton, by which he's able to supply the trade with the smaller vegetables all the Grand Trunk express No. 3, west-

The plant consists of one acre of ground, at Bartonville, freight covered with 26,000 feet of glass, built on the plan of a conservatory. The earth is not contained in boxes, as in the average hot-house, but lies in its natural state, and is plowed and cultivated in the same manner as an open field. From this ground siding, did not clear the line before Mr. Nairn takes three crops of lettuce, radishes, parsley and other small vegetables, and one crop of tomatoes every winter. In the coldest weather there is not the slightest possibility of the vegetables freezing, as the temperature of the indoor farm jured, while the loss to rolling stock is kept at summer heat at all times. On a bright day, when the will amount to several thousands of dollars. sun's rays are bright, the place is kept warm by natural heat An auxiliary from here cleared up diated thru the glass canopy; but on days when the sun is hidden from view the heat is supplied by steam, which circulates thru several rows of pipes, running at regular intervals

TWO TONS OF COAL A DAY.

To maintain a constant temperature of 80 degrees, it is eressary to burn one ton of coal every 12 hours in a large boiler fulnace, which is situated just outside the house itself. The conservatory is equipped with an irrigation system, consisting of over-head lines of sieve-like pipes, extending the full length of the beds. The entire acre of ground can be watered in a very few minutes by simply turning on a tap in the boiler-room. The water, which is drawn from a stream about 100 yards away, is forced thru all the pipes at the same time, and in a few minutes the beds are as satisfactorily watered as they could be by the use of hose, which would take a great deal more time. The power necessary to draw the water from the ditch is supplied by an electric motor.

Mr. Nairn has invented a very simple affair which lets him know when the boiler is in need of water. Just inside of the door of the greenhouse proper there is a well which is connected with the boiler. In this well there is a large float, to which is fastened a long iron rod. When the water falls the float falls with it, and vice versa. When the water in the boiler is low, that in the well is high, and by the time the water in the boiler reached the danger point, that in the well is so high that the iron rod is touching an electric wire above, making a connection and ringing a large bell that can be heard at all parts

As it is necessary for a man to look after the plant during the night, it is equipped with brilliant electric lights, the power for which is taken from the Cataract transformer, a short distance away.

ALL KINDS OF VEGETABLES.

For about eleven months of every year this plant is continually in working order, yielding crop after crop of vegetables. During the fall, winter and early spring, Mr. Nairn specializes in lettuce, radishes, parsley and the smaller vegetables. In the spring he transplants his tomatoes and cucumbers, which in their infancy are nursed in pots in a raised bed, and about May 24 he reaps his first crop of these vegetables. He is, therefore, able to compete successfully with the California dealers, whose products are shipped to this country while still green, to ripen in the cellars of the dealers here. The flavor of these vegetables is far inferior to that of those grown by Mr. Nairn, owing to the fact that his vegetables are ripe before they are picked, and enjoy the benefits of the sun's rays in the latter stages of their

GIVES THE LAND A REST.

One might think that this constant strain upon the soil would gradually weaken it and lower its productive ability. This, however, is not the case, as one crop of tomatoes and cucumbers restores to the soil all of the vitality which it has best in the production of the earlier vegetables. During the month of August the soil is thickly covered with manure, which also adds to its fertility. In early September the ground is plowed up and the first crop of the next season is planted.

A great deal of credit is due Mr. Nairn for taking the first step in this, a hitherto unexplored, field of market gardening in Canada. He had been in the business for a few years when he conceived the idea that such a plant as he is now operating would prove a success. Accordingly, in 1910, he consulted several Canadian and American capitalists, in an effort to obtain their co-operation in the execution of his scheme. He presented his proposition to many of them, but it was invariably cordially invited.

Engine Plowed Thru Freight Cars and Passenger Cars Left Rails.



PLOWING UNDER GLASS

Mr. Nairn plows his land under glass, just the way any farmer would plow in the spring or fall,

turned down as impracticable. The average young man of 23 years would have been discouraged by this adverse criticism, but not so this young man. He firmly believed in the practicability of his scheme, and he scraped together enough money to put the thing thru. This was a big thing for one so young, and he knew that the outcome of his venture would either make or break him. But still he did not flinch; he went into the thing on his nerve, and he won. The success of the scheme has far exceeded his fondest hopes and expectations. Not only has he been able to meet the expense connected with the innovation in its early stages, but he has added all the modern conveniences for the production and marketing of his vegetables, among other things a fine delivery automobile.

#### PICKING RADISHES IN MARCH



For these vegetables Mr. Nairn receives high prices, because he produces

The Natural History Society will meet this evening at 8 o'clock at the

HOTEL ROYAL

## THE GERMANY OF TODAY

Comprehensive Lecture Delivered at Trinity College on Saturday Afternoon by Platon Reich, Ph.D., Was Considered the Best of the Series.

The fourth of the series of Lenten premature precocity of the German lectures was delivered at Trinity Collectures was delivered at Trinity Col-lege on Saturday afternoon by Mr. Platon Reich, Ph.D. The speaker was rol, everyone is absolutely his own introduced by Hon. Justice Hodgins, introduced by Hon. Justice Hodgins, a graduate of the college. Some phases of modern Germany were treated during the comprehensive address on The Germany of Today," which was callize. Professors are exchanged by the institutions, cramming is scarcely known. The one exception to liberty Education was treated under course. Education was treated under the headings, what it has done, is doying and will do for Germany. A second division told of the status of the church, and a third dwelt with the commercial, industrial and armed forces of the empire. "Lord Haldane," said Mr. Reich, in his book, "Germany of the 19th Century," says: "It is want of knowledge of each other that makes the great nations suspicious," A numthe great nations suspicious." A number of amusing stories from a lately boards more frequently than in Enghoards more frequently than in Engwritten book on travels in Germany land. Music is another great power were read to illustrate how little of and there are 30,000 books published what is written in books can be re-lied upon. One quotation was: "I have heard it said that bands were introto drown the sounds of the Germans catholic and Jewish. Two-thirds of the population are Protestant. the population are Protestant. Clergy-men are appointed by the state, they being semi-officials. All are entitled to pensions a The Protestant church is a German being happy in heaven without some of the terrible tobacco and the beer which makes their waists losing ground today, said Mr. Reich. In three years 17,000 secessions were handed in, in Berlin alone. Reasons for this the lecturer thought were that

The lecturer thought these stories illustrate the ignorance of many people who go to a foreign country for a few days or weeks and then think they know it all. Love of truth consists in the endeavor to find out good everythere and appreciate it. In the educational system of Ger-

many, quality has always been pre-ferred to quantity, and in the matter ferred to quantity, and in the matter of free education, the German Empire is in advance of other nations, for before 1716 it possessed free education for country and town. The system divides its schools into the elementary, secondary and universities. All divides its schools into the elemen-tary, secondary and universities. All teachers are civil servants and receive pensions. Elementary teachers that the Catholic church has unity, form take a six years' course, secondary teachers must have university training. All educational institutions are under control of the state There are over 60.000 free elementary schools, with 10,000,000 pupils. Mechanical learning from books is largely dis-carded. Natural history is conducted n the open air. From six to fourteen s the primary school age; thirty-two hours a week are given to the school, four hours given to religious instruction. Separate classes for boys and girls receive instructions on the mysteries of life, the parents being also present. There are 160,000 teachers. only 29,000 being women. The salaries are from \$300 to \$950 a year. There classical schools.

Long School Hours.
School hours here reach 11 hours a day. The system has advantages and disadvantages, one of the latter being that 75 per cent. are short-sighted, another the singular mania for suicide, accounted for in part by the

### THREE SECRETS OF ALL SUCCESS

Bishop Sweeny Says They Are Service, Love and Esteem.

#### PREACHED AT ST. LUKE'S

Rev. G. F. Doherty Will Assume Charge on Easter Sunday.

his life. He comes not as a stranger. He has officiated as assistant curate in St. Mark's, Parkdale, before he went to London. From an exaited position in the cathedral, in the Diocese of Huron.

St. Mark's, Parkdale, before he went to London. From an exaited position in the cathedral, in the Diocese of Huron, he comes to assume the rectorship here. I can assure you that when he officiates at this altar and he goes out of this building into the homes of the parishioners of this parish you will find abundant proof that he will reciprocate by the interest he takes in you.

If He is Spared.

"If I am spared to be present at a service commemorating a decade of his service among you, and you have observed toward him the three secrets of parochial success I have laid down for you, then you will find that I am right in the secrets of parochial success."

His lordship preached from the text: "For that He in Himself hath suffered being tempted He is able to succorthem that are tempted," Hebrews, 2 ch., 18 ver. By His sacrince Jesus had shown us how to use the Spirit, hy meams of which doubts, sophistry and falsehood are banished.

Plight of Humanity.

A view of this had been given by a Chinese convert to Christianity. He pictured humanity as a man fallen into a deep, miry hole and calling out for help and deliverance. Confucius approaches and sees humanity struggling. Confucius is sorry to see humanity in such a plight, and gives the advice never to fall in again if ever liberated from it. A Buddhist also sees humanity is plight, and, expressing sorrow for it makes the offer to help if humanity his stranger comes to the spot and looks down. He sees the plight humanity is in, and laying aside His royal garment, howers Himself, and with His own right arm grasps mankind, lifts him out and cleanses him. That is Christianity. "God will not suffer you temptation that you cannot resist," said his lordship. "We are all able to resist temptation. Temptation is not sin, but giving way to temptation is sin."

pline of the hierarchy. hTe Catholic clergy get only half of that received by those of the Protestant Church, but the bishops refused an increase from the state, saying it would lead to the loss of the simple life for the priests. The Jewish church has the same rights as others with regard to levy

ing taxes mercial progress as Germany, and the country has greatly benefited by pro-tection. Mr. Reich also spoke of the morally fit, made to enter. The navy and it is to assist the commercial and conomic forces that it exists.

In thanking the speaker Justice Hodgins said he thought an effort should be made to get the manuscript

of it preserved in more permanen

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the clergy were inclined to become too academic and lacking in sympathy

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