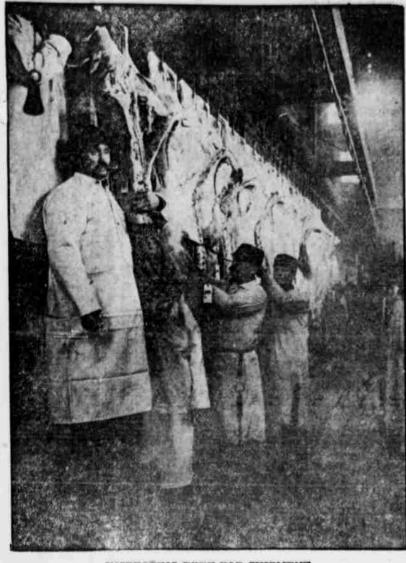
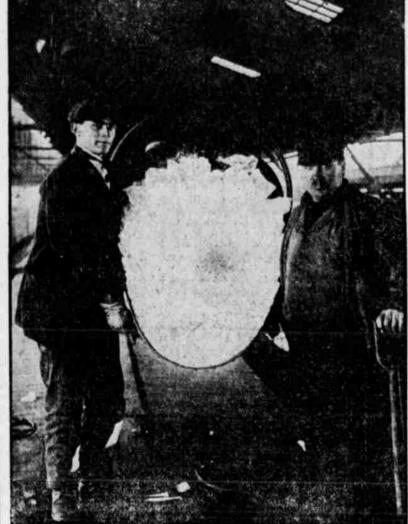
## Part the Refrigerator Car Plays in Supplying the World With Meat



INSPECTING REEF FOR SHIPMENT.



BEEF LUGGER LOADED FOR THE CAR.



READY TO DUMP ICE INTO REFRIGER ATOR.



TAMPING ICE INTO BOX.

shipped out of South Omaha annually, or 150 cars per day. The products shipped in refrig-

dressed sheep and a few dressed hogs. frigerator cars, which have been previously Very few hog carcasses are shipped in refrigeration. These are mostly sent out the packing house. Refrigeration in the packing houses applies almost wholly to to two tons of ice are placed in the car at dressed beef and mutton.

of packing house products are storage capacity soon becomes blocked.

Londing a Refrigerator Car.

After undergoing the necessary cooling cars are largely dressed beef, process, the half carcasses are packed in resupplied with ice, so that the inside temperature is not above the freezing point. cured in the form of bacon, ham, sidement Ordinarily thirty carcasses of beef, approxand other various cured, canned or pick- imating 600 pounds in weight each, are led products into which the hog is turned at packed to the car, but more is loaded if emergency requires. From one and a half the initial stage. The refrigerator cars are The killing capacity of a packing house built much after the same fashion of the depends on its cold storage capacity. All domestic and market house refrigerators, beef must go through the cold storage or so as to retain an even temperature inside refrigeration process before it becomes a the cars. This evenness of temperature is marketable commodity. And here again the very essential to avoid the sweating proc- tions at convenient distances, so that the killing capacity must be governed by the ess, as the rise of a few degrees in tem- loaded cars can be re-iced as often as once ration at the South Omaha packing houses refrigerator car supply of the packing perature at any stage of the shipment is in each twenty-four hours. This re-icing is obtained in and about Omaha. The pack-

refrigerator cars must be re-leed at least the trip depends on the length of the jouronce in twenty-four hours, and oftener if ney and will run from five to ten tons. The the condition of the outside temperature later built cars are so constructed as to ef-

after refrigeration by the government in- eight tons of ice will be sufficient for a spectors both for domestic consumption and 1,000-mile haul. The cars must be re-iced in export. Meats for foreign export are re-re- transit without being opened, and the filling frigerated at the ocean ports for storage in is usually done from the tops of the cars, the cooling rooms of the steamships, meat at the ice windows in either end, or small shipments being made only on steam pro- leing doors at the side. While vast quantipelled vessels. These meats are always re- ties of artificial ice are used for refrigerainspected at their foreign destinations.

Enormous Quantities of Ice Used. All railroads of the United States that transport refrigerator cars have icing stahouse, for dressed beef is bulky stuff and it likely to seriously damage the frozen meat, must be done by the railroad companies. As ing houses usually cut their own ice and an-

fect a very material saving in the ice, and All meats are inspected both before and it is believed that for these the maximum of tion, the natural ice is preferred because of Its tougher texture and better lasting quali-

Local Supply of Ice.

Most of the ice used in the initial refrige-

huge lochouses owned by these companies, and even as far away from the packing plants as Ashland a great ice storage magazine is maintained.

In some of the smaller towns of the state the packing companies refrigerate dressed poultry. The fowls are killed, plucked and frozen at these smaller stations and shipped first to the big packing centers where they are placed in cold storage to be later distributed to whatever market demands them. The different products are shipped in different cars. Beef and poultry are not ordinarily shipped in the same refrigerator car, for obvious reasons, and the same rule will apply in pork and mutton.

Comparatively Modern Practice. It was not until about the year 1875 that

OUT 50,000 refrigerator car loads must be kept on the move to market or the especially where the shipment is to be a consequence enormous quantities of ice nually store hundreds of thousands of thousa one-third or one-fourth of its normal containing it.

> and is cooled by injecting air into the air ent success to refrigerator cars, but later compressor, after which it is still further inventions along these lines, it is thought reduced in temperature and freed from by competent students of refrigeration, moisture by passing it through a range of, will solve the refrigerator car question pipes in the cold air of the chamber that by the elimination of ice altogether. These is being refrigerated. Being thus con- features of dry air cooling are used in a veyed to the expanding cylinders, the work modified form by many of the cooling or energy it contains by virtue of its rooms in the packing houses and in comcompression is expended in moving a pis- mercial cold storage houses.

made through or to a warm climate. All are used daily. The quantity per car during About Cut-Off and Seymour lakes stand the preservation of fresh meats in ship- From the piston the air now cooled as ment. Though there have been numerous much as 50 to 100 degrees, or even 200 dedry air refrigerators invented and brought grees, according to the degree of compresinto practical use, still refrigeration by sion to which it has been subjected, is disice holds its own and it will likely be a tributed through the cold chamber by suitlong while before ice will be discarded for able pipes. Other processes of dry refrigethis purpose. The dry air refrigeration ration have been successfully applied in process seems to be the most popular which the temperature of the air is lowered for ocean shipments. In these dry air by passing through pipes cooled externally, refrigerators atmospheric air is compressed instead of by injecting water into the tubes

Both of these processes of dry air re-The air so condensed becomes hot, frigeration have been applied with indiffer-

# Winnipeg the Metropolis of the Northwest Canadian Wheat District

deal in grain and the cheap lands. They opened business establishments of various



PORTAGE AVENUE, IN WINNIPEG.

(Copyright, 1906, by Frank G. Carpenter.) There at the end is the new Canadian cold?" at this point I timidly said.

a look at the city. You had best pull your fur cap down over your ears and 600 more. button your coonskin coat tightly about you, for the wind is blowing a gale. The air is nipping, but the sky is bright and there is so much ozone that we seem to be breathing champagne. Have you ever felt so much alive before? We are in the wild and furry northwest,

In its biggest town, and on top of its highest building. Were it not so cold the Winnipegger, who stands beside us as guide, would ask us if it were not like We are sure of one thing, the atmosphere by no means savors of the other place down below.

Take a look over the city! It stretches out on all sides for miles. The new shingle grow more next year than ever before, and roofs shine brightly under the winter sun, and we can almost smell the paint of the suburban additions. Winnipeg is a grower. Even now, in the winter, the sound of the hammer is heard all day long, and buildings are still going up by the hundreds. The town prides itself on its newness, and, indeed, much of it is just built. Over there at the north are miles of new houses. At the south buildings are growing up on the plains, and right below us, in the heart of the city, the business blocks have risen from the ground since last summer. Winnipeg has erected \$11,000,000 worth of buildings this year. It built about \$9,000,000 the year before and \$5,000,000 worth in 1903. All through the past five years it has been jumping. and it is now leaping ahead like an Australian kangaroo. In 1900 the new buildings numbered 658 and in 1904 there were erected more than 2,000.

Turn about and look up Portage avenue. That street was practically unbuilt four cities of twice the mize.

Look at that department store. It is the largest in the west. It is as big as year was about 100,000,000 bushels. When Mrs. Neygood, who had been Mile. Ma-Wanamaker's establishment in New York, it is all under cultivation it will yield nigh rinzi, "the champion aerial triple somerand it now has six stories. It was built on to a billion. We shall then feed John sault performer," was hanging out clothes only last year, but the demands of the Bull. Yea, we shall even fill Uncle Sam's the other day from her flat after a hard trade are such that three stories more will stomach and the crop will all go through morning's wash. The clothes line con-

Turn about and look down Main street,

INNIPEG, Manitoba, Jan. 4.-(Spe- Pacific depot hotel and railway offices fast cial Correspondence of The Bee.) approaching completion. Those buildings -Stand with me on the top of alone will cost as much as \$2,000,000, and the Union bank building, Winnt- further up the street are to be the great peg's new skyscraper, and take terminals of the Grand Trunk and the comfortable." Canadian Northern, which will cost \$3,000,-

"Yes, sir," says the Winnipegger at my side, "that shows you how we are growing. About five years ago we began to build for all time and eternity. Before that we had not realized that Winnipeg was bound to be the greatest city of the north and our houses were put up for the time. Most of them were without cellars and they had filmsy foundations. Since then we have raised them and made excavations, and we are now building as substantially as any town on the continent. Five years ago we had about 50,000 people Now we have 100,000, and we are just on the edge of our beginning. The city will within ten years, and probably sooner, we shall equal Minneapolis and St. Paul com-

### Winnipeg's Trade. "Look at those wholesale buildings," he

continues. "Did you ever see anything like it? Most of them started as two and threestory structures, and the business has grown so that they have had to be pushed up to six. This is one of the great markets of western North America, and the biggest market north of your western boundary. If you had a pair of long-distance glasses, which would enable you to look from the Atlantic to the Pacific, you could see that there is nothing in the west that can approach Winnipeg, and your eye would travel eastward as far as Toronto before any city of this class could be seen. If you could look up and down the great west with an X-ray attachment which would enable you to pierce through the snow down into the soil, you would know that you are at the eastern end of the greatest wheat country on earth. cultivated as yet but a few garden patches ever and consented. here and there over it, and our crop has

Winnipeg." "Don't you think it is getting a little . Mrs. Neygood, leaning far out to make

kinds ,and today some of the best of the city blood has come from across the border, There are now eight of our threshing machines and farm implement establishments represented here. There are half a dozen land companies backed by big American capital, and there are Americans who have sold their millions of acres of Canadian lands. Others are going into business, and others are here ready to take hold of the best things that come up. The chief building firm is American. It takes contracts running high into the millions, and is concerned in the new railways. The biggest land companies were started with United States capital, and some of the raliroad land grants are handled by them. In the meantime there has been a large influx of population from Eastern Canada, together with some from Great Britain. The most of the life blood of the city, however, is American and Canadian, and the two flow along together in one harmonious stream. Both seem to have implicit faith in the future of the city, and, indeed, the indications are that their faith is well founded. By Automobile Through Winnipeg

"But let us go down and have a cup of beef tea." said the Winnipegger, "and we shall then take a ride through the city in an automobile."

Beef tea is more common than whisky as a winter drink here. It is served at all the saloons and hotels, and one can have it on tap. Indeed, it takes the place of soda "Well, perhaps so," was the reply, "but water from December till May.

when I begin talking about Winnipeg I Having finished our tea, we rode through grow so warm that I could stand stark the main street of the city. This was one Lord Strathcona's big apartment house of the old Indian trails, which ran north and south, following the course of the Red past the Manitoba club and on into the Thereupen we turned again to look at the river, past the Hudson Bay fort which was once stationed here. Portage avenue, which we saw from the roof, cuts it almost at that along the Assiniboine river. right angles. It is also part of an old In-Winnipeg lies on a plain at the eastern dian trail, which extended from here a the stream in such a way that every resiedge of the wheat belt. The country about thousand miles westward to Edmonton, a it is dead flat. The Red River of the North town now reached by three great railroad winds its way through the city, and here systems.

flows in and joins the Assiniboine. The Main street has many old buildings. It houses of the city are spread out like those was the first business part of Winnipeg. of St. Petersburg, and, like Washington, being a king's highway, and it still contains it has magnificent distances. The main the best business properties. Real estate streets are 132 feet wide, and they stretch along it has gone up like a shot within the on and on out into the country. Every past five years, and it is said to now be residence has a yard about it, and nearly fully as high as in Minneapolis or Toronto. all have gardens and trees. Even the Store rooms rent from \$1,500 to \$2,500 a year, dwellings of the laborers stand alone. They and you can buy a business front for less have windows on all sides, and in most money in Montreal than right here.

cases the windows are double, to withstand Notice the banks! Winnipeg is one of the cold. The business blocks, as in all the financial centers of Canada. It has new cities, are ragged. The sky line goes thirteen Bank buildings, the most of them up and down like the teeth of a battered branches of the great banks of Canada saw, now and then a building rising high They do a big business, and they will comover the others. The sky-scrapers are just pare in their appointments with almost any beginning to come. The Union bank, from banks of our country. The clearings last which I make this description, is the first, week were about \$16,000,000. This is just but there will be others next year, and in double what they were in the same week time the place will look much like an one year ago, and three times as much as they were three years before.

The Residence Section.

takes us on toward the river, past the Hudson Bay company stores and offices, by and then turns to the right, and we fly principal residence section. The streets are still wide, but they wind this way and vards have been laid out on both sides of dence has a back yard running down to the water. There are miles of fine houses in this part of Winnipeg, and other miles have been laid out farther on. Nearly all

is a white city, and under the bright sunshine, which the Winnipeggers say exists here for thirteen months or more every year, it looks as neat as a pin. Leaving the boulevards, we ride through the homes of the well-to-do and poorer classes of the city. We see, strange to say, no signs of "To let" and very few of "For sale." Winnipeg has almost no tene-

own its own house. In North Winnipeg, beyond the overhead height by a fur cap which can be pulled blue. These people are orderly, They take Yankees turned their faces this way. It But we fly along up the street in our bridge, which crosses the railroad track, down over the ears. This makes him still to education and religion, the largest losthen began to boom. Men from Minnesota automobile. The hand of that veteran hundreds of neat one and two-story cot-

rate, and nearly every family is forced to



SAMPLE CROWD OF WINNIPEGGERS AT BASE BALL GAME.

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Standing on the bridge going over the railroad, we are in the center of the largest railroad yard of the world belonging to a single trunk line. At least the Winnipeggers say so. There are 110 miles of track, covering acres about us, and at this time they are filled with care carrying the wheat to the great elevators at Fort William and Port Arthur in order that it may be taken down the lakes as soon as navigation opens. During the season a wheat train goes out of this yard every hour of the day and night, the houses are new, and the largest and and altogether a half million bushels of best of them seem to have sprung up, like wheat leave here for Fort William every the palace of Aladdin, in the space of a twenty-four hours. Five bushels of wheat night. The chief building materials are will make all the flour a man cats the year were brought here years ago when it was white brick and a cream colored stone around, so that, every day, enough wheat thought that none but those accustomed to which is found nearby. The city, in fact, goes over these tracks to feed 100,000 men

I like these Winnipeggers. They pusibng, strenuous, enthusiastic and happy. They claim their city has the best climate thousand souls and shipped them out to on earth, and they would not exchange the Lake Winnipeg. The Icelanders settled on street after street of brand new cottages, biting winds of the prairie for the Lissing its banks, and for a time made most of zephyrs of New York, Boston or Washington. They prepare for the season. Just being through holes in the ice in the winter, now every Winnipegger who can afford it They are now well scattered over the counhas on a gray overcoat made of coon aking, try. Many of the girls have gone into ment buildings, and so far I have seen no The fur is long and it stands out like the service and not a few are walters at the two-story flats. Indeed, it is almost im- bristles on a hot hog. This doubles the hotels. Indeed, my favorite hash slinger possible to rent a dwelling at a reasonable size of the wearer. It makes him look at the Empire, where I am stopping in at least a foot broader, and, as it is long. Winnipeg, is a pretty Icelander with cheeks at least six inches tailer. He adds to his of fiame, hair of fire and eyes of heavenly bigger. Indeed, the town just now is peo- landic church in the world being in Winnipled with furry giants, who are breathing peg. out smoke, for the frost congeals the air from the nostrils, so that it rises like the a Russian church. The Catholic population vapor of an incipient volcano. The women is large, and the French Canadians all behere also dress in furs. Their cheeks are long to that denomination. There is a blushing under Jack Frost's amerous kisses. Trappist monastery outside the city and a and the ozone of the atmosphere paints Trappist nunnery. Almost every denomimarriage she was one of the trapeze per- and the former trapeze artist was dragged was half stunned, but still she managed to their eyes bright. They look too sweet to nation of Protestants has its meeting be the wives and daughters of the giants house; the Jews have a synagogue, the Salcareer five years ago because she fell in ward she remembered her old-time tricks, and before losing consclousness slid close beside them, but we doubt not the fact vation army is waging its warfare against

> Winnipeg is at the gateway of the New own building and is doing excellent work he found his supper ready for him. are Germans, Austrians, Greeks, Swedes is so good that there are no Sunday news-His wife was a bit pale, but smiling, and and Norwegians, many of them dressed in papers. The street cars are not allowed to than the last, she steered herself with all with him because he was not a widower -- came. Now and then one sees an English- places open are the hotels and churches. man, and it is hard to throw a stone with-

Winnipegger, Mr. Fred Heubach, is on the tages are now going up, and they are oc- out striking an American. At the same lever, and we are going like mad. He cupied or sold as fast as they are built. time, the most of the population is made up of Anglo-Saxon Canadians, and altogether looks not unlike those to be seen in St. Paul or Chicago.

On one side of the Red river, reached by a bridge, is the town of St. Boniface, where there are several thousand French Canadians, and there are also Russians, Italians

#### --The Icelanders of Winnipeg.

Some distance from here, on the shore of Lake Winnipeg, there is a colony of Icolanders, many of whom have moved into the city. Some of them are lawyers, others ried with the Canadians.

These Icelanders were among the first of the western Canadian immigrants. They the cold of the Arctic zone could withstand the weather. The Dominion government sent commissioners to Iceland, and they brought back a colony of fifteen or twenty their living by fishing, much of their catch

There are also many Russians here, and when they open their mouths and begin dissipation and sin and the Young Men's Christian association has

FRANK & CARPENTER,

### Experience of an Acrobat Proves Useful in an Emergency

A large part of the new city has, I am

told, been built by Americans. The town

was stagnant until Yankee capital and

American metropolis.

On the Red River.

They were married and lived happily. nected with a high pole in the rear yard.

Mrs. Agnes Neygood of Astoria, Long the rope taut with her precious wash, had She was out of practice and struck the Island, used to be an acrobat. Before her a good hold on the rope. The pulley broke, pole harder than she had intended. She formers in a circus. She gave up her out of the window. As she swung outyears ago. It has now millions of dollars' Away out there are 250,000,000 acres of love with a horseshoer employed by the and turned so as to twist the rope about worth of new business blocks, some of land which will grow bread with little show. When he asked her to be his wife her right arm. She swung the great arc which would be a credit to any of our more than scratching the ground. We have he insisted she must leave the trapeze for- of a pendulum, and got a second's footing she was able to crawl into the house. A on the window ledge opposite.

The window was closed, and she did swinging back again, but not within reaching distance of her own window, five stories above the ground.

Realizing that each swing would be less her old-time skill to the supporting pole.

throw her arms and legs about the pole, to the ground. The fall of fifteen feet aroused her, and to talk about great Winnipeg.

physician was called. He found that no Canada. The tens of thousands of immi- work. Indeed, the whole city worships the bones had been broken. Then neighbors grants who are now arriving come through Lord under one religion or another. It is not have time to get a hold before she was helped the former circus woman up to her here, and one sees on the streets natives a God-fearing, order-loving, Sabbath-obrooms. When her husband returned from from every region of Christendom. There serving and church-going municipality. It a lot of friends were there to shake hands the costumes of the land from which they run on the Sabbath, and the only public