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Ice Refrigerators Keeps Air In Perfect Condition

Year's Service To County

Increased Production, Large Storage Room And Modern Ice Refrigeration

Purity Now Keynote In Food Preserving

Actual Tests Reveal That Food Odors Do Not Hurt Food; Perfect Preservation

Buying the American Service company of which Troy Pearce was manager for several years, C. L. Cranford and his three sons went into the ice business on May 4th, 1935, changing the name to the Dixie Ice and Coal Company. C. L. Cranford is president of the company with Leon Cranford, oldest son, secretarytreasurer and C. L., Jr., and Lassiter, The four men have stockholders. made many improvements in the ice In recent months their storage plant has been increased 400 blocks with an additional storage room for meats, fruits, vegetables and the like for the public.

Last summer the plant operated day and night with an output of 23 tons daily, and the plan is for a similar program this summer, plus the increased output.

Perhaps the most noticeable change is from "Ernest and his ice wagon" to the fleet of four motor delivery trucks, one of which Ernest drives, however. For many years, Ernest and his ice wagon were harbingers of days and continuing to make daily trips over the town, children clinging to the wagon, through the whole summer. Now the trucks serve Asheboro and several sections of the

Especially interested are the Cranfords in the modern methods of ice refrigeration for their ice, made in the most up-to-date methods.

"For many years the ice industry suffered because of the poor construc-tion and design of the refrigerators in which ice was used," Mr. Cranford said. "It is an admitted fact that in refrigerators-and there are many still in use today-it was difficult to maintain a satissupply of ice decreased, the temperature rose. But in the new air-conlow temperature, below 50 degrees, is kept as long as there is even a thin rise of temperature. layer of ice on the bottom of the ice

number of refrigerators we anticipated at the beginning of the year. Other this reason. "The third interesting fact about ed at the beginning of the year. Oth-

President Dixie



C. L. CRANFORD

C. L. Cranford who with his three sons, operates the Dixie Ice and Coal Company on Salisbury street. The four Cranfords have managed this company with marked success for the

expands and in so doing chills the coils. As the coils are chilled, moisture in the air which is sealed up in spring, appearing with the first warm
This freezing naturally takes moisture out of the air, leaving it dryer. As the freezing continues, the air becomes more and more dry.

"All perishable foods contain a large amount of so-called natural moisture or juices. When foods are left in contact with dry air, even if the air is cold, the dry air acts as a blotter in absorbing the food juices, self of a modern ice refrigerator regular ice route. From the very be- other races would not attempt, and There is a decided tendency, there- and a bowl of sweet milk on the botfore, for such foods to lose weight tom shelf for an overnight period.

refrigerators have endeavored to get refrigerator rather than keeping them around this fault in their refrigera- shut up to grow sour and stale and tors by supplying covered containers damage food flavors." for foods. The United States departfactorily low temperature. As the ment of agriculture, however, is my authority for the statement that keeping raw meat in a covered conditioned ice refrigerators constantly tainer in a refrigerator promotes bacteria growth equal to a five-degree

"In the air-conditioned ice refrigerator it is never necessary to use any covered container. The ice sup-"This is one of the factors that have plies adequate moisture to the air to led so many people of Asheboro to protect natural food juices. Many favor ice refrigeration, enabling us people who took a 'holiday' from ice last year to sell almost double the refrigeration have come back to the

er factors, which refrigeration en- the new ice refrigeration is that in gineers and housewives alike consider an air-conditioned refrigerator food equally important, are the way in flavors do not mix. The reason why which modern ice refrigeration pro- flavors do mix is air tight, coldtects natural food juices and, at the storage type refrigerators is simple same time, prevents the mixing of once it is suggested. As everyone knows, foods have odors-some pleas-"In any refrigerator in which an ant, some not so pleasant-onions. ice substitute is used," he continued, for instance! If bananas and but-"heat is removed from the air in the ter are kept shut up together in a refrigerator by forcing a gas under cold storage type of refrigerator, both pressure to coils located in the food being left open to the air, the butchamber. Inside the coils the gas ter will acquire a banana flavor. But

Dixie Ice & Coal Company History Of Ice Dates Back Has Made Rapid Strides In To Early Dark Age Monarchs

sale quantities by refrigeration, it is hard to realize that may of the business men and women who were brought up in rural sections and in small towns recall how their fathers sent out men to cut blocks of ice on rivers when a prolonged cold spell permitted the solid freezing of ice, which was then hauled into ice houses and kept until summertime. The ice houses were constructed in similar fashion to the sweet potato pits of today, only saw dust in enormous quantities preserved the soliditary of

The study of ice refrigeration history is a story of man's struggle to make use of nature's most precious gifts. Ice men before our day have spent an entire life in making possible the benefits and blessings of modern ice refrigeration.

At the very beginning of history Persian kings sent slaves to the mountain tops to gather snow and ice with which to cool their wines.

Chinese history tells us that the Chinese were accustomed to use ice and snow as a food preserver as early as the 13th century.

The Latin races, such as the the 17th century. We even have rec-

ditioned refrigerator and I'll tell you

"Every odor is a gas. Every known gas is soluble in water. As the air circulates in a modern ice refrigerator it picks up the food odors, or gas, and then as the air comes in contact drinks which these people were ac- to make it with machines. But in with the ice cake to be chilled the customed to drinking. gas particles cling to the wet surface of the ice. The food odors are literally washed out of the air and are carried out of the refrigerator, down the

"Actual tests have been made by The results have shown conclusively

Secretary-Treasurer



LEON CRANFORD

Leon Cranford, who for the past Italians, Spaniards, the French, etc., year has served as secretaryused ice and snow generally during treasurer of the Dixie Ice and Coal Company. The plant has undergone many modern changes during this this does not happen in an air-con- period of business.

Ice delivery started by accident. Fish peddlers carried fish through the streets and used ice to keep the fish fresh. So many people were anxious to buy chunks of ice from them that one enterprising fish monger is filled with incidents of daring men leaving sliced raw onions on the top conceived the idea of working up a fighting battles against odds, that

> since that time ice delivery has grown country to erect ice plants that would groups in the count

to an island in the West Indies wher an epidemic of yellow fever was killing people by the hundreds. This ice, which had been cut from the frozen lakes and rivers, was used to help reduce fever and proved a blessing to the fever sufferers. From that date of the first shipload, the sale of ice cut from frozen rivers and lakes became a growing business and shipping ice from the northern ports into southern cities grew to be a business of national

In 1834 Jacob Perkins, an Englishman, is reported to have built the first machine which would actually

The first ice making machine built in the United States which was large enough to produce ite for sale, was finished in Cleveland, O., in 1885, by Prof. A. C. Twining. This machine would produce about 1,800 pounds of ice every 24 hours.

The first patent for an ice making machine ever granted in the United States was issued to Dr. John Gorric of Appalachicola, Fla., in August 1858. His statute stands in the hall of fame in Washington, D. C., for his contribution to the health of man-

The manufacture of ice grew very slowly, due to the fact that the first years ago and, during that time, has well as in the cost of ice, has been ice machines were very expensive to ords of goat milk being kept for operate and were always breaking many days by the use of snow and down. It was less expensive and more ice and an ice box. The chief use for sure to cut ice from the frozen lakes ice during that century, however, was and rivers in the north and ship it in cooling wines and other fermented to other sections of the country than 1890 the country experienced a very mild winter. Lakes and rivers did not freeze over and there was not enough natural ice to supply the regular business which had been built up. The history of the United States

ginning his business was profitable. during the ice shortage of 1890 plans This was the practice in 1802 and were made by engineers all over the today ice manufacturing is the ninth

Home Ice & Fuel Company Has Made Many Changes In Five Years Of Ice Making

Heads Home Ice



HERMAN CRANFORD

Herman Cranford, head of the

Ten Important Rules For Keeping Foods With Refrigeration

1. Ice should never be wrapped. This prevents the air from directly contacting the ice, and this contact is necessary for complete air purification. Wrapping the ice also causes a slightly higher temperature in the re-

chamber. This slows up air circula- machines has three chief points. First, tion, and the food will not be kept the refrigerating agent is subject to as cold since the coldest place in pressure, so that when it passes into "Manufacturers of ice-substitute that food odors are taken out of the every year until today ice servicemen make ice shortage impossible. From the refrigerator is the compartment the second, or condensing, stage and form one of the largest direct sales 1890 the business grew rapidly until directly under the ice where the the temperature is reduced, it becomes In the year 1805 a shipload of nat- largest industry in the United States. cold spot in the refrigerator is the air immediately above the ice.

3. Never crowd the shelves. Never cover refrigerator shelves with paper. These things slow up the circulation of cold air, which is so vital in good refrigeration.

4. Place the refrigerator in a cool the outside of it. This helps prevent dampness and preserves the finish.

5. Keep the refrigerator well iced, never let the ice get low, the ice never be much less than half filled. This means quicker cooling and more certain purification of the constantly

circulating air. 6. Place all foods correctly.

7. Keep the drain pipe clean by ice melts into habit and dumping a teaspoonful of ordinary sity in warm weather. cooking soda on the ice pan once each week. The melting will run the soda down the drain slowly and with strong soda solution.

8. Wash the refrigerator out once each week. Use one quart of cold water in which from one to two tablespoonfuls of ordinary cooking soda have been dissolved.

than is necessary.

that do not need refrigeration in the Bottling Company, Model Laundry, refrigerator. Allow hot foods to cool Bruton's Dry Cleaners, Cut-Rate to room temperature before putting Furniture Company, Patty Ruth them in any type of refrigerator.

B. Shelton of Yanceyville, Caswell Company and Amos Furniture Comcounty, made a net profit of \$47.50 pany. on a lot of 200 Barred Rock chicks fattened and sold as broilers.

Herman Cranford Bought Plant Five Years Ago, Enlarging From Time To Time

Now Increased Output Has Wrought Changes

Modern Ice Refrigeration Has Undergone Many Changes For Better In Ice-Making

Five years ago in April, Herman Cranford, well known manufacturer of Asheboro, set up a business of ice making calling his business the Home Ice and Fuel company. At that time, one plant served Asheboro and the surrounding territory in an adequate fashion-even with the slower methods of manufacture in practice at that time.

Since that time an addition to the plant has been made which increases the daily output 1712 tons daily. Now, the methods of mechanical refrigeration of ice in large quantities, have so varied, even in these few years, that it has become an art.

Since the first method of mechanical refrigeration to come into use on Home Ice and Fuel company. Mr. ocean steamers, by the use of cold Cranford bought this ice plant five air, a revolution in the production as greatly increased the capacity of the wrought. Many, many years ago this method of compression using carbon dioxide or ammonia came into use, the principle of which is still in use, According to ice mechancis, the ammonia compression machine the first successful of which was brought out by Prof. C. P. G. Little, a professor in a university at Munich, Germany, This first machine was put up in the United States in 1880 and was a 25 ton machine.

The process appears quite simple when operated by an expert, but the method is really quite complicated for the layman. The cycle of operations 2. Never keep food in the ice that characterizes all compression old, heavy air first falls. The least liquid. In this second stage, the reduction of temperature is brought about by water which carries away the heat produced by the compression plus the latent heat set free by the liquefaction of the refrigerating agent. The third, and last, stage is where the liquified gas is admitted to a series of coils of pipe and suddenly relieved from spot where air can circulate around pressure. It then flashes into a gas and must take up a quantity of heat which becomes latent: the amount being equal to what it has just given up to cooling water in the condenser. chamber in some refrigerators should Thus, is ice made today. Only a few years ago, it was chopped from rivers and was a luxury. Today, by methods of modern refrigeration. most rural districts are served by ice trucks until the luxury of a chunk of ice melts into habit and daily neces-

Mr. Cranford is ever on the alert for changes in method that mean little to the average consumer save will prevent the impurities, which he realizes that ice no longer tastes have been washed from the air, from like a vat of ammonia has been dumped collecting and forming "slime." Once in it, and that it does not melt so or twice each month remove the drain rapidly and many other things that and clean out the trap, or flush modern 'scientific methods have wrought in the manufacture of ice.

ALL-STARS TEAM

DONS NEW SUITS Asheboro All-Stars, the newly formed town baseball team, donned 9. Keep the doors closed tightly new suits of grey and blue for the and do not open them any oftener initial games Saturday. These suits were donated by the following merchants: "M" Sytem, "White Spot", 10. Do not put hot foods, or those Farlow's Funeral Home, Coca-Cola Beauty Parlor, Red Pig Barbecue Grimes and Hollingsworth, Asheborn After deducting all expenses, W. Hardware Company, Asheboro Fixture

The suits are grey with blue letters and are worn with blue and white sox.

New Ice Refrigeration A Great Improvement Over Old Methods

New Device That Produces Crystal Clear, Odorless Cubes In Remarkably Short Time By Trouble-Free Types Of Ice Refrigeration

Every user of commercial refriger- their own natural juices and flavors. ation knows the importance of proper To make this possible requires comproblem is closely connected with the three necessities exist: success of store or restaurant and the 1. Uniform cold temperature to reeconomical operation of hospital, tard bacterial growth. florist shop and institution.

Up until the recent introduction of ing out and shrinkage. was a factor in loss of patronage or must then be carried away.

and efficient equipment. The entire ditioned air refrigeration, where the

2. Proper moisture to prevent dry-

the modern air conditioned ice re- 3. Rapid circulation of air over a frigerator the discouraging problem cooling surface with water present to of dehydration, shrinkage, spoilage absorb gases and flavors given of from mingling with food flavors often by foods. These flavor laden gases

in profits or both. Cold alone is only one of the things required for proper preservation of foods in as nearly as possible their own natural condition.

Foods to be appetizing must retain methods.

Modern Air-Conditioned Ice Refrigerators For All **Types Of Modern Homes**

The modern air condition ice re- for mechanical repairs.

a safe temperature range with re- flavors. icing only a few times a month. In The air conditioned refrigerators

the scientific, trouble-free refrigera- buy, less to operate, and nothing for tion. These cubes are cut automatically repairs. at the rate of 16 at a time. They are The surest, quickest, easiest way to

frigerators which are now on display In the air conditioned ice refrigeratat Dixie Ice & Coal Company and or it is not necessary to place foods Home Ice & Fuel Company are the in covered containers. The ice supplies last word in design, construction and adequate moisture to protect and beauty. These new type ice refrigerat- preserve natural food flavors. Actual ors are bringing about a revolutionary tests have been made by leaving advance in food preservation through sliced raw onions on the top shelf of the introduction of three-way refriger- a modern ice refrigerator and a bowl ation-a uniform cold temperature, of sweet milk on the bottom shelf for properly moistened air, and a con- an overnight period. The results have stant circulation of "washed" air. shown conclusively that food odors The construction and insulation of are taken out of the refrigerator these new refrigerators have been rather than keeping them shut up to improved so much that they maintain grow sour and stale and damage food

winter the re-icing will be even less may be purchased on the easy payment plan, a liberal allowance will A new device that provides crystal be made on your old refrigerator. clear, odorless, hard frozen cubes in Why not buy one now and enjoy it three to five minutes, also is part of all summer it will cost you less to

cut from the ice in the ice chamber, learn the real facts about air-condiand are consequently absolutely pure tioned ice refrigeration is to try it in your own home. Entirely without Your food is always kept perfectly, cost or obligation to you, we will free from mixed odors and tastes. gladly install one of these improved That's something that only real ice refrigerators in your kitchen for a can do—for it carries all the im- 10 day trial. It will prove to you that purities down the drain, away from the food chamber—and is the natural enemy of bacteria. Ice refrigeration with all its advantages, cost less than mechanical refrigeration. You pay phone 257 or Home Ice & Fuel Company pany phone 421.

Annual Ice Refrigeration Section

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