

FOREWORD

No large city in the United States today ever started its existence in such an unpretentious manner and on such an indefinite foundation as did Chicago. In the early nineteenth century one historian writing from Fort Dearborn frankly and boldly predicted that Chicago had no inducements to offer to the business man. He did predict the possibility of the place becoming larger and acquiring more business, but even that was tempered by the idea that the trade to be secured here would be small. Even as late as 1850 Eastern writers spoke of Chicago as a fishing village and fur trading post whose business was on the decline. Considering Chicago in 1830 you find that it had about 100 inhabitants, while St. Louis had 10,000.

From a population of 100 to nearly 3,000,000 in 90 years tells the story of Chicago's astounding growth and leadership. And right now this growth shows no signs of slackening. The reason for this is that the city is not the result of some boom or sudden discovery of precious metal. It is strategically located in the heart of the Middle West; it is the center of the richest and most productive part of the United States. Its growth was inevitable.

Today finds Chicago the youngest large city and the largest young city in the world. At the cross roads of America's industrial, commercial and agricultural life the city has taken a lead as a distributing center that cannot be equaled by any city on the continent. From the marts of Chicago there flows year after year a never ending stream of products without which the world could not get along. Grain, lumber, furniture, clothing and other products are some of the necessities which Chicago handles in a volume that amazes the world.

Chicago is unique historically, great commercially, aggressive in her ideas of expansion and industrial growth and progressive artistically. Long known as the busiest and fastest growing urban center the city has started upon an era of building and remodeling which will make it a center of beauty and civic splendor.

Guided by public spirited citizens, Chicago the second largest city in America is marching forward toward greater achievements industrially and commercially. A greater Chicago is in the making.

CHAPTER ONE

CHICAGO'S RECORDED HISTORY BEGINS

It is necessary to go back to the year 1673 in order to start the story of Chicago. It was in this year that the momentous exploration conducted by Louis Jolliet occurred. Sketching the fascinating story of what is now the second largest city in the United States Milo Milton Quaife chronicles the early history of Chicago in this manner:

"The Mississippi had been discovered by De Soto, and its lower reaches explored, over a century before 1673, and about the same time the French had begun their efforts at colonizing the lower valley of the St. Lawrence. Now Jolliet, sent out by the governor of New France,

LaSalle and Tonty—While the missionaries were thus zealously laying the foundations of the church in Illinois, its commercial possibilities were being no less eagerly exploited by the traders. Of these LaSalle, "first promotor of big business in the West," was for almost a decade, until his tragic death in 1687, the leading figure; and from his Fort St. Louis on Starved Rock for a decade and a half longer his faithful lieutenant, Tonty, continued to dominate the red men and monopolize the trade of the surrounding region.

It was in this early period, too, that the dream, even yet only partially realized, of opening a practical waterway from the

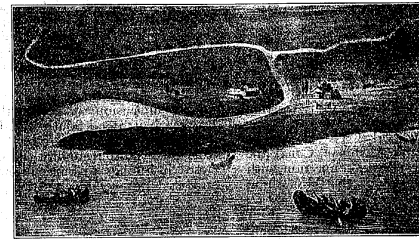
ers as possessing special advantages for fur trade.

For Three Decades Fort Dearborn Was Chicago—Broadly speaking, Fort Dearborn was Chicago for almost three decades. Traders had visited the place from Jolliet's time onward and had made, it seems probable, more or less lengthy sojourns here. In the main, however, the hand of time has wiped out all knowledge of their doings, and none may say with assurance who was the first white resident of Chicago.

In 1804 John Kinzie, known as the Father of Chicago, located here as agent for Astor's American Fur Company. This was the beginning of Chicago's career as a trade center. Here came the Indians and trappers, via the Illinois, Desplaines and Chicago Rivers, with their furs to exchange, for such merchandise as they needed, which had been shipped here from the turning with furs for the Eastern markets.

When the Troops Arrived, August, 1803—When the troops arrived at the mouth of the Chicago River in August, 1803, they found here several traders' huts or cabins, three of which were occupied by French Canadians, all of whom were living with Indian wives. These men were Le Mai, already mentioned, Antoine Oulmette and Louis Pettie. Pettie resided here until 1812, and probably perished in the massacre of that year. Oulmette claimed to have come to Chicago in 1796, and is known to have lived here at least from 1803 until his death some time after 1829, remaining even during the years of warfare from 1812 to 1815.

Although not the first and never the sole civilian settler at Chicago, Kinzie was an abler man than the French traders, and this factor combined with his racial and business connections to give him a dominant position in the tiny community when he resided until his death in 1828, saving the years from 1812 to 1816.



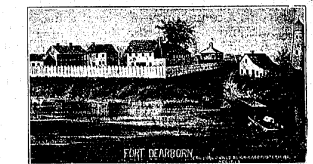
Chicago, 1803 to 1812.

discovered the upper Mississippi and followed its course far enough to determine that it emptied into the Gulf of Mexico. Thus the identification of the upper Mississippi with the great river De Soto had discovered was established; and hard upon the heels of Jolliet came another dauntless Frenchman, the sieur de La Salle, bent on realizing his imperial vision of a New France which would stretch from the Gulf of St. Lawrence to the Gulf of Mexico.

A companion of Jolliet on his voyage of 1673 had been the gentle priest, Father Jacques Marquette. So favorably was he received by the natives of Illinois that he resolved to return at an early date and establish a mission here. This determination he carried out the following season. Leaving Depere (near modern Green Bay) in the late autumn of 1674, he journeyed along the shore at Lake Michigan as far as Chicago, where, overtaken by illness, he tarried through the winter in a rude shelter erected some distance up the south branch of the river. In the spring he went on to the vicinity of modern Ottawa, preached to the friendly natives, and then with the hand of death already upon him hastened to return to distant St. Ignace, dying enroute at the mouth of the Nottawpsekan River, where Ludington now stands. Other missionaries seized the torch which fell from the dying hand of Marquette, and from that day to this the Gospel has been preached in Illinois.

Great Lakes to the Gulf of Mexico was first conceived. By cutting a canal of half a league at the Chicago portage, Jolliet reported, a bark could sail from Lake Erie to the Gulf. A few years later La Salle took sharp issue with this statement of Jolliet, showing clearly the uselessness for all practical purposes of such a canal, since the real head of navigation on the Illinois was not the point on the upper Des Plaines opposite the South Branch of the Chicago, but instead at Fort St. Louis 100 miles below. In later years by dint of frequent repetition the error of Jolliet effected lodgment in the public mind, and on July 4, 1836, the digging of the Illinois and Michigan Canal was gallily entered upon; but weary years of disappointment ensued to dampen the ardor of the hopeful citizens of Chicago before the first boat passed through the canal in the summer of 1848; and the sequel confirmed the accuracy of La Salle's observations over a century and a half before, for Jolliet's ditch of "half a league" had lengthened to one hundred miles, and the cost to many millions of dollars.

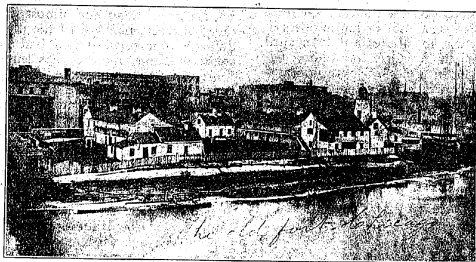
Fort Dearborn Founded—In 1795 the United States government, by a treaty with the Indians acquired title to a plot of ground six miles square at the mouth of the Chicago River. Here Fort Dearborn was built in 1803. The new military post soon attracted attention of the trad-



Fort Dearborn 1803 to 1845. The original site of the Fort was just north of the main branch of the River.

Fort Dearborn Massacre of 1812—As at all wilderness outposts, so at Chicago life flowed on in humdrum fashion during the years from 1803 to 1812. But the outburst of war with the mother country rudely terminated this peaceful existence. The red men, smarting under the

menace of the steady advance of American sentiment and the consequent loss of their homes, seized the opportunity to fall upon the little garrison, vainly essaying to withdraw from Fort Dearborn, and in a short, sharp fight of 15 minutes' duration killed or made captive the entire force. The civilian residents capable of bearing arms, twelve in number, had been organized by Captain Heald as an auxiliary force, which he dominated the "Chicago militia." Some there were of the Six Hundred who came back from Balaklava, but the members of the first Chicago mili-



Pt. Deanehorn from photograph taken in 1858.

itary organization, fighting valiantly in defense of homes and loved one, perished to a man.

Forces Presaging the New Chicago—For several years life at the New Fort Dearborn went on much as in the old days before the war of 1812. Meanwhile, far away from the wilderness stockade at the bend of the sluggish river forces were developing which were destined to remove forever the menace of Indian attack and to usher in the birth of the new Chicago. These were, in general, the persistent advance of American settlers westward, and in particular the construction of the Erie Canal under the guiding genius of Governor DeWitt Clinton. The spring of 1833 ushered in the first and greatest boom in the history of Chicago. Over night, as it were, the sleepy military outpost was transformed into a mushroom city, attended by all the concomitants of ugliness and vigor which are characteristic of such a development.

And Now a City—By 1837 Chicago had become a community of several thousand souls and achieved the dignity of a city. About the same time President Jackson pricked the bubble of the nation's speculative mania by the issuance of his famous specie circular, and the severest financial panic of our national history ensued. At Chicago the intensity of the depression corresponded to that of the speculative madness which it had brought to a close, and for several years the newborn city stagnated. Although the reaction bore hardly on the townsmen, carrying numbers of them to financial ruin and rudely overturning the economic structures which all had reared on a foundation of dreams, it had no permanent effect on the city's future.

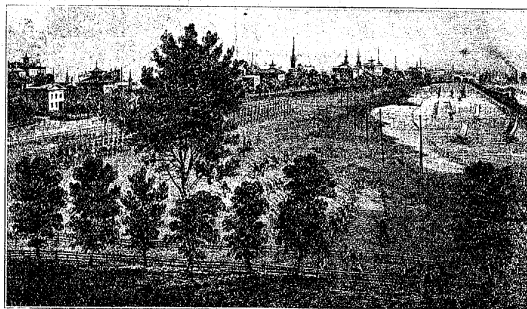
Wilderness Becomes a Fruitful Hinterland—It is characteristic of Chicago's out-

look, and of the sources from which her economic strength is drawn, that the city's first railroad ran west rather than east, being designed not to connect her with the Atlantic, but to bring to her markets and wharves the produce of her rich hinterland. In the early years of railroad construction there was no conception of independent transportation systems which should compete with water routes; instead, the first American railroads were designed, like the canals they superseded, to span the land lying between navigable water courses. Chicago lay at the head of navi-

terprise leaped into life. The work of actual construction was begun in the autumn of 1847, and a year later Chicago's first railroad extended to the DesPlaines River. Not until 1853 was Freeport reached, and the line was never built to Galena, for by this time the Illinois Central had entered the field, and the Galena arranged to use the Central's tracks from Freeport to its destination. Thus was constructed the first line of what is now the great Northwestern system. In February, 1852, the Michigan Southern and Northern Indiana ran the first train into Chicago from the East, and three months later the Michigan Central entered the city. The development of the greatest railway center on earth had been auspiciously inaugurated.

Chicago's Debt to Nature and Railroads—The railroads completed the work which nature had begun of making Chicago the great central mart of the continent. Henceforth her growth was to be conditioned only by the growth of the country itself. In 1850, after 17 years of development unaided by the railroads, the city had a population of 30,000; by 1860 this had more than tripled, and in the following decade, notwithstanding the upheaval of the Civil War, it tripled again. Twenty years later the population was 1,100,000, and in the twenty years ending with 1910 this figure was almost exactly doubled.

In the years while Chicago was attaining the dimensions of a city, the dispute between North and South was developing which was to eventuate in civil war. The story of this dispute and of the war which closed it belongs to our national history and need not be traversed here. As the



A view of Michigan av. as it appeared in the early days of Chicago. Then as now Michigan av. was the most frequented and popular thoroughfare. The above scene depicts the military forces of the day in maneuvers. A view of the packing harbor is also shown.

but before the years of delay and disappointment which the execution of this enterprise entailed were over, it had become evident that the importance of the canal as an instrument of transportation was waning, and that other measures for tapping the back country were essential.

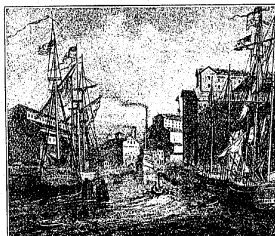
Ogden and Chicago's First Railroad—In the expansive years of the thirties a charter had been taken out for the Galena and Chicago Union Railroad, but for ten years nothing further was done in the matter. Then William B. Ogden became president of the company, and under the impulse of his genius the moribund en-

terprise of the state which gave Grant and Lincoln to the nation, Chicago, of course, played a worthy part in the contest. Here from an early day abolition sentiment had been powerful, and when, after the Compromise of 1850, Stephen A. Douglas came home to account to his constituents for his share in that measure the indignant citizens booed him from the platform. Here Colonel Ellsworth had acted his brief role on the stage of public affairs, and in his person Chicago furnished the first hero of the Civil War.

Through War and Fire—Although the war inevitably dislocated the business of

Chicago, it did not greatly retard, apparently, the city's growth. What might have been in the absence of war we cannot say; but despite it the city grew from 110,000 in 1860 to 200,000 in 1866; and by 1870 another hundred thousand had been added.

Thus we come to the Great Fire of October 9, 1871. Despite all her pride of brawn and bigness, Chicago was preparing for herself, in the years of mushroom growth, a fearful lesson in the art of city building. Across the broad plain which skirts the river's mouth buildings by the



View from the 12th Street bridge looking south shows the fine shipping facilities which helped in the up-building of Chicago.

thousand extended, constructed with no thought of resistance to the greatest menace with which our modern cities are confronted. Even the very sidewalks, made of resinous pine and elevated upon stringers, were combustible, almost, as a powder fuse, and the city's single pumping station, which supplied the mains with water, was covered with a roof of wood. If ever a city invited its fate, surely Chicago did in 1871.

The season was one of excessive dryness. Up from the plains of the far southwest blew week after week a scorching wind which withered the growing crops and turned the smiling green of the prairies to a dull brick red. In the forests of Wisconsin and Michigan conflagrations of unexampled magnitude raged, desolating entire districts and slaying hundreds of human beings. The force which



Chicago in 1846 looking from the West.

consumed the living pine in the forests would not long be balked by the seasoned pine of wooden-housed Chicago.

Destruction Spreads Fertile Ashes—About the Great Fire volumes have been written, which here must be condensed to a page. Where it started is clear; how it started no man knows. Living in a shack at the corner of Jefferson and DeKoven Streets, was a poor Irish family by the name of O'Leary. The story commonly told is that Mrs O'Leary went out to the barn with a lamp to see her cow; sometimes the detail is added that she proposed to milk this family pet. Whatever her intentions, the lamp was upset and cow, stable and Chicago were engulfed in one

common ruin. One veracious report even assured the world that the cow accidentally kicked over the lamp; apparently the animal was questioned as to her motives in the brief interval of time between the fatal kick and her own prompt demise. Modest Mrs. O'Leary, far from coveting the honor of starting the Chicago fire, testified under oath that she was safe abed and knew nothing about it until called by a friend of the family.

Once started, the fire moved onward with resistless tread to the north and east until there was nothing more to burn. Between 9 o'clock on Sunday evening and 10:30 the following night an area of three and one-half square miles, including the business section of the city, was destroyed, over 17,000 buildings were destroyed and 100,000 people rendered homeless. From Taylor Street to Lincoln Park, from the river to the lake, the city lay in ruins. The direct loss of property was about \$200,000,000. Of human life, while never known, the estimate is commonly about three hundred. The mass of fire can never be estimated. Such was the lesson Chicago learned on that October night and day half a century ago.

"Undaunted We Build" Said Kerfoot—With lines and boundaries all but obliterated, the real estate men were nevertheless first on the field, the very first structure to be erected in the burnt district being the real estate office of W. D. Kerfoot. Nailed to the side of the little

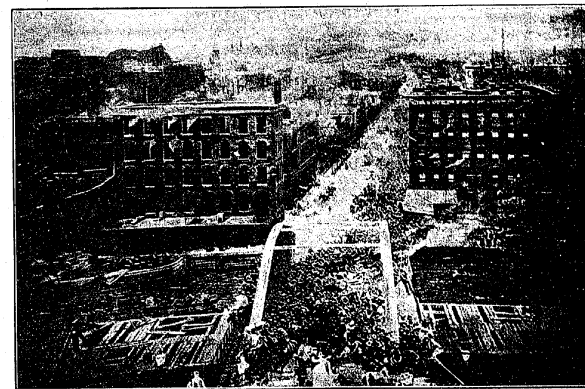
The refuse from the ruined buildings was carted away as rapidly as possible and dumped into the lagoon which formerly divided the Illinois Central tracks from the shore opposite Lake Front Park. How little did the people realize then that



The O'Leary House, back of which the great Chicago fire is said to have started, as seen by the kicking over of a lamp by Mrs. O'Leary's nursery cow.

they were beginning the very work which in after years was to be prosecuted with vigor in carrying out the provisions of the city plan, by which, literally on the ashes of the old, was to rise the new, the city beautiful!

As fast as the foundations of buildings



The original of the above photograph was found in an old building in Chicago some 25 years ago and it is believed to be an actual photograph, or photograph from depicting a panic scene during the great Chicago fire.

slab shanty which he put up in the middle of Washington Street, because the ashes of his former building were too hot behind that line, was a shingle that bore the slogan "All Gone But Wife, Children and ENERGY".

Several of the larger real estate concerns had copies of the abstracts of titles, the originals of which perished with the courthouse, and thus Chicago was saved the unutterable confusion of an uncharted city. Even with the duplicate records filed at Washington, however, it was often necessary to admit mere recollection in evidence in court for years to come.

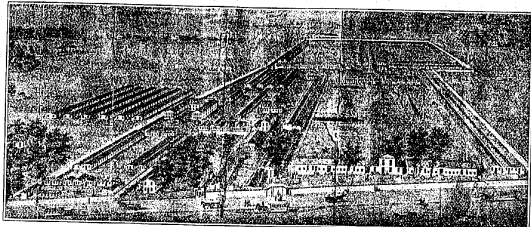
were uncovered, their walls began to be rebuilt. As far as feasible they made them fireproof. The Nixon building, the only practically fireproof building in town before the fire, had stood the test. It became the model. Fine fronts of marble and even iron girders, unprotected by concrete, had melted like wax before the blowpipe created by the tremendous and self-engendered blast of the fire. Concrete was now used in lining walls and covering iron work, and soon experiments with steel resulted in the "Chicago steel skeleton construction," known to all the world today. Chicago had thus, in less than a

century, progressed from the palisade architecture, used in Fort Dearborn, through the "balloon frame" stage, the brick, limestone and iron period, and arrived at the most advanced form of construction ever known.

Lake Front Exposition Building—Chicago was never long content with small things. Having got her house in order after the fire, she was restive to tell the world about it, and set about devising a plan by which she might receive visitors in a large scale. The result was the great exposition building on the Lake Front where the Art Institute stands, and extending down to Jackson Street, housing the Interstate Industrial Exposition, which became an annual affair for years to come. The building was of Scotch granite, roofed with an elliptical glass dome supported by iron girders. Stepping inside, one was greeted with the roar of a gigantic rising in the center, the throb of machinery and the crash of bands playing while the crowd surged around, a sea of delighted sight-seers.

Big Men Found Chicago Club—Men folk entertained one another from time to time with game dinners at the Grand Pacific—the Drake Hotel of its day—or at the Palmer, the Sherman or the Tre-

en, John B. Drake, N. K. Fairbank, C. B. Farwell, Marshall Field, Robert T. Lincoln, E. B. McCagg, S. M. Nickerson, George M. Pullman, J. Y. Scammon, Perry H. Smith, Lambert Tree, Emory



Camp Douglas where captive Southerners were imprisoned during the civil war period. No remains of the old camp remain at this day. The sight is now one of the populous sections of the city.

Washburne, Jr., and others of equal prominence socially and financially. A club house where DeJonghe's restaurant now stands was ultimately attained, and there the younger members had their first taste of what at that time was considered really "high life."

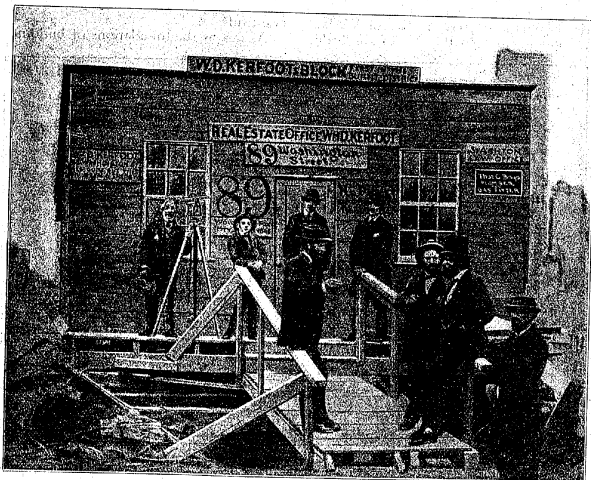
"White Stockings," otherwise known as the Chicago Club, which by 1876 became the champion club. The home grounds of the club at that time were located near the corner of State and Twenty-third

Streets, and by 1877 the City Council had granted the club a lease of the lake front between Washington and Randolph Streets.

Municipal Reorganization—Out of the unusual conditions created by the fire, making necessary the repair or replacement of almost all public works, such as street pavements, bridges, etc., besides the undertaking of new enterprises, such as the boring of more tunnels, the extension of horse car lines, etc., came the general consciousness that a change in the very fabric of the body politic was necessary. The result was the organization of the city under the general incorporation act of April, 1875. By this Chicago's rural government by legislative enactment, suitable for a small town, gave place to a more metropolitan system, with more power vested in the common council. In 1876 the board of public works was abolished and the single commissioner system instituted, the mayor himself holding that office temporarily until a regular commissioner was appointed in May, 1879.

Electricity and Sanitation in the Eighties—Events touching every interest in Chicago in the eighties were the introduction of electricity in the form of light and telephone service, and the organization of the Sanitary District, looking to the purification of the city's water supply by way of the drainage canal.

The first electric lights in Chicago were seen in 1880, a 50-light dynamo having been installed in the basement of the Young Men's Christian Association building, whence by June 1 light was going forth to at least forty lamps—all under the patents of the wizard Edison. The first theatre in the world to use incandescent lamps was the Academy of Music on Halsted Street, Chicago. The first theatre to be completely lighted with electricity was the old Haverly Theatre on Monroe Street. That Chicago people rose to the occasion was shown when on the first night, just as the curtain rose, all the lights were turned on. As one they sprang to their feet and applauded for fully fifteen minutes. By 1885 the courthouse and city hall had electric plants of their own; on the evening of December 31 the new Board of Trade building bloomed out



Alex Wolcott, Emil Rudolph, Geo. Birkhoff, Jr., W. A. Merrigold, W. D. Kelsey, Sam Ashford.
As first building erected in Chicago after the great fire. The men shown in this picture were among the prominent "businessmen." Apparently much of the business was transacted out of doors in the quarters within the building would hardly have housed the different and the many businesses as depicted by the signs on the building.

about houses, glorying in the frescoed ceilings, the Brussels carpets and the excellent fare. Out of such entertaining as this and the desire for more metropolitan life grew the Chicago Club, the pioneer club of the west, and for many years the only social club in Chicago. Its membership of one hundred included such names as B. F. Ayer, Charles J. Barnes, T. B. Blackstone, A. H. Burley, John Crerar, John DeKov-

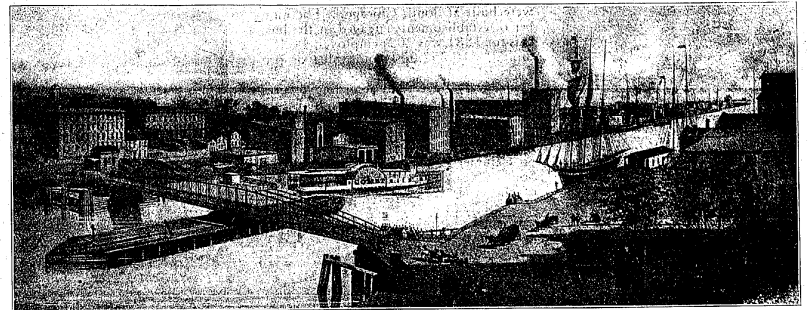
The Chicago Yacht Club was organized in July, 1870, the Farragut Boat Club in March, 1872, the Chicago Cricket Club in May, 1876, and the Bicycle Club in 1879.

As for the national game, Chicago was represented at the meeting of the National Professional Baseball Association in New York City on March 17, 1871, by the

with a corona of light at the crest of its 300-foot tower, and in a few years they were in general use throughout the city. Telephones had been in the wind since 1878 when the Bell and Edison Systems began to operate in Chicago, but it was in April, 1881, that the Chicago Telephone

attempts to divert the course of the current in the Chicago River and its branches had been made early in the eighties and before that, by means of powerful pumping stations within the city limits. Chicago was not empowered to go beyond its borders, out through the rocky stratum separat-

1880. Chicago, doing her share towards taking care of this trade with Europe, had meanwhile acquired two new carriers, the Grand Trunk Railway in February, and the Wabash, St. Louis & Pacific in August. The Chicago & Atlantic Railroad was opened in 1883, and with its connec-



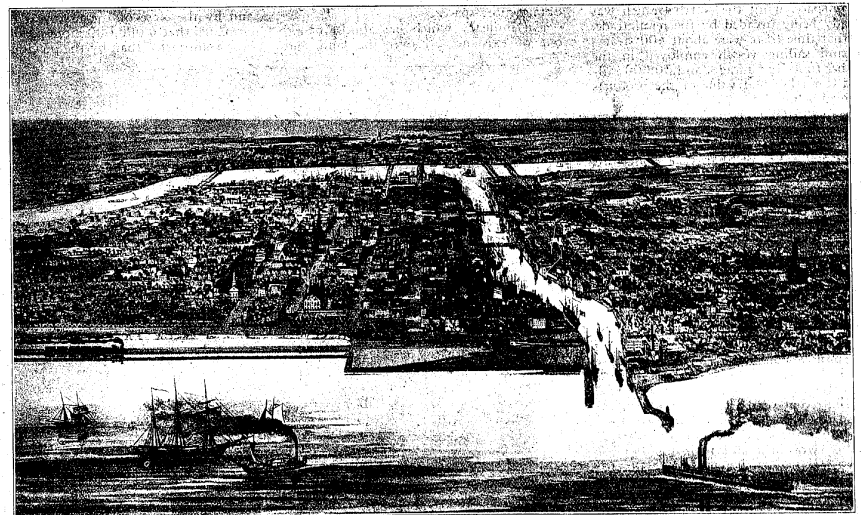
Rush Street bridge in 1801.

Company bought out the Bell Company of Illinois and the American District Telegraph Company consolidating the Bell and Edison Systems and giving the city practical service. Such utilities can only be appreciated by imagining their absence for a single twenty-four hours.

ing the lakes from the Mississippi water systems, and purify her own water supply. The year 1880 was a record year for Chicago in the development of commerce, not only throughout the northwest, but in the direction of foreign trade. Corn receipts increased 50 per cent over the pre-

tion, the New York, Lake Erie & Western, formed a direct line to the seaboard.

Foundations of the Great Central Market—In addition to the enormous growth of the packing industry of Chicago, there was development along cognate lines, and



Chicago in 1853 shows evidence of the enterprise which has made Chicago the great landing city which it is.

The fact that Lake Michigan is the source of water supply for the city, and that prior to the eighties it had also been the place of sewage disposal, makes apparent the need that led to the organization of the Sanitary District under the acts of June 6, 1887, and May 29, 1889. At-

vious year, while oats and barley were larger than ever before. The value of cattle and hogs was greater than in any previous year of Chicago's history. Foreign tonnage entered at seaports of the United States had increased from 1,608,291 tons in 1860 to 12,112,160 tons in

the estimated value of wool and hides handled in Chicago for the year 1885 was \$25,000,000. The total value of raw furs brought to Chicago about this time was between one and two millions of dollars annually.

A notable feature of the grocery trade in

Chicago has always been the direct importations of teas and coffees. Among the more prominent grocers who developed in the seventies and eighties in Chicago establishments of national note were Franklin MacVeagh & Co., Reid, Murdoch & Fischer, H. C. Durand & Co., Corbin, May



The old McVicker Theatre about 1860.

& Co., Sprague, Warner & Co., Merriam, Collins & Co., John A. Tolman & Co., W. M. Hoyt, Henry Horner & Co., and Dean Brothers & Lincoln.

The lumber industry, already the largest in the country, in 1881 added another district to the South Branch of the river, extending from 35th Street to the Stock Yards, and by 1884 a number of firms were obliged to move to South Chicago to secure space, while the North Branch was already being invaded by the retail trade. At that time there were about 500 steamers and sailing vessels employed in the lumber traffic in Chicago, and 30,000 railroad cars, the total value of the products received being about \$50,000,000.

By 1885 Chicago had become the recognized center of the clothing industry, both as to manufacture and distribution. The total sales for that year aggregated \$20,000,000.

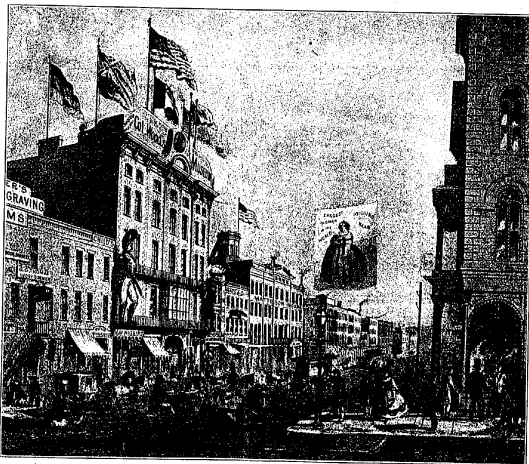
Pullman Cars.—Pullman palace cars, Chicago's contribution, to the comfort of the traveling world, began to be made in the town of Pullman—the \$5,000,000 village on the outskirts of Chicago, created by George M. Pullman for the centralization of his manufacturing work, and in the hope of dispelling dissatisfaction of employes through advantageous surroundings. A commentary on this is that the work went on apace, but for some reason the employes did not seem to like to live in the company houses—perhaps because they were too uniform in appearance. Within recent years Pullman has been annexed to Chicago, with all city privileges. An important experiment in the segregation of workmen and their families has been tried there, and manufacturers of today are putting into practice the lessons learned. One of the results is the study to afford as much variety in appearance in the houses as would obtain in any average village.

Chicago As Steel and Iron Center.—Chicago's position between the ore beds of Northern Michigan and the coal fields of Pennsylvania and Illinois made her a natural center for the manufacture of railroad rails and other iron products necessary

to the development of the Northwest. While the North Chicago rolling mills were established in 1857, the South Chicago mills were of the seventies and eighties. The year 1881 was especially prosperous in the iron industry. The rolling mills found it necessary to run at full capacity and four new blast furnaces were built at South Chicago. The number of establishments engaged in the business for 1881 was 202; employes, 11,359; capital, \$10,752,000, and value of products \$33,343,000. While this does not seem a very huge total according to present day standards, still it brought Illinois up from fifteenth place in the manufacture of steel and iron to fourth place at that time. The location of the Pullman works on Calumet Lake and the rolling mills at South Chicago, with the later development of the steel works at Gary, have had a strong influence on men's minds with regard to the ultimate location of Chicago's main harbor.

Farm Machinery Center.—Cyrus Hall McCormick died in Chicago on May 13, 1884, having established the great business of manufacturing reapers in Chicago, on a basis so broad and firm that it led ultimately to the organization of the International Harvester Company and made Chicago the world's center for the manufacture of agricultural machinery. The removal of the McCormick factory from the main river to a point on the North Branch had the effect of drawing away a good many big enterprises from the mouth of the river to a zone where they could obtain more space.

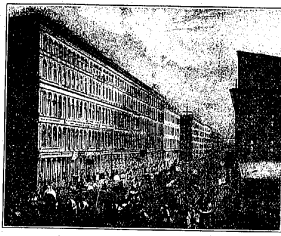
An industry which has almost passed out of existence all over the land, but



Col. Wood's Museum, prominent among institutions of its kind anywhere in the world and famous for the variety of its curiosities, which numbered 150,000.

which in Chicago of the eighties flourished like a green bay tree, was the brewing business. By 1885 there were thirty-three breweries in Chicago and twenty private malt houses. The brewing interest had more than doubled in fourteen years and

Chicago ranked high as a beer-producing center in the United States. The annual production in the middle eighties was 800,000 barrels and required over 5,000,000 bushels of malt, over 4,000,000 bushels of barley and 1,600,000 pounds of hops.



Looking East from the corner of State and Lake Streets in the days before the great fire.

First Cable Train.—On January 17, 1881, the city council granted the Chicago City Railway Company the right to operate a line of cable cars in Chicago, and by January, 1882, the State Street line to Twenty-ninth Street was ready for use. On the 28th of the month with a great deal of ceremony, the first public trial took place, Mayor Harrison, Superintendent Holmes, Judge Caton, Silas Cobb, William Bross and others of "the early day" making speeches. The Wabash and Cottage Grove line was constructed next, and by the close of the first year it was estimated that 6,000,000 more people had been transported than by the previous sys-

tem which were thus propelled along, the power being furnished by stationary engines in the plant. Ultimately the North and West Sides were all fitted out with cables, and if any inhabitant of Chicago of the eighties happened to return to this region and did not hear the rattle of the cable in its slot, he would think that the world had come to an end.



LaSalle Street from Court House Square in days preceding the big fire. Readers of present day news will be interested to note the name of "Gommes & Ulrich" which appears on the three-story building to the left.

World's Fair and End of Century in Chicago.—With the dawn of the last decade of the nineteenth century there occurred in Chicago an event once more bringing Chicago to the attention of the whole world, as had done the great fire of 1871, but with this difference: instead of appearing to the eyes of the world as a martyr to disaster, she had so far conquered circumstances as to be designated by the government of the United States to hold the great international exposition commemorative of the discovery of America.

As a matter of fact, the initiative in this vast undertaking lay with Chicago, for as far back as 1885, the directors of the Chicago Interstate Industrial Exposition—Chicago business men—had expressed themselves to this effect: "Resolved, That a great world's fair should be held in Chicago in the year 1892, the fourth hundredth anniversary of the landing of Columbus in America." By 1889 a "World's Exposition Company" was organized by Chicagoans, with a capital stock of \$5,000,000. In 1890 Senator Shelby M. Cullom of Illinois introduced a bill in Washington providing for the holding of the "World's Columbian Exposition of the Arts and Industries," but neglected to say where it should be held. New York, St. Louis and Washington immediately entered into petition with Chicago, but, by reason of the action already taken, and backed up with funds in Chicago, together with our acknowledged superiority of location as to centralization and transportation, Chicago received the award.

Chicago Thinks Toward the "Greater Chicago."—The phrase "Greater Chicago" came into common use in 1898 and

1899 in connection with the efforts of various civic bodies to secure the consolidation of the numerous taxing bodies within the city, so that one municipal government should perform the functions of the city, county and sundry small town governments involved. This was the time when the press all over the country was agitated by reports that whereas Chicago

was a frontier trading post under the name of Fort Dearborn. An important event in 1904 was the organization of The Chicago Association of Commerce.

It were futile to attempt to enumerate the things accomplished by the Association of Commerce since its organization. A partial list of things done in a single year published in their annual reports for 1919 may serve as typical:

Organized the Mississippi Valley Association for the economic development, north and south, of the great production section of America.

Secured enactment of the convention hall bill by the Illinois General Assembly.

Organized the Chicago Crime Commission. Secured 66,000 jobs for soldiers, sailors and marines through co-operation of Chicago employers.

Formed the Advertising Council of the Association, the largest "ad" club in the country.

Organized the Investors' and Advertisers' Protective Bureau.

Obtained passage of the Illinois waterways bill and the favorable attitude of the United States authorities towards this great project.

Obtained federal legislation, establishing a \$1,500,000 harbor at the Great Lakes Training School.

Formed the Foreign Trade Club of the Association.

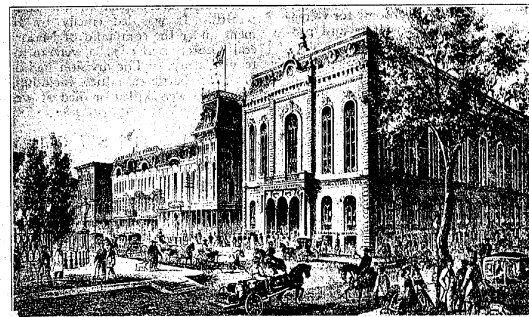
Fathered the movement resulting in the organization of the Illinois Chamber of Commerce.

Conducted Chicago's most successful Fire Prevention Day.

Brought to Chicago the headquarters of the American College of Surgeons, increasing Chicago's prestige as the leading medical center.

Conducted the first important trade tour into Mexico, to be followed that year by a return trip in which many American cities were expected to join.

Sponsored a strong movement for the improvement of the St. Lawrence River.



Chicago's first Chamber of Commerce dedicated August 30th, 1865, was located at the southeast corner of LaSalle and Washington Streets.

the extension of much needed roads beyond the former city limits, and concerted action between city and county when the matter of forest preserves arose.

Work of One Trade and City Building Organization.—In the year 1903 Chicago celebrated the centennial of her founda-

the success of which will make Chicago an ocean port.

Received in Chicago the International Trade Missions of Belgium, France, Great Britain and Italy and conducted their three-day program in this city.

The Wednesday meetings of the Association's Ways and Means Committee are

unique in the entire country, consisting as they do one of the most important forums ever erected for the consideration of matters affecting the city, state and nation and the world.

Standardizing Philanthropic Work.—An unusual departure within a commercial organization was the institution in 1911 of the Subscriptions Investigating Committee, which now has on its list 219 commendable local charities, civic and reform, associations, enabling the business man who has not time himself to investigate, to judge quickly of the sound management, social service efficiency and financial integrity of those appealing for aid.

Men's and Women's City Clubs.—An event of importance growing out of a feeling of the need of companionship in the downtown district by those engaged in civic work was the formation of the City Club of Chicago in 1903. The club now has 2,000 members. Their six-story club house is the rendezvous of civic organizations of all kinds. Two main activities of the club are the conducting of a forum for discussion and of committees for investigation and report on civic questions. The Chicago Bureau of Public Efficiency, offspring of the club, is also housed in its building.

The Woman's City Club has also been formed on somewhat similar lines, the pioneers being Mrs. Mary W. Wilmarth, Jane Addams, Harriet Vittum and Mrs. J. T. Bowen.

In 1907 was launched as an experiment the Chicago Sunday Evening Club to provide in the loop district from October to June a popular-Christian service every Sunday evening. A small audience has grown until in May, 1921, the average attendance had become 2,500 with 2,175 at a previous song service. The founder of the club is Clifford W. Barnes, and he has been supported by leading business men. The club looks toward the erection of a great building in the downtown district where a community center shall be established with rooms for recreation, education, public welfare and promotion of Christian ideals.

The small parks and playgrounds movement, which was well under way in 1910, has developed enormously in the

decade that intervenes. In 1920, in addition to the several large parks, there were 194 small parks and playgrounds maintained by the city and by park authorities. Many of these have field houses and some have swimming pools.

Prior to 1910 the bathing beach facilities were limited in Chicago. In 1920 there were twelve public bathing beaches, three maintained by park boards, the rest by the city government. Clarendon Beach, managed by the city, is the largest with 10,000 lockers and accommodation for 23,000 bathers in one day.

Interesting special schools which have been opened in the new century are the Francis Parker School founded on the principles of advanced education held by Dr. Parker, at the expense of Mrs. Anita Blaine McCormick, and the Chicago School of Domestic Science, whose north branch opens this fall in the old Belden Avenue mansion of the George E. Adams family. The College of Education at the University of Chicago is one of the most highly specialized schools in the world. At the close of its summer session in 1921 the University of Chicago conferred 400 degrees, 57 of which were the bachelor's degree in the College of Education and 19 in the College of Commerce and Administration.

Chicago and Illinois in the Great War.—Meeting requirements as a center of population and patriotism in the Spanish-American War of 1898, as in the prolonged struggle of the Civil War, Chicago and Illinois gave 351,153 men to the army and navy of the United States during this conflict, furnishing one man for every twelve in the army and more men to both army and navy than any other state excepting New York and Pennsylvania, both of which have a larger population. The state's own division was the 33d, and this was the only distinctively Illinois organization that saw active service in France. It was formed from the state's old National Guard regiments and represented every part of the commonwealth. It was led chiefly by Illinois men, under the command of Major General George Bell, Jr., a veteran of the regular army. The division had a total of 7,255 battle casualties, including 989 men who were killed or died of wounds.

The 33d (or Prairie) Division was trained at Camp Logan, near Houston, Texas, and after a short period of training overseas took its place beside the veteran divisions of the American army and fought gloriously throughout the critical days of the war.

The division's brigade units were: 66th Infantry Brigade, composed of the 131st and 132d Infantry and 124th Machine Gun Battalion; 65th Infantry Brigade, composed of the 129th Infantry, 130th Infantry and 123d Machine Gun Battalion; 58th Field Artillery, 123d Field Artillery and 124th Field Artillery, 108th Ammunition Train and 108th Trench Mortar Battery.

Population In 1920.—Chicago had 2,701,705 people in 1920, according to the government census figures. A committee of The Chicago Association of Commerce, reporting upon smoke abatement and the electrification of railways in 1915, made estimates of Chicago's future population for a number of years up to an including 1950. The estimate of this committee for 1920 checked very closely with the official census returns. The committee's forecast for 1950 places Chicago's population at 4,267,803.

Past experience shows that Chicago has gained at least 500,000 people each decade, or 50,000 annually. If we assume, to be conservative, that the city's growth after 1950 will be at the rate of only 40,000 people annually, Chicago will have at the centennial celebration of 1971 more than 5,100,000 inhabitants.

Double Its Present Area.—In 1871 the city of Chicago covered 36 square miles of territory; today somewhat more than 200 square miles are embraced within its limits, a growth in extent during the short space of fifty years of 455 per cent.

1923—So Chicago has grown in one marvelous century from a rude, unpromising, frontier settlement to a great urban center. The world's youngest, great city is now opening an era of conscious cultivation and regulation. It is an era of planning, beautifying. It will also be an era of tremendous growth.

Greater Chicago, the famous central market, is looking toward even greater achievements as a commonwealth.

Dearborn. John Kinzie and his family returned. Indian treaty at St. Louis, August 24, ceding lands at Chicago and vicinity.

First school opened in fall, 7 or 8 pupils.

Indian agency re-established.

1817—Trading House of Conant and Mack established at Hardscrabble.

1818—Illinois admitted as a state December 3.

1819—Importance of a canal from Illinois River to Lake Michigan urged by John C. Calhoun, Secretary of War, in a report to Congress.

1820—Henry R. Schoolcraft visits Chicago, Dr. Alexander Welcott came.

1821—Ebenezer Childs visits Chicago. Schoolcraft's second visit.

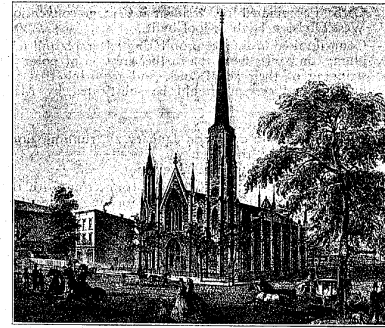
1822—First baptism in Chicago.

1823—Major Long's second visit. Fort Dearborn evacuated.

Archibald Clybourn came.

1824—James Clybourn came this year.

- 1825—John H. Fonda visits Chicago.
1826—First election in Chicago—35 persons voted.
1827—Ebenezer Childs second visit. Winnebago War.
1828—Fonda's second visit. Fort Dearborn reoccupied.
1829—Jefferson Davis visits Chicago. Illinois-Michigan Canal incorporated.
First ferry across the river, where Lake Street Bridge now is.
1830—First floating bridge.
Canal section platted. Special election—56 votes cast.
1831—Chicago Post Office established March 31.
May, Fort Dearborn again evacuated.
June 15, Cook County organized.
First Protestant Church organized, affected in June.
First season of Chicago Opera.
1832—June 17, Fort Dearborn again reoccupied.
Taxes amounted to \$142.28.



Second Congregational Church at northwest corner Wabash Avenue and Washington Street was one of the pretentious edifices of early Chicago.

- 1833—Chicago incorporated as a town.
Fifty families living in Chicago.
First Catholic Church in Chicago is started.
\$30,000 spent by government in dredging Chicago River.
First Presbyterian Church started.
First newspaper: The Chicago Democrat, published by John Calhoun, November 26.
1834—First large vessel enters Chicago River.
Methodist and Episcopal Churches founded.
First drawbridge across the river at Dearborn Street.
Great real estate boom.
1835—First hook and ladder fire company organized.
First bank established.
First court house.
First cemeteries.
Treaty with Indians which opened up lands for settlement. Population, 3,297.
1836—First vessel of any size built in Chicago.
The ship "Clarissa" was launched May 18.
Began construction of the Illinois-Michigan canal.
Population now 4,000.
First circus in Chicago shows.
Final departure of the Indians.
1837—City charter received.
First charter election May 2.
First financial crash.
First theatre opens up.
Population 4,180.
1838—Many failures due to financial crash.
Population decreased.
78 bushels of wheat shipped east.
Population 4,000.
1839—Fort Dearborn addition laid out and platted by the United States and the lots sold for cash.
Dearborn Street Bridge demolished and a scow terry substituted.
First daily newspaper, "The American," issued April 5.
First disastrous fire October 27, destroying Tremont House and 17 other structures.
1840—First execution for murder, May 1.
Population 4,479. First United States census taken.
1841—Population reaches the 5,000 mark.
1842—Population 6,590.
Ex-president VanBuren visited city.
1843—Public market house, corner Lake and State street completed at a cost of \$1,500.
Rush Medical College founded—22 students.
1844—The first book compiled, printed, bound and issued in Chicago was the Directory for 1844.
First permanent school building started to be built Chicago Journal founded.
1845—March 28, the Common Council first adopted the system of levying special taxes for the improvement of the streets.
First steam power press, the Adams, set up and used in the office of the Democrat, December 27.
1846—Chicago made a port of entry July 16.
1847—Chicago Tribune founded.
River and Harbor Convention met in Chicago, July.
Delegates present from 18 out of the then 29 states in the Union—nearly 10,000 present altogether.
Lincoln was present. It was his first visit in Chicago.
City limits were extended by an act of the Legislature February 16, to Western Avenue, North Avenue, Fullerton Avenue, and to the lake; and the city was divided into nine wards.
1848—Police force consisted of one city marshal and nine constables—one from each ward.
First passenger train, departed October 25.
Completion of the Illinois and Michigan Canal and passage of the first canal boat (The General Fry) over the Summit Level, from Lockport to Chicago, April 10.
First telegraph received from Milwaukee, June 15.
1849—Cholera epidemic caused many deaths.
Much building and big real estate boom.
Act passed by the legislature authorizing formation of the Chicago Gas Light and Coke Co.
Great ice floods doing over \$100,000 damage.
1850—Elgin was reached by rail January 22.
City lighted with gas September 4.
1851—Combined court house and city hall erected at a cost of \$111,000.
Chicago City Hydraulic Company incorporated and Board of Water Commissioners appointed.
Bridewell prison opened December.
Northwestern University organized.
1852—Michigan Southern, first railroad to enter the city from the east, February 20. Chicago, Rock Island & Pacific R. R. completed to Joliet and Morris in October.
Water work construction begun.

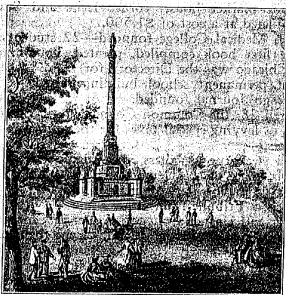


Crosby Opera House

Main Building Northwesters Sanitary Fair, 1865

"The Wigwam" where Lincoln was named for President

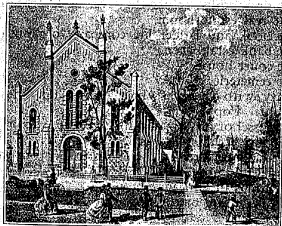
- 1853—Northwestern University founded in Chicago.
First omnibus lines started May 9 by Frank Parmelee.
- 1854—Illinois Central R. R. extended to Urbana in July.
Water first furnished from new city water works February 12.
Chicago Times Founded.
- 1855—Dr. Boone elected mayor by the American party and with him ordinances passed creating the police department with a force of 80 or 90 men.
Chicago University organized as a Baptist College.
- 1856—City Armory, City Hospital and High School built.
Sewer construction started.
First street paving (wooden blocks) laid on Wells Street.
- 1857—Destructive fire, \$500,000 property loss and 23 lives.
Financial panic in which 117 business houses in Chicago failed.
Chicago Academy of Science founded.



Douglas Monument showing Douglas Park as it appeared in the days of hoop skirts. The monument still stands and the park is preserved though it is no longer the popular meeting place and promenade of its early days.

- 1858—First steam fire engine, "Long John," introduced.
Chicago Theological Seminary opened October 6.
- 1859—First city railway constructed in State Street, drawn by horses.
- 1860—Republican National Convention, May 16-19.
Lincoln nominated as candidate for presidency.
- 1861—First troops raised and sent to war.
- 1862—Francis Cornwell Sherman, war democrat, elected mayor on a non-partisan ticket.
- 1863—Francis Sherman re-elected mayor.
- 1864—6000 buildings erected this year including 9 churches, 4 public halls and two school houses, at a cost of \$4,700,000.
- 1865—Chamber of Commerce building at Washington and LaSalle erected and occupied.
7000 buildings erected including eight schools and colleges, nine churches and six halls costing \$6,950,000.
- 1866—\$11,000,000 spent in building this year.
Lake tunnel for water supply completed.
- 1867—Work started on Washington street tunnel under river.
- 1868—Lincoln Park opened to the public.
- 1869—First tunnel under river completed—Washington street.
- 1870—Big fire of the Drake block—\$2,500,000 loss.
Chicago Yacht Club organized—July.
- 1871—The great Chicago Fire occurs.
Rookery building completed and occupied by Jan. 1.
Chicago represented at a meeting of the National Professional Baseball Association in New York City, 17, by the "White Stockings" known as the Chicago Club.
- 1872—Chicago library started in a small way in the city hall.
Forty-first season of Chicago opera February 12, 1872.
Farragut Boat Club organized in March.
Chicago Inter-Ocean founded.
Steam first used to operate the swing bridges.

- 1873—Financial panic—period of inflation.
Lake Front Exposition Building opened.
- 1874—Citizens' Association organized July 24.
- 1875—City incorporated under general laws.
Chicago News first issued December 25.
- 1876—Chicago Cricket Club organized—May.
Board of public works abolished and single commissioner system instituted.
Chicago Woman's Club was organized.
- 1877—Railroad riots.
Commercial Club organized December 27.
- 1878—Bell & Edison telephone systems began to operate in city.
- 1879—Central Music Hall opened December 4.
Bicycle Club organized.
Art Institute incorporated.
- 1880—First electric lighting in Chicago.
Garfield nominated for President at Chicago convention.
West Division High School built.
- 1881—Council raised ordinance prohibiting telegraph and telephone companies from the further erection of poles for stringing of their aerial lines, and requiring that the underground system should be substituted by May, 1883.
- 1882—First cable car runs.
First cable cars in operation January 29, running along State Street to 29th Street.
First manufacturing festival given.
- 1883—Chicago & Atlantic R. R. opened connecting with the New York, Lake Erie and Western forming a direct line to the seaboard.
Calumet Club built and opened April 21.
Union Club opened in December.
North Division High School built.
- 1884—South Division High School built.
- 1885—Chicago recognized as center of the clothing industry.
Board of Trade building completed.
City Hall and Court House building ready for occupancy.
First opera festival—April 13-26.
- 1886—Haymarket riots.
Union League Club house opened May.
- 1887—Adoption of electric lighting on public streets of municipal charge inaugurated.
- 1888—Harrison nominated for President in National Convention at Chicago.
- 1889—June 29, City of Lake View, towns of Hyde Park, Lake, Jefferson and Cicero annexed to and became a part of Chicago.



First Congregational Church, southwest corner Washington St. and South Green Street. This building was completed in 1855.

- Auditorium Hotel and theatre built.
Hull House founded by Miss Jane Addams and Miss Ellen Gates Starr.
World's Exposition Company organized.
- 1890—Year of great building.
Sanitary district organized.
First electric line began operating Oct. 2.
- 1891—Population now 1,148,797.
- 1892—New University of Chicago opened.
Democratic National Convention held here.

- 1893—World's Columbian Exposition.
Field Museum incorporated under name of Field Columbian Museum of Chicago.
Art Institute building occupied November 1.
Cornerstone of New Public Library laid.
Armour Institute of Technology opened.
- 1894—Great railroad strike, one million dollars property destroyed.
Financial panic.
John Crerar Library incorporated as a free library.
First Lift Bridge opened at Halstead Street and operated by steam.
- 1895—Civil service system inaugurated.
Population 1,366,813.
Rush, Lake and Van Buren street bridges operated by electric motors.
- 1896—Number of school children enrolled reaches 213,835, with 4,668 teachers.
- 1897—Elevated Road extended to Kenwood. Trains begin running around the loop.
- 1898—Chicago's lake tonnage reaches total of 7,557,215.
The phrase, "Greater Chicago" came into common use.
- 1899—Special Park Commission created.
- 1900—Drainage canal opened in January.
- 1901—First train over the electric road to Joliet, Sept. 12.
- 1902—First train over the Aurora, Elgin & Chicago Railway Aug. 25.
- 1903—Centennial celebration.
Iroquois Theatre Fire—595 lives lost.
City Club organized.
- 1904—Roosevelt nominated for President in National Convention at Chicago.
Chicago Association of Commerce organized.
Teamsters' strike.
- 1905—McKinley monument unveiled in McKinley Park.
- 1906—First Chicago underground tunnels for freight in use July 15.
First electric surface cars run on Clark street.
- 1907—Chicago Sunday Evening Club started.
- 1908—Taft nominated for President in National Convention at Chicago.
Railways entering Chicago accept ordinance of City Council for the elevation of 947 miles of all tracks.
- 1909—Chicago Plan Commission created by City Council Nov. 1.
- 1910—Chicago Waterworks System breaks record—more than 500,000,000 gallons pumped per day.
Sanitary canal opens connecting link between canal, thus connecting Chicago with St. Louis and other Mississippi River ports.
- 1911—New Chicago & Northwestern railroad passenger station opened; cost \$25,000,000. New land tunnels of waterworks system built at cost of \$1,642,699.84.
- 1912—Campaign started for pure milk.
First all-water freight carrying project completed when steamer and barge dock in Chicago River.
- 1913—First through train on the "L."
- 1914—Village of Morgan Park annexed.
Work begun on \$5,000,000 municipal pier.
Surface lines consolidated.
- 1915—Eastland disaster—July 24.
Work starts on new Union Railway Terminal.
- 1916—5,000 employees of International Harvester Co. strike.
Chicago makes "Preparedness" drive.
- 1917—Official flag of Chicago adopted April 4.
- 1918—Chicago observes heatless Mondays. Closes on this day.
- 1919—Race riots, July 27-Aug. 2.
- 1920—Harding nominated for President in National Convention at Chicago. Franklin-Orleans bridge opened to traffic Oct. 23.
- 1921—Begin construction of new Union Station to cost \$80,000,000.
Landis award June 9.
Wells street bridge completed.
- 1922—Madison street bridge opened.
Ground broken for new McCormick zoo.
Cornerstone of Chicago Temple laid Nov. 5.
- 1923—Chicago in midst of big building boom.
Lake front improvements under way.

CHAPTER TWO

CHICAGO THE MODERN CITY

Composite Picture of City Today Shows Many Interesting Features

Portions of this and of later chapters are reproduced by permission from the Chicago Daily News Year Book.

Chicago, the modern city, the city that now ranks fourth among the great urban centers of the world, is vastly different from the early town of that name. A composite picture of Chicago with statistics on its growth and features today shows the colossal size of this great distributing center.

How the City is Laid Out—The city is divided by the Chicago River into three divisions which are known as the North, South and West Sides. Of the three divisions of the city the North Side is, broadly speaking, a residence district with a blending, particularly towards the river, of south and west, of warehouses and manufacturing concerns.

The West Side comprises large residence districts, great manufacturing areas, urban yards, and busy retail thoroughfares.

The South Side is also to a large extent a residence district, though to the west and toward the extreme south it is devoted largely to manufacturing. The north end of this South Side is the business center. In this area are immense wholesale and retail establishments, the famous department stores, the towering office buildings, the great banks, and the

municipal, county and federal buildings. Here are employed 300,000 persons who come daily from outlying sections. In this district the elevated and surface lines from all parts of the city come to a focus, moving around certain blocks for the return trip—hence the term "loop." This "loop" district, lying in the east-central part of the city with all business radiating to the north, west and south, gives the city the appearance of being fan-shaped.

The rectangular block system prevails throughout the city, the streets running east and west, and north and south with comparatively few exceptions. In all parts of the city 100 numbers are allowed to the block of one-eighth mile, or 800 numbers to the mile.

Miles of Streets—Chicago has 3,478 miles of streets of which 2,413 miles were paved up to January, 1923.

Chicago's Loop District is Heart of City—Chicago's loop district, that area within the business section which is bounded by the converging circuit of the elevated railway, is more famous perhaps than any other spot on the globe. Although it is relatively but a small part of

the city, it is a giant in power. Here are gathered the main offices of big businesses which serve the world.

Ninety years ago cows were grazing where today are giant skyscrapers and busy streets. In fact, there are 163 skyscrapers in this area known as the "loop" and more are going up each year. And where years ago but a few settlers lived is today a business section in which are 300,000 workers, to say nothing of 20,000 street cars passing in and out of this area every 24 hours, 150,000 vehicles and pedestrian population of 1,000,000.

A single block of ground in this amazing loop is worth \$12,000,000.

The Streets—Many of the streets of Chicago's loop bear the names of former presidents or of figures identified with the history of the Northwest. Washington, Madison, Monroe, Adams, Quincy, Jackson and Van Buren are named after our early presidents. Clark street commemorates George Rogers Clark, conqueror of Kaskaskia; Wells street recalls Captain William Wells, hero of the Fort Dearborn massacre; LaSalle street is a tribute to the memory of the great French explorer, first white man to see Lake Michigan.

Each street has its individual characteristics in the scheme of the whole; State street is a world-famous shopping center; nowhere can one "window shop" with greater delight, nowhere is window decoration regarded more as an art; LaSalle street is an internationally important financial street; Randolph street is the Mecca of theater lovers west of New York; Wells street is the center of the wholesale merchandising district. At the intersection of State and Madison is the busiest street crossing in the world. Northward a few blocks is a bridge more traveled than the famed London Bridge.

Nowhere else is there an equal-sized community containing such a busy cosmopolitan life, so many thriving businesses, such financial activity, such an array of institutions of power, character and culture—and such promise of future greatness—as Chicago's "Loop."

Population of Chicago by Color, Nativity and Sex (1920)

| | |
|---------------------------------|-----------|
| Total population | 2,701,705 |
| Male | 1,369,917 |
| Female | 1,331,788 |
| Native white | 1,783,687 |
| Male | 879,479 |
| Female | 904,208 |
| Native parentage | 642,871 |
| Foreign parentage | 888,496 |
| Mixed parentage | 252,320 |
| Foreign-born white | 805,482 |
| Male | 431,764 |
| Female | 373,718 |
| Negro | 109,458 |
| Male | 55,943 |
| Female | 53,515 |
| Indian, Chinese, Japanese, etc. | 3,078 |

Chicago's Increase in Population—To show the rapid increase of the population of Chicago the following table is given:

| | |
|------|-----------|
| 1850 | 29,963 |
| 1860 | 109,260 |
| 1870 | 298,977 |
| 1880 | 503,183 |
| 1890 | 1,099,850 |
| 1900 | 1,698,575 |
| 1910 | 2,185,283 |
| 1920 | 2,701,705 |

The estimated population for 1922 was 2,851,705.

The estimated population for 1923, based on the canvass for this directory, is shown on the introductory page.

An estimate of the future increase in population of Chicago, classified by sources of increase and covering the decades 1910 to 1950 is presented in the following table. This table was compiled by experts for the Chicago Association of Commerce in 1915 and the value of it may be realized when we learn that their estimate for the decade 1910-20 (five years in advance) varied only a few thousand from the actual census taken in 1920. In 1915 they predicted that by 1920 Chicago would have a population of 2,728,434. By actual census in 1920 it was found that the population was 2,720,705. Their estimate was only 26,729 too high.

In basing their estimation they took into consideration the following facts:

The increase in the population of Chicago in the future, it may be assumed, due to the migration of native-born from other states as well as from other parts of Illinois, will be considerably less than it has been in the past. Various positive in-

fluences are also at work which increase the stream of the rural movement and to a very marked extent offset the urban movement.

Immigration, as a factor in the increase of the population of Chicago, will very probably also be a decreasing one, a fact due partly to the enactment of more stringent immigration laws by the United States, to the increase in the proportion of immigrants who locate in smaller cities and rural communities, and to the demand for industrial labor due to the establishment of large manufacturing concerns in outlying regions.

For these and other reasons, an estimated decrease of 25,000 per decade in the net increase due to the immigration and migration of foreign-born has been made.

Governance of Chicago—Chicago is governed on the Mayor-Council plan of government. It is divided into three branches on the basis of the three general functions of government, a legislative branch composed of the City Council; an executive branch embracing all the administrative officers of whom the mayor is chief; and a judicial branch, the powers of which are vested in a single Municipal Court.

Information in detail concerning all branches of the City, State and Federal governments, showing personnel of officials, is embraced in the Miscellaneous section of this directory under the respective headings for each.

Chicago's Taxes—Of all the cities in the United States in excess of a half-million population, Chicago has the lowest per capita tax, and the lowest per capita debt of all, save one.



Looking north on Michigan Avenue and westward over the thickly populated residence section of Chicago's North Side.

FOREIGN BORN (WHITE) IN CHICAGO BY WARDS (1920)

From federal census report. The figures are for the various wards as they existed in the year 1920.

| Born in | Total | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 | 14 | 15 | 16 | 17 |
|-----------------|---------|-------|-----|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|--------|-------|-------|
| Austria | 40,491 | 999 | 248 | 537 | 566 | 408 | 742 | 390 | 1,524 | 947 | 632 | 1,968 | 1,175 | 677 | 945 | 1,791 | 749 | 1,109 |
| Belgium | 2,079 | 31 | 43 | 107 | 37 | 77 | 213 | 148 | 41 | 57 | 34 | 36 | 28 | 28 | 95 | 76 | 10 | 14 |
| Canada, French | 15,422 | 43 | 23 | 68 | 17 | 23 | 37 | 52 | 32 | 32 | 30 | 38 | 28 | 159 | 45 | 18 | 7 | 7 |
| Canada, Other | 23,622 | 425 | 405 | 1,288 | 152 | 282 | 1,117 | 3,023 | 462 | 621 | 70 | 97 | 140 | 1,338 | 637 | 232 | 46 | 38 |
| Czecho-Slovakia | 50,325 | 97 | 97 | 174 | 386 | 468 | 241 | 148 | 507 | 854 | 7,420 | 1,697 | 3,056 | 256 | 826 | 381 | 191 | 267 |
| Denmark | 11,268 | 131 | 153 | 332 | 59 | 73 | 308 | 626 | 230 | 310 | 3 | 24 | 27 | 159 | 211 | 776 | 22 | 59 |
| England | 26,420 | 482 | 389 | 1,037 | 208 | 496 | 1,571 | 1,839 | 830 | 903 | 183 | 216 | 223 | 1,321 | 953 | 653 | 68 | 17 |
| France | 4,568 | 173 | 311 | 226 | 43 | 54 | 273 | 385 | 79 | 69 | 33 | 39 | 36 | 145 | 99 | 39 | 16 | 36 |
| Germany | 112,283 | 998 | 677 | 1,711 | 2,177 | 2,876 | 2,972 | 2,309 | 2,219 | 2,300 | 634 | 2,914 | 1,562 | 1,602 | 1,669 | 3,721 | 1,823 | 772 |
| Greece | 11,546 | 485 | 914 | 226 | 34 | 122 | 287 | 79 | 262 | 414 | 89 | 67 | 98 | 316 | 309 | 121 | 67 | 246 |
| Hungary | 26,106 | 167 | 89 | 637 | 198 | 228 | 809 | 369 | 228 | 502 | 2,227 | 215 | 428 | 397 | 609 | 1,889 | 429 | 261 |
| Ireland | 50,736 | 1,194 | 571 | 2,196 | 1,062 | 2,791 | 2,768 | 3,149 | 1,119 | 1,260 | 221 | 611 | 291 | 1,119 | 1,240 | 388 | 112 | 176 |
| Italy | 65,245 | 3,013 | 428 | 1,116 | 1,756 | 2,827 | 1,449 | 2,533 | 1,059 | 3,100 | 447 | 1,311 | 140 | 1,648 | 3,640 | 682 | 275 | 6,199 |
| Jugo-Slavia | 3,653 | 430 | 137 | 60 | 436 | 211 | 383 | 1,938 | 209 | 1,339 | 71 | 187 | 17 | 187 | 34 | 80 | 616 | 62 |
| Lithuania | 18,932 | 39 | 16 | 90 | 3,938 | 2,941 | 37 | 67 | 291 | 1,514 | 1,514 | 305 | 242 | 73 | 171 | 102 | 56 | 9 |
| Netherlands | 3,843 | 38 | 32 | 58 | 32 | 68 | 120 | 139 | 40 | 3,897 | 531 | 242 | 78 | 232 | 960 | 1,602 | 44 | 282 |
| Norway | 13,711 | 422 | 151 | 309 | 299 | 323 | 391 | 217 | 303 | 291 | 217 | 106 | 622 | 373 | 229 | 857 | 47 | 663 |
| Poland | 137,011 | 422 | 151 | 309 | 299 | 323 | 391 | 217 | 303 | 291 | 217 | 106 | 622 | 373 | 229 | 857 | 47 | 663 |
| Roumania | 41 | 41 | 41 | 41 | 41 | 41 | 41 | 41 | 41 | 41 | 41 | 41 | 41 | 41 | 41 | 41 | 41 | 41 |
| Russia | 102,095 | 544 | 802 | 1,143 | 1,132 | 3,245 | 2,112 | 602 | 1,190 | 2,095 | 7,657 | 3,623 | 3,666 | 2,033 | 1,277 | 15,656 | 2,390 | 705 |
| Scotland | 55,310 | 152 | 169 | 378 | 161 | 177 | 246 | 428 | 428 | 428 | 428 | 428 | 428 | 428 | 428 | 428 | 428 | 428 |
| Sweden | 55,333 | 376 | 414 | 1,008 | 291 | 292 | 1,939 | 3,302 | 2,448 | 3,673 | 38 | 176 | 544 | 320 | 439 | 780 | 35 | 150 |
| Switzerland | 3,422 | 97 | 39 | 101 | 63 | 48 | 115 | 90 | 62 | 46 | 146 | 96 | 309 | 451 | 203 | 161 | 81 | 152 |
| Other Countries | 12,571 | 390 | 184 | 320 | 80 | 313 | 404 | 342 | 462 | 466 | 146 | 96 | 309 | 451 | 203 | 161 | 81 | 152 |

Taxpayers in Chicago get more value out of every dollar expended than do the citizens of any other city in the country; that is, in proportion to the amount expended, Chicago's citizens get more police protection, more fire protection, more health protection, more water service, more sidewalks and pavements, more street lights, and more of all the services secured through municipal government than do the citizens of any large city in this country.

Chicago Has Most Modern and Efficient Water System—780,000,000 Gallons Pumped Daily for City Use

Chicago has one of the most modern, best equipped, and most efficient water distribution systems, which provides this city with the greatest supply of pure water of any large city in the world. The construction of the Chicago Water Works System has been a marvelous achievement for the city, developing as it has over a long period of years, during which the city has rapidly spread out over an immense area and increased many times in population. No factor which has enabled Chicago to progress so rapidly could be of greater importance than the keeping up of an adequate supply of pure water, upon which health, cleanliness, comfort, even life itself depend.

Chicago uses an enormous amount of water daily—an average of 780,000,000 gallons. This means that for each man, woman and child in Chicago, an average of five and a half barrels of water is pumped each day. In a year the total usage is considerably more than 287 billions of gallons. Nine major pumping stations, with a total capacity of one bil-

lion, 140 million gallons per day, approximately sixty-five miles of underground tunnels built through the solid rock or clay soil underneath the bed of the lake and the city streets; and some 3,000 miles of iron pipes of various diameters, comprise a part of the general distribution system.

300,000 Service Pipes—There are also some 300,000 service pipes which carry the water into the homes and factories of Chicago. The water is taken from Lake Michigan at some distance from the shore. Five intake structures, or cribs, which are located from three to four miles out, can be seen plainly from the shore. The water passes into the crib through ports which are covered with a screen to keep out fish. Inside the crib a large shaft extends down under the bed of the lake and connects with a tunnel, which leads to one or another of the pumping stations. The older tunnels were built five to seven feet in diameter through the clay soil, and lined with brick, but in later years larger tunnels have been constructed, twelve and even fourteen feet in diameter. They are blasted through solid rock from a hundred to a hundred and fifty feet below the surface of the ground, and are lined with concrete.

From the inside of the crib the water pours down the shaft, drawn by the force of gravity, and flows through the tunnel for several miles to its terminus, the pumping station. Each pumping station supplies principally the territory or district in which it is located, but the large water mains leading from the stations out into the general system are interconnected in such a way that if any of the pumping

stations become partially disabled, the other adjacent pumping stations take over part of the work and the supply of water for the district is in this manner kept up to normal. At the pumping station the water is lifted out of the shaft, or well, built at the end of the tunnel underneath or near the building which houses the pumps. Some of these pumps are huge, intricately assembled machines operated by steam, while others of a smaller, simpler, and more modern design, are operated by electric power and have almost double their capacity.

Water Kept Pure—Great care is taken to keep the water supply pure as well as adequate for the needs of the growing city. Samples are taken daily from each of the pumping stations by the Health Department, and are analyzed and tested for bacteria. Chlorine is put into the water at the station to kill bacteria and to render the water safe for drinking. The proportion of chlorine used is three-tenths of one part for a million parts of water. Precautions are taken against pollution of the lake by steamers and by dumping refuse in the lake. When a new feeder main is laid, the first water passed through the main is wasted and the main is treated with a strong chlorine solution, all of this water being run into the sewer, and it is flushed out with fresh water, and after the water is allowed to run for some time, samples are taken, and the main is shut off and kept out of service until the Health Department reports these samples O. K. These facts indicate the precautions that are taken by the city to protect the health of her citizens. Due to these precautions, Chicago has the lowest

typhoid death rate of the United States, the rate on the last report being 1.1 per 100,000 population.

All the costs of operating, maintaining and extending the water system are paid for out of the water taxes, that is, the money collected from the water consumers and property owners for the use of water. In other words, the water system is self-supporting and the money which is collected is kept in a separate fund known as the water fund. The total cost of supplying water to the city of Chicago is approximately \$10,000,000 a year.

Chicago Waterworks System—The following table shows the growth of Chicago's waterworks system by decades since 1854, when the first large pumping station at Chicago avenue and the lake was built, and by years since 1900:

| *Population Using City Water | | | | | *Population Using City Water | | | | |
|------------------------------|------------|----------------|------------|---------------|------------------------------|------------|----------------|------------|---------------|
| Year | Population | Gallons Pumped | Gallons | Total Revenue | Year | Population | Gallons Pumped | Gallons | Total Revenue |
| | | Per Day | Per Capita | \$ | | | Per Day | Per Capita | \$ |
| 1854 | 65,000 | 581,000 | 9.1 | 68,105.00 | 1908 | 2,116,946 | 499,282,000 | 231.7 | 4,648,299.54 |
| 1860 | 109,000 | 4,704,000 | 43.1 | 121,162.00 | 1909 | 2,165,616 | 480,905,000 | 222.6 | 6,032,008.48 |
| 1870 | 307,000 | 21,768,000 | 70.9 | 529,180.00 | 1910 | 2,211,286 | 518,575,000 | 234.2 | 6,448,257.48 |
| 1880 | 603,000 | 27,854,000 | 114.1 | 865,613.35 | 1911 | 2,262,956 | 507,332,000 | 224.3 | 6,909,771.32 |
| 1890 | 1,107,000 | 152,372,000 | 137.6 | 2,109,908.90 | 1912 | 2,316,316 | 591,224,000 | 256.1 | 6,365,284.14 |
| 1900 | 1,776,865 | 323,682,000 | 186.8 | 3,250,481.85 | 1913 | 2,375,000 | 577,860,575 | 248.6 | 6,550,042.21 |
| 1901 | 1,776,286 | 342,801,000 | 193.0 | 3,370,600.88 | 1914 | 2,398,335 | 613,323,016 | 261.2 | 6,468,614.88 |
| 1902 | 1,824,908 | 368,179,000 | 196.2 | 3,511,558.81 | 1915 | 2,441,934 | 638,802,000 | 249.0 | 6,592,985.07 |
| 1903 | 1,873,976 | 376,000,000 | 200.7 | 3,659,622.80 | 1916 | 2,471,941 | 647,493,000 | 246.0 | 6,182,008.33 |
| 1904 | 1,922,286 | 399,005,000 | 207.5 | 3,834,541.30 | 1917 | 2,621,119 | 667,000,000 | 251.0 | 7,497,437.23 |
| 1905 | 1,970,925 | 410,930,000 | 208.5 | 4,019,305.88 | 1918 | 2,701,212 | 714,451,000 | 261.4 | 7,215,008.52 |
| 1906 | 2,019,606 | 437,059,000 | 216.4 | 4,231,065.50 | 1919 | 2,762,303 | 760,115,000 | 286.0 | 4,762,424.47 |
| 1907 | 2,068,275 | 456,194,000 | 220.1 | 4,450,849.61 | | | | | |

In 1920 the total amount of water pumped was 282,965,710,000 gallons. The pumping stations, with the year of construction of each, follows:

| | | | | |
|--------------------------------|-------------------------------|------------------------------|------------------------------|--------------------------|
| Chicago Avenue..... 1854 | Lake View..... 1892 | Washington Heights..... 1892 | Central Park..... 1890 | Mayfair..... 1916 |
| Twenty-Second Street..... 1875 | Fourteenth Street..... 1892 | Jefferson Park..... 1897 | Springfield Avenue..... 1891 | W. H. Thompson..... 1917 |
| Harrison Street..... 1889 | Sixty-Eighth Street..... 1892 | Rogers Park..... 1899 | Roseland..... 1910 | |

Other statistics: Number of taps, 314,292; hydrants in use, 31,556; meters in use, 27,532; mileage of water pipe, 2,916; coal used in year, 202,254 tons.

Lake Tunnels—One 5-foot tunnel from two mile crib to Chicago avenue pumping station; built 1867; cost \$415,709.36.

One 7-foot tunnel from two mile crib to Chicago avenue pumping station; built 1887-1895; cost \$342,786.64.

One 14-foot tunnel lake extension of Chicago avenue and Blue Island avenue system; begun 1911; cost \$7,530.28.

One 8-foot tunnel from four mile crib to 14th street pumping station; built 1892; cost \$1,104,744.12.

One 10-foot tunnel from Carter H. Harrison crib to foot of Oak street; built 1898; cost \$677,577.55.

One 7-foot tunnel from Lake View crib to Lake View pumping station; built 1896; cost \$701,792.45.

One 7-foot tunnel from Hyde Park crib to 68th street pumping station; built 1898; cost \$771,556.07.

One 14-foot tunnel from Hyde Park to 73d street and Railroad avenue; built 1898; rebuilt 1912; cost \$1,320,769.50.

Land Tunnels—One 7-foot tunnel from Chicago avenue pumping station to 22d street pumping station; built 1874; cost \$542,912.63.

One 7-foot tunnel from East 11th place shaft to foot of Peck place and thence to

Harrison street pumping station; built 1891; cost \$279,848.78.

One 6-foot connecting tunnel in Jefferson street from Van Buren to Harrison; built 1891; cost \$15,968.17.

One 10-foot tunnel foot of Oak street to Green street and Grand avenue, and two 8-foot tunnels from that point to Central Park avenue and Springfield avenue pumping stations respectively; built 1900; cost \$2,121,525.02.

One 7-foot tunnel connecting above 10-foot tunnel with Chicago avenue pumping station (remodeled); built 1898; cost \$42,436.45.

Three 12-foot shafts, one 6 feet and two 5-foot tunnels at Chicago avenue station; built 1905; cost \$31,380.

CHICAGO WATERWORKS SYSTEM

avenue; built 1888, 1892 and 1908; cost \$63,044.44.

Marshall boulevard municipal plant; built 1919; cost \$2,600,737.32.

Water Rates in Chicago, Flat Rates Annual—All flat rates are based on frontage and number of stories of buildings. Residences with one family of twelve or less are entitled to a full equipment of bathtubs, water closets, basins, sinks, laundry tubs and other similar sanitary fixtures, without additional charge. Apartment buildings, fully equipped with sanitary fixtures, are charged \$7 in addition to the frontage rates for each apartment exceeding one.

ESTIMATED INCREASE IN FUTURE POPULATION OF CHICAGO
Classified by Source of Increase Fixed Birth Rate and Decreasing Death Rate

| Decade | Total Estimated Population at Close of Decade | Estimated Increase in Total Population | | Estimated Increase of Native Born | | | Estimated Increase in Foreign-Born Due to Immigration and Migration | |
|-----------|---|--|--------------------|-----------------------------------|-------------------------|-------------------|---|----------------|
| | | Total Increase | Per Cent. Increase | Total Increase | Due to Natural Increase | From Other States | From Other Parts of Ill. | Total Increase |
| 1920-1930 | 3,307,487 | 578,053 | 17.22 | 429,053 | 319,068 | 7 | 8 | 150,000 |
| 1930-1940 | 3,927,076 | 619,689 | 15.73 | 494,639 | 383,539 | 30,000 | 76,000 | 135,000 |
| 1940-1950 | 4,594,418 | 669,342 | 14.59 | 567,342 | 467,342 | 30,000 | 70,000 | 100,000 |

PROGRESS OF CHICAGO SINCE 1850

| Area | 1850 | 1900 | 1910 | 1920 |
|------------------------------|-------------|---------------|----------------|----------------|
| Population | 144,000 | 1,000,000 | 1,814,000 | 2,908,000 |
| Valuation | 2,250,349 | 1,678,579 | 2,185,283 | 3,775,705 |
| Tax Levy | 275,565.360 | 848,936.526 | 1,246,938.588 | 1,684,814.838 |
| Bonded debt | 28,371 | 18,384,105 | 29,486,938 | 94,708,240 |
| Receipts—Flour | 50,395 | 16,228,400 | 28,229,642 | 51,486,100 |
| Wheat | 85,641 | 5,233,541 | 8,006,283 | 10,850,000 |
| Corn | 1,687,265 | 48,048,298 | 27,540,100 | 28,297,000 |
| Total grain | 2,849,239 | 194,285,436 | 102,592,924 | 85,487,000 |
| Cattle | 6,928,469 | 349,687,235 | 224,858,724 | 189,423,000 |
| Shipments—Flour | 100,871 | 7,894,697 | 7,088,563 | 2,652,291 |
| Wheat | 85,641 | 6,649,356 | 6,092,000 | 6,092,000 |
| Corn | 282,018 | 111,099,653 | 18,975,100 | 36,064,000 |
| Total grain | 2,849,239 | 265,652,246 | 28,053,663 | 48,156,000 |
| Hogs packed | 1,830,068 | 7,119,441 | 21,401,080 | 120,322,000 |
| Imports, value | 30,000 | 16,441,240 | 5,161,658 | 7,374,260 |
| Exported, value | 30,000 | 10,441,995 | 28,281,331 | 66,179,233 |
| Clearances | ..... | 7,044,995 | 19,390,974 | 10,313,012 |
| Manufactures, value | ..... | 9,470,572 | 40,313,000 | 10,499,907 |
| Bank clearings | ..... | 1,263,313,000 | 2,885,740,000 | ..... |
| National revenue collections | ..... | 6,799,638,508 | 13,293,038,284 | 25,622,525,425 |
| National bank deposits | ..... | 13,301,410 | 11,652,667 | 441,033,785 |
| State bank deposits | ..... | 231,280,146 | 409,941,474 | 818,132,000 |
| Postal receipts | ..... | 168,238,128 | 430,468,405 | 1,089,382,988 |
| Water used per day | ..... | 7,003,704 | 18,602,454 | 25,622,525 |
| Pops | ..... | 322,590,630 | 617,117,000 | 760,115,000 |
| Revenue | ..... | 3,250,481 | 6,885,006 | 10,313,012 |
| Police | ..... | 2,800 | 4,800 | 4,762,424 |
| Schools | ..... | 7 | 230 | 5,152 |
| Tramcars | ..... | 2,821 | 6,588 | 285 |
| Pupils | ..... | 30 | 300,393 | 9,118 |

*One-third full value—*in 1909—*in 1919.

avenue; built 1888, 1892 and 1908; cost \$63,044.44.

Marshall boulevard municipal plant; built 1919; cost \$2,600,737.32.

Water Rates in Chicago, Flat Rates Annual—All flat rates are based on frontage and number of stories of buildings. Residences with one family of twelve or less are entitled to a full equipment of bathtubs, water closets, basins, sinks, laundry tubs and other similar sanitary fixtures, without additional charge. Apartment buildings, fully equipped with sanitary fixtures, are charged \$7 in addition to the frontage rates for each apartment exceeding one.

CHICAGO WATERWORKS SYSTEM

| *Population Using City Water | | | | | *Population Using City Water | | | | |
|------------------------------|------------|----------------|------------|---------------|------------------------------|------------|----------------|------------|---------------|
| Year | Population | Gallons Pumped | Gallons | Total Revenue | Year | Population | Gallons Pumped | Gallons | Total Revenue |
| | | Per Day | Per Capita | \$ | | | Per Day | Per Capita | \$ |
| 1854 | 65,000 | 581,000 | 9.1 | 68,105.00 | 1908 | 2,116,946 | 499,282,000 | 231.7 | 4,648,299.54 |
| 1860 | 109,000 | 4,704,000 | 43.1 | 121,162.00 | 1909 | 2,165,616 | 480,905,000 | 222.6 | 6,032,008.48 |
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| 1890 | 1,107,000 | 152,372,000 | 137.6 | 2,109,908.90 | 1912 | 2,316,316 | 591,224,000 | 256.1 | 6,365,284.14 |
| 1900 | 1,776,865 | 323,682,000 | 186.8 | 3,250,481.85 | 1913 | 2,375,000 | 577,860,575 | 248.6 | 6,550,042.21 |
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| 1902 | 1,824,908 | 368,179,000 | 196.2 | 3,511,558.81 | 1915 | 2,441,934 | 638,802,000 | 249.0 | 6,592,985.07 |
| 1903 | 1,873,976 | 376,000,000 | 200.7 | 3,659,622.80 | 1916 | 2,471,941 | 647,493,000 | 246.0 | 6,182,008.33 |
| 1904 | 1,922,286 | 399,005,000 | 207.5 | 3,834,541.30 | 1917 | 2,621,119 | 667,000,000 | 251.0 | 7,497,437.23 |
| 1905 | 1,970,925 | 410,930,000 | 208.5 | 4,019,305.88 | 1918 | 2,701,212 | 714,451,000 | 261.4 | 7,215,008.52 |
| 1906 | 2,019,606 | 437,059,000 | 216.4 | 4,231,065.50 | 1919 | 2,762,303 | 760,115,000 | 286.0 | 4,762,424.47 |
| 1907 | 2,068,275 | 456,194,000 | 220.1 | 4,450,849.61 | | | | | |

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|--------------------------------|-------------------------------|------------------------------|------------------------------|--------------------------|
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| Harrison Street..... 1889 | Sixty-Eighth Street..... 1892 | Rogers Park..... 1899 | Roseland..... 1910 | |

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One

WATERWORKS CRIBS—Water Pipe Tunnels Under Chicago River

| Dimensions in feet. | Length in feet. | Year built. | Cost. | Location. | Dimensions in feet. | Length in feet. | Year built. | Cost. | Location. |
|---|-----------------|-------------|-------------|----------------|--------------------------------------|-----------------|-------------|---------------|-----------|
| 5 | 280 | 1871 | \$ 7,550.00 | Adams st | 5 | 1895 | \$28,614.88 | N. Western av | |
| 5 | 240 | 1871 | 7,622.00 | Archer av | 5 | 1895 | 12,200.00 | Rush st | |
| 7 1/2 x 10 1/2 | 225 | 1891 | 17,453.56 | Ashland av | 7 1/2 | 1890 | 17,400.00 | 35th st | |
| 5 | 306 | 1871 | 7,750.00 | Chicago av | 5 | 1876 | 28,584.54 | Ashland av | |
| 5 | 227 | 1880 | 6,875.00 | Clybourn pl | 5 | 1897 | 21,007.48 | Diversey bl | |
| 7 1/2 | 468 | 1908 | 16,324.00 | Division st | 7 1/2 | 1880 | 24,831.50 | Grand av | |
| 8 | 330 | 1871 | 11,250.00 | Division st | 8 | 1907 | 15,073.36 | Western av | |
| 6 1/2 x 9 | 374 | 1880 | 14,600.00 | 18th st | 6 1/2 | 1908 | 11,952.36 | Western av | |
| 5 | 272 | 1889 | 16,300.00 | Harrison st | 5 | 1908 | 16,013.00 | Western av | |
| 6 x 7 | 1,548 | 1899 | 36,561.75 | Drainage Canal | 6 x 7 | 1908 | 18,827.27 | Western av | |
| Name—Two-mile .. Built 1867 Cost \$206,470.83 | | | | | Lake View .. 1896 .. 171,359.88 | | | | |
| Four-mile .. 1891 Cost 472,890.93 | | | | | Hyde Park .. 1896 .. 197,624.77 | | | | |
| | | | | | C. H. Harrison .. 1900 .. 332,755.28 | | | | |
| | | | | | Edw F. Dunne .. 1912 .. 473,080.65 | | | | |

WATER RATES IN CHICAGO

| Frontage | Rate | Frontage | Rate | Frontage | Rate | Frontage | Rate |
|------------------|--------|---------------|--------|---------------|--------|---------------|---------|
| 12 feet and less | \$2.50 | 21 to 24 feet | \$6.00 | 32 to 36 feet | \$9.50 | 48 to 52 feet | \$13.50 |
| 15 to 18 feet | 3.50 | 24 to 27 feet | 7.00 | 36 to 40 feet | 11.00 | 52 to 56 feet | 14.50 |
| 18 to 21 feet | 4.50 | 27 to 30 feet | 8.00 | 40 to 44 feet | 12.50 | 56 to 60 feet | 16.00 |
| 21 to 24 feet | 5.50 | 30 to 32 feet | 9.00 | 44 to 48 feet | 13.50 | 60 to 67 feet | 16.00 |

through direct connection with city tunnels, from conduits and from Lake Michigan or the Chicago river.

The Sanitary District of Chicago
Chronology—First investigation made in 1855. Sanitary bill signed May 29, 1889. Sanitary district organized Jan. 18, 1890. Earth broken ("shovel day") Sept. 3, 1892. Lake water turned into canal Jan. 2, 1900. Formal opening of canal Jan. 17, 1900.

Dimensions of Canals—Length of main and power channel, 39.16 miles. Length of river, lake to Robey street, 6 miles. Length of river diversion channel, 13 miles. Width main channel, Robey street to Summit; bottom 160 feet, top 198. Width main channel, Summit to Willow Springs; bottom 202 feet, top 225. Width main channel, Willow Springs to Lockport (brook section); bottom 160, top 162. Width river diversion channel; bottom 200 feet. Minimum depth of water in main channel, 2.2 feet. Current in earth sections, 1 1/4 miles per hour. Current in rock sections, 1.9 miles per hour. Present capacity of canal, 600,000 cubic feet per minute. Total amount of excavation, 44,005,647 cubic yards. The north shore channel, extending from Lawrence avenue to Lake Michigan in the village of Wilmette, is about 8 miles long with a water depth of 13.6 feet. The construction of the Calumet-Sag canal to take care of the Calumet region sewage was begun in the summer of 1911. When completed it will be 16 miles long. Its estimated cost is \$14,000,000.

Revenues and Expenditures From Organization to Dec. 31, 1920

| REVENUES. | |
|---|------------------|
| Taxation | \$89,270,074.27 |
| Bonds outstanding | 12,817,000.00 |
| Interest on loans | 496,086.56 |
| Interest on bank balances | 644,475.74 |
| Interest on deferred payments | 342,009.79 |
| Land revenue | 1,057,015.27 |
| Water service | 140,312.68 |
| From Electrical Department: | |
| Replacement funds | 1,532,504.23 |
| Interest on investment | 1,878,884.31 |
| Interest on loans | 6,077.33 |
| Interest during construction | 282,201.49 |
| Profits transferred | 702,260.00 |
| Earnings invested in plants | 1,269,982.88 |
| Miscellaneous | 19,178.18 |
| Total | \$111,484,154.47 |
| EXPENDITURES. | |
| Electrical Department: | \$18,180,426.56 |
| Working capital | 313,610.78 |
| Capital investment | 4,488,012.18 |
| Interest on replacement funds | 276,688.62 |
| Right-of-way, construction, operating, etc. | 75,694,031.90 |
| Administration and general | 8,068,915.45 |
| Emergency funds | 60,000.00 |

Salaries of Officials and Employees, Yearly Unless Otherwise Specified

| BOARD OF TRUSTEES. | |
|------------------------------|------------------|
| President | \$7,500 |
| Trustees, eight at | 5,000 |
| Secretary to President | 3,500 |
| ENGINEERING DEPARTMENT. | |
| Chief Engineer | 12,000 |
| Secretary | 2,100 |
| Auditor | 2,500 |
| Assistant Auditor | 3,240 |
| Senior Assistant Engineer | 2,700 |
| Junior Assistant Engineer | 2,100 |
| Engineering Clerk | 2,000 |
| Assistant Chemist | 2,580 |
| Chief Chemist | \$1,000 to 7,000 |
| Assistant Chemist | 1,410 |
| Chief Structural Engineer | \$1,710 to 2,680 |
| Mechanical Engineer | 4,580 |
| Maintenance Engineer | 5,150 |
| ILLINOIS AND MICHIGAN CANAL. | |
| Illinois Valley Engineer | \$8,600 |
| Senior Assistants, two at | 3,400 |
| DEPARTMENT OF LAW. | |
| Attorney | \$12,000 |
| First Assistant Attorney | 7,000 |
| Illinois Valley Attorney | 4,000 |
| Assistant Attorney | 5,500 |
| Assistant Attorneys | \$3,500 to 5,000 |
| CLERK OF THE DISTRICT. | |
| Clerk of the Board | \$5,800 |
| Committee Clerk | 3,000 |
| Clerks | \$1,650 to 2,000 |
| TREASURY DEPARTMENT. | |
| Treasurer | \$2,500 |
| REAL ESTATE DEPARTMENT. | |
| Manager | \$3,600 |
| POLICE DEPARTMENT. | |
| Marshal | \$3,600 |
| Sergeants, three at | 1,500 |
| Patrolmen, thirty at | 1,800 |
| DEPARTMENT OF ELECTRICITY. | |
| Electrical Engineer | \$6,000 |
| Assistant Engineers | \$3,000 to 4,000 |

Chicago Drainage Canal Is Factor in Health of Chicago

The Chicago Drainage Canal is one of the wonders of Chicago. It is a river that runs up hill, a river that turned around and begins where it used to end and ends where it once began. It is a man-built river.

The canal is a cut which men made in the earth from which enough ground and rock was taken to build 25 pyramids all as big as the pyramid of Cheops. And this canal was constructed to bring health and happiness to millions of people.

It has been the key to the door of Chicago's health. Up to twenty years ago the Chicago river drained Chicago and the country around into Lake Michigan. The Desplaines river, a few miles west of Chicago, emptied into the Illinois and the Illinois into the Mississippi. Between the two was high land which divided the flow

of water, that on the east going into the lake and finally down the St. Lawrence to the Atlantic and that on the west into the Illinois and Mississippi into the Gulf of Mexico.

Purity of Water Imperilled—At that time all the sewage of Chicago ran into the river and then into the lake. The city got all its drinking water out of the lake from the big water intakes called cribs. These cribs are only a few miles from the shore and so the sewage got into the drinking water and there was a great deal of typhoid, so much so that in some years as many as one hundred and twenty-four peoples out of every one hundred thousand living in Chicago died from typhoid fever.

The people of Chicago resolved that no more sewage must be emptied into the lake so they organized the Sanitary District of Chicago and told the trustees of that district to defy nature and make the Chicago river run uphill and to build a great canal through which it could flow into the Illinois river.

But while taking care of the health of Chicago the people of the city did not wish to imperil the health of those who live on the river, although the people of the river cities do not drink water from the river but take their drinking supplies from wells. So it was arranged to let in 4,000,000 gallons of fresh water from the lake every minute into the river. This great supply would mix with the sewage and dilute it and sweep it along at a fast pace, turning it over and over so that it would be constantly exposed to the oxygen of the air which would combine with it chemically and make it purer so that by the time it had raced the length of the river and the thirty-one miles of canal it would not be harmful to the people of the valley. In addition to this dilution plan three great activated sludge plants are being built today in Chicago to take all solid matter out of the sewage and purify it still more before it reaches the Chicago river or the canal.

The River That Was Bait By Man—The Sanitary Canal is the River that was Built by Man. A river thirty-one miles long and twenty-six feet deep! It cost over seventy millions of dollars, counting the money that was spent on the many bridges that cross it, the digging of the main channel and its two auxiliary

channels; the North Shore from Wilmette to the north branch of the Chicago river; and the Calumet-Sag from Blue Island; and the great works that control the flow of the water. It was begun in 1892 and completed in 1900 and the water turned in.

Since then the amount of typhoid in Chicago has dropped so low that no city in the country can equal this city's health record. There is now only about one death of typhoid to one hundred thousand of population a year in Chicago. The city is the healthiest in the world.

Chicago—The Healthiest City—City Achieves Good Health Goal

It long has been conceded that Chicago is one of the healthiest cities on the American continent in which to live. In fact, there is no other large American city where a man stands a better chance to live out his allotted three score years and ten, provided, of course, he behaves himself, than in this big wind-swept city by the lake.

Over a period of years Chicago has shown a record of progress toward the good health goal brought about by adequate legislation. Chicago's water supply, the handling of milk, sewerage and other factors in the health of this big city have been supervised and with such a degree of efficiency that Chicago's health records is an enviable one.

Dr. Herman N. Bundeson, former commissioner of health, tells of Chicago's commendable health conditions today in the following manner: "The years 1921 and 1922 were years of falling death rates in all of the large cities throughout the country. And Chicago was no exception to this rule. As a matter of fact, the death rate for both the years named was the lowest in its history."

"It long has been conceded that the spread of health information is an important factor in efficient public health work. In other words, it safely can be asserted that a department of health attains its highest efficiency when it is seeking to serve a people who are themselves informed as to the importance and value of public health work. And an important phase in public health education is distribution or dissemination of health information. The average health department is pretty well equipped to produce health information; but it is also true that the average health department is poorly equipped for the distribution of this sort of information."

Newspapers Help—The newspapers of Chicago, including not only the big dailies but the neighborhood weeklies and monthlies, for years have been valuable aids in conveying health knowledge to the masses. The Department of Health has always sought by every means at its command to spread health knowledge and as it has been successful in getting this sort of information across, as the saying goes, to just that extent have the results been noticeable.

"One does not need to be an optimist to know that the conditions that make for increased freedom from disease and better living conditions in Chicago are improving all the time. There are many agencies that are contributing to bring about such desirable results. The newspapers already have been mentioned; then there are the scores of civic and social organizations, not

forgetting the churches, every one of which finds a place and time somewhere in its activities to devote to consideration of public health matters. The people of Chicago are growing more and more enlightened all the time as to the things that they may do that will help to make Chicago a safer city in which to live. The newspaper editors are coming more and more to recognize the value of the legitimate health story and to give it due space and consideration in their columns. As a matter of fact, the average citizen is hungry for health information, he only needs to be shown, and he is glad and willing to co-operate with his health officials in the things that make for public health and safety.

would have been had the death rate remained the same as the average death rate for the years 1913-14-15 and 16, when it averaged 14.50 per 1,000 of population. Also in this connection it would seem pertinent again to call attention to the dollars and cents value of efficient public health service. Sickness and funerals cost money and the saving in these means a tremendous saving in money.

"Typhoid fever, long known as the king of filth diseases, is a preventable disease. It is a disease that can be controlled by efficient sanitary administration. For six consecutive years Chicago has had the lowest typhoid death rate of any city of its size in the country and this can only mean that the recognized measures for the control of this dreaded disease have been



1—Harvest festival at Pulaski Park. 2—Minuteman, Eckhart Park. 3—Children's wading pool at Dvorak Park.

Low Death Rate—As already has been stated the city's death rate for the year 1921 was 11.08, the lowest in its history and the lowest of any city of this class in the United States with but one exception. The death rate for 1922 was practically the same, being only a fraction of a point higher. This material reduction in the mortality rates of the city for the years named means that there were probably 20,000 fewer funerals held in Chicago during 1921 and 1922 than there

most efficiently and thoroughly carried out.

"Here are some other figures that are worth knowing. In 1915 there were 12 deaths a day from tuberculosis in Chicago. In 1921-22 there were six deaths a day from this disease.

"From 1910 to 1914 the average yearly deaths due to scarlet fever were 525. From 1915 to 1921 inclusive, the average has been 200 deaths a year from this disease, which with a normal increase in popula-

tion means an approximate reduction of 75 per cent.

Watching Health of School Children—But it is not alone in the prevention of sickness and the reduction of death rates from preventable diseases that the Department of Health is doing things that mean much in conserving the health of the people. Let us turn for a moment to another and not less important activity. The city of Chicago has approximately 500,000 school children between the ages of 6 and 19 years; these ages covering the period of the primary age and the age when most children graduate from high school. The Department is charged with the important work of at least attempting to look after the health of this vast army of children. It is a tremendously big and important undertaking. The Department now has for carrying on this work about 120 school health officers and 115 field nurses, the latter comprising an average working force of about 90. These school health officers in 1921 examined nearly 50,000 children of which 35,496 were found with physical defects requiring correction.

The school nurses made 56,467 visits to public schools and practically three times that number of home calls during the year in connection with the work of the school doctors and in follow-up work. It is gratifying to be able to state that due to the intelligent conscientious and persistent field work of the school health officers and the school nurses the percentage of corrections secured is increasing each year. For example, where five years ago the corrections secured would not average over 30 per cent, for 1921-22 the corrections ran in the neighborhood of 70 per cent. These figures indicate the value of health information and the co-operation that can be secured when parents are informed on health subjects.

Also when it is assumed that these so-called minor physical defects found in school children constitute in many cases a serious handicap in the child's school work and also in no small degree its general physical health and well-being, the value of this service can be better understood and appreciated.

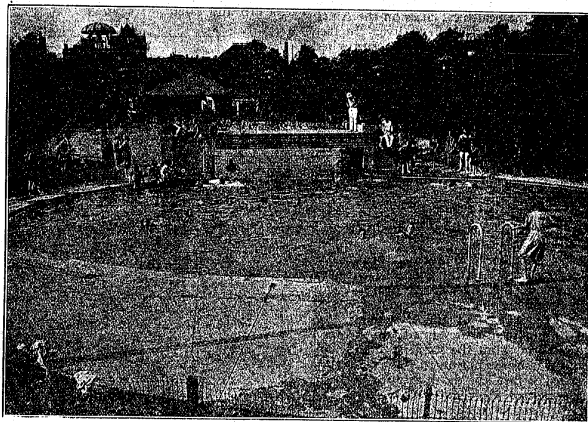
When the low death rate of 11.08 was announced for 1921, the opinion was expressed by some of the city's well known health experts that Chicago in all probability had reached the irreducible minimum. The writer is not inclined to accept this without question. He believes that a still lower death rate is attainable and even if this be not true, the only way to maintain the rate as it now stands would be by the most energetic striving to reduce it.

The foregoing observations as to the prevailing health conditions in Chicago would seem to indicate in no uncertain way some of the reasons why Chicago is 'the healthiest big city,' but there are some other important factors which have contributed to maintaining the generally gratifying health conditions which have and still prevail in Chicago. These are the pasteurization of the milk supply and chlorination of the water supply.

Chicago's Drinking Water Supply—Chicago has a great natural drinking water supply at its front door. By carrying out chlorination strictly the content

of colon bacilli in the drinking water has been reduced to an almost negligible per centage. Chicago is now giving her citizens a nearly perfect water supply. The care and attention necessary to maintain it in such condition is one of the great concerns of the Department of Health.

Clean Milk—The battle for a clean milk supply in Chicago received its first great impetus in 1908 with the passage of the Evans pasteurization ordinance by the City Council. Since that time the record has been one of progress. By 1915 sixty-five per cent of the milk was properly pasteurized. Since 1916 all of the milk supply of Chicago has been pasteurized.



One of Chicago's Park swimming pools. This one is located in Eckhart Park. Every facility is afforded for comfort and convenience, and ample guard protection is always present.

with the exception of about one per cent, which is certified milk produced under the direction of the Milk Commission of the Chicago Medical Society.

Since Chicago has had a practically perfect chlorination of its water and a complete pasteurization of its milk there has been no milk or food borne epidemic of any kind.

Inspection of restaurants, the operation of the food-covering ordinance which was passed in 1915, the gradual education of the general public as to the necessity for clean foods; the abolition of the roller towel and common drinking cup; the campaign of the sanitary bureau against defective plumbing; the removal of manure boxes from the alleys, which eliminates the great breeding place for flies; the energetic campaign against the typhoid carrier; the most rigid enforcement of typhoid quarantine; the anti-typhoid vaccination of all attendants upon the typhoid sick have without doubt contributed toward giving Chicago the lowest typhoid death rate of any large city in the United States. However, no doubt the chlorination of the water and the pasteurization of the milk supply have been the two great factors which have brought about this result.

Reducing Typhoid Fever—For four years Chicago has held the banner for the lowest death rate from typhoid fever of any large city in the United States. This

is a record of which the city has a right to be proud. Moreover, the race is not close. The nearest competitor of Chicago is far in the rear, and the others are nowhere as the following table will show:

| City | Population (U. S. Census 1920) | Deaths | Rate per 100,000 |
|---------------|--------------------------------|--------|------------------|
| New York | 5,885,548 | 137 | 2.41 |
| Chicago | 2,725,022 | 30 | 1.10 |
| Philadelphia | 1,877,270 | 60 | 3.26 |
| Detroit | 1,013,322 | 92 | 9.10 |
| Cleveland | 808,268 | 28 | 3.21 |
| St. Louis | 777,690 | 24 | 3.07 |
| Boston | 751,198 | 11 | 1.48 |
| Baltimore | 740,172 | 35 | 4.73 |
| Pittsburgh | 530,876 | 21 | 3.95 |
| Los Angeles | 587,073 | 16 | 2.71 |
| San Francisco | 516,122 | 16 | 3.11 |
| Buffalo | 510,106 | 25 | 5.00 |

Boston has one-third more typhoid than Chicago; New York and Los Angeles more than twice as much; Pittsburgh almost five times as much. Cleveland, Detroit and Buffalo have the same access as Chicago to a supply of clear, cold lake water. Yet Cleveland's typhoid death rate is three times that of ours, and the other cities have a rate almost five times as high.

The two greatest natural forces in the maintenance of Chicago's health standard are Lake Michigan and Chicago's parks and forest preserves. They were in existence when Marquette and Joliet lived on the banks of the Chicago river during the winter of 1672, the lake much as it is now and the parks and forest preserves held in escrow against the day of their need and health-giving usefulness. Notwithstanding their existence, they in themselves were not sufficient to safeguard the young city from the evils that attend every strenuous civic growth. From its earliest days, Chicago's citizens were forced to consider health protection by the ravages of the pestilential diseases such as cholera, scarlet fever and smallpox.

The First Sanitary Ordinance—Tradition tells us that a dog was the cause of the passage of the first sanitary ordinance in Chicago, even as a cow is credited with having started a much-needed drastic house-cleaning thirty-nine years later.

O'Leary's cow and the Chicago fire are locked horn to horn in our civic traditions. As to the dog, the story is that one of the leading residents of Chicago in 1833, was offended by the drifting carcass of a neighbor's dog lodging against his private fishing pier. With this neighbor he was on bad terms and as a result of the dog's untimely and offensive stop, on Nov. 7, 1833, the town trustees were induced to pass the first sanitary regulation declaring it unlawful to throw or put into the Chicago river within the limits of the town, any corpse of any dead animals under the penalty of \$3 for each offense.

From so small a beginning originated our present splendid and efficient Health Department activities. In 1834 the first Chicago sanitarians took further courage and prohibited the throwing of straw and shavings, putrid meat, fish or decayed vegetables into the river and also the depositing of these on lots, streets or alleys. The Board of Health then used the store of Hubbard and Company as its meeting place, the same Hubbard who blazed the trail with packhorses to Danville and Vincennes, Hubbard's Trail, later becoming our present Archer avenue. In that year they appointed a street commissioner to remove city refuse beyond the city limits.

The First "Sanitary Police"—The first sanitary police were elected, called Committees on Vigilance, with jurisdiction over the north, west and south sides and woe be to the householder who did not keep his house and premises in order. The judge fined him \$5. They do not seem to have invented "costs" in those days. "Costs" was the very great grandparent of income tax, personal property tax and all the other "costs" which stir us to activity beyond measure today.

Then we took another step in sanitation—cemetaries on the north and south sides were laid out, each ten acres in extent. Chicago avenue was the site on the north side and Twenty-third street and Wabash avenue on the south.

Chicago next sensed the importance of the distribution of the pure waters of Lake Michigan and in 1836 The Chicago Hydraulic Company was incorporated to secure a good water supply and fire protection. Great financial depression delayed the organization for several years and while the city grew, sanitary effort was checked.

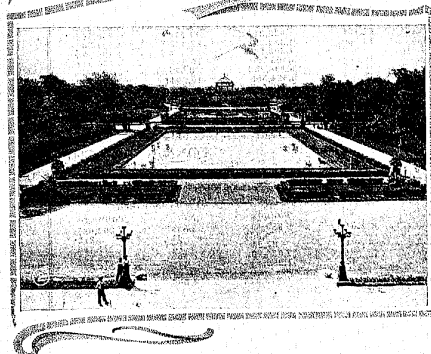
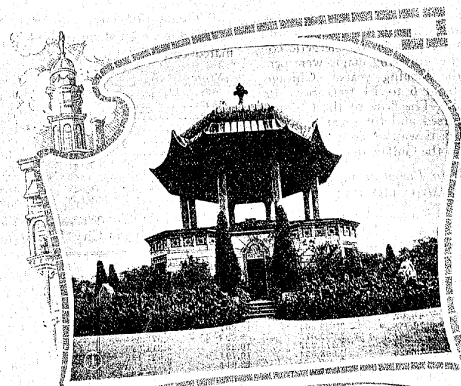
Cholera was a serious menace and in 1838, laborers working on the Illinois and Michigan Canal were stricken with "canal cholera" and sent to Chicago. Those who died on the way were thrown on the roads, and their bodies remained unburied for weeks, so great was the fear of the dread disease.

It is interesting to note here a disadvantage our early citizens labored under owing to the low ground of the young city. In 1865, it was reported to the mayor that coffins were laid bare by the blowing away of their covering of sand.

Sewer System Planned—Then the garbage regulations were issued and in 1847 a city sewer system was planned. Raging smallpox in 1848 called for doctors' services without pay and the names of these volunteers were distributed in hand-bills in English and German.

The arrival of the "John Drew" from New Orleans in 1869, via the Mississippi and Illinois-Michigan Canal, laden with cholera-stricken immigrants, was the cause of great alarm. Our Board of Health distributed hundreds of barrels of lime in the streets and alleys and a man coming home at night without lime on his shoes was looked upon with suspicion, as having trodden dangerous areas.

Fighting Disease in the Sixties—Hard times came again and in a frenzy of false economy the Board of Health was practically abolished for three years and its duties delegated to the Police Department. Chicago paid the bill for this stupidity and neglect in full. In the years of 1862 and 1864 smallpox increased, the city's gutters and streets were filthy and erysipelas, typhoid, dysentery and pneumonia held



1.—Band stand at Garfield Park made of concrete, held weekly during summer. 2.—South view of Hy. ponds, Garfield Park.

Cholera claimed one out of every thirty-six of the city's population. There were no serums in those days.

Chicago struggled on to new health achievement, obeying as best it could the various medical rulings. In 1856, the battle between the allopaths and the homeopaths was on and a medical board for each had to be provided, each holding sway in different parts of Chicago's \$30,000 hospital which, by the way, was heated by steam. The yearly report says: "Patients who have no preference for a particular system will go one week to the allopathic department and the other week to the homeopathic department." If variety is the spice of life, the patients must have enjoyed themselves.

undisputed sway in many districts. The Chicago river became a cesspool and attempts were made to purify it by flushing it with water from the Calumet. In 1866 the hastily resurrected Board of Health was in constant session. The cemetaries were overloaded with dead bodies, it being estimated that 18,000 to 20,000 bodies were undergoing decomposition at one time! The available depth for burial was only three or four feet and the newly dead were practically being covered by the remains of those who died sixteen years before.

Then Chicago worked unceasingly night and day to stave off impending destruction. In 1868, disinfectants were sold at cost, the records showing the pur-

chase of 29,596 barrels of copperas and 785 barrels of lime. Immigrants were watched closely, all trains were examined and E. S. Chesborough, city engineer, solved Chicago's sewerage problem. On October 8, 1871, it was decreed that the last blotches of the old regime were to be removed, and the Great Chicago Fire blotted out the otherwise irretrievable evils of the downtown district.

Level of the City is Raised—The lesson of sanitation was learned most thoroughly and Chicago has never forgotten it. Seeming miracles of energetic co-operation and engineering magic were performed in the ensuing years. Chicago raised itself from 6 to 14 feet above its previous level. The flow of the Chicago river was reversed, and the great Sanitary Canal threaded its way as pioneer from the Great Lakes to the Gulf waterway.

Largest Grain Elevators in Chicago—In 1920 there were sixty-four grain ele-

Table with columns: Name, Bu. Capacity, No., Name, Elected, Died. Lists various names and dates from 1840 to 1920.

Chicago Building Statistics—Number of buildings erected since 1894, with estimated cost:

Table with columns: Year, Buildings, Cost. Shows data from 1898 to 1920.

CHICAGO'S LAKE TRADE—Arrivals and Clearances of Vessels. These figures comprise Chicago, Michigan City, Waukegan, Gary and Indiana Harbor.

Large table with columns: Year, No., Arrivals, Tons, Clearances, Tons. Contains data from 1870 to 1920.

TONNAGE OF CHICAGO DISTRICT, 1920. A quick glance at the freight handled at the different ports in the Chicago area:

Table with columns: Port, No., Arrivals, Tonnage, Clearances, Tonnage. Lists arrivals and clearances for various ports.

RECEIPTS BY LAKE IN 1920

Table with columns: Coal, hard tons, Coal, soft, tons, Salt, tons, Iron, ore, tons, Iron, manufactured, tons, Lumber, M. C. ft., Railroad ties, pieces. Lists various receipts.

SHIPMENTS BY LAKE IN 1920

Table with columns: Flour, tons, Wheat, bushels, Corn, bushels, Oats, bushels, Rye, bushels, Barley, bushels, Maltstuffs, tons, Iron, manufactured, tons, Merchandise, -hd, tons. Lists various shipments.

vators in Chicago, having a total capacity of 56,265,000 bushels. Following is a list of those having a capacity of 1,000,000 bushels or more:

Table with columns: Name, Bu. Capacity. Lists various grain elevators and their capacities.

Former Mayors of Chicago—Their politics and order and year of election:

Table with columns: No., Name, Elected, Died. Lists former mayors and their terms.

1853—Frank Parmelee Transfer Co., 111 W. Adams street. D. F. Bisk & Co., wholesale millinery, 225 N. Wabash avenue.

1854—Cook & McLain, dyers, 154 N. Dearborn street. E. W. Blatchford & Co., lead pipe and metals, 230 N. Clinton street. Albert Dickinson Co., seeds, 2750 W. 35th street. C. H. Jordan & Co., undertakers, 164 N. Michigan avenue.

OLD CHICAGO BUSINESS HOUSES

Following is a list of firms which have been in business in Chicago for fifty years or more. The present name of each firm is given first and then the name or names it may have borne in the past with the approximate year of the change of title when known:

- 1835—H. O. Stone & Co., real estate, 111 West Washington street.
1836—Ogden, Sheldon & Co., real estate, Clark and Lake streets.
1837—S. D. Childs & Co., engravers and printers, 136 South Clark street.
1838—Burley & Co., china and glassware, 7 North Wabash avenue; Burley & Tyrell Co., 1846.
1840—George B. Carpenter & Co., awnings, 430 North Wells street; George A. Robb, 1840; Payson & Robb, 1845; Hubbard & Robb, 1850; Gilbert Hubbard & Co., 1857; George B. Carpenter & Co., 1881.
1842—Brantigan & Keen, 1842; Keen Bros., 1847; Keen & Lee, 1853; W. B. Keen & Co., 1863; F. C. DeLang & Co., 1873; Keen & DeLang Co., 1884; DeLang, Coles & Co., 1906.
1844—A. C. McClurg & Co., booksellers, 218-224 South Wabash avenue; W. W. Barlow & Co., 1844; Griggs, Brown & Co., 1848; James McClurg & Co., 1872; A. C. McClurg & Co., 1886.
1846—Fergus Printing Co., 64 E. Lake street; Ellis & Fergus, Peter Schuttler Co., wagon makers, 22d and Rockwell streets.
1847—John V. Farwell Company, dry goods, Market and Monroe streets.
1848—Brunswick-Balke-Collerend Co. The, billiard tables, 633 South Wabash avenue.
1850—Mears-Slayton Lumber Co., 1237 Belmont avenue; C. H. Mears & Bro., 1850; N. & C. H. Mears, 1881; Chas. H. Mears, 1889; Chas. H. Mears & Co., 1892.
1851—Aetna Life Agency, insurance, Tribune building.
1853—Edson, Keith & Co., wholesale millinery, 24 S. Michigan avenue; Keith & Faxon, 1858; Keith, Faxon & Co., 1860; Keith Bros., 1865; Edson Keith & Co., 1884.

- H. & A. Rietz Lumber Co., 1802 N. Central Park avenue; Chas. Rietz & Co., 1858; The Charles Rietz Bros. Lumber Co., 1876.
Windsor Clifton Hotel, Monroe street and Wabash avenue; Clifton House, 1858.
- 1859—Henry N. Birren, undertaker, 213 W. Division street.
James S. Kirk & Co., soap manufacturers, 320 E. North Water street.
A. Plamondon Manufacturing Co., machinery, 12-24 N. Clinton street.
Jacob Press Sons, wagons, 300 N. Halsted street; Kuhl & Press, 1859; Jacob Press, 1869.
Rogerson & Son, undertakers, 1502 W. Madison street.
- 1860—Armour Elevator Co., grain elevator, 1220, 208 S. LaSalle street; Armour Dole and Company.
Gale & Blocki, druggists, 15 E. Monroe street.
Rumsey & Co., commission merchants, 141 W. Jackson boulevard; Finley, Hoyt & Co., 1860; J. P. & J. W. Rumsey, 1865; Rumsey, Williams & Co., 1873; Rumsey & Walker, 1877; Rumsey & Bull, 1881; Rumsey & Lightner, 1892; Rumsey & Co., 1903.
- 1861—The Franklin Co., engraving and electrotyping, 720-734 S. Dearborn street; A. Zeese & Co., 1861; A. Zeese Co., 1882; Franklin Engraving & Electrotyping Co., 1894.
Rathbone, Sard & Co., stoves, 1414 S. Wabash avenue.
Western News Company, 25 E. Austin avenue; John R. Walsh.
- 1862—Bigelow Bros. & Walker, lumber, 309, 5 N. LaSalle street; Bigelow Bros., 1862.
Foreman Bros. Banking Co., LaSalle and Washington streets.
W. D. Kerfoot & Co., real estate, 58-60 W. Washington street.
Spalding Lumber Co., 208 S. LaSalle street.
Allen B. Wisley Co., soap and perfume manufacturers, 923 S. Wells street; Wisley Bros., 1862; Allen B. Wisley Co., 1874.
- 1863—First National Bank, Dearborn and Monroe streets.
The Bohner Manufacturing Co., glassware, 1009 S. Wabash avenue; N. F. Merrill, 1863; Eaton, Maquire & Co.; Eaton & Brown; Brown & Bohner, 1871; George Bohner & Co., 1875.
B. Kuppenheimer & Co., wholesale clothing, 415 S. Franklin street; Kohn, Clayborough & Einstein, 1863; B. Kuppenheimer & Co., 1876.
- 1864—Belding Bros. & Co., silks, 201-203 W. Monroe street.
R. R. Donnelley & Sons Co., printers, 731 Plymouth Court; Church, Goodman & Donnelley, 1864; R. R. Donnelley & Sons Co., 1879.
The N. K. Fairbank Co., cooking fats, soaps, etc., 111 W. Washington street; Fairbank, Peck & Co., 1864; N. K. Fairbank & Co., 1874.
Lyon & Healy, musical instruments, Wabash avenue and Jackson boulevard.
Western Bank Note and Engraving Co., 118 E. 20th street.
Union Stock Yard and Transit Co., Halsted and Root streets.
- 1865—Chicago Clearing House Association, 50 S. LaSalle street.
Chicago Stock Exchange, 209 S. LaSalle street.
S. F. Wilson & Co., 21-23 E. Jackson boulevard; men's wear.
Peabody, Houghteling & Co., bonds, etc., 10 S. LaSalle street.
- 1866—Chicago Lumber and Coal Co., 11 S. LaSalle street.
Chicago Varnish Company, 2100 Elston avenue.
Tarrant Foundry Co., 363 W. Grand avenue.
Foley Billiard Hall, 425 S. Wabash avenue.
Manz Engraving Co., 4001 Ravenswood avenue; Maas & Manz, 1866; J. Manz, 1870; J. Manz & Co., 1881.
Union Bag and Paper Co., 3737 S. Ashland avenue; Wheeler & Hinman, 1866; Wheeler, Fisher & Co., 1871; Union Bag and Paper Co., 1875.
- 1867—Carson, Pirie, Scott & Co., dry goods, State and Madison streets; Carson, Pirie & Co., 1867.
George F. Cram, map publisher, 111 N. Market street.
Edward Kirchberg, jeweler, 104 N. State street.
John F. Higgins, printer, 176 Monroe street.
John M. Smyth Co., furniture, 701 W. Madison street.

- Sauer & Letang, shoemaker, 77 E. Monroe street; D. Sauer Co., 1867.
1868—A. T. Willett Teaming Co., 75 E. South Water street.
Critchell, Miller, Whitney & Barbour, insurance, Insurance Exchange building.
Isaac W. Nichols, jewelry, 7 W. Madison street.
Munger Laundry Co., 2412 Indiana avenue.
Philip Henrici Co., restaurant, 71 W. Randolph street.
The Hibernian Banking Association, 208 S. LaSalle street.
- 1869—L. Klein, dry goods, etc., Halsted, 14th and Liberty streets.
James Edmansson Catering Co. Inc.; Edward Homburg, successor, 3048 W. Madison street.
Nordahl & Olsen, jewelers, 2735 W. North avenue.

MONUMENTS IN CHICAGO AND VICINITY

Following is a list of the monuments giving name, location and date of dedication or completion of each:

Alarm, The—Lincoln Park; May 17, 1884.
Altgeld—Lincoln Park; Sept. 6, 1915.
American Expeditionary Force Tablet—Northwest corner of Federal building; Oct. 19, 1919.
Anarchists—Waldheim Cemetery; June 25, 1893.
Andersen, Hans Christian—Lincoln Park; Sept. 26, 1896.
Armstrong, George B.—Post Office, north entrance; May 19, 1881.



1—Centennial monument at Logan Square. 2—Burns' monument at Garfield Park. 3—Police statue dedicated to policemen who lost their lives in Haymarket riot, formerly situated at Haymarket Square, now at Union Park. 4—Havlicek monument at Douglas Park, erected by Bohemian-Americans of Chicago.

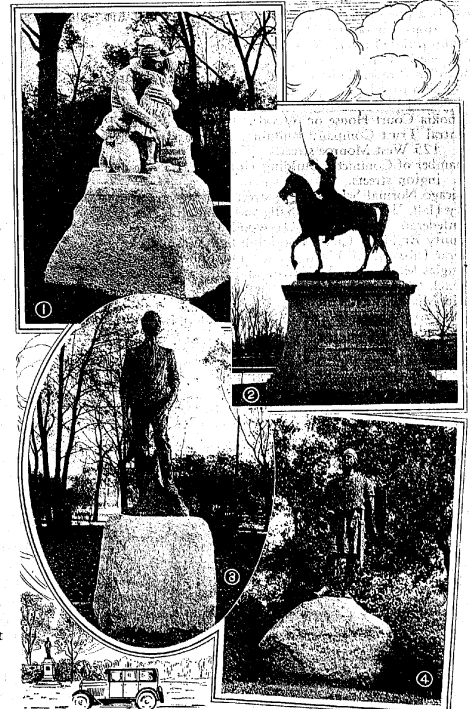
- Beethoven—Lincoln Park; June 19, 1897.
Black, Dr. Green Vardaman—South end of Lincoln Park; Aug. 8, 1918.
Bohemian Soldiers and Sailors—Bohemian National Cemetery; May 29, 1892.
Burns, Robert—Garfield Park; Aug. 25, 1906.
Columbia Post No. 706, G. A. R.—Forest Home Cemetery; June 8, 1913.
Confederate Soldiers—Oakwoods Cemetery; July 23, 1893.
Douglas—Foot of 35th street; corner stone laid Sept. 6, 1866; dedicated June 3, 1868.



Granite shaft erected at Logan Square and dedicated October 13th, 1918, in commemoration of the 100th anniversary of the admission of the State of Illinois to the Union.

- Drake Fountain—Exchange avenue and 92d street, South Chicago; dedicated Oct. 11, 1908; presented to city Dec. 26, 1912; and first stood on Washington street in front of court house.
Drexel Fountain and Statue—Drexel boulevard and 51st street; completed in June 1883, no formal dedication.
Ericson, Leif—Humboldt Park; Oct. 12, 1901.
Ferguson, Fountain of the Great Lakes—On south terrace of Art Institute; Sept. 9, 1913.
Finerty, John F.—Garfield Park; Oct. 11, 1914.
Fire (1871) Tablet—137 DeKoven street; 1881.
Fort Dearborn Massacre—Calumet avenue and 18th street; June 22, 1893.
Fort Dearborn Tablet—River street and Michigan avenue; unveiled May 21, 1881.
Franklin—Lincoln Park; June 6, 1896.
Garibaldi—Lincoln Park; Oct. 12, 1901.
Goethe—Lincoln Park; June 13, 1914.
Grand Army 50th Anniversary Bronze Tablet—Garfield Park; May 6, 1916.
Grant—Lincoln Park; Oct. 7, 1891.
Grant Post No. 28, G. A. R.—Elmwood Cemetery, June 28, 1903.
Hamilton—Grant Park; Sept. 28, 1918.
Harrison, Carter H.—Union Park; June 29, 1907.
Havlicek, Karel—Douglas Park; July 30, 1911.
Haymarket—Union Park; May 30, 1889.
Humboldt—Humboldt Park; Oct. 16, 1892.
Illinois Centennial—Logan Square; Oct. 13, 1918.
Indian Trail Tree Tablet—Glencoe; Nov. 7, 1911.
Iroquois Theatre Fire Tablet—In hospital, 28 North Market street; Dec. 30, 1911.
Kennison—Lincoln Park; Dec. 19, 1903.
Kinzie Tablet—Pine and Kinzie streets; July 11, 1913.
Kosciuszko—Humboldt Park; Sept. 11, 1904.
LaSalle—Lincoln Park; Oct. 12, 1889.
Lincoln—Lincoln Park; Oct. 22, 1887.
Lincoln Memorial Bronze Bust—In front of Exchange Building, Union Stock Yards; Feb. 12, 1916.

- Lincoln Post No. 91, G. A. R.—Oakwoods Cemetery; June 14, 1905.
Lincoln Wigwam Tablet—Market and Lake streets; unveiled May 11, 1910.
Linne—Lincoln Park; May 23, 1891.
Logan—Grant Park; July 22, 1897.
Logan Post No. 540, G. A. R.—Rosehill Cemetery; June 1, 1900.
Marquette-Joliet—South Robey street and river; cross dedicated Sept. 23, 1907; tablet, May 6, 1909.
Mizenberg, S.—Waldheim Cemetery; May 30, 1885.
McKinley—McKinley Park; July 4, 1905.
Oglesby, Richard J.—Lincoln Park; unveiled Nov. 21, 1919.
Press Club—Mount Hope Cemetery; Nov. 12, 1893.
Reese, Michael—29th street and Graceland avenue; completed spring of 1893.
Republic, Statue of the—Jackson Park; May 11, 1918.
Reuter—Humboldt Park; April 23, 1894.
Rosenberg Fountain—Park Row and Michigan avenue; accepted by city Oct. 16, 1893.
St. Henry Parish Soldiers' Monument—Ridge and Devon avenues; Nov. 27, 1919.
Schiller—Lincoln Park; May 15, 1886.
Shakespeare—Lincoln Park; April 23, 1894.
Soldiers' Memorial Tablet—City Hall; Feb. 22, 1921.
Sweeney Post No. 275, G. A. R.—Evergreen Cemetery, Barrington; Sept. 9, 1906.
Thomas Post No. 5, G. A. R.—Rosehill Cemetery; Feb. 22, 1895.



1—Statue of "Miner and Child" at Humboldt Park, erected by Polish-American citizens of Chicago. 2—Statue of Abraham Lincoln as "The Hall Sitter" at Garfield Park. 3—Statue of Abraham Lincoln at Humboldt Park.

War of 1812 Tablet—In G. A. R. Hall, Public Library Building.
 Washington—Grand boulevard and 51st street; completed June 6, 1904; no formal unveiling.
 Washington Post No. 94, G. A. R.—Elmwood Cemetery; Aug. 22, 1909.
 Willich Post No. 780, G. A. R.—Town of Maine Cemetery; Oct. 13, 1901.

POINTS OF INTEREST IN AND ABOUT CHICAGO

NORTH SIDE

Academy of Sciences Museum in Lincoln Park.
 Cemeteries—Graceland, Rosehill, Calvary.
 Daily News Sanitarium, Lincoln Park.
 Fort Sheridan, near Highwood.
 Grant, Lincoln, Schiller, Goethe and other monuments in Lincoln Park.
 Historical Society Library and Collection, Dearborn street and Ontario street.
 Indian Trail Tree, near Glencoe.
 Kinzie Home Tablet, Pine and Kinzie streets.
 Lake Shore Drive.
 Lincoln Park Conservatories and Zoo.
 Municipal Pier, foot of Grand avenue.
 Newberry Library, Clark street and Walton place.
 Northwestern University in Evanston.
 Waterworks, Chicago avenue, near Lake.

SOUTH SIDE

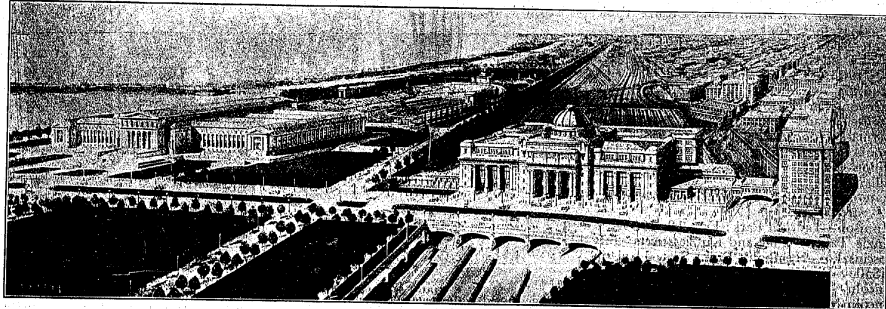
Armour Institute of Technology, 3300 Federal street.
 Art Institute Galleries of Paintings, Sculptures and Art Collections, on the lake front, foot of Adams street.
 Auditorium Tower, Wabash avenue and Congress street; view of city.
 Board of Trade, LaSalle street and Jackson boulevard; admission to gallery.
 Boulevard Link, Michigan avenue and river.
 Cabokia Court House on Wooden Island in Jackson Park.
 Central Trust Company Building, interior mural decorations, 125 West Monroe street.
 Chamber of Commerce Building (interior), LaSalle and Washington streets.
 Chicago Normal School, 68th street and Stewart avenue.
 City Hall, Washington, LaSalle and Randolph streets.
 Confederate Monument in Oakwoods Cemetery.
 County Building, Clark, Randolph and Washington streets.
 Crerar Library, Michigan avenue and Randolph streets.
 Douglas Monument, 35th street and Ellis avenue.
 Drexel, Grand and 55th street boulevards.
 Field Museum in Grant Park.
 Grand Army Halls in Public Library Building, Randolph street and Michigan avenue.
 Great Lakes Fountain, south end Art Institute.
 Iroquois Theater Fire, Scene of, 28-30 West Randolph street; memorial tablet by Lorando Taft, in Iroquois Memorial Hospital, 28 North Market street.
 Jackson Park, site of World's Fair in 1893.
 Life Saving Station at mouth of Chicago river.

Lincoln Wigwam Tablet, Market and Lake streets.
 Logan Statue in Grant Park (Lake front).
 Marquette Building Sculpture Panels, Dearborn and Adams streets.
 Marquette-Joliet Cross, Robey street and drainage canal.



Treaty Elm, located on Chicago's Northwest side at the intersection of the Indian boundary line (now Rogers Avenue), Indian Trail (now Caldwell Avenue) and North Kilbourn, under which the famous treaty of 1834 was made between the Federal Government and Chief Sauganah, representing the Indians. Chief Sauganah was better known among the early settlers as "Billy Caldwell" and he is described in the Chicago Directory of 1839. He was of half breed descent, well educated in English but thoroughly an Indian. His great ambition was that his people should adopt the dress and customs of the white people. His influence and power among the Tribes was always exercised to mitigate the savage warfare and restrain the ferocity of the Indians. At the time of the massacre of Ft. Dearborn he is said to have saved the family of Kinzie and others from being killed.

Masonic Temple; view of city from roof.
 Massacre Monument in 18th street, near the lake.
 Midway Plaisance with Taft statuery.
 McKinley Statue in McKinley Park.
 Orchestra Hall, 216-220 South Michigan avenue.
 Post Office, on square bounded by Adams, Clark and Dearborn streets and Jackson boulevard.
 Public Library, Michigan avenue and Washington street.
 Pullman Suburb.
 Republic Statue, Jackson Park.
 South Water street; commission house district.
 State Street Department Stores; shopping district.
 Stock Yards, Halsted and Root streets.
 Tower Building, Michigan avenue and Madison street.



View of the proposed new Illinois Central Terminal. The Field Museum shows at the left and South Michigan Avenue at the right.

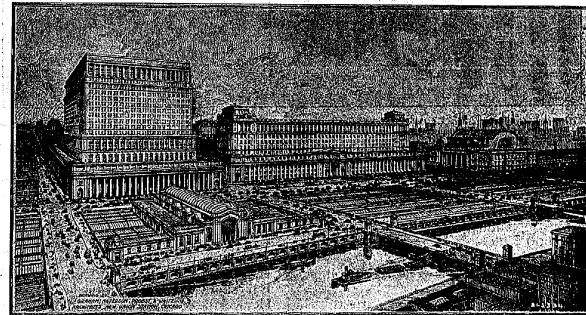
University of Chicago Quadrangles, Ellis avenue and 58th street.
 Washington Statue, Grand boulevard and 51st street.
 Wrigley Building, Rush and Water streets.

WEST SIDE

Ashland, Humboldt, Washington and Garfield boulevards.
 Northwestern Railway Passenger Station, Canal and West Madison streets.
 Douglas Park.
 Drainage Canal.

LOCATION OF CHICAGO'S MAIN RAILWAY PASSENGER STATIONS

| | | |
|--|--|---|
| Central Station: Park Row and Roosevelt Road; South side. Cleveland, Cincinnati, Chicago & St. Louis (Big Four). Illinois Central. Michigan Central. Grand Rapids & Indiana. | Chicago Terminal Transfer. Minneapolis, St. Paul & Sault Ste. Marie (Soo Line; formerly Wisconsin Central). Pere Marquette. | LaSalle Street Station: VanBuren and LaSalle Sts., South Side. Chicago, Rock Island & Pacific. Chicago & Indiana Southern. Lackawanna. Lake Shore & Michigan Southern. New York, Chicago & St. Louis (Nickel Plate). |
| Chicago & Northwestern Station: West Madison and Canal Streets; west side. All divisions. | Dearborn Station: Dearborn and Polk Streets; South side. Atchison, Topeka & Santa Fe. Chesapeake & Ohio. Chicago & Eastern Illinois. Chicago & Western Indiana. Chicago, Indianapolis & Louisville (Monon). | Union Station: Canal Street, between Adams and Madison; West side. Chicago & Alton. Chicago, Burlington & Quincy. Chicago, Milwaukee & St. Paul. Pittsburgh, Fort Wayne & Chicago. Pittsburgh, Cincinnati, Chicago & St. Louis (Pan-Handle). |
| Grand Central Station: South Wells and Harrison Streets; South side. Baltimore & Ohio. Chicago and Great Western. | Dearborn Station: Dearborn and Polk Streets; South side. Atchison, Topeka & Santa Fe. Chesapeake & Ohio. Chicago & Eastern Illinois. Chicago & Western Indiana. Chicago, Indianapolis & Louisville (Monon). Erie. Grand Trunk. Wabash. | |

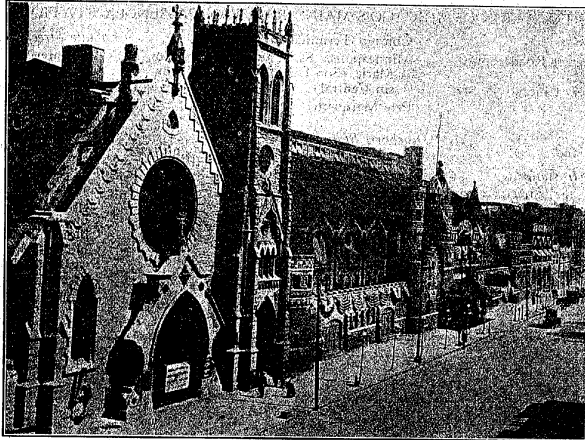


Photograph from architects' drawing of the new Union Station now under construction (left), the present Northwestern Depot (right) and showing the recommended two-block post office site (center).

NOTABLE BUILDINGS IN CHICAGO

Name, location and cost given in order.
 Adams Express—115 South Dearborn street; \$450,000.
 Advertisers—123 West Madison street; \$350,000.
 American Fore*—Cass and Chestnut streets; \$500,000.
 American Trust and Savings Bank—Clark and Monroe streets; \$1,000,000.
 Andrews—163 West Washington street; \$500,000.
 Art Institute—Michigan avenue and Adams street; \$600,000.
 Ashland—Clark and Randolph streets; \$1,500,000.
 Atlantic Hotel—316 South Clark street; \$1,400,000.
 Auditorium—Michigan avenue and Congress street; \$3,200,000.
 Auditorium Annex—Michigan avenue and Congress street; \$1,000,000.
 Barnheisel—616-622 Michigan avenue; \$350,000.
 Bedford—Adams and Dearborn streets; \$475,000.
 Blackstone Hotel—Michigan avenue and East 7th street; \$1,500,000.
 Blum—630 Michigan avenue; \$1,000,000.
 Board of Trade—\$1,800,000.
 Borland—Monroe and LaSalle streets; \$630,000.
 Born—342-344 South Wells street; \$300,000.
 Boston Store—State and Madison streets; \$3,500,000.
 Boyce—30 North Dearborn street; \$250,000.
 Breda—105 North Dearborn street; \$325,000.
 Burlington—Jackson boulevard and Quincy street; \$1,500,000.
 Butler Brothers—Randolph and Canal streets; \$4,000,000.
 Cable—307 South Wabash avenue; \$350,000.
 Capitol (formerly Masonic Temple)—State and Randolph streets; \$4,500,000.
 Carson, Pirie, Scott & Co.—State and Madison streets; \$1,350,000.
 Caxton—506 South Dearborn street; \$270,000.
 Central Trust Bank—117 West Monroe street; \$250,000.
 Chamber of Commerce—LaSalle and Washington streets; \$1,000,000.
 Chicago Athletic Association—12 South Michigan avenue; \$600,000.

Chicago Athletic Association Addition—71 East Madison street; \$500,000.
 Chicago Savings Bank—State and Madison streets; \$750,000.
 Chicago Temple—Clark and Washington streets; \$5,000,000.
 Chicago Title and Trust—69 West Washington street; \$600,000.
 Church—32 South Wabash avenue; \$300,000.
 City Hall—LaSalle street, between Randolph and Washington streets; \$5,000,000.
 City Hall Square—119-121 North Clark street; \$1,500,000.
 Columbia—Clark street, near Madison; \$500,000.



Chicago Coliseum, one of the largest in the world. Many notable conventions and exhibitions have enjoyed the spacious accommodations here. The circus on its most pretentious scale is annually held here.

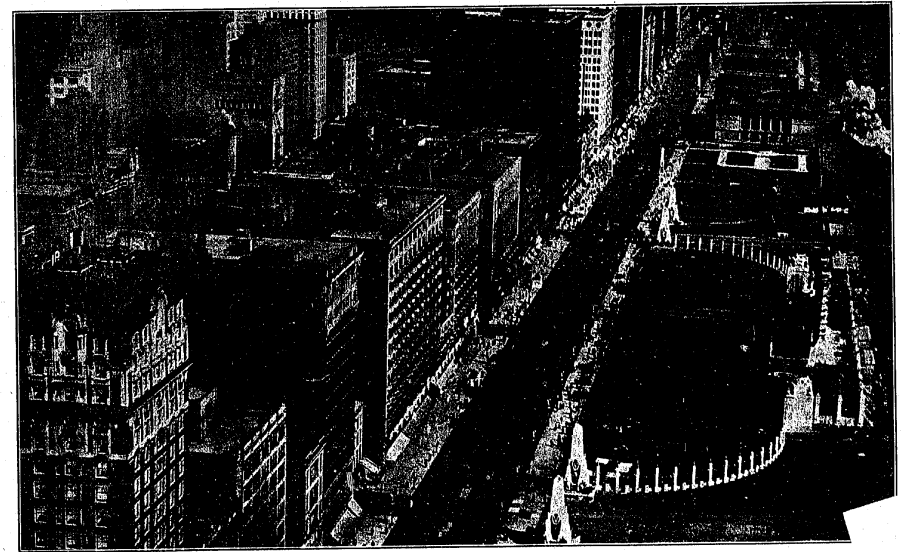
Columbia Memorial—State and Washington streets; \$800,000.
 Congress Hotel—See Auditorium Annex.
 Consumers—State and Quincy streets; \$1,500,000.
 Continental—South Wells and Quincy streets; \$250,000.
 Continental and Commercial National Bank—Wells and Adams streets; \$4,500,000.
 Conway—Washington and Clark streets; \$2,000,000.
 Cook County Courthouse—Clark street, between Randolph and Washington streets; \$5,000,000.
 Corn Exchange National Bank—LaSalle and Adams streets; \$1,000,000.
 Cregar Library—Michigan avenue.
 Dexter—35 W. Adams street; \$150,000.
 Drake, The—Lake Shore drive and Michigan avenue; \$4,000,000.
 Dry Goods Reporter—Market and Quincy streets; \$130,000.
 Edison—Clark and Adams streets; \$3,800,000.
 Elks—174 West Washington street; \$500,000.
 Ellsworth—537 South Dearborn street; \$300,000.
 Fair—State and Adams streets; \$1,500,000.
 Federal Building—See Post Office.
 Federal Life—166 North Michigan avenue; \$400,000.
 Federal Reserve—LaSalle street and Jackson boulevard.
 Field, Marshall (Retail)—Block bounded by Washington, State and Randolph streets and Wabash avenue; \$8,500,000.
 Field, Marshall (Men's Store)—Wabash avenue and Washington street; \$2,500,000.
 Field, Marshall (Wholesale)—Adams and Wells street; \$2,000,000.
 Field Warehouse—West Polk and Ellsworth streets; \$500,000.
 Fine Arts—410 South Michigan avenue; \$750,000.
 First National Bank—Dearborn and Monroe streets; \$3,000,000.
 Fisher—Wabash avenue and South Water street; \$300,000.
 Fort Dearborn—Clark and Monroe streets; \$400,000.

Fort Dearborn Hotel—Van Buren and LaSalle streets; \$1,100,000.
 Gaff—230 S. LaSalle street; \$275,000.
 Gage—18 South Michigan avenue; \$500,000.
 Garland—Wabash avenue and Washington street; \$1,000,000.
 Garrick—64 West Randolph street; \$750,000.
 Gibbons—49 West Jackson boulevard; \$398,000.
 Goddard—Wabash avenue and Monroe street; \$300,000.
 Grand Central Station—Harrison and Wells street; \$1,000,000.

Great Northern Hotel—Dearborn and Jackson boulevard; \$900,000.
 Hamilton Club—10 South Dearborn street; \$750,000.
 Harris Trust and Savings Bank—111 West Monroe street; \$2,500,000.
 Hart, Schaffner & Marx—Franklin and Monroe streets; \$1,000,000.
 Hartford—Madison and Dearborn streets; \$1,000,000.
 Harvester—Michigan avenue and Harrison streets; \$1,000,000.
 Heyworth—Madison street and Wabash avenue; \$1,500,000.
 Hibbard, Spencer, Bartlett & Co.—South Water and State streets; \$1,000,000.
 Hirsch, Wickwire & Co.—337 South Franklin street; \$500,000.
 Home Insurance Co.—LaSalle and Adams streets; \$800,000.
 Home Insurance—LaSalle and Adams streets; \$800,000.
 Hotel Ambassador—North State and Goethe streets; \$2,000,000.
 Hotel Brevoort—120 West Madison street; \$500,000.
 Hotel LaSalle—LaSalle and Madison streets; \$3,500,000.
 Hotel Sherman—Clark and Randolph street; \$3,500,000.
 Hunter—Madison and Market streets; \$500,000.
 Illinois Athletic Club—112 South Michigan avenue; \$500,000.
 Illinois Central Station—Park row, near Michigan avenue; \$1,000,000.
 Illinois Merchants' Bank—Clark street and Jackson Boulevard; \$9,000,000.
 Illinois Trust and Savings Bank—LaSalle street and Jackson Boulevard; \$300,000.
 Insurance Exchange—Jackson Boulevard and Wells street; \$4,000,000.
 Isabella—21 East VanBuren street; \$200,000.
 Kent—Franklin and Congress streets; \$500,000.
 Kesner—Madison street and Wabash avenue; \$850,000.
 Kimball Hall—Wabash avenue and Jackson Boulevard; \$2,250,000.

Kling Bros. & Co.—411 South Wells street; \$250,000.
 Kohn—425 South Franklin street; \$300,000.
 Kuppenheimer—415 South Franklin street; \$350,000.
 Lake View—116 South Michigan avenue; \$250,000.
 Lakota—Michigan avenue and 30th street; \$750,000.
 LaSalle Street Station—VanBuren and LaSalle street; \$2,500,000.
 Lees—19 S. Wells street; \$400,000.
 Leiter—State and VanBuren streets; \$1,250,000.
 LeMoyné—Lake street and Wabash avenue; \$450,000.
 Lexington Hotel—Michigan avenue and 22d street; \$750,000.
 Lombard Hotel—Wells and Quincy streets; \$500,000.
 London Guarantee and Accident*—Michigan avenue and River street; \$3,416,500.
 Ludington—1104 South Wabash avenue; \$275,000.
 Lumberman's Exchange—LaSalle and Madison streets; \$1,250,000.
 Lyon & Healy—Wabash avenue and Jackson street; \$1,000,000.
 Lytton—State street and Jackson Boulevard; \$2,250,000.
 McClurg—218 South Wabash avenue; \$200,000.
 McCormick—Michigan avenue and VanBuren street; \$1,500,000.
 McNeil—321 West Jackson Boulevard; \$250,000.
 Majestic Theater—22 West Monroe street; \$1,000,000.
 Mallers—Wabash avenue and Madison street; \$1,500,000.
 Mallers—226 South LaSalle street; \$275,000.
 Mallers—Quincy and Market streets; \$200,000.
 Mandel—Wabash avenue and Madison street; \$2,000,000.
 Manhattan—431 South Dearborn street; \$700,000.
 Marquette—Dearborn and Adams streets; \$1,000,000.
 Masonic Temple—(See Capitol).
 Medinah Temple—Wells street and Jackson Boulevard; \$500,000.
 Mentor—State and Monroe streets; \$500,000.
 Merchants Loan and Trust Bank—Clark and Adams streets; \$1,000,000.
 Monadnock—Dearborn and VanBuren streets; \$2,000,000.
 Monon—440 South Dearborn street; \$285,000.
 Monroe—Michigan avenue and Monroe street; \$1,500,000.
 Morrison Hotel—Clark and Madison streets; \$2,000,000.

National Life—29 South LaSalle street; \$1,200,000.
 Newberry Library—Clark street and Walton place; \$850,000.
 New York Life—LaSalle and Monroe streets; \$1,000,000.
 North American—State and Monroe streets; \$1,800,000.
 Northern Trust Bank—LaSalle and Monroe streets; \$500,000.
 Northwestern Railway (Office)—226 West Jackson Boulevard; \$2,000,000.
 Northwestern Railway (Terminal Station)—West Madison and Canal streets; \$20,000,000. (Including Site).
 Old Colony—Dearborn and VanBuren streets; \$900,000.
 Orchestra Hall—216 South Michigan avenue; \$900,000.
 Otis—Madison and LaSalle streets; \$1,500,000.
 Palmer—367 West Adams street; \$450,000.
 Palmer House—State and Monroe streets; \$3,500,000.
 Patten—Harrison and Sherman streets; \$450,000.
 Peoples Gas—Michigan avenue and Adams street; \$3,000,000.
 Peoples Life—Randolph and Wells streets; \$700,000.
 Peoples Trust and Savings Bank—Michigan boulevard and Washington street; \$1,500,000.
 Pontiac—Dearborn and Harrison streets; \$350,000.
 Pope—633 Plymouth court; \$290,000.
 Postal Telegraph—Adams and Clark streets; \$4,000,000.
 Powers—Wabash avenue and Monroe street; \$400,000.
 Printers—Polk and Sherman streets; \$400,000.
 Public Library—Michigan avenue, between Randolph and Washington streets; \$1,200,000.
 Pullman—Adams street and Michigan avenue; \$800,000.
 Railway Exchange—Michigan avenue and Jackson Boulevard; \$1,600,000.
 Rector—Clark and Monroe streets; \$700,000.
 Reid, Murdoch & Co.—North side of river between Clark and LaSalle streets; \$1,000,000.
 Reliance—State and Washington streets; \$500,000.
 Republic—State and Adams streets; \$1,100,000.
 Rialto—140 West VanBuren streets; \$700,000.
 Rookery—LaSalle and Adams streets; \$1,500,000.
 Roosevelt—Washington and Wells streets; \$500,000.
 Rothschild—304 South Street street; \$250,000.
 Royal Insurance—160 West Jackson Boulevard; \$800,000.
 Schiller—See Garrick.
 Security—Madison and Wells street; \$450,000.
 Shuman—Randolph and Wells streets; \$700,000.



Michigan Boulevard looking north from 32th street.

(Copyright by Underwood & Underwood)

Silversmiths—10 South Wabash avenue; \$250,000.
 Society Brand—Franklin and Congress streets; \$450,000.
 Spitz & Schoenberg—529 South Franklin street; \$250,000.
 Standard Oil (Formerly Karpen)—Michigan avenue and East 9th street; \$1,400,000.
 Star—538 South Dearborn street; \$250,000.
 State-Lake—State and Lake streets; \$1,600,000.
 Steger—Wabash avenue and Jackson Boulevard; \$800,000.
 Steinhart—64 East VanBuren street; \$280,000.
 Stevens—State street, between Washington and Madison; \$2,250,000.
 Stewart—State and Washington streets; \$800,000.
 Stewart Apartments—Lake Shore Drive and Division street; \$700,000.
 Stock Exchange—LaSalle and Washington streets; \$1,250,000.
 Straus—Clark and Madison streets; \$250,000.
 Studebaker—629 South Wabash avenue; \$350,000.
 Tacoma—Madison and LaSalle; \$500,000.
 Telephone—Washington, between Wells and Franklin streets; \$2,500,000.
 Telephone (Franklin Building)—311-27 West Washington street; \$2,000,000.
 Telephone Square—Franklin and Washington street; \$850,000.
 Temple—LaSalle and Monroe streets; \$1,000,000.
 Temple Court—219 South Dearborn street; \$300,000.
 Theodore Thomas Hall—See Orchestra Hall.

Tower (Old Montgomery-Ward)—Michigan avenue and Madison street; \$1,500,000.
 Transportation (Heisen)—Dearborn and Harrison streets; \$2,000,000.
 Tribune—Dearborn and Madison streets; \$1,500,000.
 Twentieth Century—State and Adams streets; \$700,000.
 Union Terminal Station*—South Canal and Adams streets; \$400,000 (including site).
 Unity—127 North Dearborn street; \$800,000.
 University Club—Michigan avenue and Monroe street; \$1,150,000.
 Van Buren—Van Buren and Wells streets; \$250,000.
 Venetian—15 East Washington street; \$350,000.
 Virginia—Ohio and Rush streets; \$500,000.
 Vogue—286 South Wells street; \$200,000.
 Webster—127 South Market street; \$150,000.
 Western Union—111 West Jackson Boulevard; \$700,000.
 Westminster—Monroe and Dearborn streets; \$1,200,000.
 Williams—205 South Monroe street; \$200,000.
 Wilson—528 South Wells street; \$500,000.
 Wildermer Hotel*—Hyde Park Boulevard and 56th street; \$3,600,000.
 Wrigley—Rush and Water streets; \$3,000,000.
 Y. M. C. A.—19 South LaSalle street; \$1,000,000.
 Y. M. C. A. Hotel—818-826 South Wabash Avenue; \$1,100,000.
 *Under construction in 1922.

SUBURBS OF CHICAGO

Chicago's millions do not all live in crowded residential sections. Thousands find their homes in the many attractive suburbs of Chicago which are connected with the loop district with excellent transportation.

Some idea of the many villages and towns near Chicago can be secured from the following list. Direction and number of miles from Chicago are also indicated.

| | | | | |
|-----------------------------|----------------------------|-------------------------|---------------------------|---------------------------|
| Argo, SW, 12 | Elgin, NW, 36.7 | Hollywood, SW, 38.1 | Monroe, S, 49.9 | Schererville, SE, 34 |
| Arlington Heights, NW, 23.4 | Elliott's Park, S, 25 | Homewood, SE, 22 | Montclair, SE, 47.3 | Schiller Park, NW, 16.9 |
| Atkins, SE, 42 | Elmhurst, W, 16.8 | Hubbard Woods, N, 17.8 | Montrose, SE, 32 | Sedley, SE, 54.3 |
| Aurora, SW, 37 | Englewood, SE, 73.3 | Indiana, NW, 15.1 | Morton Grove, NW, 14.3 | Shelfield, SE, 16.1 |
| Barrington, NW, 31.6 | Bois, SW, 38.5 | Ind. Harbor, SE, 20 | Mossy Grove, NW, 15.3 | Shelby, S, 52.5 |
| Bartlett, N, 30.2 | Brookfield, NW, 12 | Ingallton, W, 30.3 | Mount Prospect, NW, 19.7 | Summers, SE, 20.9 |
| Batavia, W, 38.2 | Brownsville, NW, 14 | Inglewood, NW, 47.9 | Munster, W, 22.7 | Small, SE, 48.3 |
| Beach, S, 40 | Brookwood, NW, 14 | Itasca, NW, 21.8 | Naperville, W, 20 | South Addison, W, 2.8 |
| Beatrice, SE, 43 | Brookville, NW, 17.3 | Indian Park, NW, 25 | New Buffalo, SE, 65.9 | South Elmhurst, W, 12 |
| Becker, S, 47.5 | Bryn Mawr, NW, 15 | Fields, SE, 17.8 | New Chicago, SE, 31 | South Hammond, SE, 22.2 |
| Bellwood, W, 13.7 | Buffington, SW, 22.7 | Flossmoor, W, 24 | North Holland, S, 15.8 | South Lynne, SW, 11 |
| Bensenville, NW, 17.3 | Berkley, W, 15 | Forest Hill, S, 10 | North Aurora, W, 41.5 | Spaulding, NW, 33 |
| Berwyn, SW, 24 | Berry Lake, SE, 17.5 | Forest Home, W, 10.5 | North Chicago, NW, 22.2 | Steger, S, 48.3 |
| Beverly, W, 24 | Brom, SW, 22.5 | Forest Park, W, 11.5 | North Kensington, S, 12.2 | Strathmore, S, 24.8 |
| Bluff, SW, 16.4 | Brown, SW, 22.5 | Fort Sheridan, W, 26.7 | Novak, SW, 15 | Summit, SW, 11.9 |
| Bowen, W, 42.9 | Bryn Mawr, NW, 15 | Fox Lake, SW, 36.6 | Oak Forest, SW, 21.7 | Swire, W, 22.3 |
| Bradley, S, 64.8 | Buckfield, SW, 12.8 | Franklin Park, NW, 18.2 | Oak Lawn, SW, 14.8 | Sycamore, S, 58.1 |
| Braintree, N, 20.7 | Buffington, SW, 22.5 | Gardner's Park, S, 15 | Oak Park, W, 8.6 | Tedding, NW, 19.9 |
| Broadview, W, 14.5 | Burnham, S, 18.6 | Gary, W, 13.8 | Ontarioville, NW, 28.5 | Terre Cotta, NW, 45.7 |
| Brockfield, SW, 12.8 | Burr Oak, SW, 15.8 | Geneva, W, 39.5 | Orland, S, 23 | Thatcher's Park, NW, 16.1 |
| Buffington, SW, 22.5 | Byronville, SW, 24.5 | Glenview, W, 40 | Osborne, SD, 22.66 | Thayer, S, 54.1 |
| Burnham, S, 18.6 | Calumet, SE, 24.3 | Glenview, W, 40 | Otis, SE, 49 | Thornton, S, 51.8 |
| Burr Oak, SW, 15.8 | Cary, NW, 48.3 | Gibson, SD, 23.25 | Palatine, NW, 26 | Three Oaks, SE, 73.1 |
| Byronville, SW, 24.5 | Charter Grove, W, 50.2 | Gillette, SW, 32.7 | Palos Park, S, 20.4 | Tidwell, SW, 29.3 |
| Calumet, SE, 24.3 | Cherry Hills, SW, 37 | Glenview, W, 40 | Palos Springs, S, 18.7 | Tinley Park, SW, 23.5 |
| Cary, NW, 48.3 | Chicago Heights, N, 33 | Glenwood, S, 23.5 | Park Ridge, NW, 12 | Tracy, SE, 16 |
| Centerville, S, 40.5 | Chicago Ridge, SW, 18.4 | Globe, S, 24.4 | Park View, NW, 37.1 | Tremont, SE, 47 |
| Charter Grove, W, 50.2 | Claire, W, 61 | Golf, W, 47.5 | Pearson, S, 49.3 | Turkey Creek, SE, 41.2 |
| Cherry Hills, SW, 37 | Chandon Hills, SW, 22.3 | Goodenow, S, 34.2 | Pine Crest, W, 45.4 | Vadon, SE, 43.6 |
| Chicago Heights, N, 33 | Chardon Junction, SE, 18.9 | Grand Beach, NW, 62.8 | Pleasant Hill, S, 18.7 | Wadsworth, N, 42.9 |
| Chicago Ridge, SW, 18.4 | Chicago Junction, SE, 18.9 | Grant Park, S, 44.7 | Pleasant Prairie, N, 57.7 | Walden, SW, 12.3 |
| Claire, W, 61 | Chicago Ridge, SW, 18.4 | Grayslake, NW, 46 | Porter, SE, 44.2 | Wanatah, SE, 52.8 |
| Chardon Hills, SW, 22.3 | Clondra, SW, 5.5 | Great Lakes, NW, 32.5 | Pratt, S, 65 | Warrenville, W, 30.4 |
| Chardon Junction, SE, 18.9 | Clondra, SW, 5.5 | Greene, W, 31 | Pratt, S, 65 | Washington, NW, 20.5 |
| Chicago Heights, N, 33 | Clondra, SW, 5.5 | Grosse Pointe, NW, 14 | Pratt, S, 65 | Waukegan, N, 36 |
| Chicago Ridge, SW, 18.4 | Clondra, SW, 5.5 | Groveton, SD, 73.5 | Pratt, S, 65 | Waukegan, N, 36 |
| Claire, W, 61 | Clondra, SW, 5.5 | Halesville, NW, 42.8 | Pratt, S, 65 | Water, NW, 12.7 |
| Chardon Hills, SW, 22.3 | Clondra, SW, 5.5 | Hammond, SE, 21 | Pratt, S, 65 | West Chicago, SW, 30 |
| Chardon Junction, SE, 18.9 | Clondra, SW, 5.5 | Hanna, SE, 59.1 | Pratt, S, 65 | Western Springs, SE, 15.5 |
| Chicago Heights, N, 33 | Clondra, SW, 5.5 | Harlem, SW, 10 | Pratt, S, 65 | West York, S, 21.3 |
| Chicago Ridge, SW, 18.4 | Clondra, SW, 5.5 | Hawthorn, SW, 6.9 | Pratt, S, 65 | Whitford, W, 24.9 |
| Claire, W, 61 | Clondra, SW, 5.5 | Hazel Crest, S, 21 | Pratt, S, 65 | Whitford, W, 24.9 |
| Chardon Hills, SW, 22.3 | Clondra, SW, 5.5 | Hebron, SD, 12.1 | Pratt, S, 65 | Whitford, W, 24.9 |
| Chardon Junction, SE, 18.9 | Clondra, SW, 5.5 | Hickory, SW, 35 | Pratt, S, 65 | Whitford, W, 24.9 |
| Chicago Heights, N, 33 | Clondra, SW, 5.5 | Hickory, SW, 35 | Pratt, S, 65 | Whitford, W, 24.9 |
| Chicago Ridge, SW, 18.4 | Clondra, SW, 5.5 | Hickory, SW, 35 | Pratt, S, 65 | Whitford, W, 24.9 |
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| Chardon Junction, SE, 18.9 | Clondra, SW, 5.5 | Hickory, SW, 35 | Pratt, S, 65 | Whitford, W, 24.9 |
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| Chardon Hills, SW, 22.3 | Clondra, SW, 5.5 | Hickory, SW, 35 | Pratt, S, 65 | Whitford, W, 24.9 |
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| Chardon Junction, SE, 18.9 | Clondra, SW, 5.5 | Hickory, SW, 35 | Pratt, S, 65 | Whitford, W, 24.9 |
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ing Clubs of the World 16 years ago. Organized efforts in the advertising field have been instrumental in securing legislation in 34 States against fraudulent advertising. Chicago to-day has the largest advertising club in the world.

Steel and Iron—Fifty years ago Chicago was on its way towards becoming a factor in the steel and iron industry of the United States. In 1872 the North Chicago Rolling Mill Company operated two blast furnaces with a capacity for producing about 50,000 tons of pig iron annually, approximately 2 per cent. of the total big iron produced in the United States.

The first plant in the West for the manufacture of Bessemer steel was built by the North Chicago Rolling Mill Company at Ashland and Archer Avenues, in 1871.

Banks and Banking—Banking in Chicago five decades ago was provincial. Today it is national in scope. A number of banking institutions rank with the largest in the United States, while at least one of them has larger deposits than even New York's largest bank.

Investments—Not a single investment firm was established as such in 1872. A few farm and city mortgages were sold. Today more than three hundred firms deal exclusively in bonds and mortgages, and the business transacted annually runs into the hundreds of millions of dollars.

World Grain Market—When the Chicago Board of Trade was founded in 1848 Chicago was little more than a wagon-load market. Today it is the grain center of the world. More than 400,000,000 bushels of cash grain are handled annually.

Gas and Light—Chicago's oldest utility was incorporated in 1855, and gas was first supplied in 1850. Since then this industry has grown until 720,000 meters are in use, and the investment aggregates \$1,400,000,000.

City Transportation—Street cars date back to 1858, when ground was broken at State and Randolph Streets. Horses

were used. In 1864 steam dummies were substituted; in 1882 cable cars began operations; in 1893 the first overhead trolley line was operated. In 1859 there were nine miles of track. Today there are about 1,100 miles of single track, making it the largest street railway line in the world.

Electric Light and Power—Fifty years ago Chicago did not have electricity for light and power; elevated railway transportation or telephones. They didn't exist. Today Chicago's Commonwealth Edison Company produces more energy than any company in the world; its elevated railway transportation excels that of anywhere on the globe, and it has more telephones per capita than any other large city in the world—more, in fact, than there are on the continents of Asia, Africa and South America combined.

Printing—Comparative figures for 1872 in the printing industry are unavailable. Only small shops existed then. Today Chicago is the printing center of the United States. One corporation in Chicago prints more than one hundred distinct magazines each month. Consumption of white papers runs into the millions of tons.

Hotels—Decidedly provincial were the accommodations given to the traveler by Chicago inn and hotel keepers in 1872. Fifty years later Chicago has some of the finest hotels in the world and can easily entertain half a million people daily. Investments in hotel properties probably exceed \$100,000,000.

Household Furniture—The furniture business fifty years ago was an infant. There were a few, but small, factories which survived the big fire. In 1878, furniture making in this city went ahead by leaps and bounds. It has grown very rapidly since. Today not less than \$35,000,000 worth of furniture is turned out by Chicago factories.

Lumber—Chicago is literally the lumber yard of America. Originally, lumber came to Chicago by boat. Today practi-

cally every railroad brings the product of the far Northwest to this city to be trimmed, sawed and finished. Shipments of finished product in 1872 aggregated 600,000,000 feet. Receipts have more than doubled from approximately 1,000,000,000 feet in 1872 to two and one-quarter billion feet in 1921.

Wholesale Groceries—The largest Wholesale Grocery Manufacturing concerns in the world are here. These big food factories gather, from the four corners of the earth, all good things to eat and under private bands, sell to retailers.

Machinery—It is only in the past twenty-five years that Chicago has developed into the largest machinery market in the world. Prior to that time, there was little demand in the Mid-West for high-grade machine tools. In the early 90's the condition changed, and today, Chicago has the largest and most varied stock for immediate delivery in the world. It is the logical market place for machine tools and machinery.

Construction—Just prior to the big fire, building permits in Chicago never exceeded \$1,000,000 a year. Building permits and construction in 1922 were in excess of \$110,000,000.

Electrical Equipment—Chicago is a leader both in the production and distribution of electrical equipment. Chicago has developed the largest manufacturing organization in the world producing telephone equipment. It employs 27,500 people, more than lived in the city of Chicago eighty-five years ago. Other leading lines of production and distribution are motors and electrical household appliances.

Railway Supplies—Chicago is the leading market for railway supplies. It produces more railway passenger cars and Pullman coaches than any other city, and is a leader in the production of railway cars and appliances. Chicago's preeminent position as a market and producing center of railway equipment is the natural result of its being the world's greatest railway center.

Jewelry—Chicago distributes more jewelry than any other city in this country or abroad. It carries the largest stocks and its salesmen reach every important center of the country. In the production of high-grade jewelry the city is fast obtaining prominence. Chicago is also a leader in the distribution of jewelry by mail order concerns.

Confectionery—Chicago leads in the distribution of candy throughout the middle west. Its candy industry started in the days before the fire, and now has a plant of investment in excess of \$25,000,000. One of the largest and most modern equipped plants in the world, costing nearly \$3,000,000, has just begun operations. The remarkable growth of the industry within the past decade is certain to make Chicago the leading production and distributing center of the country.

Men's Clothing—Chicago is the country's leading center in the production of men's clothing, with an annual output in excess of \$250,000,000. In total production Chicago is exceeded only by New York City. The industry has developed remarkably within the past ten years. In

one year since the war more than \$6,000,000 was expended for new manufacturing plants.

Musical Instruments—The largest musical manufacturing firm in the world is located in Chicago. From a humble beginning fifty years ago it has grown until, in certain lines, it has no rival and practically no competitor.

Women's Apparel—The two oldest existing organized manufacturers of women's apparel in the West—probably in all America—are located in Chicago. Both make coats and suits. Dresses, waists and other ready-to-wear articles of women's apparel, were a later development.

From these humble beginnings a magnificent garment manufacturing market has developed. This year the production, at wholesale values, is between \$63,000,000 and \$70,000,000.

Paints and Oils—Fifty years ago mixed paints were an experiment, and paint manufacturers in the United States could be counted on your two hands. In Chicago there were five. The big fire all but put these out of business. Today there are thirty-four paint and varnish manufacturers in Chicago. The output exceeds annually one hundred million dollars.

Hides and Leather Industry—Chicago

is the greatest green salted hide market in the world. Fifty years ago few tanneries made bark tanned upper leathers. Today many tanneries produce the newest and best grades of upper leathers. As a distributing center of leather, shoes and allied products Chicago has taken leading place.

Automobiles—The automobile is a latter day development. Unknown fifty years ago these modern conveyances have come to take a place of leading importance. Chicago is principal distributing center for automobiles. It is in the front rank in the manufacture of accessories and bodies. Chicago has the largest taxicab factory in the world.

High Lights on Chicago's Leadership

Chicago is the largest producer of meat and packing house products in the world.

Chicago is the largest manufacturer and distributor of farm machinery and implements.

Chicago is the largest manufacturer of telephone equipment in the world.

Chicago is the largest manufacturer and distributor of furniture and allied lines.

Chicago is the largest producer of cement in the world.

Chicago leads the world in the manufacture of band instruments.

Chicago produces more household electrical and gas devices than any other city.

Chicago is the greatest center for the manufacture of men's and women's high-grade clothing.

Chicago leads in the manufacture of pianos.

Chicago leads in the manufacture of parlor lamps and shades.

Chicago publishes more trade catalogues and telephone directories than any other city.

Chicago is the world's greatest lumber market.

Chicago is the world's greatest grain market.

Chicago is the world's foremost transportation center.

Chicago entertains more conventions annually than any city in the world.

Chicago is the country's great market for all classes of skilled and unskilled labor.

Chicago leads the country in the distribution of dry goods and general merchandise.

Chicago is the world's greatest food distributing center.

Chicago leads the country in the distribution of jewelry.

Chicago distributes more automobiles than any other city.

Chicago leads in the distribution of pianos and musical instruments.

Chicago has the largest electrical central station power supply in the world.

Chicago has the greatest number of small parks and playgrounds of any city in the world.

Chicago is the healthiest large city in the world.

The Chicago Post Office handles a larger amount of parcel post matter than any post office in the world.

Chicago is the country's greatest produce market.

Chicago has the largest retail department stores in the world.

Chicago leads the country in mileage of boulevards.

Chicago distributes more shoes and carries the largest open stocks of any city in the country.

Chicago sells more merchandise through mail order houses than any city in the world.

Chicago has the largest manufacturers of high-grade millinery.

Chicago is the financial center of the Middle West.

Chicago's new Illinois Central Depot will be the largest in the world.

Chicago is the largest distributor for domestic purposes of gasoline and kerosene in the United States—about 25 per cent of total production handled here.

Chicago leads the nation in the diversity and importance of its educational institutions.

Chicago is nearer to a greater variety of raw material than any other city in the United States.

Chicago is the country's leading industrial center—it produces a greater variety of manufactured products than any other city.

Chicago is the country's universal market—it sells a greater variety of raw materials and manufactured products than any other city in the world.

Chicago is the first city in the country in the manufacture of products for export.

Chicago sends and receives more telegrams than any other city in the country.

Chicago's foreign trade is estimated at \$1,750,000,000.

Chicago is about 200 miles from the center of population of the United States.

Chicago is destined to become the largest printing and publishing center in the United States.

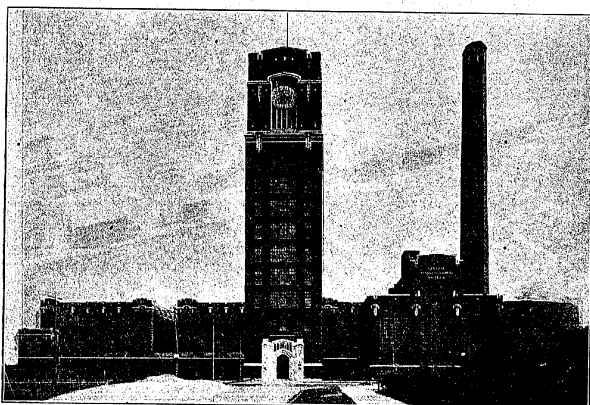
Chicago adds 70,000 people annually to its population.

Chicago's outer park or Forest Preserve system is the largest in the world.

The McCormick Zoological Gardens, when completed, will be the largest and most attractive in the world.

Chicago's Art Institute has a larger membership than any art school in the United States.

Chicago—leading foundry center of the United States, having a greater number of foundries, machine shops and pattern shops than any other city.



Tower Building and McKinley Power Station, Central Manufacturing District. Co-ordination of effort and pooling of interests has made possible this separately maintained and controlled power plant for the exclusive benefit of the different manufacturing plants within this district.

Chicago Manufactures Millions of Dollars Worth of Athletic Goods Every Year—Progress Made in This Industry is Phenomenal

Within recent years Chicago has stepped to the front as a manufacturing center for athletic equipment. It is estimated that this city is now turning out not less than \$10,000,000 worth of sporting goods annually, the list including baseball bats, tennis rackets, golf clubs and footballs.

No other city in the world can equal Chicago's record when it comes to producing baseball bats. More than a million were manufactured here last year and nearly every civilized nation in the world used them.

Leather goods, knit goods, and athletic and sport clothing are also made in vast quantities in Chicago, although exact figures are difficult to give for the reason that many of the factories making them also make other goods not classified as athletic and sporting goods, which cannot be separated from the latter.

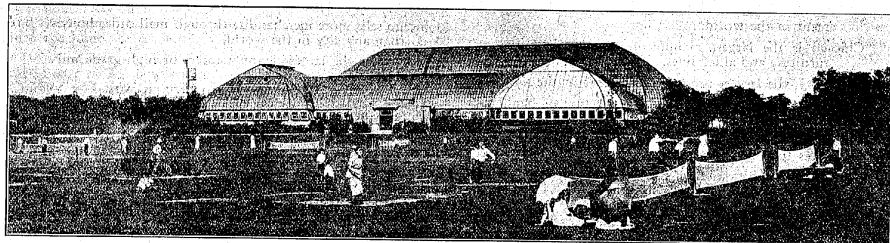
One house founded in Chicago has approximately 8,000 articles in the line of athletic goods which it manufactures and sells. Another house whose headquarters

is offered to the public by the retailers, or business men. They are of types that are acceptable to the customers, who therefore keep the articles and thus have the name of the giver frequently called to their attention. The specialties also include small signs that are put in conspicuous places.

Considering that these articles are given away, it might seem natural to suppose that the amount involved would not reach large proportions, yet the total is large enough to form an industry that deserves attention.

Any retailer who wishes to build up his business will find much in these plants and their output to interest him. The list of customers of these manufacturers include the most enterprising concerns throughout the central west.

Articles Made of Various Materials—The articles that are turned out are made of celluloid, cloth, metal, glass, wood, paper, leather, aluminum and other materials. Figures for the output, which have been given above, are only for establishments which give their entire attention to manufacture of specialties. The totals might be increased considerably by including general manufacturing plants



Garfield Park Conservatory showing tennis courts in the foreground, just one of the many play grounds which make Chicago pre-eminent as a recreational center.

are in Chicago, manufactures and sells 4,500 articles of athletic equipment. A Chicago general merchandise concern has 7,000 items of athletic and sporting goods in its catalogue, receiving sometimes 150,000 orders a day, selling annually 65 tons of ice skates, 200 tons of cotton cloth for tents, 5,954 footballs a week, 5,000,000 fishhooks in a single order, and 60,000,000 rounds of sporting ammunition a year.

Advertising Specialty Industry is Large—Chicago Plants Manufacture Many Articles of Great Value

Trade builders for merchants are manufactured in large amounts by the advertising specialty plants of the Chicago district. There are fifty of these plants in Chicago and the immediate vicinity, the value of their annual output being estimated at \$33,000,000. Their capitalization is \$25,000,000. These figures do not include jobbers or brokers, but only firms which manufacture.

The output of these plants consists of articles that are distributed gratis to customers by business establishments throughout the country, and are of almost infinite variety. Such articles are either souvenirs, or reminders of the ser-

vice, while engaged in other lines, often devote a large percentage of their energies to manufacture of specialties as side lines. This is especially true of jewelers, who often turn out cuff buttons, or scarf pins, which carry advertisements, or leather goods manufacturers. The specialty houses alone have close to 20,000 employees, who are at work steadily.

Some idea of the breadth of the field that is covered by these manufacturing establishments may be gained by calling attention to a few of the articles that are turned out. These include decalcomania transfers, pocket and home savings banks, caps, school bags, carpenters' aprons, diaries, bill folds, memorandum books, card cases, fans, desk calendars, advertising tape, paper matches, postal cards, small signs and tape measures.

Articles made of metal include pencils, key rings, match boxes, pocket knives, bottle openers, and kitchen utensils. The celluloid articles include pocket banks, vanity cases, pocket mirrors, calendar cards, etc.

Articles for Premium Users—Among the glass articles are signs, paper weights and ash trays. Many miscellaneous articles are made for premium users.

These articles are sold to merchants in all parts of the world. One Chicago firm alone has men who have visited fifty-five countries, where sales have been made direct representation.

The retailer visiting Chicago is likely to find it to his advantage to visit some of these establishments, where he will be given many suggestions which he will find of value in building up his business. To attempt to list all of the articles which they manufacture would be impossible, but they are able to fill any requirement and can give suggestions which are of value.

Chicago Now a Great Advertising Center—Has Taken Lead During Past Few Years

The importance of Chicago as an advertising center is evidenced by the estimate that fifty-five per cent of all the advertising which originates in the United States is placed in the northern part of the Mississippi Valley, the district of which Chicago is the center. For many years the center for advertising was in New York. The change which has shifted this center westward has been gradual and is the logical outcome of the fact that the

bulk of nationally advertised products are produced in the west.

Chicago's precedence as an advertising center is further substantiated by the fact that it has the largest single advertising club in the United States. This is the Advertising Council of the Association of Commerce. This organization plays an important part in Chicago's advertising field as well as taking a prominent part in national gatherings of ad men. The chairman of the National Advertising Commission, W. Frank McClure, is a Chicago man, and has been the head of that organization for several years.

Advertising Organizations Have Headquarters Here—The whole of the machinery of the Financial Advertisers Association, which has 500 members, is centered in Chicago. Their headquarters are in Chicago. Some of the largest advertising agencies in the United States are in this city also.

Several of the leading advertising publications of the country are issued in Chicago. These publications occupy an important position among advertisers and are widely read.

The fact that Chicago is one of the leading centers of printing in the United States is of importance in connection with advertising. In some features connected with the printing industry Chicago leads all other cities. Owing to the postal zoning law and to changes that have taken place in the industry during the last year or so, a number of leading eastern publications are having their printing done in Chicago. This city is the center for the printing of mail order catalogues.

Chicago is the center for the advertising specialty men and has the greatest outdoor advertising plant in the world.

Chicago is World Center for Agricultural Implements—Manufacturing Plants of This City Produce Thousands Annually

No city in the world can equal Chicago when it comes to production and distri-

bution of agricultural implements. Cyrus H. McCormick, the inventor of the reaper, put Chicago on the map by giving to the world his valuable farm implement, and ever since the invention of this machine the city has led in the production of farming implements. It was not until 1831 that the reaper was invented by Mr. McCormick, and not until the year 1847 when a factory was built to make them.

When Mr. McCormick reached Chicago in 1847, he found a ten-year-old city built in a swamp without railway or canal and with a river that had not made up its mind to assist the Great-Lakes-to-the-Gulf movement. It was the link between the Mississippi and the Great Lakes—a central market where wheat could be exchanged for lumber, linen and leather, and furs for iron, fire-irons and firewater. Chicago gave the youthful inventor practical welcome and commenced its career as the world's greatest farmer. And then came other men, each with revolutionary invention—the Gordons, S. D. Locke, Wm. Deering, Wm. Parlin, Newell Sanders, D. M. Osborne, Walter A. Wood, C. W. Marsh, Wm. W. Whiteley, the Marsh brothers, C. B. Wetherford, J. V. Appleby—each contributing his share to the founding of what is now the most varied, efficient and economical farm operating equipment industry in the world, and

with these, many other inventors and manufacturers have co-operated, supplying all accessories and equipments that have made the farmer the leading citizen of industry that he is today.

Thousands of prosperous establishments in the United States today owe their very existence and prosperity to the fact that Chicago's agricultural machinery assures their food products. Their crops induced the extension of railroad service, and the resultant business attracted other minds to further discover and exploit local resources and advantages.

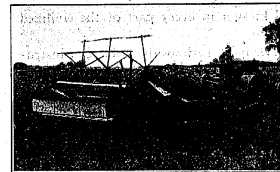
Chicago reapers, according to Seward, "pushed the American frontier westward at the rate of thirty miles a year." Most of the western railways were built to the wheat, and wheat paid for their building, and to Chicago's world-farming activities must be given much of the credit for its



A McCormick reaper of the period of 1831.

position as the world's foremost railroad terminus.

Chicago's seven farm implement factories are headed by the McCormick and Deering Works of the International Harvester Company, which are respectively the largest and the second largest establishment limits. They have an aggregate floor



The latest improvement in harvesting machines, the new McCormick ten foot power driven tractor and binder, capable of harvesting upwards of 25 acres a day. Power to operate the binder mechanism is taken directly from the tractor and not the bull wheel. The operator makes all bindery adjustments directly from his seat on the tractor.

space of about 9,470,000 square feet. In shipments of their kind in the world, These seven factories, with associated plants, occupy 467 acres, all within the normal times they employ more than 20,000 workers.

While figures on maximum production are likely to be misleading, it is interest-

ing to note that these factories can produce, if operated at full capacity, a total of 900,000 machines and vehicles a year, and 110,000 tons of binder twine.

From the McCormick works, threshers reapers, mowers, and other farm machinery are going not alone to farms in our own country, but to Canada, England, Belgium, France, Greece, Egypt, India, Italy, China, Japan, Australia, New Zealand, Brazil, Peru, Argentina, South Africa, in fact, to every corner of the globe. And each machine carries the name and fame of Chicago wherever it goes.

This immense plant covers approximately 140 acres, with a floor space of almost 4,000,000 square feet, employ over 9,000 men and women, and produce 375,000 machines annually. This is equal to about 1,350 machines a day, or one full completed farm machine every 30 seconds.

An enormous amount of steel, iron, lumber, canvas and paint goes into the making of these 375,000 machines in a year's time.

It requires 10,000,000 grey iron castings weighing about 65,000 tons; 60,000,000 malleable iron castings and 73,000,000 chain links weighing about 35,000 tons; over 700,000 steel wheels and 800,000 gallons of paint.

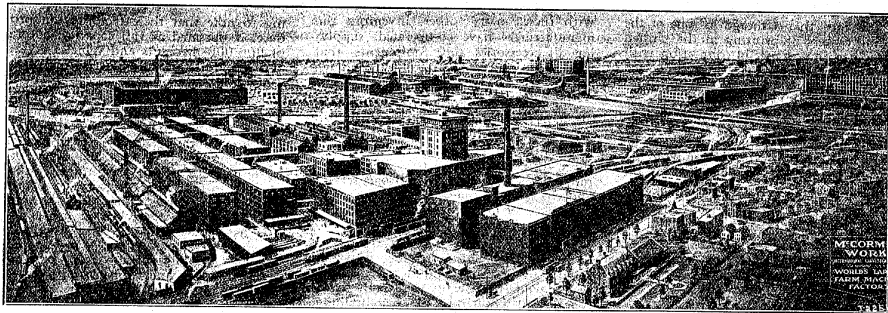
In addition to this, the McCormick twine mills produce 60,000 tons of binder twine.

The twine industry represents a most important factor in American agriculture. Every acre of grain that is bound requires 2½ pounds of twine, for which the farmers of the United States paid out \$72,000,000 in 1918. The 60,000-ton product at the McCormick plant would make a strand that would encircle the world 380 times. As all this twine is used during the comparatively short harvest period, and as production has to go on steadily, immense amounts have to be stored during a large part of the year. A visit to the twine mill is an interesting experience, as this plant forms a great industry in itself.

Chicago is not alone the home of the largest farm machinery plant in the world but it also has the world's second largest plant for the manufacture of farm implements, and these, with other plants building farm machinery within its limits, make Chicago stand pre-eminent as the largest producer of agricultural implements in the world.

Besides tractors and binder twine, Chicago's farm implement factories produce binders, reapers, harvester-threshers, mowers, rakes, hay stackers, ensilage cutters, potato diggers, culti-packers, corn planters, corn cultivators, corn harvesters, threshers, manure spreaders and farm wagons.

Some conception of the immensity of the manufacturing operations of Chicago's agricultural machinery plants may be obtained from the fact that if all the binder, reaper and mower sections made annually were placed side by side, they would form one huge sickle reaching from San Francisco to Buffalo. The canvas used in the manufacture of aprons for the I. H. C. binders, headers, binder-headers and threshers, if made into one apron of standard width would reach from New York City to Dallas, Texas, while the boards made from the 60,000,000 feet



The world's largest farm machine factory, McCormick Works of the International Harvester Company, located within the heart of Industrial Chicago.

of lumber if placed end to end, would form an unbroken board walk all the way from Chicago to Bombay, India, or almost one-half the distance around the world.

Twelve million Chicago machines are at this moment in service in all countries, on every continent. Each year the production of our plants amounts to one million machines. The school children of Chicago are visitors to the huge McCormick plants where they receive first-hand knowledge of Chicago's part in the world's food production and a study of the operations of the various departments is undertaken in the regular course of their education.

Chicago Becomes Air Center of the United States—Mail Plane Headquarters Come to the City

With the government moving its air mail headquarters to Chicago this city became officially the air center of the United States.

This was a logical step as Chicago, because of its location, is destined to be the center of the aviation industry in the future. This is evident from a study of geography and business conditions.

In moving the air mail headquarters to Chicago the government moved the factory in which mail planes are built to this city. The factory was erected on Treasury Department ground near the Speedway Hospital in Maywood at a cost of \$380,000.

The government spent \$72,000 draining the 4,000 acres leased from the Treasury Department, across from the Checkerboard Field, for the landing field. The factory is said to represent an investment of more than \$1,000,000.

New Landing Field—The opening of the first of the Aeronautical Bureau's chain of public landing fields took place recently. The field, one mile square, is located at the junction of Sixty-third Street and Cicero Avenue. It can be reached by three street car lines and by automobile. The Belt railroad, which intersects the property, has arranged for sidings and transportation of freight to the aerodrome.

The field was owned by the Board of Education and has been used by truck farmers. It will be used as a terminal for at least three aerial transportation com-

panies that have communicated with the bureau their desire to establish air lines out of Chicago.

Officials of the bureau expect that at least one internationally known airplane manufacturer will establish a factory adjacent to this field.

Other fields in the plan will include one on the northwest side, the far north side, the southwest side, the far southern manufacturing district, Lincoln Park, and a mile-square \$10,000,000 island field for both sea and land planes, communicating by tunnel with the Loop, opposite the Field Museum in the lake. These fields, according to plans, are all to be self-supporting, and will be in operation in four years.

Chicago Leads in the Production of Musical Instruments—City Has Won Distinction in This Field

Besides being a great producing center of pianos, Chicago leads the world in the manufacture of band instruments and also ranks high as a producer of other orchestral instruments. In fact there is hardly a musical instrument of any kind or description which is not made in Chicago.

In the musical refinement, artistic design, and mechanical improvement of the harp, Chicago has won unique distinction, harps of Chicago origin being now used by all of the foremost orchestras in Europe and known in every part of the civilized world.

The harp, perhaps the noblest of instruments, certainly the richest in historic and romantic associations, has been perfected in Chicago to a degree never before known in the ancient or modern world.

These instruments are all of the highest quality, ranging in price from \$700 to \$10,000, depending on the size of the body and the richness of decoration as well as on excellence of construction. That they should set the standard wherever harps are used, is regarded by musicians as a proud distinction, and considering the antiquity of the harp, a surprising one for a modern city.

Wood and metal are the raw materials that figure most prominently, not only in harps but in the majority of orchestral instruments. Cut strings, glue, varnish, leather, ivory, and celluloid are also among the raw materials used in large quantities.

Chicago as a Baking Center—Wholesale Bakeries Have Output of More Than 5,000,000 Pounds of Bread Per Week

Chicago is the baking center of the country.

Official recognition of the advantages of this city as a center of the industry was given by the American Association of the Baking Industry when that organization, after looking over every American city, decided that Chicago should be the home of their new school to train bakers, and the place where their laboratories should also be located. Both are now in a building at 1135 Fullerton Avenue.

Chicago has the largest and most scientifically equipped bakeries in the world.

Huge Output—A rough estimate places this city's consumption of bread and rolls at about 9,000,000 pounds weekly. This means that the output of the wholesale plants is in excess of 5,000,000 pounds per week.

The Chicago wholesale bakeries not only meet the city's requirements, but several of the largest plants also supply bread to towns within a radius of about 75 miles from the city. Thousands of pounds of bread and rolls are delivered during the night or early morning to towns as far north as Racine and Kenosha, west as far as Wheaton and Aurora, south-east as far as Gary, Indiana, south as far as Kankakee and Champaign, Illinois. A fleet of motor trucks leave the plants at seven in the evening with bread fresh from the ovens and within twelve hours the entire load has been delivered to the surrounding towns in time to be placed upon the breakfast table. Delivery by express is used for the farthest towns, and even these loads arrive in time for breakfast.

1,000,000 Pounds of Cake—About 1,000,000 pounds of cake are produced every week by the wholesale bakeries in addition to their enormous output of bread and rolls. There are about 1,400 little neighborhood bakery shops in the city, each of which does a small daily volume of business on cake, bread and rolls. No figures are available covering their output, but it is estimated to amount to more than two million pounds weekly.

Until the year 1869 Chicago's entire daily supply of bread was produced in the home or in the small neighborhood bakery. In that year the first wholesale

bakery was established in Chicago. During the next twenty years a few other wholesale bakeries followed. One of the largest concerns in this field in Chicago was established in 1890 and had an output of from 12,000 to 15,000 pounds weekly the first year. About 15 years later the output of this company had increased to over 600,000 pounds. Since that date it has doubled. In other words, today the company is producing 1,250,000 pounds of bread and rolls every week. The growth of this bakery is a fairly

World's Fair Week" on the Municipal Pier. They set up over \$1,000,000 worth of the most modern machines, and put them to work turning out every conceivable kind of bakery goods from doughnuts to huge "farm sized" loaves.

Bakers from all over America thronged the Municipal Pier during that week and bought the new machines. Thus will radiate from Chicago a revolutionary influence in the methods of baking that will extend from coast to coast, and will even include Canada, New Zealand and Australia.



The new Federal Reserve Bank Building, corner of LaSalle Street and Jackson Boulevard, recently completed. At the right is shown the building of the Continental and Commercial National Bank, the largest and strongest financial institution of Chicago and among the first four in the U. S.

good indication of the development of the industry in the past fifteen years.

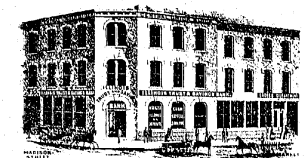
Rapid Growth of Baking Plants—A strange feature of the growth of the large baking plants is that, with a few exceptions, no machine in any of them was even so much as invented fifteen years ago. The big bakers themselves like to call their industry "the newest born babe of Mrs. Machinery." The machine era, which has been born so recently within the industry, brings to an end a "handcraft" era that existed in almost unchanged form from pre-historic days down to a few years ago.

Recently the American Bakers' Association, the Bakery Equipment Manufacturers' Association, the National Retail Bakers' Association, the Pie Bakers' Association, and the Allied Trades of the Baking Industry, all combined in a "Bakers'

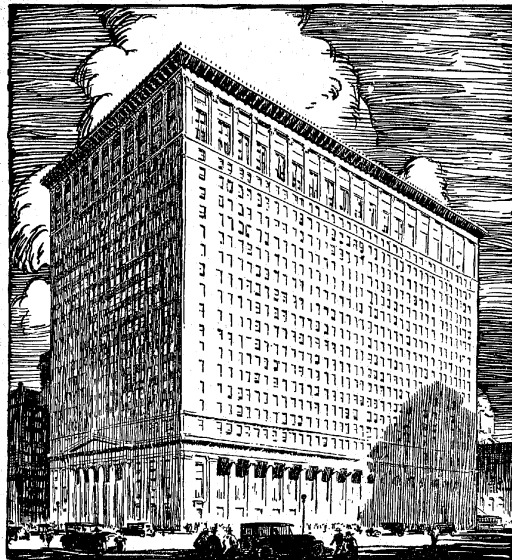
a total of one hundred seventy-one banking institutions within the boundaries of the city. The deposits in both classes of banks amounted in 1922 to \$1,904,006,698, of which the savings bank deposits amounted to \$491,776,193. Loans and discounts were \$1,372,683,179, and the cash resources were \$452,491,830. At the same time, the situation of the Federal Reserve Bank of Chicago showed that member banks had borrowed \$78,273,000 while the reserves with the Federal Reserve Bank of Chicago of one hundred and nine reporting member banks were \$178,394,000. To be sure, the Federal Reserve Bank of Chicago includes much greater territory than merely Chicago and its immediate vicinity, but, nevertheless, most of the strength of the Federal Reserve Bank of Chicago is available for Chicago enterprise.

Relations With Banks All Over The World—Acceptances of Chicago banks are eagerly sought for and a continually increasing volume originates as a result of Chicago business enterprise. Likewise, the larger banks of Chicago are maintaining direct relations with banks in every part of the world and have no difficulty at all in handling, in a manner perfectly satisfactory to their customers, the various transactions which arise as a result of international trade. In connection with the development of international trade, it may be well to note a fact which has been stated many times previously. Today there are really no banking activities which Chicago banks cannot perform as well as New York banks. Probably every Chicago banker has had the experience of being approached by foreign interests who desired to make purchases from Chicago firms and upon inquiry at the head office of the concern situated in Chicago learned that this principle office had no authority to transact foreign business, this all being left to the New York office. As a matter of fact, the larger banks in Chicago have all established within recent years extensive foreign trade departments, which, working in conjunction with the long established foreign exchange departments of these banks, are able to furnish all necessary information regarding foreign markets that can be furnished by banks situated on the seacoast. Since through bills of lading have been re-established, there is little reason left why Chicago business firms should go to New York for banking facilities.

In former days Chicago industries were dependent largely upon eastern capital. Now Chicago has accumulated sufficient



First brick block erected in the burned district after the Chicago fire of 1871. Builders began to remove the debris on October 10th, 1871, and this block was completed and occupied on December 10th, 1871. In its neighborhood the Illinois Trust & Savings Bank, the forerunner of the present Illinois Merchants Bank, occupied this modest building.



New building of the Illinois Merchants Bank, one half of which is now completed and occupied. When completed this will be one of the most pretentious bank structures of the world.

means to finance most of its enterprises among its own people.

La Salle Street is Financial Center of the City—La Salle street is Chicago's financial market. Here are some of the world's mightiest institutions of money and credit—institutions from whose doors pulsates the medium of barter and exchange which drives the wheels of commerce—institutions that vie for world supremacy with Wall street and Threadneedle street.

Here in steel encased vaults is gathered wealth beyond the imaginations of a Croesus. Here on this street is a stock exchange divided in size and importance by only one other in America. Here is a robust clearing house organization founded in the 'ast days of the Civil War.

Here also is the site of the new home of the Seventh Federal Reserve District, indicative of the wealth of the territory which this new structure serves, its vaults are the most commodious of any banking organization anywhere. Distinctive of its kind, the new bank follows the Italian Renaissance style of architecture. It is constructed of Bedford stone without and Italian marble within. The three banking floors are Corinthian in design. Above rises the shaft of the structure fourteen stories high. The building has a frontage and depth of 165 feet and cost \$6,500,000.

Auger Bank Merger to Have New Home—Three of Chicago's biggest banks moved into a new home May 1, 1923. They are the Illinois Trust & Savings Bank, The Merchants Loan and Trust

Company, and the Corn Exchange National Bank.

These three great financial institutions have been united and will occupy what has been called Chicago's most impressive building, located at Clark, Jackson Boulevard and La Salle Streets. The Illinois Trust and the Merchants Loan banks will consolidate physically and operate as the Illinois Merchants Trust Company while the Corn Exchange Bank will have a common interest but will continue its business under its original name and charter.

The new building which these banks will occupy represents some \$10,000,000. The banks themselves will cater to the largest group of depositors in the west. The merging of their interests gives capital, surplus and undivided profits of approximately \$50,000,000. They will handle some 200,000 savings accounts and more than 20,000 commercial accounts.

The new home of these three banks is imposing. It occupies a site of about 59,000 square feet. The building is of Indiana limestone as is the recently completed Federal Reserve Bank across the street from it.

The president of the merged financial institutions is John J. Mitchell. E. A. Hamill is chairman of the Board of the Corn Exchange National Bank. These men serve as directors of each bank. The other directors are:

Henry A. Blair, President, Chicago Surface Lines. Henry A. Blair, Chauncey B. Borland, Manager, Borland Properties.

Clarence A. Burley, Attorney and Capitalist. Edward H. Butler, Chairman, Board of Directors, Butler Bros. Robert W. Campbell, Knapp & Campbell. Benjamin Carpenter, President, Geo. B. Carpenter & Co. Clyde M. Carr, President, Joseph T. Ryerson & Son. Henry H. Crowell, Quaker Oats Co. Marshall Field, Marshall Field, Globe, Ward & Stanley Field, President, Field Museum of Natural History. Frederick T. Haskell, Vice-President, Illinois Trust & Savings Bank. Hale Holden, President, C. B. & Q. R. Co. Marvin Huggitt, Chairman, C. & N. W. Ry. Co. Charles H. Hulburd, President, Elgin National Watch Co. Charles J. Hutchinson, Vice-President. Chauncey Keep, Trustee, Marshall Field Estate. Cyrus H. McCormick, Chairman, International Harvester Company. John S. Runnells, Chairman, Pullman Company. Edward L. Ryerson, Chairman, Joseph T. Ryerson & Son. Martin A. Ryerson. Charles H. Schweppe, Resident Partner, Lee, Higginson & Co. J. Harry Seitz, President, Seitz, Schwab & Co. John G. Shedd, Chairman of Board, Marshall Field & Co. Orson Smith, Chairman of Advisory Committee. James P. Soper, President, Soper Lumber Co. Albert A. Sprague, Chairman, Sprague, Warner & Co. Frank D. Stout, President, Missouri Southern Railroad Co. Edward F. Swift, Vice-President, Swift & Co. Robert J. Thorne. Charles H. Wacker, President, Chicago Heights Land Association.

Chicago Banks Show Gains In Strength—Statements made April 30 show that Chicago banks are in a healthy condition. Great gains are shown in deposits. The following statements are indicative of this fact.

CONTINENTAL AND COMMERCIAL NATIONAL BANK OF CHICAGO

Statements of condition April 3, 1923:

Table with 2 columns: Resource and Amount. Includes Demand Loans, Acceptances, Bonds, U.S. Bonds and Certificates of Indebtedness, Stock of Federal Reserve Bank, Bank Premises (Equity), Customers' Liability on Letters of Credit, Customers' Liability on Acceptances (as per Contract), Overdrafts, Cash and Due from Banks.

Table with 2 columns: Liability and Amount. Includes Capital, Undivided Profits, Reserve for Taxes and Interest, Circulation, Reserve Bank, Liability on Letters of Credit, Liability on Acceptances, Deposits (Individual and Banks).

Table with 2 columns: Officers and Positions. Lists names and titles such as George M. Reynolds, Chairman Bd. of Directors; Arthur Reynolds, President; Herman Waldeck, Vice-President; etc.

DIRECTORS: J. Ogden Armour, Robert T. Lincoln, Alexander F. Banks, Robert H. McElwhee, Claude G. Burnham, R. E. Byrum, Edward F. Carr, William J. Chalmers, Alfred Cowley, John G. Craft, F. W. Croft, Edward A. Cudahy, Bernard A. Eckhart, Milton S. Florsheim, Louis Bokstein, J. Fletcher Farrell, William F. Fisher, Frank Hubbard, Edward Hines, William W. Kelley, D. P. Kelly, David R. Lewis.

CONTINENTAL AND COMMERCIAL TRUST AND SAVINGS BANK STATEMENT OF CONDITION APRIL 3, 1923. Resources: Time Loans, Demand Loans, Bonds and Securities, Cash and Due from Banks. Liabilities: Capital, Surplus, Undivided Profits, Unearned Interest, Reserve for Taxes, Interest and Dividends, Deposits, Demand, Time, Special.

OFFICERS: George M. Reynolds, Chairman Bd. of Directors; Arthur Reynolds, President; John Jay Abbott, Vice-President; John A. Shannon, Cashier; Robert J. Hercock, Asst. Cashier; Albert S. Martin, Asst. Cashier; George Allan, Asst. Cashier; J. S. Macfarland, Asst. Cashier.

BOND DEPARTMENT: Henry C. O'Leary, Vice-President; George W. Pearson, Manager; Walter J. Engle, Asst. Manager; Ray L. Junod, Asst. Manager; George A. Waldorf, Asst. Manager; Louis B. Ferguson, Mgr. of Sales; Ernest D. Sales, Mgr. of Sales. SAVINGS DEPARTMENT: John P. V. Murphy, Asst. Manager; D. Edward Jones, Asst. Manager; John B. Shea, Asst. Manager. DAVID R. LEWIS, Vice-President; William P. Kopf, Secretary; Everett R. McPadden, Asst. Secretary; Edmund Clausen, Asst. Secretary; Kinsey Smith, Asst. Secretary; William H. A. Johnson, Asst. Secretary.

DIRECTORS: J. Ogden Armour, Robert T. Lincoln, Alexander F. Banks, R. E. McElwhee, Edward F. Carr, Thomas J. McNulty, Bernard A. Eckhart, Henry C. O'Leary, William F. Hayes, Arthur Reynolds, George M. Reynolds, D. P. Kelly, Ralph Van Vechten, David R. Lewis, \$187,014,329. Total Resources, \$36,234,325. Invested Capital over, \$5,600,000.

STATE BANK OF CHICAGO STATEMENT OF CONDITION AT CLOSE OF BUSINESS APRIL 3, 1923. Loans and Discounts, U.S. Bonds and Certificates, Other Bonds.

CONDITION OF CHICAGO BANKS AS 1923 BEGINS. Both National and State Institutions Show Increases in Loans and Savings Deposits, with Lower Cash Resources.

Table with 4 columns: Institution, Loans and Discounts, Deposits, Cash Resources. Lists various banks like National, State, All banks, and National Banks.

STATEMENT OF CONDITION AT THIS CLOSE OF BUSINESS APRIL 3, 1923. Resources: Time Loans, Demand Loans, Bonds and Securities, Cash and Due from Banks. Liabilities: Capital, Surplus, Undivided Profits, Unearned Interest, Reserve for Taxes, Interest and Dividends, Deposits, Demand, Time, Special.

OFFICERS: Leroy A. Goddard, Chairman of the Board; Henry A. Haugan, President; Oscar H. Haugan, Vice-President; Edward Carlson, Vice-President; Walter J. Cox, Vice-President; Amin J. Lindstrom, Vice-President; Samuel B. Knight, Secretary; William C. Miller, Trust Officer; Frank Packard, Assistant Cashier; Gaylord S. Morse, Assistant Cashier; Joseph F. Notholt, Assistant Cashier; Frank W. Deives, Assistant Cashier; Edward L. Jarl, Assistant Cashier; Paul C. Mollander, Assistant Cashier; John D. Campbell, Assistant Secretary.

BOARD OF DIRECTORS: David N. Barker, A. Laquet, J. J. Deu, Wm. A. Peterson, John N. Dole, Charles Pieg, Henry A. Haugan, Leroy A. Goddard, Oscar H. Haugan, Philip R. Wrigley.

UNION TRUST COMPANY STATEMENT OF CONDITION AT THIS CLOSE OF BUSINESS APRIL 3, 1923. Resources: Loan and Discounts, Overdrafts, Bank Acceptances, Customers' Liability on Letters of Credit, Bonds and Stocks, Federal Reserve Bank Stock, U.S. Government Securities, Cash on Hand and Due from Banks. Liabilities: Capital, Surplus, Undivided Profits, Depreciation, Taxes, etc., Liability on Customers' Acceptances, Liabilities under Letters of Credit, Endorsed Bank Acceptances, Deposits.

DIRECTORS: William R. Abbott, President, Illinois Bell Telephone Co.; Frank C. Caldwell, President, Oak Park Trust & Savings Bank; Richard J. Collins, The Pulton Street Wholesale Market Company; Richmond Dean, Vice-President, The Pullman Car Company; Howard Eiting, President, Heath & Milligan Manufacturing Co.; Charles K. Foster, Vice-President, American Radiator Co.; Hale Holden, President, Chicago, Burlington & Quincy R. R. Co.; Marvin Huggitt, Jr., Vice-President, Chicago & Northwestern Railway Co.; George B. Jones, President, Armour Grain Co.; Benjamin H. Marshall, Marshall & Fox; George A. Ranney, Vice-President and Treasurer, Chicago Iron Harvesting Co.

BOND DEPARTMENT: Bowman C. Linslee, Vice-President; Chester Coyne, Vice-President; Harry H. Jones, Vice-President; Frank McNair, Vice-President; G. Bell, Bond Sales Manager; E. B. Hall, Bond Sales Manager; E. A. Shroyer, Asst. Bond Sales Manager; Duncan M. Rowles, Asst. Bond Sales Manager; Walter L. Endson, Asst. Bond Sales Manager; Donald C. Miller, Asst. Manager Municipal Dept.

TRUST DEPARTMENT: M. Haddock, Vice-President; Harry A. Dow, Secretary; Rollo S. Pribble, Assistant Secretary; Walter E. Coon, Assistant Secretary; Harold Eckhart, Assistant Secretary; James O'Connor, Assistant Secretary; Chester A. Bush, Assistant Secretary.

Table with 4 columns: Institution, Loans and Discounts, Deposits, Cash Resources. Lists various banks like National, State, All banks, and National Banks.

George G. Thorp, Vice-President, Illinois Steel Co.; Frederick L. Wink, Formerly Vice-President, Union Trust Co.; Craig B. Hatwood, Vice-President, Union Trust Co.; Charles R. Holden, Vice-President, Union Trust Co.; Harry A. Wheeler, Vice-President, Union Trust Co.; Frederick H. Rawson, President, Union Trust Co.

HARRIS TRUST & SAVINGS BANK STATEMENT OF CONDITION AT THIS CLOSE OF BUSINESS APRIL 3, 1923

Table with 2 columns: Resources and Amount. Includes U.S. Government Bonds and Certificates, Other Bonds, Demand Loans, Time Loans, Federal Reserve Bank Stock, Customers' Liability and Acceptances and Letters of Credit, Cash and Due from Banks. Liabilities: Capital, Surplus, Undivided Profits, Discount Collected but Not Earned, Unearned Dividends, Reserve for Taxes, Interest, Etc., Liability on Acceptances, Demand Deposits, Special Deposits, Time Deposits.

DIRECTORS: R. A. Eckhart, Pres. R. A. Eckhart Building Co.; Frank R. Elliott, Vice-President; Howard W. Fenton, Vice-President; Allen B. Forbes, Harris Forbes Co.; Albert E. Harris, Chairman of the Board; Ford F. Harvey, Vice-President.

Pres. Fred Harvey, Inc., Kansas City; John R. Lord, The Ayer & Lord Tire Co.; John R. Macdonald, Harris, Forbes & Co.; Charles H. Morgan, Harris, Forbes & Co.; George E. Scott, V. P. Am Steel Foundries; William W. Sibley, V. P. Western Pipe Co.; Harold H. Swift, Vice-Pres. Swift & Co.; Ward W. Williams, Harris, Forbes & Co.

OFFICERS AND MANAGERS: Albert W. Harris, Chairman of the Board; Howard W. Fenton, Vice-President; Frank R. Elliott, Vice-President; Robert W. Fenton, Vice-President; John S. Brooksemit, Vice-President; Gilbert H. A. Koch, Treasurer; Harry A. Brinkman, Assistant Cashier; Max C. Fisher, Assistant Cashier; Charles G. Fisher, Assistant Cashier; James C. Craig, Assistant Cashier; Clifton P. Walker, Assistant Cashier; James O'Connor, Assistant Cashier; Chester A. Bush, Assistant Cashier.

BOND DEPARTMENT: Bowman C. Linslee, Vice-President; Chester Coyne, Vice-President; Harry H. Jones, Vice-President; Frank McNair, Vice-President; G. Bell, Bond Sales Manager; E. B. Hall, Bond Sales Manager; E. A. Shroyer, Asst. Bond Sales Manager; Duncan M. Rowles, Asst. Bond Sales Manager; Walter L. Endson, Asst. Bond Sales Manager; Donald C. Miller, Asst. Manager Municipal Dept.

TRUST DEPARTMENT: M. Haddock, Vice-President; Harry A. Dow, Secretary; Rollo S. Pribble, Assistant Secretary; Walter E. Coon, Assistant Secretary; Harold Eckhart, Assistant Secretary; James O'Connor, Assistant Secretary; Chester A. Bush, Assistant Secretary.

Table with 4 columns: Institution, Loans and Discounts, Deposits, Cash Resources. Lists various banks like National, State, All banks, and National Banks.

CHICAGO—THE GREAT CENTRAL MARKET

Table with columns: LOANS AND DISCOUNTS, DEPOSITS, CASH RESOURCES, SAVINGS DEPOSITS. Rows include various banks and financial institutions with their respective values for different periods.

STATE BANKS

Table with columns: LOANS AND DISCOUNTS, DEPOSITS, CASH RESOURCES, SAVINGS DEPOSITS. Rows list various state banks such as Adams State, Aetna State, American State, etc., with their financial data.

CHICAGO—THE GREAT CENTRAL MARKET

Table with columns: LOANS AND DISCOUNTS, DEPOSITS, CASH RESOURCES, SAVINGS DEPOSITS. Rows include various banks and financial institutions with their respective values for different periods.

Chicago is a Great Butter Center—Millions of Pounds Handled Annually

Chicago ranks as the first city of the world when it comes to the wholesale distribution of butter as produce merchants in this city receive and sell more than 150,000,000 pounds of this product annually. Some of the butter which comes through Chicago even reaches Europe when occasion demands.

Chicago's receipts of creamery butter for 1921 are estimated at 2,550,106 tubs of 60 pounds each or 153,000,000 pounds. According to the figures of the United States Department of Agriculture, 1,054,938,000 pounds of creamery butter were produced in 1921. This means that of the country's total production of creamery butter about 15 per cent is sold from Chicago.

Butter is to a large extent a seasonal product. A considerable amount of the whole must be conserved during the season of heavy production to take care of the demand in the season of scarcity. Chicago has the finest and most extensive storage facilities in the world. Her present storage holdings of butter are in excess of 28,000,000 pounds, almost as much as the total holdings of New York City and Boston combined.

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bring about co-operation among the Chicago produce merchants in their relation to outside markets.

The Chicago Mercantile Exchange has today 500 individual members. On its organization a little over two years ago, membership sold at \$100, whereas on June first of this year memberships were selling at \$500, and during the past month, the board of directors decided that no membership should be sold in the future for less than \$1,500 each. The Exchange, which occupied a trading floor of some 1,700 square feet when first organized, has just purchased the corner of Washington and Franklin Streets, 100 by 180 feet, and is planning to erect a 20 to 22 story building which will not only house the Chicago Mercantile Exchange, but will provide office space for a large number of its members.

Selling Methods—The selling of butter and eggs has been revolutionized by the method of future trading inaugurated by the Exchange. Trading in futures has necessitated the standardization of classifications and grades and has been the means of stabilizing prices, a thing never accomplished before. Under this method, selling is based on the daily expression of the opinion of the entire country as to the value of the commodities handled.

The old Butter and Egg Board held daily spot calls. Under the Chicago Mercantile Exchange spot calls are held as formerly, but the trading in futures, with the clearing house to handle all future transactions, has become a big feature of the work. Trading is done on the floor of the Exchange. Every offering and bid is posted on the blackboard, the transaction thus becoming a public auction. Every trade is recorded. Margins are deposited by both buyer and seller, which insures the consummation of the trade, for when the margins are deposited the clearing house

of the Exchange guarantees the consumption of each purchase. Before future trading was inaugurated on the Chicago Mercantile Exchange, actual values were practically unknown for the great supply of butter and eggs stored during the season of plenty to take care of the period of scarcity. These vast food supplies lay dormant until the time of the year arrived when they were needed for consumption. Under the Exchange's future trading system, these reserves of goods are sold at every daily session of the Exchange. Anyone who wishes to buy for his future requirements can do so at the market prices of that day, and anyone who wishes to unload has a daily market at which he can dispose of the amount he has to sell at the prevailing market price.

Under future trading, during the past year, the Exchange transacted a volume of business on butter and eggs in excess of \$248,000,000.

Chicago's Creameries—A consideration of Chicago as a great butter market and storage center naturally gives rise to the question of what amount of butter is produced in Chicago. In this connection it must be borne in mind that Chicago with its 3,000,000 population requires an enormous quantity of fluid milk. This supply of milk has to be drawn from a territory 50 to 100 miles outside of the city which makes the manufacture of butter on any very wide scale practically impossible. However, Chicago has several large creameries, the combined output of which is about 12,000,000 pounds annually. To this figure must be added the butter produced in lesser amounts by hundreds of other smaller dairies which make up their surplus cream and which also manufacture a considerable additional amount of butter for their own consumers.

Chicago is a Candle Manufacturing Center—Millions of Them Made Every Year

The Chicago district is a great candle manufacturing center.

One of the two largest candle factories in the world is in this region making the city a distributing center for this product. And it is an all year round industry.

As high a proportion as 88,000,000 of a total output of 150,000,000 candles made in this one factory in 1920, were Christmas candles. Other special candles are made for Easter, for Candlemas Day, for Vespers and other religious services, to say nothing of all the varied industrial and decorative uses to which candles are now put. The industry is both picturesque and interesting, as well as highly important to the success of the holiday season.

Market for Hand Painted Candles—Chicago is the great western market through which hand-painted candles are distributed. Chicago, herself, has 595 Roman Catholic churches and ecclesiastical institutions, using many candles for various rites. Chief of these is the great white Easter candle, decorated in gold and measuring from 34 inches to 6 feet in height. These candles are lighted at noon on the Saturday before Easter and burned every Sunday thereafter until Pentecost. Similar candles, also decorated with symbols of the resurrection, are used in the burial service. Candlemas day, which comes in February, employs, next to Christmas, the greatest number of candles of any one day in the year.

Chicago Candy Sales More Than \$50,000,000 a Year—Industry Has Grown in Remarkable Manner

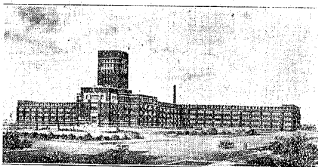
With sales that average fully \$50,000,000 annually, Chicago is well in the lead as the center for distribution of candy throughout the central west.

The production of this amount of candy necessitates a large number of well equipped factories, and with these Chicago is amply supplied. A conservative estimate places the investment in candy plants in Chicago at more than \$25,000,000. This figure refers merely to the factories and not to the capitalization of the companies, some of which have other interests.

The Chicago factories use about 300,000 pounds of almonds annually and from 200 to 300 carloads of peanuts. The consumption of sugar by local candy plants is in the vicinity of 5,000 carloads a year, or about 200,000 tons. Great amounts of chocolate are used but the amount consumed cannot be estimated, according to experts, because many of the big plants grind their own supply of chocolate beans.

City Has 1,400 Retailers—Chicago is also in a strong position with reference to retail sales of candy, as there are 1,400 retailers in the city. Illinois has 3,000 retailers and the United States has 40,000. Some of the retail stores are unusually fine establishments and a few of them have interesting histories, which date back to the early days of the industry.

The pioneers who established themselves in Chicago half a century ago started both wholesale and retail establishments, so the histories of the two were closely interwoven for a time. One of the pioneer Chicago candy men, C. F. Gunther, is credited with being the first manufacturer in the United States to advertise candy in a national way. Another pioneer, John Kranz, who was an expert confectioner, was the first to introduce many kinds of candy in the west, all of which was made according to the best practices known at that time.



Dante Brothers Candy Factory, set in beautiful surroundings at 3301-59 Franklin Boulevard

The offices of the National Confectioners' Association is in Chicago.

Chicago a Great Producer and Consumer of Cement—City is Headquarters for Cement Association

In the cement industry Chicago holds a most important position. It is here that the headquarters of the Portland Cement Association are located—an organization that has 25 district offices throughout the United States and Canada. And at Lewis Institute, Madison and Robey streets, the Structural Materials Research Laboratory is maintained, jointly by the Institute and the Cement Association. Information furnished by these institutions, regarding the proper uses of cement and concrete, is disseminated throughout the entire world.

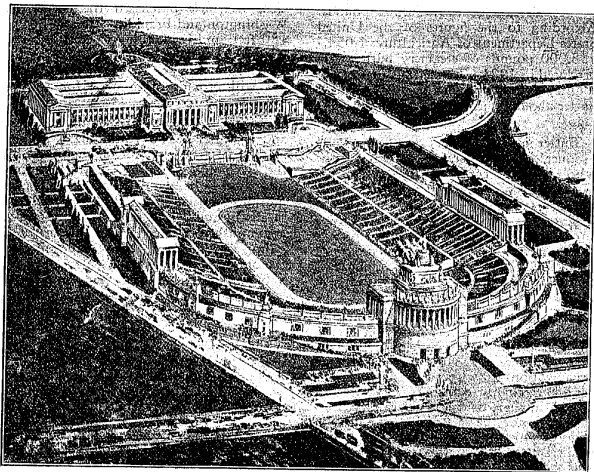
The laboratory is the largest of its kind in existence.

The function of the Portland Cement Association is to extend and improve the uses of concrete. At the Chicago headquarters in the Conway Building, experienced engineers are constantly at work outlining plans that will assist the cement user in getting maximum results. Hundreds of thousands of booklets and bulletins are sent out every year from this office to cement consumers. From the various district offices, fieldmen establish personal contact with the public in bringing home to them the most approved methods of concrete practice.

At Lewis Institute thousands of tests are made to bring out facts regarding the use of concrete. The results of these tests are made known all over the world, and the laboratory is a recognized center of authority on matters pertaining to cement and concrete. The cement manufacturers of the country spend approximately \$90,000 a year for the upkeep of this laboratory.

Big Plants In Chicago Area—Within a radius of 100 miles of Chicago there are five cement plants. At Buffington Ind., just across the state line, is located the plant of the Universal Portland Cement Company. At La Salle, Ill., is the plant of the Alpha Portland Cement Company. The Lehigh Cement Company and the Marquette Cement Manufacturing Company are located at Oglesby, a few miles from La Salle, while the Sandusky Portland Cement Company has a plant at Dixon, Ill.

As cement consumers, Illinois people are well up in the list, as local consumption is approximately one barrel per capita per year. Just what people are doing with their barrel of cement is appar-



Stadium in Grant Park as it will appear when completed. The stadium will be municipally controlled and one of the finest and largest in the world. The new Field Museum shows in the rear.

ent to even the most casual observer. For example, Illinois at present has the equivalent of 2,450 miles of 18-foot concrete pavement. The state highway system is recognized as one of the best in the country, and highway engineers from various other states have inspected it to obtain information pertaining to road construction. The Bates Experimental Road, near Springfield, established by the State Highway Department, has furnished data of inestimable value to the highway world.

Chicago's Consumption of Cement—Hundreds of thousands of barrels of cement have gone into industrial buildings and railroad improvements in Chicago. In the Pennsylvania Terminal 60,000 barrels of cement were used for the building alone. Underneath the loop section of the city the freight tunnel system demanded 160,000 barrels of cement. The street car lines in the downtown section have been laid on cement base in practically every instance.

The new stadium in Grant Park, which will be one of the finest in the country, will require approximately 50,000 barrels of cement. A low estimate places the cement requirements of the new Union Station project at well over a quarter of a million barrels. Thousands of barrels have been used in the Northwestern Station and in the various railroad and elevated embankments and viaducts in the city.

The Commonwealth Edison Company has used approximately 15,000,000 feet of concrete cable conduit in the Chicago territory. Out in Washington Park the adaptability of cement has recently been demonstrated by its use in the Fountain of Time group, created by Lorado Taft. Numerous big buildings are being constructed with concrete columns and floors and concrete trimstone is becoming more and more popular.

In the Chicago sidewalk system, well over three million barrels of cement have been used. The tunnels under the Chicago river have all been lined with concrete. Lighting standards and street pavements, safety islands and bridge abutments have all required cement for their construction.

The Sanitary District of Chicago has used monolithic concrete in the construction of sewers, from 6 to 23 feet in diameter, almost exclusively for the last eight or ten years. In the Bubbly Creek project a sewer 27 feet in diameter, constructed of monolithic concrete, is under way.

In small house construction throughout Chicago, concrete foundations and basement floors have been used widely. The Drake Hotel has concrete floors. Numerous houses have been covered with cement tile shingles. Into practically every construction project in the city, cement has entered in some form or other.

Chicago-Made Men's Clothing Sold Everywhere—Many Nationally Advertised Brands Made in This City

Chicago is the recognized center for the men's clothing industry of the country. The largest men's clothing manufacturing house in the United States, the second largest and third are all in Chicago.

The lines manufactured by these and the other large houses are well advertised and are recognized as leaders which are to be found in clothing stores throughout the country. It requires only a casual look through the advertising columns of periodicals of national circulation to realize that Chicago is in the forefront in the clothing industry.

More Factories Built—A Chicago firm engaged in making men's clothes, already very large and internationally known, has recently built five new factories, each factory employing 1,500 to 3,000 workers, and this is a field in which Chicago already led the world. Other clothing concerns here have been making noteworthy growth and the number of wage earners employed, between 30,000 and 35,000 in 1914, is now estimated at 45,000 or more. According to the census of 1914 there were 563 establishments listed as engaged in this industry and their output amounted to \$84,339,611. Without any increase of production whatever, the yearly output of the same factories at the prices prevailing would represent in the neighborhood of \$200,000,000. Though the number of establishments has grown less, the average size is much increased and the actual output, those who know best declare, is about \$300,000,000 a year.

Among the industries of the Chicago area not more than three or four exceed these figures. They are not approached by any other center for the making of men's clothes except New York and in better grades of goods Chicago has no rival. The largest clothing factory in the world is here.

Leadership Is Secure—Chicago seems secure in its leadership as a manufacturing center. While years ago some other centers were specializing on cheaper production, Chicago gave its emphasis to high-quality goods. It attracted and trained the workers, established the buying and selling methods, and built up the reputation that is peculiar to quality production. Now the rigid requirements of the Amalgamated Garment Workers' Association and the increasing demand of the public for high grade goods have forced the standard upward in all quarters alike. It is no longer possible to cheapen the labor element of cost in anything like the old degree and applying high labor costs to inferior goods is not economical. Chicago is better developed than any other center to succeed under these new conditions. For national distribution, too, the geographic position of Chicago is most advantageous.

It was in Chicago that the clothing trade was developed from the "sweatshop" stage to a position where its employees are as well paid and as well cared for as those in any other industry. Formerly this was one of the poorest of the great industries, as regards conditions affecting employees; now it is one of the best.

Another notable change in the clothing industry is that the buyer, as a rule, now comes to the market himself, instead of waiting for the salesman to call upon him at his store. In this way he is enabled to see the full line that is on sale and can make selections to much better advantage than he could from what the salesmen can show him. As it is often necessary to get certain styles on sale quickly many retail-

ers have found it to their advantage to visit headquarters, instead of waiting until the salesman can reach them. The result has been that during the buying season great numbers of buyers have registered at the Chicago hotels.

One great change that has taken place has been the giving up of the contract system. Under this system, which prevailed for many years, the cloth was cut by the manufacturer and sent out to a petty contractor under whose direction the garments were made up in poorly ventilated lofts where the underpaid employes usually worked in unhealthy surroundings. Sometimes they did the work in their own homes.

Chicago Manufacturers Take Lead—Chicago manufacturers took the lead to an improvement of standards and of general conditions in the industry. Conditions are now standardized and no home work is permitted. Buildings in which the work is done are well lighted and finely equipped. The result has been that retailers everywhere have recognized the high class of clothing sent out from Chicago. The standards are such that it costs almost as much to send out an inferior suit as it does to furnish a good one, hence the main incentive for supplying cheap clothing has been removed.

In normal times large amounts of clothing are exported from Chicago. Foreigners, as well as merchants throughout the United States, have found that the well advertised lines furnished by Chicago houses, such as Hart, Schaffner & Marx and the House of Kuppenheimer, are easy to sell and they are eager to handle Chicago made clothes.

Chicago and Coal

Coal selling concerns, producers and wholesalers, located in the city of Chicago sell approximately one-fifth of the total coal production of the United States.

The extent of the Chicago market is perhaps most accurately shown by the statistics of the Fuel Administration. During the coal year, from April 1, 1918, to March 31, 1919, the producing and wholesale companies having headquarters in Chicago, handled through previously established and existing agencies the distribution of something over 20 per cent of the total coal production of the United States for that year. The reason for the slightly larger than normal distribution during that twelve months period arose from the abnormally large provision of railroad fuel coal.

There are approximately 125 producing concerns, operating mines in 10 states, that have their headquarters and general sales offices in Chicago. There are 100 wholesale concerns in the city of Chicago, selling the product of producing coal companies from all sections of the United States.

The number of coal selling concerns in Chicago is estimated to be three times as great as that of any other coal market in the world.

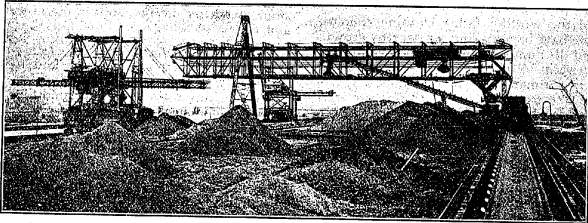
Chicago Switching District Consumes Large Amount of Coal—The center of population for the United States is only about 150 miles south and 25 miles east of Chicago. The center of population of the miners of the country (exclusive of

metal miners) is located directly south of Springfield, Ill.

Within the Chicago switching district alone more coal is consumed annually than in all of the New England states.

More coal also is consumed in the switching district of Chicago than in all of New York state, including Greater New York.

According to the statistical data of the United States Fuel Administration covering the one year period, April 1, 1918, to March 31, 1919, during which time there was maximum coal movement from



Gigantic material handling machinery. A striking view of a huge crane belt conveyor system. The cranes move on railroad tracks built for them. The buckets pick up coal and put it on belt conveyors which carry it to the factory. One of the big belt conveyors is at the right.

all mines and fields throughout the country, it is shown that the following amount of bituminous and anthracite coal, in net tons, moved into:

| | |
|--------------------------------------|-----------------|
| New York | 21,116,000 tons |
| New England | 20,630,000 tons |
| Total | 41,746,000 tons |
| Anthracite (into both those markets) | 23,000,000 tons |
| Grand total | 64,746,000 tons |

The division of the above tonnage of anthracite is about equal as between New York State and New England.

Chicago coal consumption, however, is only about one-third of the total tonnage sold by Chicago concerns.

From Illinois and Indiana alone the average coal production for the last five years has been about 105,000,000 tons.

Approximately 65 per cent of this tonnage is sold by coal producing or wholesale concerns located in the city of Chicago—68,500,000 tons.

Chicago the Center of Distribution.—In addition to this there is an average of

7,500,000 tons of coal originating in various eastern fields sold by representatives in Chicago for movement all rail to points outside of Chicago, southwest, west and northwest—the greater bulk of this coal going into Michigan, Wisconsin, Iowa and Illinois. There is also about 1,500,000 tons of coal from Virginia, central Pennsylvania, western Kentucky and Arkansas as well as other remote districts, that is sold by various producing Chicago concerns who act as representatives in this market for general western distribution. Besides general steam use, much of this

is a substantial quantity of eastern coal reaching this market that is made into by-product and metallurgical coke and mostly used by the industries originally receiving the coal. No account is taken of such coke in this statement. Neither is any account taken herein of the volume of gas house coke distributed throughout the central west states, in determining the volume of the Chicago market, since the coal from which such coke was made is shown in our general movement from eastern and local fields.

It is not surprising that Chicago is the largest coal market in the world. It is made so by the wide variety and great range of origin of coal sold in and through this market to an enormous manufacturing area reaching 400 miles up and down the Mississippi-Missouri River Valley.

Taking only the five major states into which Chicago coal concerns move the great majority of coal used, a few figures given in the accompanying table and taken from the last general United States census will indicate the tremendous industrial consumption potential.

Illinois Mines Big Producers—It should be borne in mind that approximately 25 per cent of the total bituminous coal used for household consumption in the United States is produced by Illinois mines. This due to the growing restriction of anthracite distribution to markets nearest to the anthracite mines and to the further fact that many Illinois coal operators several years since adopted a precise duplication of coal sold originates in Illinois and Indiana, but of the 17 companies, three operate mines in several other states and sell, from their Chicago headquarters, the entire production of these remote mines so operated.

Coal originating in other fields than Illinois and Indiana and distributed by the foregoing and various other smaller sales concerns located in Chicago, for movement to eastern, western and southern markets as well as some coal for bunkering and export, amounts to about 10,000,000 tons per year.

The Coke Business—The quantity of coke originating in other sections and sold by Chicago concerns in Chicago and other west and northwest districts is variously estimated at from 2,500,000 to 3,000,000 tons per annum. These figures however, are minimum. No satisfactory statistical information is available on coke. These

is its central location and the extraordinary radiation of transportation facilities. Forty per cent of the railway mileage in the United States terminates in Chicago. One thousand four hundred miles of belt lines—one-third of the belt line mileage in the United States—encircle Chicago. Thirty-nine steam railroads are located or centered in Chicago. Of these roads twenty-four are trunk lines, seven of whose total freight traffic is fifty per cent coal tonnage.

Reasons for Chicago's Pre-eminence—Chief among other prime reasons for the pre-eminence of Chicago as a coal market is its central location and the extraordinary radiation of transportation facilities. Forty per cent of the railway mileage in the United States terminates in Chicago. One thousand four hundred miles of belt lines—one-third of the belt line mileage in the United States—encircle Chicago. Thirty-nine steam railroads are located or centered in Chicago. Of these roads twenty-four are trunk lines, seven of whose total freight traffic is fifty per cent coal tonnage.

Chicago has more than 100 railway yards for the efficient receipt, transfer and despatch of freight shipments. One of these, Clearing Yards, has a daily capacity of 10,000 freight cars.

Chicago is the economical, geographical and transportation center of the continent. It is the metropolis for the largest agricultural center of the United States. Illinois is the third largest in the United States for manufacturing industries. Fifty million people live within one night's ride. It is the focus of the country's primary facilities for industrial activity, having unusual and unimpeded access to raw materials, transportation, power, labor, factory sites and markets.

Chicago proper is approximately 25 miles long by 8 miles wide, with an area of 200 square miles. In what is known as

shipments was prodigious. No other city could have handled them.

Figures Reveal Great Storage Space

| | Pounds. |
|-----------------------|------------|
| Beef | 27,169,672 |
| Mutton and lamb | 1,543,615 |
| Pork | 25,126,809 |
| Fish | 8,534,973 |
| Chickens | 2,178,837 |
| Turkeys | 307,939 |
| Miscellaneous poultry | 927,020 |
| Game | 84,801 |
| Eggs (shell) Cases | 1,288,354 |
| Butter, creamery | 6,335,368 |
| Butter, packing stock | 25,163,375 |
| Apples (barrels) | 47,507 |
| Apples (boxes) | 10,331 |

The supply of apples in storage has increased greatly since these figures were compiled.

Chicago as a Convention Center—Attractions of City Lure Many Thousands to Conventions

Chicago is the natural and actual convention center of the United States.

It is the natural center because of its location, practically in the center of all human activity of the country. Chicago is the center of a population of fifty million people living within an overnight ride, and it is a notable fact that more people can board a train at their home town and arrive in Chicago without change of train than can so travel to any other city.

A proof of Chicago's position is in the fact that more than 700 conventions together with hundreds of small group meetings are held in Chicago every year.

The determining factors in establishing Chicago in its position as a convention city are: first, its central location, and, second, the utmost of comfort available at all times for visitors.

These factors have resulted in securing from 100 to 200 per cent greater attendance at Chicago's conventions than is se-

cured when such are held at any place which is not so centrally located, or which does not have the facilities for providing for the comfort of visitors.

The number of conventions held in Chicago and the yearly attendance for the years 1906 to 1922, is shown in the sub-joined table.

| Year | Conventions | Attendance |
|------|-------------|------------|
| 1906 | 201 | 165,000 |
| 1907 | 254 | 275,000 |
| 1908 | 270 | 350,000 |
| 1909 | 245 | 200,000 |
| 1910 | 305 | 380,000 |
| 1911 | 310 | 244,000 |
| 1912 | 323 | 300,000 |
| 1913 | 330 | 300,000 |
| 1914 | 444 | 350,000 |
| 1915 | 475 | 400,000 |
| 1916 | 550 | 500,000 |
| 1917 | 610 | 520,000 |
| 1918 | 660 | 405,000 |
| 1919 | 675 | 525,000 |
| 1920 | 700 | 650,000 |
| 1921 | 710 | 675,000 |
| 1922 | 743 | 678,000 |

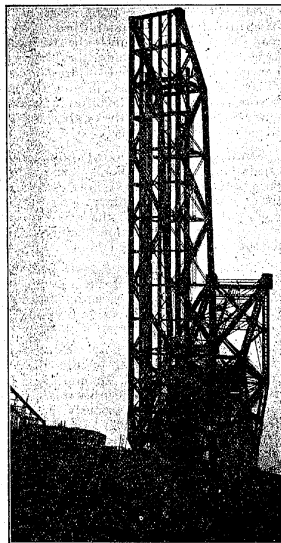
Hotel Accommodations Are Extensive

Chicago's hotel accommodations are so extensive that they afford the utmost of comfort and convenience at conventions regardless of the number of people that they bring.

Development of every kind is so extensive that special arrangements to accommodate conventions are unnecessary, and advance notice of convention dates is not required to insure individual comfort.

There is such a diversity of human activity in Chicago that there is found a replica of practically every conceivable human problem, be it manufacturing, educational, sociological, medical, mercantile or financial.

Conventions meeting in Chicago find many persons similarly engaged and interested in their coming and interested in their calling. Nowhere is there more extensive opportunity for observations for human activity in every avenue of life than is found in this city.



The world's largest single span lift bridge which spans the Chicago river at 12th Street and the Illinois Central Railroad. This bridge has a span of over 800 feet and its balance weight weighs more than one million pounds.

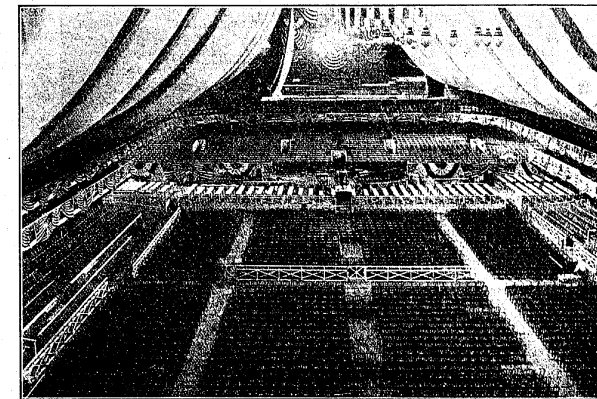
the Chicago Switching District, which, roughly outlined, extends from Gary, Ind., west about 14 miles and north to the level of Waukegan, Ill., there is an area of approximately 500 square miles.

Chicago is Greatest Cold Storage Center—Huge Sums of Money Invested in These Plants

Chicago is the greatest cold storage center in the world. More money is invested here in such plants, and there is more cold storage space in Chicago than in any other city. Foodstuffs stored here are gathered from and are sent to all parts of the world.

The amount invested in Chicago cold storage plants is in the vicinity of \$100,000,000. These plants have a capacity of 65,000,000 cubic feet and fully 3,900,000,000 pounds of foodstuffs are stored every year. The value of such foodstuffs is estimated at \$1,170,000,000. The figures for the value of the products handled are for the public cold storage warehouses and do not include the great plants owned by the packing houses. A single plant will often contain foodstuffs valued at \$15,000,000.

The value to the nation of these cold storage facilities was amply demonstrated during the war, when Chicago was given credit for "feeding the world." Not only the armies of the United States and the Allies drew their food supplies from Chicago, but the civilian population of the countries that joined hands in the fighting were fed, as well. During a considerable period a trainload of meat products left Chicago every hour. The total of such



A remarkable photograph of the interior of the grand Coliseum just prior to when it housed a Republican National Convention. Notice how the chairs are arranged for the seating of the delegates and guests for the event.

CHICAGO COAL CONSUMPTION—CHICAGO SWITCHING DISTRICT

| | 1914 | 1915 | 1916 | 1917 | 1918 | 1919 |
|---------------------------|------------|------------|------------|------------|------------|------------|
| Illinois | 10,715,172 | 8,353,836 | 9,983,231 | 11,722,911 | 16,311,326 | 16,132,227 |
| Indiana | 4,850,096 | 3,496,096 | 5,027,305 | 5,667,962 | 5,505,442 | 6,826,780 |
| Totals | 15,125,268 | 11,850,442 | 14,990,536 | 17,390,873 | 21,820,678 | 23,039,017 |
| Ohio | 241,028 | 275,247 | 285,222 | 448,826 | ..... | ..... |
| Pittsburgh | 307,285 | 128,875 | 52,108 | ..... | ..... | ..... |
| R. Ky. and Penn. | 261,088 | 1,738,915 | 2,513,400 | ..... | ..... | ..... |
| W. Va. (Split and Gas) | 485,413 | 463,162 | 602,731 | 1,701,933 | ..... | ..... |
| Smoketons (Pocahontas) | 5,389,819 | 5,389,819 | 5,941,830 | 5,433,748 | 16,500,000 | 16,500,000 |
| (Eastern, by boat (Ill.)) | 500,396 | 375,429 | 375,032 | 330,677 | ..... | ..... |
| Miscellaneous | 1,200,000 | 1,200,000 | 1,300,000 | 1,600,000 | 1,750,000 | 1,500,000 |
| Totals | 7,968,394 | 9,217,447 | 10,669,412 | 8,886,153 | 7,350,000 | 6,000,000 |
| Anthracite (all rail) | 1,700,000 | 1,700,000 | 1,700,000 | 1,700,000 | 1,700,000 | 1,700,000 |
| Anthracite (by boat) | 862,081 | 831,761 | 675,998 | 626,466 | 875,000 | 800,000 |
| Totals | 1,552,081 | 1,531,761 | 1,369,998 | 1,286,466 | 1,700,000 | 1,600,000 |
| Coke (est.—see text) | ..... | ..... | ..... | ..... | ..... | 2,500,000 |
| Grand total | 23,745,743 | 22,684,650 | 29,959,946 | 27,512,491 | 39,820,678 | 33,139,017 |

Estimated—no exact figures available since 1917 on Eastern and Miscellaneous bituminous coals which were zoned out of this district during the war period and came through in limited amounts only on special permit. It is probable that the approximate normal movement of these 3,000,000 tons per annum will now equal the four-year average of 1914 to 1917 as a minimum, or about 3,000,000 tons per annum.

A correct estimate of total Chicago coal consumption would therefore be, for present normal years, 36,000,000 tons.

Chicago conventions secure greater distribution of representation than meetings held further from the center of the country and last but not least, Chicago is noted throughout the country for the genuine hospitality which its citizens extend to conventions in which they have an individual interest, and to many other conventions in which they have put a general interest.

Chicago's attractions for the visit, for the men and women who come to the city

the entire country, no other big city offers so many interesting summer diversions.

Bathing—Along Chicago's 23 miles of Lake Shore is located an almost unbroken array of bathing beaches—some of them among the finest in the world. Clarendon Beach, one of the largest and finest in the city has had as many as 35,000 people in bathing in one day. Among the thirteen larger beaches and countless smaller ones are Wilson, Clarendon and Diversey on

Baseball—Chicago's prominence as a baseball center is well established. Two major league baseball clubs—the American League on the South Side, the National League on the North Side—afford lovers of the "national pastime" an unusual opportunity to view their favorites in action. One, and frequently both, of these league teams is always "at home".

Military and Naval Reservations—Located along the north shore—a short distance outside the city—is Fort Sheridan, the United States military reservation; while at Great Lakes is the new United States naval training station, the finest and most completely equipped in the world.

Hotels—Hotel facilities are ample, whether in the heart of the city or in the beautiful outlying residential districts. Every whim and every purse can be suited satisfactorily.

Public Buildings—Many features of educational and cultural interest distinguish Chicago and make a summer visit a happy combination of recreation and information for the more seriously inclined. Besides the Chicago Public Library, there is the Newberry Library, the John Crerar Library, the New Field Museum, and numerous private and public institutions of learning. In the Chicago Art Institute is contained a vast store of masterpieces of art and sculpture.

Accessibility of All Points of Interest—Through routes on all cars permit one to travel from one end of Chicago to the other. A simple street numbering system enables the stranger to easily locate any address in the city. A motor bus line runs from the Loop north on Lake Shore Drive and Sheridan Road, a distance of 10 miles, passing through Lincoln Park and a section of the beautiful residence district.

Facilities for Motorists—There are many large public garages in the loop where motorists can keep their cars for a small charge per day. A convenient portion of Grant Park has been set aside for the public for automobile parking purposes.

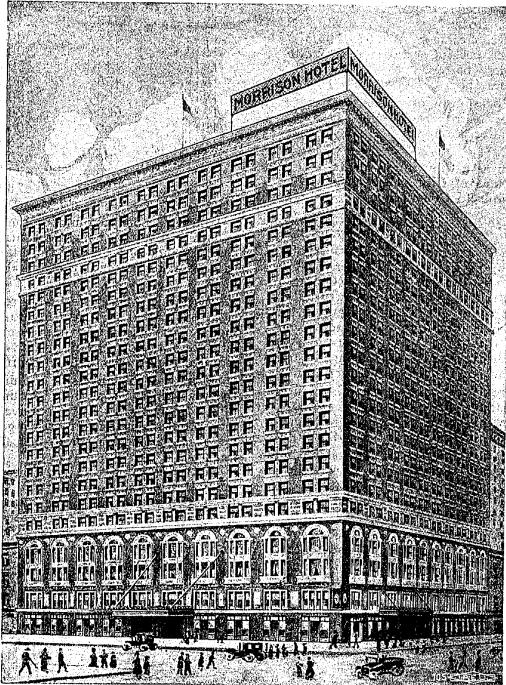
Chicago Has Largest Corn Products Plant in the World—Occupies Over 100 Acres of Ground

Situated in the Chicago district is the largest corn products plant in the world which, with its huge production, gives the city leadership in this line.

This plant which manufactures various products from corn by the "wet" process belongs to the Corn Products Refining Company and occupies some 100 acres of ground. It consists of forty complete and separate buildings varying in size from one to twelve stories in height.

Big Output—It is not generally known how great an output this plant has. Thousands of bushels of corn are required every day, and Chicago, because of its central position in the heart of the finest and most extensive corn raising country in the United States, is able to serve a plant of this kind in a most efficient and economical manner.

Although demands for corn products vary according to the market it is not unusual for this Chicago plant to grind 75 car loads of corn every 24 hours.



Morrison Hotel in the heart of Chicago's Loop district.

to attend conventions have been summarized like this:

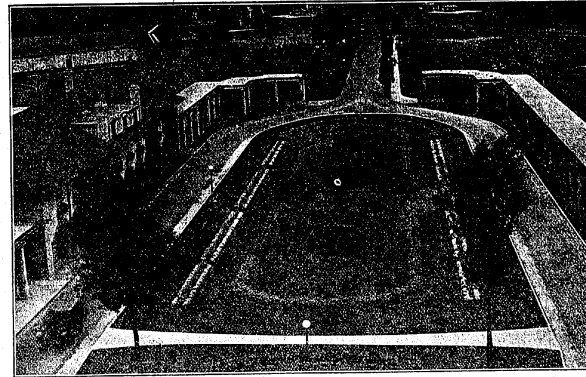
Chicago abounds in resources for entertainments of the summer visitor. The tourist might stay several months in the great metropolis on the shores of Lake Michigan and find an ever changing panorama of interest and recreation. To visit Chicago, if even for one day, is an opportunity no tourist should disregard. The average temperature during the summer months is 70 degrees; protracted heated spells are practically unknown.

Climate—The close proximity of Lake Michigan, with its cooling breezes moderating the sultriest weather, and its splendid availability for vacation pleasures, has done much toward developing Chicago's popularity as an ideal summer resort. In

the North Side, and Fifty-first Street and Jackson Park beaches along the South Side shore.

Country Clubs—Situated in and around Chicago are some of America's most famous country clubs. Onwentsia, Exmoor, Skokie, North Shore and Edgewater, have had many golf, tennis and polo tournaments of international prominence.

Public Golf Courses—In Jackson and Marquette Parks on the South Side, Garfield Park on the West Side and Lincoln Park on the North Side are commodious and completely equipped golf courses. In practically all of the public parks, ample provision for baseball, tennis and boating has been made; no summer resort can vie with Chicago in the number of its free attractions.



Photograph taken from the main entrance of the South Shore Country Club, showing the entrance and lawn in front of the main building. Chicago leads all American cities in the number and variety of its Country Clubs.

3,000 Employees—There are over 3,000 employees in the process and packing departments, 500 of which are female. In addition to the process and packing departments there is one complete can factory unit and a modern and up-to-date printing department which supplies labels and cartons used in the packing department.

The can making machinery is of the latest design and very efficient. It is interesting to note that a sheet of tin is fed into the machinery, the can completed, loaded with syrup, labeled, packed in a box and placed in the car in 12 minutes.

Over 25 carloads of coal are unloaded every 24 hours and consumed in the boiler house. The coal is unloaded by the use of a clam shell bucket which carries the coal to the hoppers over the boiler where it is fed into the automatic stokers under the boilers. This latter consists of 24,500 horsepower rated capacity.

The power plant develops 150,000 K. W. Hours per day. It should be noted that all the power throughout this enormous plant is electrical.

Every 24 hours 100 cars of finished products are delivered to the various railroads and consigned to customers through the world.

Chicago Has Lead in Decalcomania Industry—Biggest Plant in the World Located in This City

The biggest decalcomania house in the country is located in Chicago making this city the leader in the production of "decal" products.

Although the art of decalcomania originated in Europe, that continent's pre-eminence in its manufacture has been lost to America during the last few years. The reason for this is one Chicago firm which in 30 years has become the largest manufacturer of decalcomania in the world. It was this company which first started the production of "decal" designs in America.

Uses of Process Are Varied—A few of its uses are as name-plates on manufactured articles, such as pianos, talking machines, furniture and machinery of vari-

ous kinds. The familiar dog under the cover of the Victrola is placed there by means of a decalcomania transfer, as are the name-plates on practically all pianos manufactured.

In the lettering of delivery wagons, trucks, salesmen's automobiles and tank cars, it has been found to be particularly valuable.

Used In Manufacture of Furniture—Chicago furniture manufacturers have also found decalcomania a great asset in the decoration of furniture as hand painted designs, some of them exact copies of those used by the master cabinetmakers of the Seventeenth Century, can be copied and transferred to furniture with such accuracy of detail that the original design can scarcely be told from the transferred one.

The window sign transfer has also become a popular decalcomania product from Chicago. By using these signs a manufacturer can furnish all of his dealers with a window sign which can be applied to the window in a few seconds simply by wetting the paper, pressing against the glass, removing the paper backing and washing the back of the transfer, which remains on the glass with water. Here again the element of exact uniformity is an important consideration.



Golf links in Jackson Park, one of the many of which Chicago is noted. In number of public links and facilities for play, Chicago far surpasses any other city.

Decalcomania is an unusual process and its manufacturing requires great care and the surmounting of many obstacles, yet the business world finds it more than worth while, as its wide use in many branches of business is evidence on this point. And because of Chicago's pre-eminence in decalcomania materials, the business world always thinks of this city when it is a question of "decal".

Chicago Offers the Greatest Dry Goods Market—Immense Supplies Give City Leadership

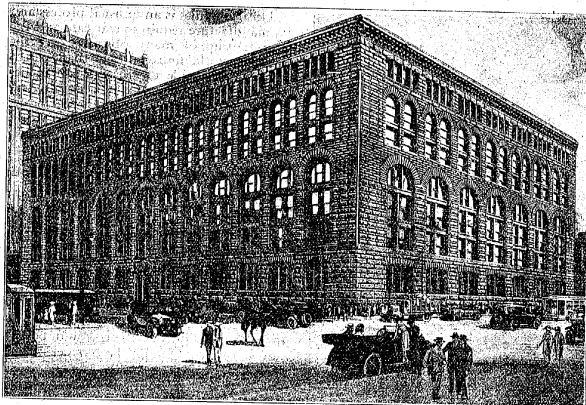
Dry goods men throughout the west and middle west concentrate the main part of their buying in Chicago. They have found that the largest open stocks to be seen anywhere are in Chicago. Large open stocks are a great advantage to the retailer as he is able to buy frequently and in smaller quantities than would be the case if he had to carry large stocks himself.

The dry goods business of Chicago runs into huge figures every year. The three largest wholesale houses, which confine their attention to the regular lines of dry goods, undoubtedly do a business that runs over \$200,000,000 a year.

One of these houses is the heaviest payer of import duties of any concern in the United States.

In allied lines a competent authority estimates the volume of business as follows:

| | |
|---------------------------|----------------------|
| | Jobbing Trade |
| Footwear | \$171,780,000 |
| Millinery | 35,153,000 |
| Hosiery and Underwear | 28,055,475 |
| Gloves | 1,753,607 |
| Furs | 13,910,000 |
| Men's furnishings | 64,782,750 |
| Hats | 20,620,938 |
| Total | \$336,055,787 |
| | Manufacturers' Trade |
| Men's suits and overcoats | \$180,250,000 |
| Miscellaneous clothing | 105,236,250 |
| Footwear | 202,426,175 |
| Women's garments and furs | 25,658,065 |
| Milliners | 27,775,000 |
| Total | \$541,345,490 |
| Grand Total | \$877,401,277 |



Marshall Field & Company's wholesale establishment at Adams, Quincy, Franklin and Wells Streets.

Jobbing Houses in One District—One advantage that is appreciated by the visiting buyers is that the dry goods jobbing houses are located in a comparatively small area. It has been pointed out that a wholesale dry goods business amounting to half a billion dollars is transacted annually in a locality that does not contain more than eight blocks. Roughly, this district extends from the river east to the loop, and from Randolph to Van Buren Streets.

In this district there are some large houses that transact a business of great size, but there are also many smaller houses, which are extremely important factors in developing the importance of the Chicago market.

Houses in Chicago that deal in dry goods and allied lines are listed under 108 classifications. Among these there are more than 1,200 manufacturers who have permanent establishments. Including the small shops and lofts there are more than 3,000 firms in the wholesale dry goods and manufacturing lines in Chicago.

Buyers from the east frequently visit Chicago, because they recognize the fact that they can find here one of the greatest open stocks in the world. With the stocks at hand and with the quickest possible delivery service, they realize that their needs can be filled promptly. They do not need to suffer from delays due to congestion of traffic, or lack of the needed goods. Many of these buyers formerly went to New York.

The Chicago houses in dry goods and allied lines are working for the future, they are laying the foundations for a business that will continue and will come greater year by year. Their policy is farsighted, they are acting unitedly to strengthen the market for all time, and not to make a quick disposal of undesirable stock, regardless of the effect upon the purchaser. This policy is bearing fruit, as is proved by the fact that gains are steady and notable. Buyers from all parts of the country are returning to Chicago for renewed purchases in numbers that are increasing every year.

Warehouse Facilities Great—Chicago's extraordinary warehouse facilities play an important part in maintaining the city's supremacy in the dry goods trade, for these warehouses contain stocks in quantities that surpass the imagination of those who are not familiar with the facts. These great stocks mean certainty of delivery of staple goods, as well as quickness of shipment.

The fact that Chicago has such large establishments with such vast warehouse stocks behind them, offers special inducements to export buyers, who have found that everything they need is to be had here, and in large quantities. As the government figures showing exports are credited to the port of exit and not the point of origin, other cities get credit for the business which is really done in Chicago. Efforts are being made to have this method of figuring changed so that the foreign business done in each city will be correctly shown.

Export Buyers Come to Chicago—Export buyers have come to Chicago in large numbers recently, brought here by the attractive offerings. They are in search of goods that are characteristically American and that will have qualities that will give them a ready sale. When these qualities are present the goods will move when other offerings at lower prices will not find favor. Chicago dealers make it a point to carry such stocks.

As a center for business of this type Chicago is young, but its position in the trade is nevertheless assured. There are plenty of men in this line who remember when the dry goods trade in all its branches centered in the east and there were no large houses in Chicago. Aided by the geographical advantages of their location the Chicago houses have forged to the front year by year until now there are none in the east that can compare with them as regards the volume of business done annually. The changes that have gone on have caused the development of specialists in the eastern cities, men who deal only in certain articles. This makes it necessary for the man who wishes to buy a varied stock to visit a considerable number of places, as he often cannot find all the articles he wants without taking long trips. The compactness of the jobbing and wholesale district in Chicago obviates this difficulty.

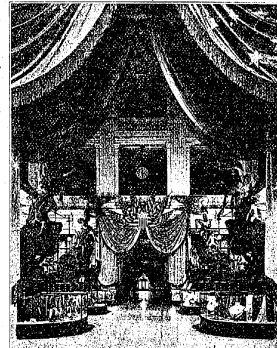
Chicago—The City of Department Stores—Many Huge Merchandising Establishments Make the City Famous

Had Adam and Eve been set down in one of the great Chicago department stores they could have emerged with all the accoutrements of modern civilization—completely clothed and bejeweled, a hair cut and shave for Adam, a "bob" or marcel and manucure for Eve.

Such is the scope of the department store as developed in Chicago. It serves all the needs of man, from head to foot, from food to clothing and all the essentials of the household.

Chicago has more department stores than any other city in the world. According to the latest government census reports there are 2,134 such stores in the United States. Of these 78 are located in Chicago.

The State Street Stores—While the general public looks upon the State Street "Big Seven" as department stores, only four of them, The Fair, Rothschild & Company, the Boston Store and Hillman's, classify themselves as such. Marshall Field & Company, Mandel Brothers and Carson-Pirie-Scott & Company prefer to be known as dealers in dry goods and general merchandise. There are three other State Street retail establishments that belong in the category of big stores. Charles A. Stevens & Bros. make no pretense of being a department store; on the con-



The main aisle of the main building in Marshall Field & Company's retail store showing the rich decoration and elaborate fittings which make this store noted as the finest of its kind in the world.

Some of the department stores outside of the loop are considered large stores, as neighborhood stores go, but the majority are small. It is the big stores in the loop that represent Chicago's department store supremacy to the world. Trary, they always try to classify themselves as a specialty shop. The Hub, with a floor space of 16 acres and more than 1,000 employees, serves approximately 3,000,000 patrons a year. M. L. Rothschild has two acres of floor space, four miles of counters and about 600 employees.

Each of the large department stores constitute 100 or more stores within a store— with the vast army of employees virtually a city within a city. These stores grew with Chicago and have been closely identified with the unparalleled progress of the city. Like Chicago, they have reached high places among world leaders by virtue of power generated in enterprise. They are among the greatest wonders of a wonderful city.

Window Displays Are Works of Art—A trip through a big store provides a day's entertainment for many a visitor to Chicago. For the window shopper there are block after block of displays that are really works of art. One store spends from \$10,000 to \$15,000 a month on its window displays only. Practically all the statuary used in these displays is made of paper. The paper is treated and molded into objects by sticking layer upon layer until the proper form of thickness is obtained.

Department stores, offering almost every product and commodity that man requires, have helped make Chicago the great central market of the United States, leading in the distribution of dry goods, general merchandise, food stuffs, jewelry, musical instruments, wearing apparel, furniture and household necessities. Hundreds of thousands of the 50,000,000 people who live within a night's ride of Chicago come here to do their shopping at the great department and dry goods stores. Statisticians of the government census bureau, in a recent survey of retailing and its cost to the consumer, arrived at a figure of 30,000,000 adults in the United States who are so situated that they can make their daily purchases at large stores, run with the highest efficiency and in the most business-like way, with quick turnover and low expenses. It is estimated that the suburban steam lines, interurban trolleys and the private motor car bring the number of potential daily Chicago store patrons up to 5,000,000. The department stores have revolutionized the whole history of retailing.

Several of the big stores started as small dry goods or notion stores. Today they are housed in skyscrapers serving hundreds of thousands of customers in a day and with such added attractions as an aquarium, children's play rooms, beauty parlors, tennis courts and restaurants and cafes occupying entire floors. There are museums of present day civilization, exceeding in number, size, grandeur and volume of business even those of New York, London and Paris.

Marshall Field and Company—Marshall Field & Company's retail premises, not including the office building portions, have a floor space of approximately 45 acres. The main building is 13 stories high and has three basement floors.

It requires 7,000 electric horse-power to operate the lights, ventilators, elevators, workrooms and other utilities in the store proper—a lighting system sufficient for a city like Des Moines, Iowa. In winter the coal consumption often exceeds 100 tons a day.



View of Marshall Field & Company's retail store at Randolph, State, Washington Streets and Wabash Avenue. An annex building for exclusive men's clothing and furnishings is directly across the street from this main building.

The private exchange telephone board is one of the largest in the world; it has handled more than 35,000 calls in one day.

Daily deliveries are made over a district of 400 square miles, the outer limit being about 35 miles from the store.

Including the retail, the wholesale, the mills and factories, the total number of employees is approximately 25,000.

The retail basement is the largest single salesroom in the world, its longest aisle stretching a distance of one and one-half blocks. The total floor space is 187,444 square feet, the equivalent of more than four acres.

The Employees' Library has a splendid collection of books on various subjects. As many as 8,000 books and magazines have been circulated in one month.

The Medical Bureau for employees has a staff of four physicians and four nurses. In 1922 the Bureau cared for 20,384 medical cases and 767 calls were made by nurses at employees homes. Wards are maintained at local hospitals; and the company has a part ownership in a sanitarium at Valmore, New Mexico.

The Junior Academy, for employees under 16 years of age, has a staff of six experienced teachers. The instruction offered covers a general and a commercial course.

There are 68 display windows in the retail store and the store for men—windows which are known the world over for their unique and decorative displays of reasonable merchandise, varied now and then with the presentation of some timely or memorial event. The total length of these display windows, if they all faced on one street, would be five blocks.

The cold floor storage vaults have a capacity of 50,000 pieces, often representing a value of \$15,000,000.

The mosaic dome in the South Street building is the first dome ever built of Tiffany iridescent glass, and it is also the largest glass mosaic dome in the world.

The reading, writing and rest rooms for men and women provide many con-

venues for customers and visitors. The general information bureau answers questions concerning automobile routes, railroad and boat schedules; sells theatre tickets and travelers' checks; provides guides for those who wish to tour the store; and suggests plans for local sight-seeing trips.

There personal service bureau accepts checks for packages, transfers instructions to chauffeurs, provides an appointment register; furnishes wheel chairs and attendants when customers require such services; supplies expert shoppers; and in various ways accommodate customers and visitors.

The extensive manufacturing activities of Marshall Field & Company converge at the wholesale store, into a distributing center that supplies not only their retail store but thousands of other retail stores as well. The wholesale is also the focal point of the firm's foreign buying offices.

The organization has foreign offices at Belfast, Calais, Hongkong, Kobe, London, Lyons, Manila, Nottingham, Paris, St. Gall, Yokohama and Shanghai; it carries on manufacturing activities at Manila, St. Gall and Yokohama; and sends buyers to Belgium, Bulgaria, Canada, China, England, France, Germany, Holland, India, Ireland, Scotland, Spain, Sweden, Switzerland and Turkey.

Fourteen great textile mills in Virginia and North Carolina which houses 3,304 looms and 138,360 spindles are operated by Marshall Field & Company. In one year's time they spin approximately 125,000,000 miles in yarns—enough to encircle the earth 3,000 times; produce enough gingham to supply 1,800,000 women with one house dress each; and turn out enough blankets, placed end to end, to reach from New York to Honolulu.

Marshall Field mills in and near Chicago produce toilet preparations, burlap and cotton bags, hair nets, cotton and wool batting, custom shirts, clothing, lamps and candlesticks, mattresses and box springs, neckwear, pillows and cushions, dresses, sheets and pillowcases, uniforms, comforters, window shades, lace curtains and handkerchiefs.

At Monticello, Ind., Marshall Field & Company manufacture crochet and embroidery cotton and yarns; at New York City, undermuslins; at Philadelphia, floor coverings; at Roanoke, Va., silks, muslins; and at Union Hill, N. J., silks.

Other merchandise manufactured under the direction of Marshall Field & Company includes underwear, hose, gloves, shoes, decorative fabrics, phonographs, drapery fabrics, vacuum cleaners, curtain materials, cotton linings, apparel fabrics and watches.

Mandel Brothers—Mandel Brothers' Store, the foundation for which was laid in 1855 when Leon, Emanuel and Simon Mandel opened a small dry goods store in a two story building at 260 Clark Street, is now 450 times as large as the store in which the Mandel business originated. The store has more than 3,500 employees.

The store stands on heavy caissons sunk to bed rock at a depth of 108 feet below city datum. The frontage is 150 feet on State Street, 340 feet on Madison Street, and 150 feet on Wabash Avenue. The

selling space on all floors totals ten acres, while that devoted to stock, storage, machinery, etc., exceeds seven acres.

In the display windows on the three sides of Mandel Brothers' store there are about 6,500 square feet of plate glass. The complete frontage of the windows totals 381 feet, and their floor area is 2,692 square feet.

The three-story basement extends 61 feet below street level. Two floors of this basement comprise a complete store in itself, with 83,960 square feet of floor space.

A city of 100,000 inhabitants could be splendidly lighted by the plant which supplies the electricity used in the store. Its private telephone exchange is greater than that in many small towns; and the Mandel laundry would provide sufficient service to an average town, its capacity being 3,000 pieces daily.

The water pumping system has a capacity of 2,480,000 gallons every twenty-four hours, and the refrigerating plant an output of 80 tons of ice daily. The air pumping and filtering device supplies to the first floor, basement and sub-basements 153,500 cubic feet of washed air per minute, or an average of 2,000 cubic feet to every 100 square feet of floor space; 162,100 cubic feet of air is removed per minute—this further tending to keep the temperature at a thoroughly agreeable level.

The waiting room, provides facilities for reading, writing and telephoning; there is a rest room adjoining. An information bureau gives adequate replies to all queries.

Theatre tickets are on sale in the waiting room at box office prices. Railroad tickets also may be secured and Pullman reservations made. Hand luggage is checked from the waiting room to any Chicago terminal. Parcels are wrapped or checked on request. The postal station in the waiting room provides all the advantages of the central post office. Money orders are issued and paid; letters registered, etc.

On the fifth floor is a department for hairdressing, shampooing, manicuring and shoe polishing. A children's barber shop also is maintained.

The hospital with a woman physician in attendance, is at the service of any who may be come indisposed.

Mandel Brothers' organization embraces its own permanent manufacturing industries, which are conducted along lines that incorporate every economy it is possible to associate with twentieth century ideals. At independent factories Mandel Brothers design and dictate the patterns to be produced, the special trimmings to be used and the various changes or modifications of fashion.

Clubs—social, musical and athletic—have been formed by employees, and the benefits derived help in producing a general content. Employees have the use of almost the entire fifteenth floor in the State Street Building. An excellent luncheon is provided at a very low cost, and there are settees, a piano, reading tables and other essentials to enjoyment of rest and recreation. Here, also, are the instruction rooms, where, every morning, new members of the sales force are fitted for efficient service. Capable women look after the

social welfare of feminine employees, and a woman physician is at their disposal at all times. A semi-monthly newspaper is published within the store.

Carson, Pirie, Scott & Co.—Carson, Pirie, Scott & Company's present retail store dates back only to 1904, but the firm, then Carson & Pirie, as far as is the civil war. The retail business was founded in 1867 when Andrew MacLeish, a member of the firm of J. B. Shay & Company, became associated with the firm. He managed the business for nearly half a century and proved to be the main force in the development of a great mercantile enterprise. Mr. MacLeish was the leading dry goods merchant of his time. He still takes an active interest in the business which he built up. His son, who received his mercantile training in the store, is advertising manager for the firm.

On August 12, 1902, Carson, Pirie, Scott & Company moved to what is now the busiest corner in the world by purchasing the business of Selfridge & Company, who only a few weeks previous had acquired it from Schlesinger & Mayer. Carson, Pirie, Scott & Company at that time were entering the fifteenth anniversary of their business career. Mr. Selfridge had just left Marshall Field & Company when he and his associates took over the Schlesinger & Mayer business. Carson, Pirie, Scott & Company it was said, were negotiating for it at the same time. Mr. Selfridge made a half a million dollars on the transaction, which covered only a period of eight weeks. He received for the business what he paid for it and a bonus of \$500,000.

The Carson, Pirie, Scott & Company retail store is twelve stories high. It provides all modern conveniences for the comfort of its patrons and employees. The same applies to the wholesale business of the firm, which is recognized as one of the leaders in the middle west.

The Fair was First Department Store—The Fair, at State, Adams and Dearborn Streets claims the distinction of being the first department store in Chicago, and is now the largest. It was founded in 1875 when E. J. Lehmann opened a small 16 foot front store on State Street. Expansion plans, which are now under way, will make it one of the largest single building businesses of its kind in the world.

Mr. E. J. Lehmann early recognized the value and practicability of centralized merchandising and his 16 foot store grew rapidly. He introduced the split nickel in the selling price, and thus the humble penny came into its own in the department store. A few years ago the Fair made a purchase of sporting goods which was the largest on record at that time and probably has not been exceeded in a single purchase. It comprised 16 carloads of goods.

If the Fair with the new additions contemplated were on a single floor it would extend in width from State Street to Dearborn Street and in length from Lake Street as far south as Polk Street, not including intersecting alleys and streets.

Tremendous Volume of Business—An idea of the tremendous volume of business

enjoyed by this great institution may be gained by the following facts:—

The Fair, as an individual store does—
—The largest business in America in Automobile Accessories.
—The largest business in America in Cigars, Tobacco, etc.,
—The largest business in America in Commercial Stationery.
—The largest business in America in Drugs and Toilet goods.
—The largest business in America in Food Products.
—The largest business in America in Household Utilities.
—The largest business in America in Sporting Goods.
—The largest business in America in Toys.

The Fair caters to the wage earner whose salary is from \$1000.00 to \$20,000.00 annually, and aims to supply some of the wants of all of Chicago's millions most of the time, with dependable merchandise of superior quality and style at a small margin of profit.

Boston Store Employs 4,000—The Boston Store building, 17 stories high, is one of the tallest in the world devoted exclusively to the retail business of a single concern. This store has 33 acres of floor space and employs 4,000 persons. Approximately 125,000 customers are served in a day.

The Boston Store operates the most complete moving stairway system in the world, in addition to 27 passenger elevators. The moving stairway runs up and down to all sales floors, from the basement to the twelfth floor.

Naturally there are many activities about such an establishment with which the general public is unfamiliar. On the roof of the store is a fullsize, perfectly appointed tennis court for the use of store employees. On the seventeenth, or top floor, where the visitor seldom ventures, are lunch rooms, where employees may enjoy a noonday meal at a very reasonable price. Also on this floor is a recreation room for male employees who are off duty. This room contains a billiard table, magazines, newspapers, etc. A similar room is set apart for the female employees. The surroundings are made as homelike as possible, and the women and girls always find a competent matron in charge, willing and anxious to give them counsel in both business and domestic affairs. A branch of the Chicago Public Library is maintained in the rest room.

School of Instruction for Employees—A school of instruction for new employees, candy factory, carpenter and paint shops and a cigar factory turning out 3,000,000 cigars annually, are also on the top floor.

The stock room occupies the entire sixteenth floor and on the fifteenth are the refrigerating plant and ice cream factory.

On the tenth floor, overlooking Lake Michigan, there is a children's play room. It's the kiddies' delight—and a boon to the mother who must of necessity take her little ones with her when she shops. Merry-go-rounds, sand piles, slides, games, in fact a score of things to elate the childish heart, are here in goodly quantities, and mothers may leave their little ones, feeling confident that they will have the best of

treatment and will be carefully looked after.

In the patrons' rest rooms are offices where gas, electric and water bills may be paid. Here also are the main public telephone booths, a telegraph office and office for placing want advertisements in any of the Chicago newspapers.

In case of sudden illness, a completely equipped emergency hospital is placed at the disposal of the store's guests. The hospital is on the third floor, in charge of a physician and a trained nurse, and is a model of completeness and comfort.

Rothschild & Co. Have 3,000 Acres of Floor Space—Rothschild & Company's store has a floor area of sixteen acres and its 3,000 saleswomen and salesmen serve as many as 80,000 patrons in one day. There are approximately eleven miles of counters and 25 display windows are used from time to time for interesting industrial exhibits. Recent exhibits included a miniature flour mill in operation, showing all the stages through which wheat passes from the grain to flour ready for the baker's oven. Another was a section of that part of the United States Post Office to which the public rarely if ever has access.

Stamp cancelling and mail sorting machines were operated in one of the large show windows by employees of the postal department.

The business of Rothschild & Company extends to within a radius of 75 miles of Chicago. Deliveries are made to all parts of the city and suburbs and merchandise to other points is sent by parcel post and express direct from branch express and post offices within the store. Thirty-eight passenger elevators are operated. They travel on an average of 250 miles a day.

Aquarium is Unique—Prior to the building of the aquarium and fish hatchery in Lincoln Park, Rothschild & Company provided Chicago with its only aquarium. This exhibit, which occupies a large space on the seventh floor, and is completely stocked with all species of fresh water and tropical fish, attracts thousands of persons daily. The fish are in glass tanks in which the surroundings of their natural habitat are reproduced as nearly as possible. The tanks are so arranged that several thousand persons an hour can pass through the aisles without creating a traffic jam, the spectators entering the exhibit area at one end and leaving at the other. Small tanks at the entrance contain the largest variety of rare tropical and oriental fish collected in one place in the United States. Even far-off Africa is represented. There is everything from tiny gold fish to the wicked-looking "Hell-bender" and from bull frogs to alligators.

The largest case contains specimens from all over the world, grouped into one large family—fish from the Amazon, from India, China and South and Central America, Cuba, North Africa and Cook County. The collection of Illinois game fish is a temptation to the angler's skill. The largest fish on exhibition is a Lake Michigan sturgeon nearly six feet long.

Hillman's Twenty Four Year Old—Hillman's, which recently celebrated the twenty-fourth anniversary of the founding of the store, dates its expansion from

the time of the establishment of the present store of Carson, Pirie, Scott & Company. The Hillman store had been operating five and one-half years in quarters that from the start were inadequate to the volume of business, when, in 1904, the Carson, Pirie, Scott & Company leasehold on the Letter property at the corner of State and Washington Streets was acquired. This leasehold was on four floors and the basement. The Carson, Pirie, Scott & Company store fixtures were purchased with the leasehold.

The Hillman store has close to 1,000 employees and covers some fifteen acres of floor space.

Chicago is Great Center for Electrical Supplies—Many Factories Are Producing a Varied Line

Chicago is the logical buying center for electrical supplies of all kinds. It is also a great manufacturing center and leads the world in the production of several types of electrical necessities. Many factories in which electrical supplies are produced are located in the Chicago district, some of them being of great size. Anything that is needed of an electrical or a mechanical nature for installation can be bought in Chicago.

Several big stations for the distribution of electrical supplies are located either in or near Chicago. Some extremely large orders from other countries have been filled with articles manufactured here and sold from Chicago.

In this connection it is pointed out that Chicago is evidently destined to become a great center for the distribution of electrical supplies to other countries because of its favorable location, geographically, and the resources of its factories, which are practically unlimited.

Chicago has the largest single supply stations for power in the world, as they supply close to 700,000 horse power. It is also headquarters for a large number of electrical engineers who are known all over the country.

The largest telephone supply factories in the world are located in Chicago and there are also factories which send out great amounts of electrical appliances.

Chicago is also the source of supply for equipment needed in hydro-electric development and has supplied installations needed in many parts of the world.

Chicago Comes to Front as Export Center—Business Increasing Each Year

Chicago is becoming of increasing importance as a center for international trade. This is best evidenced by the number of firms engaged in carrying on that trade and by its volume.

Prior to the war comparatively few Chicago firms were doing business in foreign lands; fewer still sent out their salesmen to those foreign lands, and only a small number had branches in foreign countries.

A great change has taken place since then and especially in the last three years. Fore of necessity many made it essential for foreign firms to make new connections—likewise firms were confronted by reduced domestic consumption and had to seek new outlets for their goods. The general decline in prices and in the purchasing

power of currencies throughout the world made it necessary for foreign firms to purchase at rock-bottom prices and to obtain their goods directly from the manufacturer and source of origin. This has resulted in increased business for Chicago.

Increase in Export Firms—In the last few years the number of firms engaged in international trade has increased remarkably. A record of Association of Commerce members interested in foreign trade which was made recently shows that over 1,000 of its 7,000 members are doing more or less foreign business. This is an increase of 700 firms over those listed on its records made two years ago. The majority of these firms have their own foreign trade departments and department managers; a large number of them send salesmen to all corners of the world and not a few have foreign branch factories and branch offices. As a result of this increased activity, foreign business is coming to this city in increasing volume.

More and more business men are coming directly to this market to purchase or to sell goods and to make direct connections.

The number of inquiries coming in to the trade department of the Association of Commerce from foreign lands has practically tripled in the last year.

Export Trade is Varied—The export trade of Chicago covers practically every known article, which are shipped to all corners of the earth. Europe leads in the number of inquiries for Chicago-made goods; Canada ranks second, the West Indies come third and Mexico, the Far East, Latin America and South Africa follow in the order named.

At present the north European countries are demanding food stuffs and raw material and particularly meat products. The largest demand comes from Germany and Scandinavian countries. Clothing, textiles and raw materials are largely required in the Mediterranean countries. Canada's wants are as wide and varied as our own. Mexico's largest purchases are in the hardware, machinery, wearing apparel, dry goods and electrical goods lines. The Far East is demanding industrial equipment and general merchandise of all kinds.

Good times are apparently returning to most of the foreign countries and as a result Chicago exports are rapidly increasing.

A Market for Imports—By reason of its central location, its increasing and its ever-increasing population Chicago is today, and will be to a much greater extent tomorrow, the market for America's imports. Foreign firms in increasing numbers are recognizing Chicago's importance as a distributing center and are establishing branch offices here. They report a satisfactory and increasing business.

The principal imports are general merchandise of all kinds, fibers, silks, gums, millinery goods, musical instruments, essential oils, clocks and watches, sausage casings, coffee, tea and sugar.

Europe leads as a source of our imported merchandise, the Far East is second, Canada and Mexico, Latin America and the East Indies follow in the order of their importance.

Amount of Chicago's Foreign Trade—What the total amount of Chicago's

foreign trade is cannot be authoritatively shown, because government statistics are so compiled that the greater part of exports and imports are credited to the seaboard cities through which they are cleared or entered. In an effort to estimate to some degree of closeness the character and extent of Chicago's foreign trade, the Chicago Association of Commerce in 1920 sent a questionnaire to a number of its members. Of fifty-eight houses giving definite figures, it was found that Chicago's packing houses alone, in 1919, had exported \$1,160,000,000 worth of goods and that our grain exports for the same year were 285,000,000 bushels.

Chicago is a Great Fish Market—Millions of Pounds Handled and Distributed Each Year

Chicago, strategically located on Lake Michigan, is today the great fish market for the middle west. It is in the heart of the fishing region of Great Lakes and many varieties are received and distributed in the city, while thousands of pounds are reshipped to other cities each year.

Chicago's importance as a fish market is described by the Bureau of Fisheries in this manner:

Chicago as a Fish Market—The bulk of Chicago's supply of fresh and frozen fishery products is derived from lakes in Canada, the great lakes and the north Pacific coast, while smaller quantities are received from very large fish-producing areas in the United States and Canada, as well as from many areas of minor importance throughout both countries. In addition to this a commercial fishery is conducted in Lake Michigan by Chicago fishermen for ciscoes, chubs and yellow perch, the catch of these species during the season of 1921 amounting to 1,250,000 pounds, part of which was sold smoked and part fresh, both to dealers and direct to consumers, the fishermen operating their own smokehouses.

Large Number of Species—Based upon the number of pounds sold, approximately 70 per cent of the Chicago trade in fresh and frozen fisher products is confined to the following eleven species: Buffalo fish, carp, ciscoes, halibut, lake trout, pike or "jacks," salmon, whitefish, yellow perch, yellow pike and shucked oysters. With the exception of shucked oysters, none of these species is received from the Atlantic coast, despite its comparative nearness to the Chicago market.

The reason for this condition, as explained by local dealers, is that among consumers the general preference, aside from halibut and salmon, is for freshwater varieties.

The principal sources of supply of the species of fish named are: Buffalo fish and carp, Minnesota, Illinois and Mississippi rivers, great lakes and other nearby lakes and rivers; ciscoes, great lakes; halibut, Prince Rupert, Vancouver, British Columbia and Seattle, Wash.; lake trout, great lakes; pike, "jack", Minnesota and Canadian lakes; salmon, Prince Rupert, Vancouver, British Columbia, Seattle, Wash., and the Sacramento river, California; whitefish and yellow perch, great lakes and Canadian lakes; yellow pike, great lakes; Canadian lakes and points in Minnesota; oysters, New York, Maryland, Connecticut and Virginia.

Moderate Demand for Thirteen Kinds

In addition to the eleven species sold in large quantities, a moderate demand exists for thirteen others, namely—blue pike, bullheads, catfish, cod, haddock, red snapper, sauger, smelt, suckers, tullibee, hard clams, oysters in the shell and shrimp. The blue pike come from Lake Erie; the bullheads from Iowa, Minnesota and Michigan; catfish from Okkechobee, Fla., Mississippi river and Michigan; fresh cod and haddock from Boston, Mass.; the red snapper from Florida; the sauger from Lake Erie and Lake Winnipeg; smelt from New Brunswick and Nova Scotia; suckers from the great lakes and near-by rivers; tullibee from Canadian lakes; clams from Maryland, Virginia and North Carolina; oysters from the Atlantic coast from Connecticut to Virginia, and shrimp from Florida and Georgia.

Consignments of frozen fish are generally moved direct to the public storages and there held until required for use. In the course of the year ended July 31, 1921, a total of 19,643,047 pounds of frozen fish were placed in Chicago cold storage warehouses, while 20,104,072 pounds were withdrawn, the quantity held over from the previous fiscal year amounting to 7,178,015 pounds. That Chicago depends extensively upon Canada for its supply of frozen fish is shown by the fact that in the year ended July 31, 1921, a total of 525 carloads was received from that country, while 272 were received from the United States. In the year named the carload arrivals of fresh and frozen fish (exclusive of oysters) at Chicago amounted to 798 cars, of which 399 were received by express and 399 by freight. There were in addition 195 carloads of oysters.

Fishery products were handled in 1921 either exclusively or as a major commodity compared with other foods by 222 Chicago firms, of which fifty-six were in the wholesale business exclusively, eighteen in both wholesale and retail and 148 in the retail trade exclusively. In addition there were several thousand butcher, grocery and delicatessen stores handling fish as a side line on Fridays.

Chicago Does a \$40,000,000 Fur Business Each Year—Is Oldest Business in Chicago

Chicago's rise in the fur industry is both interesting and phenomenal. As this business was the basis for the development of the West, it naturally is the oldest industry in the history of Chicago.

The industry since pioneer days has flourished here, and today the city that has developed from the tiny frontier trading post of a little more than a hundred years ago, ranks as the second largest fur center in the United States. An idea of the marvelous growth of the industry during the past sixty years may be gained from the fact that in 1859 there were just five fur concerns in the city. In 1912 about 125 firms were engaged in the business, and from that time on the industry steadily progressed until it has reached its present enormous proportions.

500 Fur Merchants in Chicago—There are today approximately 500 fur merchants in Chicago, employing about 2,500 fur workers, and some 1,500 salespeople selling furs. The actual business done by

the Chicago industry amounts to about \$40,000,000 annually.

Many of the leading American fur houses have Chicago branches that frequently rank in importance with the head offices. The raw fur consignments which reach the Chicago market every year are of colossal volume, for some of the largest and most important skin houses in the country are located here, several of which have been in business for almost fifty years. One of these concerns that does an annual business of \$3,000,000 to \$4,000,000, has a record of handling three and a half million muskrats alone in a single season, besides enormous quantities of other skins.

Naturally, buyers from all parts of the country come to Chicago to make their selections of raw and dressed furs, for they realize that here may be inspected not only unlimited stocks, but complete assortments of both domestic and imported skins.

Chicago's wonderful railroad facilities have been the most important factor in the development of the industry. Another strong influence has been the organization here of the industry into a live association, followed by others, each one having its specific advantages and interests, but all having a uniform objective—the advancement of the industry.

Seven Fur Organizations in Chicago—There are seven of these organizations, the parent one being the Associated Fur Industries of Chicago, which was organized in 1918. In the year 1919-20 the wholesale fur business of the city more than doubled in volume, so it is not surprising that other fur associations followed in short order.

To the annual style shows and exhibits, which have been held yearly since 1920, is also due a large measure of responsibility for the splendid proportions of the Chicago industry. Local, and city-wide in scope, they have had tremendous influence in stimulating business and encouraging the establishment of new fur concerns.

The Chicago industry has its own official organ, *The Central Furrier*, which has fostered a number of constructive policies for the local industry. The largest fur designing school in the country, where hundreds of students are graduated annually, is located in Chicago.

There are three retailers here who do a business of over a million dollars a year in furs. Fully half a dozen concerns engaged in dressing and dyeing furs are located in Chicago. The heads of these companies are specialists in their line, having graduated from the ranks of the mechanics, and their plants compare favorably with larger and older eastern establishments.

In this connection, it is interesting to note that the first dyed seal garment ever made in the United States was made by a Chicago fur concern back in 1872.

Chicago Leads in the Manufacture of Furniture—Is Pre-eminent in This Line

Chicago is the greatest manufacturing and distributing center for furniture in the world.

This fact has been established by a survey made by the Chicago Association of Commerce, which shows that in one

year furniture to the value of \$73,097,000 was manufactured in Chicago. The next largest manufacturing center in the United States produced furniture to the value of \$40,000,000.

The survey also disclosed the following interesting facts regarding this prosperous industry:

Chicago has 315 furniture factories, whose products include practically every item and grade of furniture. There is no other center which can show such a diversity of products. Many of the factories are small, but there are 121 plants, each of which has more than 31 employees, and these produce 84 per cent of the furniture made in Chicago.

Chicago's Display Market—Chicago has the most important display market known to the furniture industry. Ten exhibition buildings are devoted entirely to the display of sample furniture. It is estimated sales of furniture and allied at these exhibition buildings amount to between \$250,000,000 and \$350,000,000 annually. Furniture dealers come from all parts of the country twice a year and place orders.

Chicago has 672 retail furniture stores and 47 department and general stores. Total sales of furniture in these stores during 1920 were estimated at \$67,773,980.

Many buyers are in daily touch with this market, others come to it weekly, while those at a greater distance visit it monthly. The population served in this manner is estimated at 5,600,000.

The area in which the daily shoppers live has a population of 3,100,000. Just outside of the metropolitan area is a district with a population of 700,000 who reach the buying district weekly. Beyond this, reaching as far as Cedar Rapids, Iowa, taking in the northern part of Illinois and parts of Indiana, Wisconsin and Michigan is a district with a population of 1,800,000 of those who are in what is known as the "monthly" trading area.

Many Factories and Varied Output—Chicago has several large desk factories, and orders are being filled promptly. The value of the output is considerably above what it was last year. The chief demand is for office furniture in light golden oak.

During the last two years Chicago has made wonderful strides in the manufacture of phonograph cases. Prior to 1918 few cases were made in Chicago, and practically no motors. This situation has been reversed. Practically twenty-five per cent of the cases now turned out in the United States are equipped with Chicago made motors. The predominating styles in cases are the Queen Anne, Louis XIV and William and Mary.

Office and dining room chairs are turned out from Chicago plants in enormous quantities. Although Chicago has many great factories, carloads of chairs are made at Grand Rapids, Michigan; Gardner, Mass., and Sheboygan, Wis., and sent to Chicago in an unfinished condition. These are finished and sold by Chicago manufacturers. New machinery of an improved type has been installed in the plants that do this work, and in this way the value of the output has been greatly increased.

Three firms are making dining room furniture of a type that was formerly imported from Austria. These three firms also make school furniture and seats for movie houses. During the last three years large amounts of walnut have been used in making dining room furniture. In the cheaper chairs gum is used extensively, being furnished in walnut and brown mahogany. The output of oak chairs is probably one-third less than it was two years ago.

Special Furniture Made Here—There are also in Chicago more than a dozen large factories that manufacture special furniture. Out-of-town purchasers that desire furniture after their own design are supplied with figures by plants that specialize in this class of work.

Mattresses and bedding of excellent quality are manufactured in large quantities. Anything from a single mattress or a box spring to a carload can be supplied. It is probable that more parlor lamps are made in Chicago than at any other point in the world. These are furnished with or without shades. The purchaser who visits Chicago will find that he has an immense variety to choose from.

Largest Chair Factory in Chicago—The largest chair factory in the world, turning out 600,000 chairs a year, is in Chicago. This same concern makes more reed furniture than any other in the world and is the largest importer of rattan furniture in the United States. It makes office chairs, government barrack chairs, chairs of Austrian bent wood type, children's high chairs, period furniture for homes, porch and sun-parlor furniture.

This factory has 620,000 square feet of floor space. Its lumber yard contains 136,000 square feet and its 45-foot piles of lumber total 6,000,000 to 7,000,000 feet of material, chiefly hard woods. This is about a year's supply. The concern employs 1,000 workers in its manufacturing department. There is hardly any furniture, from the most severely practical to the most highly artistic, from the simplest to the most expensive, for whatever purpose, that is not produced in a Chicago factory. Many things that do not come under the strict definition of furniture, yet which are closely allied with it, are also made here and would swell the total output to twice the proportions just given.

Thousands of Workers—A total of 14,997 workers are employed in Chicago's furniture plants, of whom 16.5 per cent are women. The total payroll during 1920 was \$22,472,000. Expenditures for advertising by the manufacturers during 1920 are estimated at \$600,000.

Chicago's furniture factories are all non-union, or "open" shops.

Furniture workers in Chicago are of a number of nationalities. The greater proportion of woodworkers are German, with some Italians, Lithuanians, Dutch and Scandinavians. In the upholstery departments are to be found Polish, Bohemian, Scandinavian and German workers. The proportion of American born workers employed in these plants has been increasing since the war.

Special departments of furniture making in which Chicago leads are chairs, upholstered goods, reed furniture and office

furniture. Other centers have emphasized their own particular lines, though in no line does Chicago lack creditable and important representation.

There is one Chicago concern specializing in upholstered couches, davenport and chairs, which has within three years increased its annual production from \$1,500,000 to \$5,000,000.

Attendance at Chicago's Furniture Market—Most of the furniture manufacturing towns in the United States have a furniture exposition building. Chicago has ten such buildings, one being the largest in the world. Attendance at the Chicago furniture market is greater than at any other furniture market in the country; during the mid-winter season of 1920-21, 2,300 buyers representing 1,722 retail furniture stores attended the market. Each of these buyers represents potential sales which average in excess of \$100,000. During this market 72 of the exhibitors were Chicago manufacturers, while 204 were from other cities. The use of this market by outside manufacturers indicates its importance.

In addition to the exhibition buildings Chicago has 57 furniture manufacturers' agents, 83 wholesalers of furniture lines and 47 wholesalers of accessory furniture lines, representing most of the important furniture manufacturers in the country.

The furniture manufacturer and distributor who is located in Chicago has positive advantages over his competitors in other cities, and it is in obedience to the economic laws which control the regional distribution of industries that Chicago has taken the lead in this line of manufacturing and selling.

It is a notable fact that the furniture industry of the United States is not widely scattered. At its inception this industry left the little shop, or home-industry stage and centered itself in a comparatively small number of cities. Most of the furniture sold in this country today is produced in Chicago, Grand Rapids, New York, Jamestown and Rockford. At the start the location of these factories was usually influenced by the native lumber supply and the presence of water power.

As has been the case with many other industries, the advantages of the Chicago district drew the furniture manufacturers to this locality as a magnet attracts steel. They found themselves in the best of all lumber markets, with unequalled transportation facilities and with an unending supply of labor. They also gained the great advantage of being near other manufacturers and the number of buyers who would visit the group of producers was far greater than would be the case if the plants were at isolated points.

Labor Supply Unequaled—From the point of view of the labor supply Chicago is unequalled. It is a city of diversified industries, with a large population. Because of its transportation facilities and its proximity to thickly settled areas, it is the most important labor exchange market in the country. Its factories attract workers from all points, especially when there is depression at the smaller points. The manufacturer of furniture finds in Chicago more than ample supply of youths who may enter his factory as apprentices.

Factory Sites Available—Factory sites for the manufacture of furniture are easily available in Chicago in spots where the transportation facilities of the city can be utilized, and where the ground values are low in comparison with the advantages that are offered. The present factories are on sites which have an average value of 58 cents a square foot, without sidings, and \$1.39 with sidings. The sites which new factories would take are farther from the center of the city in districts where the workers live and could be secured for even less than the sums mentioned. It is a general custom, at present, for manufacturers to locate their plants in the outlying districts where they have the advantage of the belt-line facilities of transportation, and where their workers' place of employment is close to their homes, often within easy walking distances.

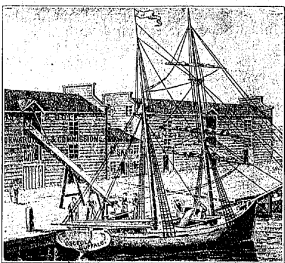
Chicago is the Granary of the Nation—Millions of Bushels Handled Here Each Year

The granary of the world comprises the thousands of acres of fertile valleys along the Mississippi, the Father of Waters. This is the middle west, rich and prosperous, and Chicago is its center, the greatest grain distributing market in America.

The foundation for Chicago's leadership in the grain business was founded in the year 1838. In that year a fleet of prairie schooners rumbled over dusty trails into the midst of the little group of white dwellings at the mouth of the Chicago river that was Chicago in 1838. Under the lee of Fort Dearborn—where the new Michigan avenue bridge now stands—the little caravan wheeled round and auctioned off its cargo, seventy-eight bushels of grain, to the welcoming villagers.

These hardy argonauts, and these seventy-eight bushels, brought from the west and sold, were the trail blazers of Chicago's globe-encircling grain commerce of today. Last year 250,000 carloads of grain were shipped into this same market.

Chicago's Grain Business—Chicago's vital part in the handling of grain is shown by the fact that this city buys, sells and distributes 300,000,000 bushels of wheat and other grain every year through its Board of Trade. The average amount of grain food consumed by every person in the United States is about five bushels a year. Five bushels of wheat produce a barrel of flour, from which the baker can evolve about 250 loaves. Chi-



First Shipment of Grain from Chicago in 1838

ago's annual purchase of grain, translated into wheat terms, represents 15 billion loaves of bread, or 150 loaves for every one of our 100,000,000 population as a year's allowance, about three loaves of bread as a weekly ration. The Armenians and Syrians have been satisfied with a quarter of that allowance for the last two years.

As the grain market has grown Chicago's business men have built huge warehouses to store the crop, until today there are more than eighty of these granaries with a capacity of 60,000,000 bushels. Eighty of them, with a combined capacity of sixty million bushels, draw in the wheat, barley and corn from the far-flung fields. They conserve it, and as needed, they send it forth again—bread for the people of many lands. No other center in the world has such storage capacity, yet larger warehouses are being built and more business is counted on in the future.

Tides of Grain Commerce Meet in Chicago Board of Trade—The pivotal point round which this mighty commerce revolves is the Chicago Board of Trade. Here is where the enormous grain supplies brought to the market for distribution, are sold. Prices in the board's trading are as near the economic law of supply and demand as a great, free, open auction can place them. Oldest and best known of its kind, Chicagoans take pride in this institution.

John R. Mauff, executive vice-president of the Chicago Board of Trade, describes the origin of this institution and its method of operation in the following graphic sketch:

When Organized—"To meet the ever-swelling tide of commerce, the Chicago Board of Trade was formed by a few of the leading merchants in the year of 1859. It was and still is an association of grain and provision merchants. Its objects expressed in the preamble to its by-laws are: To maintain a commercial exchange; to promote uniformity in the customs and usages of merchants; to inculcate principles of justice and equity in trade; to facilitate the speedy adjustment of business disputes; to acquire and disseminate valuable commercial and economic information; and generally, to secure to its members the benefits of co-operation in the furtherance of their legitimate business.

The success of this undertaking may be summed up in the following sentence: In sixty-five years a total of over 12,500,000,000 bushels of grain has been received and 10,000,000,000 bushels shipped out of Chicago under a standard of efficiency unequalled in commerce. The volume handled will help to visualize the size of the cash grain department. In a single day as much as 2,000,000 bushels of grain have been received.

The Futures Market—Through operation of the futures market the Chicago Board of Trade maintains a continuous, open, competitive market in which the farmer's grain may be sold at any hour of any business day in the year. The price received is the price established not by any individual or a group of individuals, but by the inexorable law of supply and demand. And the fluctuations in

price represent the constant adjustment of price to value.

For protection the grain handlers go into the futures market and buy or sell for future delivery the same as does the speculator. But instead of engaging in speculation they are in effect taking out insurance policies. This hedging protection is so genuine that not only big terminal elevators, but country elevators, exporters, millers, in short, all commercial enterprises connected with the grain business, use it constantly.



Cash grain tables. Merchants, millers and grain men bargaining in the Board of Trade.

What Hedging is—Briefly it may be defined as the practice of making at about the same time two contracts of any opposite though corresponding nature. One is in the trade market and the other in the speculative or futures market.

Here is the way a terminal elevator hedges. It will buy up, say, a million bushels of wheat at a dollar a bushel in October, borrowing money from the banks with the wheat itself represented by a warehouse receipt as collateral. If there were no futures market this terminal elevator would incur a tremendous risk. The only hope it would have would rest in a possible price increase. And to break even the price would have to rise enough in the subsequent months to pay storage, interest on capital, insurance and other incidentals. But a decline of only ten cents on a million bushels would mean a loss of \$100,000. No sane man would care for such hazards.

But with the futures market to fall back on the terminal elevator may operate on sound commercial lines. When it buys the actual wheat in October, it goes at once into the futures market and sells a

like amount for delivery in a specified future month. If it buys the wheat at a dollar and sells it in the futures market for May delivery at a dollar and six cents, it knows that the cost will be, say five cents a bushel to carry wheat until May, and that there will be a certain profit of one cent a bushel regardless at what wheat may be selling when the month of May arrives.

In this way it absolutely protects itself against future price fluctuations. It declines the possibility of making a large profit from a possibly important rise in price, but it absolutely insures itself against a loss from a possible subsequent fall in price.

Telegraph System is Vital Factor—Throughout the trading hours authoritative news comes in over thousands of miles of telegraph wires. Cables report latest crop conditions in foreign wheat producing countries; they likewise note the requirements of the non-producing nations. Other wire messages make known the volume of grain moving from ports to export; they tell of transportation conditions, of a crop failure or an abundant harvest.

Through all the bartering, this meeting of the forces of commerce, the Chicago Board of Trade itself transacts no business. Quotations are commonly referred to as "Board of Trade quotations." But the Board of Trade makes no quotations. The quotations are only the record of transactions. The Board of Trade simply furnishes a market place where its members may meet daily and make with each other and for others, contracts for the purchase or sale of grain and other farm products, subject to rules and regulations established by the association.

Movement to Increase Production—Nor has the Chicago Board of Trade been concerned wholly in the marketing of grain. For many years the association has taken an active part in movements intended to increase production and to improve the quality of crops.

For the fourth consecutive year the board has contributed \$10,000 in cash prizes which go to farmers producing the best grain and forage crops. These prizes are awarded at the International Grain and Hay show held each year in connection

with the International Livestock Exposition in Chicago.

Farmers have been drawn from all corners of the continent by the exposition. It has grown into a comprehensive institution of crop improvement. Its splendid influence is spreading even to farmers of the old world, many of whom are expected to enter the competition at the exposition late in 1923.

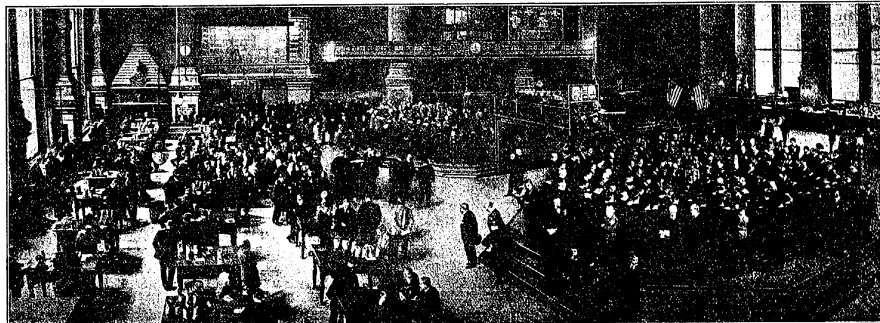
As an indication of the popularity of the movement, let it be said that all records were shattered at the 1922 show. There were a total of 4,039 entries for the \$10,000 premium list. This is nearly 300 per cent more than the number of entries in 1919, the first year of the show. There has been a steady increase of over 700 entries each year.

But still more important is the fact that quality of grain, hay and seeds exhibited likewise shows a steady rise. It is due say the crop experts, to the simple fact that farmers are able to get together and exchange ideas and make comparisons. Thirty-three states and six Canadian provinces matched skill for high honors at the 1922 show. Held solely in the interest of better crops, the show is participated in by agricultural colleges, crop improvement associations and state and federal governments.

Radio Used—Chicago grain men were quick to recognize the value of radio in the dissemination of price quotations. A test period was opened in the spring of 1922. In a short time hundreds of letters and telegrams came pouring in to the board from scores of cities, towns and villages, all commanding the service. They came not only from individual farmers but also from country elevators, shippers, banks, business houses and even educational institutions that use the quotations in class work.

Definite advice soon showed that in Illinois alone nearly five hundred towns and villages were using the quotations. Hundreds of farmers not in easy communication with towns obtained small radio receiving sets for home use. Reports from other states showed similar interest.

Then it was that the board determined upon a permanent, continuous broadcasting service. Negotiations were entered into and finally in February of 1923 the board purchased outright the big radio



Camera's sweep of the floor of the Chicago Board of Trade showing cash grain tables and future contract pits.

sending station, WDAP, on the Drake hotel.

Radio price quotations are flashed every thirty minutes during market hours. The quotations are supplemented by news bulletins having a bearing on world supply and demand. By means of this new broadcasting service the farmer may have, hot off the wires, the latest news available at the grain and produce markets.

Chicago is Chief Distributing Center for Hardware—Huge Stocks Maintained by Dealers

Ever since the pioneering days of the mid-west, Chicago has been the chief distributing center for hardware. The fur hunters of a century ago came to Chicago to get traps, or firearms, and the early settler centered at the same point when it was necessary for them to buy axes, plows, shovels or other implements. With the development of the surrounding country the hardware trade of Chicago expanded and changed in character, but always retained its supremacy.

When this trade was in its infancy, Chicago had the advantage of being on the water haul and merchandise had to be put ashore for distribution in the interior. Later, when the railroads were built, they centered in Chicago, the city thus retaining its lead as a distributing point.

The fact is now generally recognized throughout the Mississippi valley that the largest and most complete lines of hardware to be found in the United States are in Chicago. Jobbers in Chicago have on hand fully 50,000 articles differing in size or type. The buyer can easily find out about these articles by looking them over in a single building, without having to take long trips in order to see various lines in different places.

Heavy Trade in Stoves and Ranges—

A heavy trade is done by Chicago houses in the distribution of stoves and ranges. In addition there is a great diversity in the offerings of the hardware houses, as will be seen by the following partial list of articles distributed from Chicago: mill supplies, automobile accessories, brass beds and mattresses, electrical supplies, sporting goods, firearms, ammunition, fishing tackle, bicycles and supplies, paints and varnishes, cutlery, builders' hardware, agricultural tools, mechanics' tools of all kinds, kitchen utensils, enameled ware, woodenware, tinware, wagon hardware, housefurnishing goods, lamps and lanterns, sewing machines, stove fixtures, saddlery and many miscellaneous articles.

A number of large manufacturing plants which make hardware have located in Chicago because of the combination of nearness to the steel mills, general excellence of railroad service, the abundant supply of labor and the presence of large distributors. Raw material is obtained easily and distribution is also facilitated. Goods can be sent out in all directions with the least possible delay.

Much hardware is distributed by the mail order houses which send out many articles direct to consumers, but this business is of a different character from that done by the jobbing houses.

The hardware jobbing business in Chicago began in a small way, as was the case

in many other lines of business activity. Sixty-eight years ago a start was made in humble quarters by the firm of Hibbard, Spencer, Bartlett & Co. At that time half a dozen employees were able to handle the shipments and do the office work.

At that time it was the habit of the country merchant to come to market each spring and order enough goods to last him for six months. During the remainder of the year he would send in an occasional order by mail. The travelling salesmen had not then been thought of. A monthly price list was sent out to customers at distant points, and even this list was not as regular as it might have been. The list was only one page. No one dreamed at that time of sending out anything like the big illustrated catalogues such as are seen today.

Early Methods of Jobbing—Crude methods were used at the jobbing houses for a long time. A windlass was used to hoist goods to the upper stories and there was a slide for chuting heavy articles to the basement. Several periods of severe business stress were survived by the hardware jobbers of Chicago, such as the panic of 1857, and there were some serious fires, among them the general disaster of 1871, that crippled the trade, but not permanently.

During the long period of regeneration which followed the great fire the hardware trade developed rapidly, along with other lines of business. More suitable locations for the trade were found and as the growth of business continued buildings with every modern convenience were put up where the large stocks were housed to the best possible advantage. Everything is so arranged that today the visiting merchant can look over the stock with the least possible loss of time. Efficiency in merchandising has been studied in detail. The hardware trade differs from some other lines of business in that it still makes considerable use of the Chicago river in handling goods. A considerable proportion of this business is handled by means of a system of lighters, which recall the earlier days when water transportation was so important an element in trade.

Chicago as An Import Center—Merchandise Imported is Easily Distributed From This City

Millions of dollars worth of merchandise is imported every year by Chicago merchants and business houses. Much of this is for local consumption, although a considerable amount finds its way west and north as the excellent transportation facilities of Chicago make it a logical point of distribution.

In one year merchandise valued at \$18,078,464 passed through the customs at the port of Chicago on which Uncle Sam collected \$5,695,984.62 duty. Not bad for a city located inland midway between the oceans. During the same year Chicago imported through the local custom house drygoods valued at \$4,975,942, the duty on which amounted to \$1,678,174.19. This was the largest item on a list of forty-five scheduled articles. Chemicals and drugs formed the next largest, totaling \$1,609,579 in value paying \$525,492.20 duty.

That Chicago is fond of fruits and nuts is indicated by the fact that these articles stood third on the list amounting in value to \$1,196,019, the duty being \$217,537.48.

Chicago uses considerable imported tobacco; its imports for one year being valued at \$1,039,562, duty paid \$698,585.24.

Oils, gloves and millinery are also well toward the top of the list which includes practically every kind of salable merchandise.

In 1914, before the European War reduced imports to almost a negligible quantity, there passed through Chicago custom house foreign products valued at \$35,195,487 on which duty amounted to \$9,147,600.09 was paid.

The importance of Chicago as an import center is additional evidence that because of its geographical location it was destined to become—as it in fact is—a great market.

Not all the imports entered at the port of Chicago are for local consumption. They find their way north, west and south, because with its unequalled transportation facilities Chicago is the logical distributing point for the territory lying between it and the Rockies.

Chicago is known for its great open stocks of marketable merchandise and its strategic position with respect to distribution was officially recognized when under the stress of war Chicago became the purchasing center of quartermaster's supplies for the several surrounding states and a small office with a few men expanded figuratively speaking "over night" into an immense establishment requiring for its operation the service of a vastly increased force of officers, clerks and enlisted men.

Imports By Fiscal Years

| Year | Value | Year | Value |
|------|--------------|------|--------------|
| 1910 | \$28,281,231 | 1917 | \$30,144,030 |
| 1911 | \$28,989,000 | 1918 | \$3,208,375 |
| 1912 | \$0,278,600 | 1919 | \$8,500,047 |
| 1913 | \$3,284,156 | 1920 | \$6,179,298 |
| 1914 | \$5,135,457 | 1921 | \$5,375,777 |
| 1915 | \$7,340,359 | 1922 | \$6,695,028 |
| 1916 | \$5,944,230 | | |

Chicago's Advance in the Knitting Industry—City Now Has More Than Fifty Mills

Chicago has made a notable advance in the knitting industry during the past few years. More capital has been invested and many new mills have been erected until now Chicago is a center of this valuable industry.

There are more than fifty knitting mills located in the Chicago region, representing an investment of capital of \$7,500,000 and giving employment to 7,500 people. Gloves and mittens which warm the fingers of men, women and children from coast to coast and from Minnesota to Texas are knitted in a Chicago factory. The largest mill in the world devoted exclusively to the knitting of infants' underwear is located in Chicago, and has increased its production 300-fold in twenty-five years. Men's underwear is knitted and automatically fashioned in a Chicago factory in a manner which has won for it the commendation of the foremost merchants in the entire country. Chicago is the headquarters of the largest producer of men's, women's and children's hosiery in the Middle West and the second

largest in the United States. Sweaters, bathing suits, cardigan jackets, baseball and football stockings and skiing caps are knitted superlatively well in the Chicago factory of the largest manufacturer of athletic goods in the world. These are only five of more than fifty knitting mills in the Chicago region.

Knit Goods Known the World Over—Already, although she is not yet fifty years old in the industry, Chicago's knit goods are being worn not only all over America but in every civilized nation on the face of the earth. With her commanding position at the center of the country, nearer to the great wool-growing and cotton-raising regions than are the cities of the East, and with her vast and increasing distribution facilities both by land and by water, Chicago, advancing at the same pace which she has set for herself, may be expected ere long to out-distance her eastern competitors notwithstanding their two centuries of start in the vast knitting industry of this country.

Children's Knitted Garments—Chicago leads in the production of children's knitted garments. There is one mill in the city which has invented a coat-like garment for infants' wear and which is now the largest producer of this special branch of the knitting industry.

This article has made its way all over the United States, northern Europe, India, Australia and South America. If the growth of this single business may be taken as typical of what Chicago is destined to do in the knitting industry, it augurs much, for this mill produced 12,000 garments in 1895, and in the year 1920 produced 3,600,000, an increase of 300-fold in twenty-five years.

Chicago Has Great Lace Factories—City Rivals Old Lace Centers of Europe.

There is one industry in the Chicago area which few people know about although it is the biggest of its kind to be found in the middle west. This is the manufacture of lace carried on just a few miles north of Chicago in Zion City on the shore of Lake Michigan. Thousands of yards of this highly valued material is manufactured each year by this Chicago factory. In fact, in one year 28,000 miles of Valenciennes lace were turned out by the factory.

This enterprise has had an amazing history. This is appreciated when it is known that the lace factory in question was built on the Illinois prairies fully a 1,000 miles from the nearest industry of this type. It represents a remarkable achievement and Chicago is proud of this factory.

Machines Were Imported—To start a new industry on an extensive scale, in a country where the machinery and workmen were alike unknown, was the herculean feat consummated by John Alexander Dowie, an evangelist, the founder of Zion City, when he established the industry there twenty-two years ago.

The machines and equipment of an entire mill in one of the old lace markets of Europe were not only imported by Dr. Dowie, but he also transported the entire force of skilled operatives, many of whom were the best trained in the traditional

lace centers of both Calais and Nottingham.

Unique, too, in the records of similar industries is the number of processes of manufacture assembled under one roof. In European lace centers, where the genesis of lace-making dates back to the 16th century, the various operations of manufacture, the weaving, dyeing, bleaching, finishing, etc., are largely performed by totally different concerns. Here, the work is all done in one institution, the raw yarn brought in one door, passes out as the finished product through another, in true American fashion.

Marshall Field & Co Now Own the Plant—Since September, 1907, the great plant has been owned and operated by Marshall Field & Company. At that time new machinery was imported, improvements of various kinds introduced, and the number of workers increased until they now number approximately 1,000 people.

The factory is an imposing brick building, with a floor space of five acres. Here are housed the mammoth machines, and the marvelous mechanical inventions used in converting the raw material into the finer distinctions of Valenciennes, Duchesse, Filet, Cluny, Chantilly, silk Spanish, and the other antique and modern examples of the lace maker's art.



Hough House erected in 1896 at a cost of \$125,000.00. Was located on the southeast corner of the Stock Yard Grounds. At the left of the picture is shown the scales on which cattle were weighed and brought in for butcher or sale. Hough House was famous rendezvous for stock traders.

These, it may be said, reproduce the fidelity of detail of the handmade varieties with such miraculous precision as to make them true replicas of the laces of ancient origin, and the word, "domestic," which had been used to express an inferior article, has been reversed in its meaning to imply something even better than produced in many cases in older markets.

Since taking over the industry, Marshall Field & Company have not only enormously increased its output, but the quality of the product has been materially improved and the number of patterns run up into the thousands.

The lace curtain branch of the industry, while running day and night shifts, has had difficulty in keeping abreast of the demand, although nearly five million yards of curtain material, Nottingham, Filet, Cable Nets, Madras, etc., are produced in a year.

The production of the finest silk lace, from the best quality of Italian silk, of the Spanish allover and drapery type, is one of the recent developments of the industry. This represents the far-visions

recognition by the trade experts of a renaissance of lace fabrics for the new style cycle, which has already started.

Silk from Italy of the finest grade is used for the manufacture of these laces. For the other type only the finest Egyptian and Sea Island cotton yarns are used although so many of the yarns are delicate and sheer they must have great tensile strength, as they have to pass through these ponderous machines, some of them weighing ten tons each, in which thousands of threads are operating.

Producing annually millions of yards of yard lace and curtain materials, the Zion industries supply the American woman with lace to meet every need of her wardrobe and household. Their vast output is distributed through the retail stores of the country, furnishing American-made lace to the millions of American consumers.

Chicago—The World's Meat Market—Meat Packing Industry Has Made the City Famous

Chicago Is the World's Meat Market—No other city on the globe has such facilities for receiving, selling, and butchering livestock as Chicago can boast of. Packingtown, that great collection of packing plants and the Union Stock Yards which cares for the livestock until purchased by the plants, form the most gigantic meat handling business to be found anywhere in the world and together have made Chicago known as the meat center.

The development of the meat packing industry and the part it has played in the development of Chicago are graphically described in the following sketch of this great business by Charles E. Herrick, president of the Institute of American Meat Packers, in the following sketch of this great business:

"Chicago's rapid growth and its present position in world trade circles are due in no small measure to the development of the meat packing industry.

"In the days of America's early history the converting of livestock into meat was a local, small-scale business. Meat animals were raised and slaughtered in or very near the communities where the dressed meat was to be consumed.

"Large scale production of cattle and sheep kept in advance of the frontier of cultivated farms, and the readiness with which corn was grown on the fertile prairie soil of the middle west established the logical center for the production of swine and the finishing of cattle for market.

"As the eastern cities grew into larger and larger manufacturing sections, while at the same time, livestock production had been moving steadily westward, the limited production on the older and cultivated farms of the east could not keep pace with the greatly increased city demands. Supplies had to be brought from places farther and farther away.

"Typical of frontier agriculture in a new country, the free land, with unlimited grass range and lack of transportation facilities, was best adapted to the production of livestock. The livestock not only harvested the grass and converted it into an essential food commodity but also carried it to market on their own legs. Summer and fall, the highways would be dotted

with droves and flocks being driven from Ohio and other states of the Middle West to cities like New York or Philadelphia, and, at a later period, from the great prairie states of Texas, Oklahoma, the Dakotas, Iowa and like sections, to markets at Kansas City, Omaha and Chicago.

With the building of railroads, meat animals were shipped alive in stock cars instead of being driven across the country. Transportation facilities, however, were poor, and there was considerable waste from shrinkage and severe losses through death en route. Besides, it was uneconomical to pay freight on the whole animal.

Packing Plants Develop West of Alleghenies—The next step was the development of packing plants in cities west of the Alleghenies, nearer the source of raw materials. Cincinnati, which had been the livestock center of the United States, became the first important packing center in the country. Meat curing on a commercial scale at first was confined to the salting and packing of pork in barrels. From this process, the terms "packing industry" originated.

For a long time the bulk of the shipments from the new packing centers of the west consisted of cured pork products, either salt or pickled. The absence of any form of refrigerator car made the shipment of fresh beef or pork impracticable until about 1870, when the first successful refrigerator car experiment were made.

Soon after that, livestock raising took on a new importance in the middle and far West. The slaughter and sale of fresh meat became less of a seasonal business and, with the steady development of improvements in distribution, became an all-year-around business. Markets for livestock, and packing plants sprang up in many of the larger western cities.

From a community having a number of seasonal slaughter houses, for the production of fresh meats, distributed within a limited area, and of salt and pickled pork and beef for summer trade, Chicago became one of the most important centers of the more modern refrigerated packing plants.

As a livestock market, it grew with amazing swiftness. It was not long until Chicago took the leadership as a live stock market and packing center.

Chicago's First Slaughter House—It is recorded that Chicago's first slaughter house, built of logs, was erected in 1827 by Archibald Clybourn. It was situated at the north branch of the Chicago River, and its original use was for the killing of animals to supply the garrison at Fort Dearborn.

George W. Dole, employing two men who received the hides and tallow of the animals slaughtered as payment for their services, followed Mr. Clybourn in the slaughtering and meat packing industry. In this establishment in October, 1832, 152 head of cattle were slaughtered for a Detroit buyer, the product ultimately finding its way to New York.

Mr. Dole and Oliver Newberry formed a partnership two years later and erected a slaughtering house on the south branch of the Chicago River. The output of this establishment during the first year of its existence was about 300 head of cattle and 1,400 hogs. In the same year Gordon S. Hubbard slaughtered 5,000 hogs, but encountered difficulty in procuring barrels in which to pack the pork. These were finally brought from Cleveland at a cost to the purchaser of \$1.00 each.

These men and several others who engaged in the business many years before the Civil War were pioneers in Chicago's meat industry.

Open First Stock Yards in 1848—In 1848 the "Bull's Head Stockyards" were opened at the corner of Madison Street and Ogden Avenue. Herds of live stock were driven through the streets of Chicago and along the half-formed roads over the prairies to reach these yards. Eight years later, in 1856, the "Sherman" or "Myrick" yards were established on Cottage Grove Avenue.

Work on the stock yards located on the present site of the Union Stock Yards was begun in June, 1864. The site, which consisted of 300 acres of land purchased from "Long John" Wentworth for \$100,000, was considered an almost valueless marsh, impossible to drain.

However, on Christmas day, 1864, the Union Stock Yards of Chicago were opened for business. The pens at that time are said to have covered about 120 acres. The growth of the meat packing business here since has necessitated large additions to the yards from time to time and the purchase of more land. The present

acreage of the yards is about 475, and they have a daily capacity of 75,000 cattle, 300,000 hogs, 50,000 sheep and 6,000 horses.

How Packing Industry Grew In Chicago—The growth of the meat packing industry in Chicago before and during the Civil War is traced briefly in the following quotation from the Historical Encyclopedia of Illinois:

"The business of pork packing increased rapidly between 1859 and 1864. In the season of 1852-53 there were packed in this city only 48,156 hogs; in 1857-58 the number had increased to 99,262; in 1861-62 to 514,118, and in 1862-63 to 970,264. The following season showed a falling off, the number of hogs packed was light as compared with that at other great points of shipment, the number of hogs slaughtered in Cincinnati having decreased 250,000."

The following figures show the tremendous increase in slaughter at Chicago from 1870 to the present time:

| Year | Slaughter |
|------|------------|
| 1870 | 1,342 |
| 1880 | 6,335,728 |
| 1890 | 9,272,472 |
| 1900 | 11,695,159 |
| 1910 | 10,825,630 |
| 1919 | 14,903,487 |
| 1920 | 12,279,186 |
| 1921 | 12,075,727 |
| 1922 | 12,108,468 |

Chicago Is World's Greatest Meat Market—Chicago now is the world's greatest meat market. Live stock from 27 states is received at the stock yards here, and, after passing through the packing plants, is shipped as beef, mutton, pork, ham, bacon and other meat products, not only to all parts of the United States, but to all parts of the globe as well.

According to the latest pertinent figures issued by the Bureau of the Census, covering the year 1919, the value of the products of the meat packing plants of this city exceeds the value of the output of all the slaughtering and meat packing establishments in such cities as Omaha, Kansas City, Indianapolis, St. Louis, Buffalo, Cleveland, Baltimore and Cincinnati combined—the other leading packing centers of this country.

1919 Output of Chicago's Packing Plants Exceeded One Billion Dollars—The output of Chicago's slaughtering and meat packing establishments in the year 1919

numbering approximately 50, was valued, according to the census figures, at the tremendous total of \$1,083,090,049. This sum represented practically a third of the value of the output of all manufacturing industries in Chicago combined (\$3,658,740,000).

Approximately a seventh of all the meat produced annually in the United States is dressed and processed at Chicago—an amount that would be sufficient to supply for a year the entire population of the 15 for the largest cities of the United States, or all of France, Belgium, Holland, Denmark, Norway and Sweden, or to provide pound and a half of meat for every living human being.

Receipts, shipments and slaughter of live stock run into millions of animals yearly. The following figures show the extent of the movement of live stock at Chicago during 1922:

| | Receipts | Shipments |
|--------|------------|-----------|
| Cattle | 3,163,009 | 1,087,413 |
| Hogs | 771,492 | 49,722 |
| Sheep | 3,875,917 | 1,875,107 |
| | 15,964,887 | 4,262,248 |

Largest yearly total on record.

VALUATION OF LIVE STOCK RECEIVED AT CHICAGO

| | 1922 | 1921 | 1920 |
|--------|---------------|---------------|---------------|
| Cattle | \$246,699,131 | \$207,290,904 | \$243,688,453 |
| Calves | 10,561,422 | 12,238,407 | 15,631,186 |
| Hogs | 182,598,270 | 170,911,245 | 255,862,904 |
| Sheep | 27,546,422 | 23,485,002 | 43,520,829 |
| Horses | 4,733,250 | 5,395,680 | 7,748,690 |

\$433,844,813 \$427,291,788 \$656,421,232
(Source: Chicago Daily Drivers' Journal.)

It may be somewhat easier to comprehend the magnitude of the meat industry in Chicago, if some of the figures concerning it are expressed graphically.

For example, if all the animals which have been received at the Chicago stock yards since the yards were established here were placed in line, they would encircle the earth, reach from it to the moon, around the moon, and back to the earth, like a belt between two huge flywheels.

Chicago packers dressed 6,710,295 hogs during 1922. Placed in line, these hogs would stretch from San Francisco to New York and back to Dallas, Texas, or from Chicago to London.

An average of more than one and one-quarter million dollars' worth (\$1,250,000), of live stock was sold each day during 1922 in the Chicago stock yards.

Census figures covering the year 1919 show that Chicago packers paid out on each working day in excess of \$265,000 in salaries and wages, of which more than seven-eighths represented wages, and paid out daily in excess of three million dollars for raw material, principally live stock, or a total for the year of almost one billion dollars. These figures show also that Chicago's slaughtering and meat packing industry represents a capitalization of nearly \$396,000,000.

Much Meat Is Exported—Much meat is exported from Chicago. Figures showing exports from any particular city or section are not available, but, since Chicago produces approximately one-seventh of all meat produced in the United States, it is reasonable to assume that this city contributes a very considerable share of the supplies of meat and meat products sent to foreign countries. These exports last year amounted to the enormous total of 1-

758,968,000 pounds, valued at \$245,874,000.

Commenting on the importance of the live stock and meat packing industry to Chicago, M. F. Horine, statistician of the Union Stock Yards and Transit Company, has said:

"If it is shown that 225,000 of Chicago's population get their living directly from the business activities of the square mile occupied by the Union Stock Yards and another 225,000 get their living indirectly from the same source; that, in fact, the live stock and meat packing industry was the foundation and has always been the chief element of Chicago's wonderful growth and prosperity, and is today Chicago's leading industry; also that, while Chicago is the greatest grain market in the world, the greatest lumber market and probably the greatest wholesale dry goods market, yet there is more business done and more in actual value handled in her live stock trade alone than in her grain, lumber and dry goods combined; that, in short, Chicago is the head center of the nation's greatest single commercial interest, her great live stock market and correlated packing establishments constituting the mightiest aggregation of labor, capital and talent ever concentrated into one organized systematic volume of business, the ramifications of which extend into every department of mercantile life, and the products of which feed the armies and the nations of the world—then, perhaps, we may realize something not only of the magnitude and importance to the nation of Chicago's enormous trade in animals and meat products, but also the importance to Chicago of her commanding position at the head of the live stock world.

Illinois Is Leading Meat Producing State—The volume of the meat packing industry in Chicago is such that, when added to the output of other cities in the state, it makes Illinois one of the most important meat producing states in the Union.

Of the total animals slaughtered throughout the whole United States during 1919 according to census figures, approximately 27 per cent of the cattle; 19 per cent of the calves; 32 per cent of the sheep and lambs, and about 22 per cent of the hogs were slaughtered in Illinois.

Thousands of head of live stock also were shipped out of Illinois for slaughter elsewhere.

The census figures show further that the value of the live stock slaughtered in Illinois during the year 1919 exceeded \$796,000,000 and was greater than the combined value of all the corn, oats, wheat, barley, rye, buckwheat, mixed crops, dry beans, soy beans, dry peas, peanuts, flax seed, red clover, timothy seed, timothy hay, alfalfa, all fruit, vegetables, tobacco, broom corn and nuts produced in the state.

Illinois' slaughtering and meat packing plants in 1919 dressed and processed 1-

364,421,895 pounds of fresh beef; 162,307,710 pounds of lamb and mutton; 77,851,254 pounds of veal; 462,665,805 pounds of fresh pork; 1,181,812,053 pounds of pickled and cured pork; 180,619,145 pounds of sausage; and 467,185,468 pounds of lard, or enough meats to supply the population of Chicago for six

Meat Packing Is Nation's Largest Industry—Just as the slaughtering and meat packing industry is the largest industry in years.

Chicago, so too, according to the official census figures, it is the largest in value of output in the United States, if not in the world. Comparisons with other industries in the United States, as taken from a statement by the Bureau of Census, follow:

| Industries | Value of Products, 1919 |
|---|-------------------------|
| Slaughtering and meat packing | \$4,236,290,000 |
| Iron and steel, steel works and rolling mills | 2,512,775,000 |
| Automobiles | 2,387,833,000 |
| Foundry and machine shop products | 2,321,129,000 |
| Flour mill and grist mill products | 2,193,007,000 |
| Cotton goods | 1,887,919,000 |

The census figures show further that during the year 1919 the packing industry paid out for raw materials, principally for live stock, the sum of \$3,774,901,000 and that the total value of the products from this material was \$4,246,290,000. In other words, for every dollar of value in the finished products, the packers paid out for raw materials, principally live stock, about 89 cents. The packer's manufacturing margin, including wages and all production expenses, amounted to only about 11 per cent of the total value of the products.

The census figures also show that industry, on the average, paid out for raw materials only 59.4 per cent of the value of its products. This means that the average manufacturing margin for all industries in the United States in 1919 was about 40 per cent, as compared with only about 11 per cent for the packers, and in a way indicated the great efficiency of the packing industry.

Packers' Profits Have Been Small—Packers' profits always have been modest. On the average, in normal years when profits have been shown they represent only a small fraction of a cent per pound of product; a very small percentage on each dollar of sales, and only an average return on capital invested. No industry in the world probably operates on such a small margin of profit and gives such efficient service.

In this connection it is well to remember also that in the period of depression following the world war—for many industries, days of shutdowns and curtailed operations—the packing industry did not shut down or curtail its operations, but went ahead, absorbing all of the live stock which came to the markets from day to day and week to week. The packing industry, as a matter of fact, is noted for its stability of operation. It is a going business in good times and bad times alike, does not shut down in times of industrial depression, and maintains production even while repairs and alterations are being made in its plants.

Meat Industry Performs Important Economic Function—The meat packing industry renders a very valuable service and performs an important economic function. The bulk of our live stock supply is west of the Mississippi river; the bulk of our human population is east of the Mississippi. Without the meat packing industry to dress these meat animals near the source of supply and to process and cure the meat therefrom and to ship



A View in the Stock Yards

A view of the Chicago Union Stock Yards, the largest and greatest in the world.

it and distribute it to the consuming centers, citizens in our eastern cities would want for meat, and the western producers would be ruined for want of a market.

The meat packing industry supplies meat wherever it is wanted, in any desired volume, in winter or summer, and in any part of the country. For this service, it takes a profit from the average family of less than a nickel a week.

How By-Products Have Been Developed—One of the most interesting phases of the meat packing industry, aside from its enormous volume of production, its efficient service, and its low rate of profit, has been the development of by-products. In the days of the small local slaughterhouses, less than fifty years ago, the materials from which by-products are now made were dumped through a hole in the floor to the hogs underneath, were burned, buried, or thrown into a running stream, or, if the plant was located on the seaboard, cast on the shores of the ocean where the ebbing tides carried them out to sea.

The by-products of the meat packing industry are so numerous and are such staple articles of commerce that nearly everyone comes into daily contact with them. Among the principal by-products may be mentioned hides and leather, hair and wool, bones and horns, fertilizer, stock food, glue, pharmaceutical preparations, casings, oils and fats, musical strings and soaps. It should be borne in mind that the meat packing industry itself does not complete the manufacture and marketing of all by-products. Many products, after they have been processed to some extent by the meat packing industry, form the raw material for other important industries.

The development of by-products from material that formerly was not utilized is of great importance to both producers and consumers, since these by-products, by whatever is their net value, have increased the worth of the producer's live animal, or lowered the price of meat to the consumer, as compared with what it otherwise would have been.

Institute Is Trade and Research Association of Packing Industry—Virtually all of the important meat packing establishments in Chicago are members of the Institute of American Meat Packers, which is the trade and research association of the American meat packing industry. Its membership comprises more than 250 of the leading packing companies of the United States and Canada.

The Institute recently adopted a development plan, submitted by Thomas E. Wilson, of Chicago, which provides for the ultimate creation at Chicago of "a combined educational institution, research institution, trade association, and industrial museum." This institution will be national, not local, in character and will serve the entire packing industry.

Funds totaling \$150,000 have been raised by voluntary subscription within the industry to cover the necessary surveys and initial developments during a three-year period.

It is proposed to provide systematic instruction for men already engaged in the industry as well as for men intending to enter the industry. This will be hand-

led through a Bureau of Industrial Education, already organized, which is making a thoroughgoing survey of the educational possibilities and difficulties of the American meat packing industry. Future instruction will be shaped largely by the results of the survey.

A Bureau of Scientific Research will be established at once. It is believed that co-operative research will effect many savings, and solve many scientific problems of the industry on which information is now incomplete. Provision also has been made for creating a Bureau of Packing-house Practice and Research, the work of which is obviously of high importance.

Additional bureaus recently established and now in active operation include a Bureau of Nutrition, a Bureau of Home Economics, and a Bureau of Merchandising.

These bureaus indicate in some measure the provision the Institute has made for orderly and directed development of its research, educational and trade activities. Pains have been taken to insure the development of the Institute Plan by sound methods and along effective lines.

No attempt will be made to accomplish the whole Institute Plan more hastily than circumstances and the development of the industry warrant. Achievement of the Plan will show substantial progress during the immediate future but at every stage haste must wait on soundness. The whole plan will require years for its full accomplishment.

A series of lectures at the University of Chicago, giving a perspective survey of the meat industry was one of the first steps in the plan of the Institute to develop at Chicago an institution which will combine with the research and technical facilities of Continental industrial institutes the trade activities and exposition features of American business associations. These lectures were delivered by authorities in various departments of the live stock and meat industry.

The development of a national educational and research institution, with physical headquarters here, typifies the progressive spirit of America's—and Chicago's—great industry.

Chicago's Lithographing Industry Holds High Rank—City Is Noted for Its Excellent Plants

Chicago is fast becoming known as the producer of the finest type of the lithographing art. Already the industry as it is being conducted today in this city is a great importance and major rank.

Nearly 2,500 men are employed in lithographing plants in Chicago of which there are 42 with equipment valued at more than \$6,000,000.

Aside from the splendid equipment of its many progressive plants, operating nearly two hundred and fifty machines of various types, among which are included a large number of the most modern multi-color high speed rotary and offset presses, the very location of this city makes it logical that lithography should be done here.

The lithography industry is one that must be located in centers of industry. Chicago is within 500 miles of two-thirds of the national advertisers, including the automobile manufacturers of Detroit, Toledo, Cleveland and Wisconsin; the Kan-

sas City and Omaha packers, the cereal manufacturers of Minnesota, and the manufacturers of St. Louis and Milwaukee. In Chicago alone are over 20,000 manufacturers.

Chicago To Be Center of Industry—Lithography depends upon the quality of the workmen doing the work. It is really an art, operated by artists. It requires trained and skilled workmen. Chicago is both a labor and art center. It can supply the right kind of labor and skill with ease, when other cities are in the throes of strikes and lockouts. It is destined, therefore, to be the lithographic center of the United States.

The lithographers of this city number among their regular clients the leading clothing, cracker, bread, tobacco, paint, milling and shoe manufacturers of the country. The leading mail order houses, as well as many of the leading magazines and periodicals, have selected Chicago printing plants to do their work at an enormous saving in mail rates and express transportation.

Chicago has been an important factor in the amount of lithography done in other cities. Twenty-six out-of-town organizations maintain branch offices in Chicago to solicit business from our advertisers. Seven million five hundred thousand dollars' worth of orders were placed outside of Chicago in 1919. But the workmanship of Chicago's plants now ranks foremost in the country.

The present capacity of Chicago lithographing plants totals about \$12,000,000. During the war one Chicago plant alone produced a total of 86,667,477 pieces of advertising matter for the U. S. Treasury Department War Loan Organization, and over 20,000,000 other posters for other governmental work.

A partial list of the modern lithographing plants which have made Chicago famous is as follows:

Adams Bank Note Co.
Addison Lithograph Co.
Advance Lithograph Co., The
American Bank Note Co.,
American Lithographing Co.
American Poster Corporation.
Bankers' Supply Co.
Calvert Lithograph Co.
Carqueville Lithograph Co.
Central Banknote Co.
Central Lithograph Co.
Central Lithographing Co.
Channell Can Co.
Chicago Offset Printing Co.
Cole Lithograph Co.
Columbian Art Works.
Columbian Bank Note Co.
Commercial Poster Co., The
Compton & Sons.
Continental Lithograph Co.
Donaldson Lithographing Co.
Eagle Lithographing Co.
Edwards & Deutsch Lithograph Co.
Erie Lithograph & Printing Co.
Fidelity Bank Note Co.
Forbes Lithograph Mfg. Co., The
Goes Lithographing Co.
Gugler Lithographing Co.
Henderson Litho Co., The
Herman Lithograph Co., The
Heywood Strasser & Voight Litho. Co.
Hilton Lithographing Company.
Illinois Lithographing Co., Inc.

Johnson Photo Lithographing Co.
Karle Lithographic Co.
Kaufmann & Strauss Co., Inc.
Ketterlinus Lithographic Mfg. Co.
Läke View Lithographing Co.
G. H. Larson Nels.
Loeb Emanuel & Co.
Magill-Weinsheimer Co.
J. O. McCord
Marquette Lithograph Co.
Merchants Lithograph Co.
Metal Lithographing & Coating Corp.
Mid-West Lithographing Co.
Mobile Lithographic Co.
Monarch Litho Co.
Monasch Lithograph Co.
Monson Thormod & Son.
Morgan Lithograph Co.
National Printing & Engraving Co.
Newman Rudolph Lithograph Co.
Niagara Lithographing Co.
Northern Bank Company.
Northern Bank Note Co.
Northwestern Lithograph Co.
R. Manning O'Connor
Otis Lithograph Co.
Palluth & Bartos
P. F. Pettibone & Co.
E. H. Platter.
Premier Lithograph Co.
W. J. Rankin.

Rayner Dalheim & Co.
The Regensteiner Corp.
Reynolds & Reynolds Co., The
Rolland & Carqueville Co.
Royal Lithograph Co.
Theo. A. Schmidt Lithographing Co.
A. G. Schneider.
Sherwood Lithograph Co.
Standard Bank Note Co.
Stecher Lithographing Co.
Stemar Display & Carton Co.
Stromberg Allen & Co.
The Stubbs Co.
M. Umbdenstock & Co.
U. S. Lithograph Co.
The U. S. Printing & Lithograph Co.
VanClief Lithograph Co.
Walker Hayward.
R. Walter Fredk.
Walter & Spencer Co.
Harry A. Washer & Sons.
Washington Planograph Co.
Weber Lithograph Co.
Wilman's Bros. Co.
P. M. Wilson Co.
Wood Rusling.
Zeuch Lithograph Co.
Herbert E. Zipprodt.

Chicago as an Ice Cream Center—Many Large Plants Turn Out Millions of Gallons

With a number of large, and modern ice cream factories in Chicago turning out millions of gallons of ice cream every year, Chicago is known all over the middle west as the premier ice cream center of the Mississippi Valley.

One of the reasons for Chicago's pre-eminence in the ice cream field is the fact that in the city there is located one of the largest, most modern and up-to-date ice cream plants in the country. This company made last year in the neighborhood of 2,000,000 gallons of ice cream. Here this combination confection-food is manufactured under ideal conditions as the company utilizes the carbonating process in producing it.

Invents New Process—This process is the invention of W. Paul Heath, food expert. Briefly the process means that the cream is frozen in an atmosphere of carbon dioxide instead of ordinary air. From the standpoint of but purity alone, the advantage of the process is obvious.

Chicago Invented Industrial Movies—First Motion Pictures for Merchandising Purposes Were Made Here

Industrial and advertising motion picture films were first developed in Chicago and this city still leads in the production of that type of film.

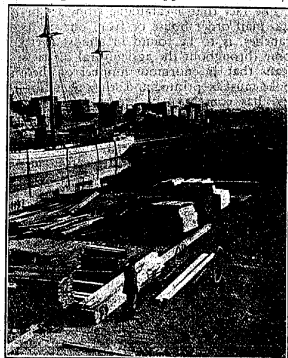
Chicago is also a great center for the manufacture of theatre films. The "regular movies" in which Charlie Chaplin gallantly mounts his tin charger or Mary Pickford shakes her envied curls, may be originally produced at studios in Los Angeles or New York, so far as negatives are concerned, but a large portion of these negatives are brought to Chicago for multiplication into the hundreds of positive film prints which the theatres use. Among the negatives sent to Chicago are those of the Talmadge Sisters, Charles Ray, Katharine MacDonald, Anita Stewart and Clara Kimball Young. Hundreds of thousands of feet of film are turned out in Chicago every week.

Chicago is Great Distributing Center for Lumber—Ever Since Pioneer Days Chicago Has Been Active in Merchandising Forest Products

Lumber from all parts of the world find its way to Chicago which leads in the marketing of it and its manufacture into finished products.

From the old days of the lumbering industry in Michigan down to the present day Chicago has been alert and active in marketing lumber. The leadership which the city acquired in the late sixties when lumber from the forests of Michigan was brought to Chicago and auctioned off on the water front, has never been relinquished and today finds Chicago supreme as a lumber market in the middle west.

The Amount Handled—During 1920 the lumber handled in the Chicago market amounted to 2,418,133,475 feet. This showing cannot be approached in any



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View shows the immense of lumber yards on Chicago's south side.

other city in the world. It proves that Chicago is easily maintaining the supremacy in the lumber market that was attained some thirty years ago.

Of the amount mentioned 1,459,958,475 feet were consumed in Chicago, leaving 958,175,000 as the amount shipped to other points. No other city can approach this amount of lumber used in its industries. The lumber is used in the numerous furniture factories, in the manufacture of agricultural machinery, in the making of boxes, in building and in many other ways. Ordinarily the building industry is a heavy consumer of lumber, and now with the building boom in progress, the demand is greater than usual.

As compared with 1919 consumption of lumber in the Chicago market in 1920 showed an increase of 289,573,820 shipments increased 95,329,000 and city consumption was 194,244,820 greater.

These figures do not equal those reached during 1917, when receipts of lumber of the Chicago market were 3,354,117,000 feet. The increase during 1917 and in 1916, when receipts were almost as heavy, were attributed to war conditions. Then receipts slumped back considerably, but they have since begun to recover and are now on a basis of normal growth.

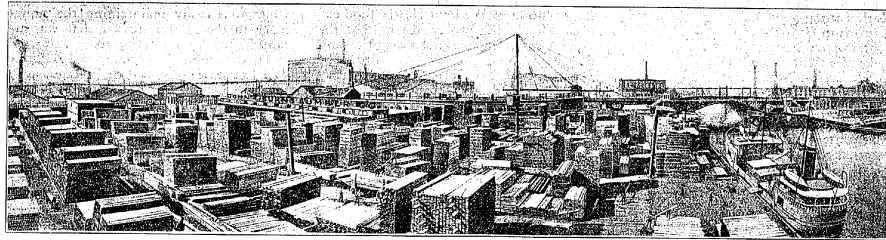
Forest Products Come By Rail—From receipts of lumber by water from the vast forests of Michigan, Wisconsin, Minnesota and Canada in years past, Chicago has reached a period now where it is receiving by rail most of its lumber and forest products from more distant points.

Far off Washington and Oregon with their great forests of fir, red cedar, hemlock and spruce are no inconsiderable factors today, in supplying the city with needed stocks for its diversified needs locally and for general distribution to the central Western and Eastern United States markets. California forests are giving their sugar pine, western pine and redwood lumber in constantly increasing quantities and the Inland Empire of Idaho, Eastern Washington and Montana are providing white pine, western pine, fir and larch in considerable volume.

In California lumber is transported through the mountains in flumes, many of them 60 miles in length, and then loaded aboard trains for Chicago. And again lumber comes to Chicago from the Southern forests where beautiful moss hangs from the trees and where teams of oxen are the motive power of transportation.

One lumber yard alone in Chicago comprises 45 acres and has an entire mile of water frontage to say nothing of twenty branch yards in Cook County. Although today the greater part of the lumber product is handled by rail more than a score of lumber vessels ply in and out of Chicago's harbor.

Lumber Industry Shows Changes—The lumber industry of Chicago has gone through revolutionary changes since it was established. At first, practically all the lumber handled here came from the great pine forests of Michigan, which produced a quality of lumber which for many purposes had no equal. This lumber was within easy reach and was brought to Chicago mostly in sailing vessels, the old time



View of a present up-to-date Chicago lumber yard.

"lumber hookers." Mills were numerous on the east shore of the lake. They worked steadily and the lumber poured into the Chicago market. The lake was dotted with sails at that time. But the forests of Michigan were exhausted in time and the old sailing vessels became extinct.

When the supply of white pine near home had given out other kinds of lumber came into use. Railroads supplanted vessels as transporters of lumber. Centers of consumption also moved from one city to another.

Yet with all these changes Chicago has retained the lead in the lumber industry. Here in Chicago first was conceived the idea of taking the log run lumber from the rail of the vessel and assorting it into qualities and sizes to fit the public needs. It is a laudable reflection upon the far-sightedness and sagacity of those who were then identified with the business, to accord them the distinction of having first perceived the advantage of establishing assortments of the various grades of forest products, to fit specific needs and to provide to the consumer, what he wanted and could use to best advantage.

What has made it possible for Chicago to retain this leadership?

First, her advantageous geographical location. Second, the growth and development of her railroad facilities, and third, the splendid industrial growth in the city and its environs, that have placed it first of all in the markets of the world as a user and consumer of wood products.

Chicago is Center of Mail Order Business—Greatest Mail Order Houses in the World Are Located Here

Chicago has many industries that advertise the city and its business advantages throughout the nation, but it is doubtful if there are any that can equal the record made in this field by the mail order houses. Catalogues from the Chicago houses are to be found in every part of the United States, as well as in every country of the world that has parcels post service. Buyers in all parts of the country have formed the habit of writing to Chicago when they wish to make purchases, and it is the mail order houses that are largely responsible for this fact, which represents one of the most direct and effective forms of advertising for any community.

93 Mail Order Firms—Chicago, with 93 firms that devote their attention exclusively to the mail order business, leads the world in this line of commercial activity. Largely because of the activities of these concerns, the post-office in Chicago handles

more first class mail, more third class, and more parcels post packages than any other city.

The mail order houses of Chicago are of all types and sizes. Some are small, but there are at least ten concerns whose business runs into the millions annually. Two of these houses handle such a heavy business that the reports of their sales, month by month, are used by the United States Department of Commerce as an indication of business conditions throughout the country.

Two Big Mail Order Houses—These firms are Sears, Roebuck & Co. and Montgomery Ward & Co. Total sales made by the first mentioned firm amounted to \$245,373,418 during 1920. It is probable that the decline for 1921 sales is more apparent than real, that is, the difference is due more to the lower scale of prices than to a slackening in the number of purchases.

The business of the mail order houses is transacted in every country of the world that has parcels post service, but the great bulk of sales are in the rich agricultural regions of the Mississippi Valley. It is impossible to obtain exact figures showing the grand total of mail order sales made in Chicago, but estimates run all the way from \$500,000,000 to more than \$1,000,000,000 annually. One reason why it is difficult to come anywhere near the real figures is that there are numerous big houses that do business partly by salesmen and partly by mail.

The fact that a catalogue from a Chicago mail order house or from one of its branches, is to be found in almost every home throughout the agricultural districts means that an enormous number of these books must be printed and sent out. Chicago has consequently become the great center for this form of printing.

Another important by-product of the mail order business is that the big houses have branched out into manufacturing and are now making many of the articles that they sell. Some of the big houses manufacture clothing, shoes, agricultural implements, harness, wallpaper and are active also in numerous other lines.

The success of the mail order houses is due, according to those who are familiar with the details of how this business is handled, to a quick "turn-over" policy, quick sales, low prices and a large volume of trade. Every effort is made to satisfy the customers. During the period of deflation the mail order houses were the first to write off losses on inventories, hence their recovery was rapid.

Chicago the Birth Place of Mail Order Business—Chicago was the birthplace of the mail order business. It was here that the idea was originated and its greatest development has taken place in Chicago. The start was made in 1872 by A. Montgomery Ward and George R. Thorne. The first catalogue they issued was small enough to slip into a coat pocket. It is now a curiosity and is occasionally seen at exhibits.

Some of the mail order houses passed through periods of severe stress during their earlier days. As soon as they were well established their business expanded rapidly and they were soon sending goods to almost all parts of the world. Shipments were especially large to India, China and other points in the far East, the interior of South America, South Africa and more recently Mexico. Branch houses have been established in many parts of the United States, but the business of these institutions is centered about the parent houses in Chicago. Although the business has spread through many countries its stronghold is in the farming districts of this nation.

It was formerly remarked that the mail order houses handled everything, from a needle to a traction engine, but more recently the business has been growing away from the heavier articles. These concerns now handle practically everything except automobiles. The catalogues that are sent out are extremely large volumes that are distributed practically by the carload. Printing of these books has been built up into an industry of considerable size.

No salesmen are sent out by these houses. The customer makes out his order from the catalogue and sends it in along with the cash. The mail order men claim that they succeed because they give service. They do not dispute with customers. The goods are sent out under the broad guarantee that money will be refunded and no questions asked if the goods do not prove as represented.

The plants of the mail order houses have grown until they are of extraordinary dimensions. One of the plants almost represents a city in itself. It is frequently visited by those who come to Chicago to see the big establishments.

Chicago Leads the World in Jobbing and Retailing Millinery—Expansion in This Business Has Been Rapid

During recent years the millinery houses in Chicago have made such rapid strides in expanding their business that Chicago is now rated as the largest millinery jobbing-center in the world.

In the three departments of manufacturing, distributing and retailing millinery, Chicago stands supreme. This is just one more field in which the city has taken the lead. Chicago's turn over in this business is approximately \$30,000,000 a year.

Leadership in this line has come to Chicago within the last six years and was mainly the result of war conditions. The reason for this was that the war brought about a shattering of traditions that had kept the millinery trade centered elsewhere for many years, although Chicago was well equipped to handle it. Railroad congestion and other difficulties during the war period made it necessary for many purchasers from other cities to do their buying in Chicago, a change that they made, for the most part, with the idea that it would be only temporary. The experience showed them that it was to their advantage to continue to make purchases at this point. The great increase in sales is proof that many buyers have transferred their business to Chicago during recent years who formerly made their purchases elsewhere.

The causes which have aided in the development of the millinery trade are the same that have brought about expansion in other lines, namely, that Chicago can furnish high class goods and make deliveries quickly. The factories which send out these goods employ the best designers who keep abreast of the times. These designers make regular trips to Paris and to other points, so that they are kept well informed regarding styles, which is one of the main points in this, as well as in other lines that supply the trade.

Largest Hat and Bonnet Shop—No city in the world can show a retail hat and bonnet shop of the size of the one in a Chicago department store. This particular shop heads the list with a business of more than \$2,000,000 a year. The largest jobbing house in the world devoted exclusively to millinery and milliners' supplies is in Chicago and has an estimated turnover of \$7,000,000 a year. Easter flowers by the acre, and unimaginable quantities of bows, feathers and other "fixings" are spread before the eye.

The factories and shops of Chicago employ some 25,000 workers, though no actual count can be given because of the many scattered small establishments. There are factories that employ as many as 1,000 persons under one roof and occupy whole modern buildings of six to ten stories. One of these makes an annual output amounting to \$1,500,000 wholesale. The women and girls who work on the actual manual operations average \$18 a week and some earn as high as \$60 a week.

Shipments to New York—Perhaps the most surprising fact discovered in this connection is that one Chicago house sends to New York every year about \$750,000 worth of millinery. This house has customers in Alaska, Cuba, Mexico, New Zealand and Japan. It ships goods even to France, where the most captivating headgear is popularly supposed to grow by some special magic. The great bulk of the Chicago millinery product, however, is sold to the 50,000,000 people in the western and middle western states. To serve that area, Chicago is supremely qual-

ified by geographic situation and unequalled transportation facilities.

Some Chicago concerns also conduct the millinery department in department stores in numerous other cities. Such a millinery department is run in the name of the local store and the customers regard it as a part of Brown's, Smith's or Jones' business, no less than the dry goods, shoes or anything else. In reality, it is a separate enterprise, paying a percentage to Brown, Smith or Jones, the store owner, but managed and controlled by the special millinery concern. Chicago leads in the number and importance of such organizations and does through them a business of \$8,000,000 to \$10,000,000 a year.

Wholesale milliners are much benefitted by the perfection of the less than carload shipments plan which has been developed in the Chicago district. Under this system shipments sent out by many houses are grouped, and in this way it is possible to send a carload to a given point. The great amount of shipments sent out daily makes it possible to make up a carload quickly and thus ensure speedy delivery.

Chicago Has Largest Municipal Lighting System in the World—Now Operating 54,000 Street Lights

Chicago has the largest municipal lighting system in the world. It operated during the year 1922, 54,000 electric street lamps which cost the city \$1,400,000. During 1923 this number will be increased, making Chicago the "brightest spot" on the globe.

The first municipal electric lighting system was placed in operation on Christmas Eve, 1887. The location of the first station was in the basement of Chemical Engine Co. No. 1 at Clinton and Washington streets. The equipment consisted of one 125 H. P. engine and four 30-light, low tension, dynamos. One hundred lights were placed in service, lighting the river at street intersections.

The energy for the operation of Chicago's street lamps is obtained from the Hydro-Electric plant of the Sanitary District at an annual rate of \$15 per kilowatt, or \$0.0044 per kilowatt hour. The cost of operation has decreased, due to economical methods, introduction of more efficient types of lighting units and reduction of current rates, from an average of \$55.40 per lamp in 1906 to an average of \$24.85 per lamp in 1922.

Five Types of Lamps in Use—Five types of lamps are in use ranging from 100 to 1,000 candle power. One thousand flickering candles at a business street intersection might be arranged to provide an artistic lighting effect, but with Chicago's reputation as a windy city the chances are that the first ones would be out before the 1000th could be lighted.

The Department of Gas and Electricity operates in residence districts a large number of 100 candle power, 4 ampere gas-filled series incandescent lamps. A submarine cable is laid in the parkway and ornamental cast-iron or concrete posts are installed to carry the lamp equipment. Seventy-five of these lamps are installed per mile of street, two being placed at each street intersection, one at each intersection of a street and an alley, and in general one lamp for each 75 lineal feet of street.

New Type of Residence Lighting System—A new type of residence lighting system (known as the group lighting system) has been designed. Twenty-one thousand lamps have been installed on this type of circuit and an additional fourteen thousand lamps are being installed. This system is constructed at a saving of 13 per cent in first cost and so designed that it is impossible for the public to come in contact with dangerous voltages. In the technical language of the electrician it is explained as follows:

The cables are laid in the parkway, a 5,000-volt cable being used for the primary circuit and a 600-volt cable for the secondary circuit. For street and alley crossings the cable is protected by fiber, conduit encased in concrete, or steel pipe, which is pushed from curb to curb without disturbing the existing pavement.

There are 250 to 350 100-candle power series lamps operated in groups of 17 to 31 lamps for each group. Each group is connected to the secondary side of a series transformer which operates at 6.6 ampere primary with a ratio of 1 to 1. There are usually twelve of these transformers with their primary windings connected in series on each 5,000 volt circuit.

Chicago Ranks First as a Producer of Petroleum Products—Large Production by Two Great Companies

The Chicago district leads the world when it comes to producing refined petroleum products.

No other section of the country can rival the Chicago area as a refining center except a portion of the New Jersey coast where crude oil is refined for foreign consumption.

Some idea of the size of the business in this district can be secured from a glance at the refineries of the Sinclair Refining Company and the Standard Oil Company of Indiana, which operate here and occupy about 2,500 acres with their plants. This property and the improvements thereon represent an investment of approximately \$75,000,000. The refineries which these companies operate are the largest in the United States and the finished products they turn out are shipped all over the country.

Daily Output Heavy—In fact, 150,000 barrels of finished products are turned out each day by these two large companies, which employ approximately 10,000 workers in their plants. The annual salaries of these employers total about \$15,000,000.

Riding through the East Chicago district where both the Sinclair and Standard Companies are located, the visitor soon knows when he is in the vicinity of the refineries as the air is heavy and pungent with the odor of crude oil and vapors given off in the refining process. Tank after tank can be seen in the yards of plants and hundreds of tank cars are being switched back and forth.

The Pipe Line System—Chicago is the terminal of the greatest system of oil transporting pipe lines known. These lines bring oil from the wells in the southwest to the refineries. This pipe line system entering the Chicago area is the most notable example of this type of construction work in modern times and was built by the Sinclair Company. It is the last

word in transportation efficiency as applied to bulk commodities. The trunk lines extend from the various producing fields of northern Texas, Oklahoma and Kansas to the company's refineries in the mid-continent field, Kansas City and Chicago.

The field gathering lines of the system extend throughout practically all of the producing districts of Kansas, Oklahoma and Northern Texas, wherein is produced and marketed approximately 500,000,000 barrels of light crude oil, or about 65 per cent of the light grade crude oil produced in the United States.

Location Ideal—Chicago's pre-eminence in the production of refined petroleum products is in part due to its superior location.

A more advantageous location than that at East Chicago could hardly be found for such an industry. From an industrial point of view it is well nigh perfect. The Indiana Harbor canal furnishes a gateway to all points on the Great Lakes and even to foreign countries. Direct connection to all the great trunk lines radiating from Chicago as the center is furnished by three railroads. In these refineries so advantageously located, is found that most modern equipment.

Chicago and Oil—Although Chicago now leads the world as an oil center, its prestige will be even greater within a few years, as with the increased consumption of gasoline and oil the refineries situated on the Chicago district will turn out an even greater volume of finished products. Meantime, connected with the great oil fields of the south by a marvelous trunk line, and possessing the largest and most modern refineries in the country, the Chicago area is without doubt the great distributing center on the oil map.

Chicago's Wonderful Package Freight Service is Great Aid to Business—2,500 Cars Used Daily

More than 2,500 package freight cars by which small town merchants are supplied with the newest and freshest merchandise now leave Chicago daily. As a result buyers are flocking to Chicago, the central market, because they know that it means a saving of time in the delivery of goods to buy in this city with its package freight service.

This service is one that insures speedy delivery of merchandise in lots less than a carload. Under the system initiated through the Association of Commerce in co-operation with the railroads all consignments are consolidated so that delays in making transfer are avoided.

Old Method Was Slow—Before the days of this system small shipments went out in a haphazard sort of way and the merchant in Waco, Texas, or some other such point, considered himself lucky if the piano he ordered for Christmas arrived sometime around Easter. Now he gets it in five days.

Through package freight reaches Jackson, Miss., in three days; Tampa, Fla., in five; Fort Worth and Dallas, Tex., in four and Nashville in two. Almost any point in Illinois or Indiana is reached the morning after the day of shipment.

This merchandise service is the result of years of study of the needs of the small town merchant and a thorough analysis

of the country's vast network of rail transportation. By way of illustration of what had to be overcome it may be stated that there are more than 200 different ways of routing freight from Chicago to Charlotte, N. C., but only one route has a through package car to Charlotte.

It required several years of study to determine the quickest and most economical route to this point. Test shipments were made over many of the 200 different routes and in some instances shippers' representatives or representatives of the Association of Commerce freight traffic bureau made personal inspections.

Chicago Logical Pivot for Package Freight Scheme—Chicago, with the world's greatest transportation facilities and the market place of 50,000,000 people within a night's ride, is the logical pivot for such a freight delivery scheme. Thirty-nine railroads, including 25 great systems, terminate here. This represents 40 per cent of the railroad mileage of the United States. Fourteen belt line railroads, comprising 1,400 miles of track, one-third of the total belt mileage of the United States, make connections between the great trunk lines.

Chicago has more than 100 railroad yards for the dispatch of freight shipments. There are 315 freight receiving stations located at convenient points throughout the city. The Clearing Yards have a daily capacity of 10,000 freight cars. This elasticity of transportation has brought about the establishment of equitable freight rates which give consignees in the Chicago trade zone a great advantage in dealing direct with the Chicago market.

Chicago's 2,500 package freight cars daily go to 1,800 shipping points in 40 states, from which 60,000 other points can be reached with one transfer. The daily tonnage of freight is about 25,000. Were all these cars coupled together they would make a train more than 25 miles long.

Shipments Valued at Millions—The value of Chicago's package freight shipments runs into millions of dollars daily. There are no accurate records because a package car is filled with a large range of goods. A package of silks may be worth \$1,000 but a package of the same size containing tinware only \$10. From 300 to 700 packages are put in one car.

In trying to arrive at a rough estimate of the value of the 2,500 daily cars of package freight, one expert hazarded a guess of \$25,000 per car. That would be \$62,500,000 a day. Another put it at \$1,000 a car, or \$2,500,000 a day. By striking a general average between these figures, the daily shipment would amount to more than \$30,000,000.

The chief advantages of through package freight are in the saving of time and the condition of goods at destination. Many claims for damage, loss and delays are avoided.

Service is Excellent—Chicago's system has reached such a fine state of development that it can beat St. Louis in her own territory in the matter of service. There are many places in Texas to which, by correct routing, Chicago is able to overtake other advantages of the St. Louis market. For example, shipments to Laredo, Amarillo and El Paso, Texas,

can be made in less time from Chicago than from St. Louis.

In one of four Chicago union freight stations, operated by the Chicago Junction Railway, just taken over by the New York Central, 125 cars are loaded at one time. It handles about 350 cars a day. It takes a lot of tonnage to satisfy 39 railroads calling for freight several times a day, but such is the package business of Chicago that there hardly ever is a time when the demand cannot be filled. These universal freight stations are clearing houses for all less than carload shipments.

The big shipper loads his shipment directly into cars at his factory. If he has loaded into one car a number of packages going to different destinations, that car is moved from the factory track at 6 P. M. It is taken to the universal freight station and placed at the platform ready for unloading at 7 A. M. on the following day.

When the shipper loads his car he places the billing in a box for that purpose at the factory door. At 6 P. M. a Chicago Junction Railway automobile collects all these bills and takes them to the freight station. A night force of clerks figures the rates and makes out the waybills. At noon the following day the bills are returned to the shipper.

At 7 A. M. the cars at the universal freight station are unloaded and the packages are sorted. Each package is placed in a car going to the destination of that package. Electric elevators connect the five warehouse floors with the loading and transfer platforms, greatly facilitating the work of getting the freight to its destination.

At 2 P. M. the shipments have all been sorted and reloaded, and at 6 P. M. the Chicago Junction Railway takes the cars to the various trunk lines. It has direct connection with every system entering Chicago.

A Union Freight Station—The first attempt at establishing a union freight station was made in 1902 by R. Fitzgerald, then president of the Chicago Junction. He had a force of four men and the first day's business consisted of 13 tons of freight. Now the daily average is about 1,985 tons.

The movement of freight is followed up not only out of Chicago, but to destination and gateway points where union freight stations cars are handled.

Agents of the Chicago Junction Railway keep a close check on shipments from loading to unloading. New through routes are continually being established and wherever this is done a representative of the company accompanies the car to its destination to get first hand information on time and service as a basis for all future shipments on that particular route.

In "The Way to Ship," a loose-leaf book of some 300 pages, compiled by J. F. Morton, manager of the Chicago Association of Commerce freight service department, all the package freight routings for the U. S. and Canada are given. It points out that the proper routing of freight is more than a transportation problem, that it means satisfaction to the seller as well as the buyer and that the service creates a desire to trade in this market. Its instructions to shipper includes:

"Chicago has the tonnage, the railroads have the cars, and the Chicago Association of Commerce can, with your co-operation and the extensive transportation facilities of this city, give you the best service of any in the country."

Smaller Shipper Served—For the smaller shipper who has no direct railway connections and who probably would not be able to fill a car with assorted packages, the union freight station is a great convenience and time saver. He loads his truck with freight going out on a dozen roads and takes it all to the Chicago Junction, where it is sorted and transferred, instead of making stops at the freight stations of twelve roads.

It is not necessary for the shipper to send his package to a down town freight house or to any consolidated car loader to get prompt service, as all scheduled cars are so handled that they leave Chicago in through merchandise trains and get the same service as cars from the down town freight houses, thus saving time, transfer and damage frequently caused by transfer. The trunk lines are working in harmony with the Chicago Junction and are striving to put into operation as many more of these cars as possible.

A large percentage of Chicago's package freight goes through the union freight houses of the Chicago Junction Railway.

The loading platforms of the freight stations and the shipping rooms in the large wholesale houses, chiefly dry goods, are veritable beehives of industry. At one of the large dry goods houses an average of 1,200 packages are put up and shipped daily.

At some of the wholesale grocery houses the average is even higher.

Thousands of persons are employed in the shipping rooms of these big stores. On the loading platforms of the Chicago Junction Railway there is a force of several thousand men.

Chicago merchandise handled by package freight is distributed more economically, rapidly and efficiently than it can be done anywhere else in the world.

FACTS ABOUT PACKAGE FREIGHT

Twenty-five thousand tons of merchandise of an estimated value of \$30,000,000 shipped daily.

Through destination cars to 1,800 points in 40 states, from which 60,000 other points can be reached with one transfer.

There are more than 200 different ways of routing freight to Charlotte, N. C., but only one route has a through package car.

Chicago merchandise distributed more economically, rapidly and efficiently than it can be done anywhere else in the world.

The appended table shows the speed with which package freight is delivered.

| City | No. of Days | City | No. of Days | City | No. of Days | City | No. of Days | City | No. of Days |
|-------------------|-------------|--------------|-------------|--------------------|-------------|---------------|-------------|----------------|-------------|
| Albany | 1 | Dallas | 4 | Houston | 5 | Mobile | 4 | Salt Lake City | 6 |
| Albuquerque | 6 | Davenport | 1 | Huntington, W. Va. | 2 | Montgomery | 3 | San Antonio | 5 |
| Altoona | 3 | Denver | 1 | Indianapolis | 3 | Montreal | 3 | San Francisco | 9 |
| Asheville | 4 | Detroit | 1 | Indianapolis | 2 | Nashville | 3 | Seattle | 11 |
| Baltimore | 4 | Duluth | 2 | Indianapolis | 2 | Norfolk | 4 | Sioux Falls | 3 |
| Birmingham | 3 | Elbert | 2 | Jersey City | 3 | New Orleans | 4 | Spartanburg | 4 |
| Boston | 3 | El Paso | 2 | Kansas City | 3 | New York | 4 | Syracuse | 3 |
| Buffalo | 3 | Escanaba | 3 | Knoxville | 3 | Norfolk | 4 | Tacoma | 10 |
| Charleston, S. C. | 4 | Evansville | 1 | Little Rock | 3 | Oklahoma City | 4 | Tampa | 6 |
| Charlotte | 4 | Fort Wayne | 1 | Los Angeles | 1 | Omaha | 3 | Toronto | 3 |
| Cheyanne | 4 | Grand Rapids | 1 | Los Angeles | 1 | Paducah | 3 | Trinidad | 4 |
| Cincinnati | 2 | Green Bay | 2 | Louisville | 2 | Pittsburgh | 2 | Tulsa | 3 |
| Cleveland | 3 | Grand Rapids | 1 | Madison | 3 | Pueblo | 3 | Vancouver | 11 |
| Colorado Springs | 5 | Green Bay | 2 | Memphis | 3 | Richmond, Va. | 4 | Vincennes | 1 |
| Council Bluffs | 3 | Green Bay | 2 | Minneapolis | 3 | Rochester | 4 | Wichita | 3 |

To some of the above points the time is almost equal to that of express service.

Chicago is Center for Distribution of Paper—Is Also a Great Consumer of This Product

Chicago is a great distributor of paper for the middle west. Immense supplies of this indispensable product are kept on hand by the large paper houses in the city and from Chicago all kinds of it are shipped to various points in the west and middle west.

Chicago also ranks as one of the largest consumers of paper in the world. No estimate has ever been made of the millions of pounds required every year for this city but the amount reaches a staggering figure. For catalogues, magazines and advertising media alone a huge supply is needed as Chicago is now the printing center of the United States and as a result demands and consumes many carloads of paper.

Is Also Manufacturing Center—Not only is Chicago a great consumer of paper, but she is also a manufacturer. This city now has four plants engaged in the making of paper board for boxes and shipping cases. Chicago has also some of the finest paper stock packing plants in the United States, furnishing raw materials to plants within a radius of 400 miles. Its future in this respect is assured from the fact that the city has such an excellent market for paper, has such excellent railroad facilities,

good water and labor conditions, and last but not least, the opening of the Chicago markets to foreign countries by way of the proposed water routes, both through the Great Lakes and St. Lawrence to the ocean and via the Illinois-Mississippi waterway to the gulf.

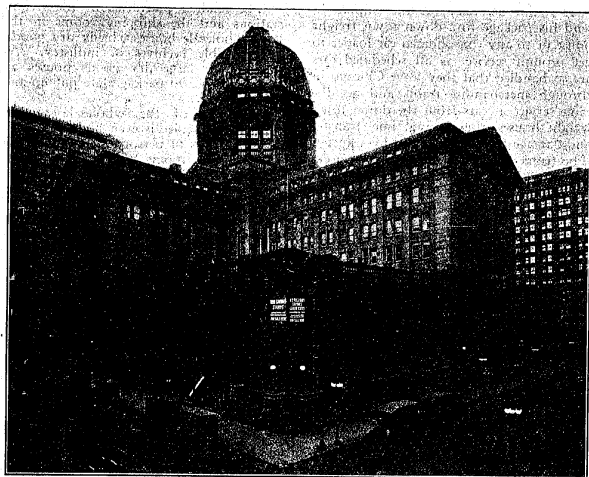
Chicago's Postoffice is Big Industry—5,000,000 Pieces of Mail Daily

The Chicago postoffice is an industry. Moreover, it is one of the biggest industries in the city from the point of view of money handled during the year.

Last year the Chicago postoffice did over \$55,000,000 worth of business. The only public service corporation which outdid the postoffice in cash receipts last year was Chicago Surface Lines. The street cars took in a total of \$60,343,000 last year.

5,000,000 Pieces of Mail Daily—Five million pieces of mail are handled daily in the Chicago postoffice. More than 11,000 employees are required to handle and deliver this volume. Many of the packages, since the introduction of parcel post, are heavy enough to make the sheer weight a problem.





Federal Post Office Building. Contrast this with the picture of Chicago's first Post Office building. The present building is rapidly growing inadequate for the Post Office and Federal business and plans are in prospect for either a new building or a considerable enlargement of this building.

The mail handled at the Chicago post-office in one day since the completion of the new Van Buren street terminal, would fill a parade of one-ton trucks, extending from the Wrigley building out into South Chicago. Chicago has the second largest postoffice in the United States and with the completion of the new terminal is expected to surpass New York by a wide margin. The latter city, however, will lead for a long time in the handling of foreign mail.

A whole department of its own is taken by the service given to the great mail order houses and their enormous volume of mail and packages.

The Quincy station is the substation assigned to the needs of the mail order houses. Every co-operation is extended to the postoffice department by the big mail order firms and the latter expedite the delivery of mail by sending their own trucks to take their mail away from the substation. Leading platforms are provided by the postoffice and the mail is rushed to the waiting trucks in bulk and carried direct to the letter opening department of the mail order concern.

Heavy Mail for One Firm—A single firm, which it would be a violation of confidence to name, has forty-four pouches of first-class mail alone every day and more than 1,400 pounds of parcel post. The latter comprise merchandise which is returned for some reason. The incoming mail to the big mail order houses often averages higher than 275,000 letters a day for months at a time.

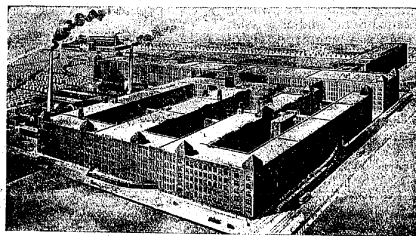
One of the most interesting bits of news in connection with the postoffice is the recent joint letter to the speaker of the house of representatives from Secretary Mellon of the Treasury Department and Postmaster-General Work asking for a long term appropriation which will eventually provide for more than \$45,000,000

worth of government buildings, if the suggestion is accepted.

Of this sum \$10,000,000 is to be appropriated for a new postoffice building in Chicago, largely on the recommendation of Postmaster Lueder, whose long experience in the real estate business enabled him to see at once the advisability of the move from a business standpoint. An expenditure of \$700,000 for the remodeling and renovating of the present postoffice in the federal building is also recommended. It is expected that the new structure will be built somewhere on the west side of the loop, across the river, and possibly some distance out on the west side.

In addition to the big building on Adams street, the postoffice has terminal stations at the railway depots for parcel post, forty-eight stations throughout the city where carriers are employed, four classified stations without carriers and 311 substations for the sale of stamps and money orders, the registering of letters and the insurance of parcels.

Speaking of money orders, Chicago leads the country in this business. It paid



W. W. Kimball Piano Company factories, located on the west side of Chicago.

nearly twenty-nine million orders in 1918, and issued about two million. The receipts and disbursements for the money order business for this period were \$421,000,000.

Chicago District Produces 100,000 Pianos Annually—Value Runs Into Millions

Employing from 6,000 to 7,000 people the piano industry in Chicago ranks high among those that have made this city famous. Between 100,000 and 125,000 instruments are produced in Chicago piano factories each year, this output being nearly one-half of the output for the entire United States.

The city has the largest establishment in the world devoted exclusively to making player pianos, with a capacity just now being enlarged to 35,000 fine instruments a year. One of the greatest organ-building factories in America is also located in this city. Chicago is first in band instruments, has lately assumed prominence in the making of phonographs, and has a considerable output of orchestral instruments of all kinds.

Output Exceeds That of Europe—Before the war, Germany and Great Britain were the principal European makers of pianos, the total British production being about equal to that of the city of Chicago.

These two rival countries and all the rest of the world combined did not equal the American output. They surpassed the United States in export trade, it is true, but American instruments enjoyed an enormously greater home market.

While Chicago pianos now go everywhere in the civilized world, yet it remains true that because of nearness, the Mississippi Valley takes about half of the Chicago output.

In assigning to Chicago so high a place as has just been done, account is made of manufacturing that is done at outlying points in Illinois and Michigan, but controlled by Chicago houses, such points being Rockford, Oregon, DeKalb, St. Charles, Muskegon, Grand Haven and Holland. Within the confines of the city itself the volume of manufacturing is about half the Chicago commercial output.

Quantities of Varnish Used—The trade recognizes plain pianos, grand pianos, player pianos, coin-operated pianos and reproducing pianos, all of which are made in Chicago. Varnish is used in great quantities in piano manufacturing—150,000 gallons a year for the Chicago output of pianos. Each of the five necessary



Kimball Hall Building. Executive offices and sales rooms of the Kimball Piano Company.

coats of varnish is dried by mechanically driven air currents in special drying rooms. Some part of the instrument can be sprayed with varnish from a nozzle end, after drying, polished by machinery; other parts must have the varnish brushed on and be polished with blocks of pumice by hand.

The consumption of glue in veneering and in joining parts is also large, perhaps ten pounds to an instrument, or 400 to 600 tons a year in Chicago.

It has been estimated that 20,000,000 feet of lumber of various grades and kinds, costing perhaps \$2,000,000 to \$2,250,000, is consumed annually in the piano industry in Chicago.

Chicago the Great Produce Market—Millions of Dollars Worth of Butter, Eggs and Fruits Handled Here Each Year

Chicago is the great central market for butter and eggs, fruit and vegetables. It is the great distributing center for not only the United States but, when occasion demands, for the whole world. Situated in the very heart of the producing section, this city is ideally located for such a business which now ranks as one of the very largest in the city.

At least 400 firms are in the produce business in Chicago, exclusive of the retailers. Shipments intended for these firms are gathered at various concentration points and are sent on to Chicago by the trainload. Each year 24,000 cars of apples, peaches, cantaloupes, strawberries, cabbages, white potatoes, tomatoes and onions are unloaded here, exclusive of home-grown stock hauled to market by truck and wagon. This amount of produce would fill a train 180 miles long.

The Fruit Business—Chicago is the greatest fruit distributing center in the country. It draws its supplies from far and near—Africa and Michigan—and at all seasons—berries are in market in January and July. The bananas that come to Chicago and then are distributed throughout the country amount to millions of bunches annually, and this one fruit business alone is an immense one. But bananas, good as they are, are but a part of the city's fruit commerce. Aristocratic California oranges travel across the continent in special trains of "refrigerator pullmans." So do fruits from the Northwest and from the South, guarded from extremes of heat and cold en route more carefully than if they were human beings.

Approximately 1,100 cars of peaches entered into consumption at Chicago annually during the last four years. Practically all came between June and October. Arkansas, Colorado, California, Georgia and Texas contributed some 58 per cent of the total.

About 90 per cent of the local supply of cantaloupes came from Arizona, Arkansas, California and Colorado, with California the biggest shipper. Chicago also took practically all shipped from Michigan and some from Indiana. Chicago draws its supplies of strawberries from Michigan, Tennessee, Louisiana and Illinois. The early and second early tomatoes come from California, Florida, Mississippi, Tennessee and Texas, while the late tomatoes are supplied by Illinois and Missouri and the home growers.

Big Business in Apples and Potatoes

In Chicago more apples are sold in a year than Adam could bite if he averaged one a day since his first nibble. A native of almost any land under the sun that produces fruit could find some "home grown" article if he visited the fruit centers of the city. Not only does every part of the United States ship its fruit to Chicago for consumption or distribution to other markets, but Central and South America, and even Africa, raid their orchards or their vines to tickle the palates of Chicagoans. Perhaps you never ate a chirimoya, which is a native of Africa, and if you never did it is your own fault, for they may be bought in the loop and perhaps outside of it. You can spur a jaded appetite with jack-fruit, which is another African, and peaches and plums from the same remote continent. You can rejoice in hothouse grapes from England and Belgium; you can gurgle with joy as you devour a sapodilla or an avocado pear from South America, and can roll your eyes in satisfaction at the taste of the papaya, which is a native of Central America. All these and more besides, with equally unusual names and even more unusual tastes, are a feature of the Chicago fruit business that adds distinction to its vastness.

This city is an immense market for white potatoes. Michigan, Wisconsin and Minnesota furnishes about 70 per cent of this supply, while Virginia and Idaho are fairly heavy contributors. The extra early potatoes come from Florida, Louisiana, Mississippi and Texas, with a few cars from Alabama and the Carolinas.

Wisconsin contributed about one-third of the annual receipts of cabbage, which amount to 1,400 cars. The early cabbage supply comes from California, Florida, Mississippi and Texas. Practically all the Bermuda onions on the Chicago market come from Texas, while late onions come from Illinois, California, Indiana and Washington.

The Mercantile Exchange—The Chicago Mercantile Exchange represents an important cog in the machine which gathers up and distributes the great mass of produce. Butter and eggs are the chief

articles dealt in on the exchange and they change hands in amounts of surprising size. Between Jan. 1 and Nov. 1, 1921, more than 27,000 carloads of eggs and 11,000 carloads of butter were sold on the exchange in future trades alone. This means 32,400,000 dozen eggs and 198,000,000 pounds of butter. A carload consists of 400 cases of eggs, 30 dozen to the case, or 300 tubs of butter, each being of 60 pounds.

Produce gathered in the Chicago market and either consumed locally or distributed among other centers of population, represents a business of fully \$800,000,000 annually. About one-half of this amount is disposed of in the Chicago district, while the remainder is sent to many other points, including other continents.

South Water Street—Unique among the famous streets of the world is South Water street, the heart of Chicago's produce market. Other cities have their markets, but there is nothing that approximates this busy mart. Here, in six blocks, \$400,000,000 worth of perishable food products are handled annually.

South Water street, if not beautiful, is nevertheless picturesque. An observer viewing the scene for the first time might imagine himself transported to some foreign region, were it not for the fact that the hurly and hustle are typical of Chicago.

From State to Market street, a ragged row of more or less unsightly buildings line each side of South Water street. Few are more than four stories high, none is of modern design or construction. This rapid handling of produce does not call for handsomely appointed quarters. And no one would think of using this street as an ordinary thoroughfare—its sidewalks and traffic space are surrendered to the trade. Indeed, there is room for nothing else. Between the buildings and the boxes and crates piled high on the sidewalk, the pedestrian may pick his way through the swarm of traders. In the street, wagons and trucks are backed to the curb, hub to hub, leaving a narrow channel in the middle for the moving current.



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South Water Street, in Chicago's produce and commission district, daily one of the busiest market places in the world.

It is not surprising that Chicago should be the great central market for produce. Every railroad and steamship line brings the products of the field, the orchard and dairy, for distribution to the East, West and South. And the Chicago merchant does not hesitate to buy in large quantities because he has an outlet in every direction. But the surprising thing about it all is that such an enormous business is handled in so small an area, and that the constant increase in volume is absorbed without any expansion of space.

Chicago Now Printing Center of Nation—New Plants Bring City to the Front

Publishing more than 500 newspapers, magazines, trade journals and other publications besides millions of dollars worth of direct mail advertising and other advertising media, Chicago now leads the world as a printing center.

During the past few years Chicago's production in the printing line has increased not only because of the natural increase of business in the Chicago area but because many publications have come to Chicago to get their printing done here and to mail their publications from this city. The reasons for this move are obvious.

Chicago is in the heart of the middle west, the natural distributing center from which millions of people can be reached within a few hours ride. Publishers can save money by both printing and mailing from Chicago and hence each month sees additional publications taking up their headquarters in this city and availing themselves of the unexcelled printing and mailing facilities.

While the city has been going ahead in the race for this position for several years, it was not until last year that Chicago was able to attain this supremacy. It came with the opening here of some of the largest and best equipped printing plants in the country and diverting to Chicago valuable printing contracts of publishers and mail order houses of New York City and other eastern cities.

Already three Eastern magazines of national circulation, the *Cosmopolitan*, *Good Housekeeping* and *Hearst's*, are printed in Chicago complete, from typesetting to mailing out direct to the subscribers. The western edition of the *Saturday Evening Post* has been printed in Chicago for some time, and in addition comes the definite announcement that the *Curtis Publishing Co.* is about to erect a plant of its own here to do this work. Until the recent completion of some of the new printing plants in Chicago, the plant of the *Curtis Publishing Co.* in Philadelphia was claimed to be the largest in the world.

Printing Industry Comes West—Shifting of the printing industry westward to Chicago is due to changed economic conditions in the trade and geographical location of this city, it being so centrally located and having such excellent rail and water transportation facilities that it offers a saving of both time and money in shipments of paper and the finished product.

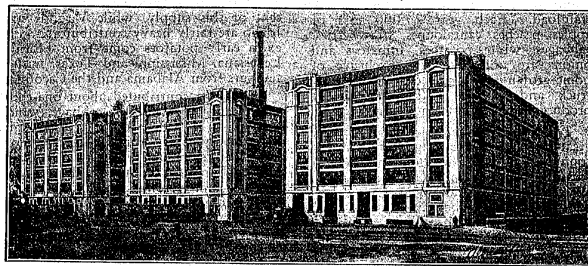
The workings of the postal zoning laws make it advantageous for Eastern publishers, and big business houses using large

quantities of catalogues, to have them printed in Chicago and mailed out direct by the printing houses doing the work. Magazines, catalogues and mail matter of this character can be mailed as far east as Pittsburgh and Buffalo advantageously. It is said that the *Curtis Publishing Co.* is able to save three-quarters of a cent on each copy of the *Saturday Evening Post*, or approximately \$6,000 a week, by printing and mailing the western edition in Chicago. There is also the element of time to be considered in getting magazines to subscribers when they are mailed from Chicago rather than from New York and the other eastern points.

The recent New York strike was another cause that precipitated action by the eastern publishers and sent them scurrying westward with their printing. It is good business for them from more than the mailing point of view. The magazines printed in New York must leave their 12 days before the date of their newstand release in Chicago. Printing and mailing them here allows as much as seven or eight additional days for closing their advertising forms, and when half the edition at least is printed in Chicago the magazine can be mailed two days before release date and meet it anywhere within the Chicago zone.

Chicago's Labor Market for the Printing Trades is Stable—For years there has been no serious interruption in the printing industry here from labor disputes, or closing down by strikes; employers and employes always settle their disputes, and have provisions in their contracts for arbitration. Such wholesome labor conditions and freedom from labor tie-ups is an important factor in bringing big orders to this city. The fact that a large per cent of the plants operate as open shops also adds to the stability of the industry here, it is claimed by some of the heads of the largest plants.

Plants are Up-to-Date—Other factors that have made it possible for Chicago to become the printing center are the size of the newer plants and additions to the older ones, constant addition of the newest types of presses and other printing machinery to keep up with the times so that they can give both quality and quantity production. Then comes the superior plant organiza-



New plant of the Cuneo-Henneberry Company, John F. Cuneo & Company and the Cuneo Printing Corporation, located at Grove and 22nd Streets, one of the largest printing and allied trades establishments in the world.

tions to be found in the big establishments here which make it possible to turn hundreds of thousands of finished magazines, catalogues and other printed work each work day.

Business today demands speed in every branch, and when catalogues or other printed matter are wanted, no matter how many hundreds of thousands are in the order, there is that insistent demand for it in a hurry, and the plants and their organizations in this city have proved their ability to turn out the work in the quickest possible time.

It is impossible to give figures on the number of magazines published in other cities, which are printed in Chicago. The *Printing Products Corporation*, which specializes on this type of printing, puts out over 100 separate magazines each month. Among the magazines of other cities printed here are: *The American Journal of Public Health*, New York; *Fun Book and Progress*, both of Wheeling, W. Va.; *Engineers and Engineering*, Philadelphia; *American Bar Journal*, Albany, N. Y.; *Matrix*, Madison; *Railway Clerk*, Cincinnati.

R. R. Donnelley & Sons Co. with their large and splendidly equipped plant, is another organization that helps to make Chicago a printing center. This concern besides handling a large volume of Chicago business is also turning out work for firms located outside of the city.

Some idea of the volume of work that a large Chicago printing plant can handle in the course of a year is shown by the output of one large publishing house which last year produced 14,565,000 magazines, 12,485,000 periodicals, 10,550,000 catalogues, 15,714,000 supplementary catalogues, as well as thousands of smaller circulars not included above. This work required 47,965,000 pounds of white paper, 680 tons of ink, and averaged a daily output of 162,160 pounds of catalogues.

Catalogue Business is Immense—Catalogues represent an important factor in Chicago's printed output. These publications are sent out from the mail order and other large houses in amazing quantities. The amount of such matter sent out is one of the causes that has helped to make

Chicago postoffice do a greater business than any other in the country.

In the printing of catalogues the savings due to publication in Chicago are especially noticeable. For this reason a number of eastern houses which put out large catalogues have had the work done in Chicago.

West Gains Business—The extent to which Chicago printing firms have taken over printing mail order catalogues from New York City printers is shown in the statement that the *Cuneo-Henneberry Co.* of this city print catalogues for *Bellas Hess & Co.*, New York; the *Charles Williams Stores*, Brooklyn, and *Pedell Stores*, New York. The *Cuneo-Henneberry Co.* prints 3,000,000 mail order catalogues a month, some of them weighing one pound. It also prints the same number of fiction magazines, including the western edition of the *Saturday Evening Post*, *Cosmopolitan*, *Good Housekeeping* and *Hearst's*, using 250 tons of paper every day when working full force, as at present.

A distinct advantage Chicago's big printing plants have over those of New York lies in the railroad facilities of this city. It is said that not one of New York's big printing firms is located on a switch track, thereby adding the heavy expense of hauling both raw supplies and paper and the finished products through the city to and from the freight stations. All of Chicago's big printing plants have their own switch tracks and some of them also have been located available to water transportation.

At the present writing, up-to-date figures on the printing industry are not available, but such figures that can be had are significant. These figures were compiled and analyzed by the bureau of business research, Northwestern University school of commerce, and are based mostly on census returns, which are not yet available for 1920.

What Figures Show—These figures show that 9,552 workers were employed in the printing industry in Chicago in 1899, 11,518 in 1904, 15,587 in 1909 and 16,966 in 1914, an increase of 177.6 per cent. In 1899 there were 14,368 workers in New York City, 18,977 in 1904, 23,261 in 1909 and 21,013 in 1914. A decrease took place in New York between 1909 and 1914, but the increase over the showing for 1899 was 146.2 per cent. Philadelphia increased from 5,373 to 6,187 during the same period.

The value of the output of Chicago's printing establishments in 1899 was \$18,600,000, in 1904 it was \$26,200,000, in 1909 \$37,400,000, and in 1914 \$50,800,000. During the same years the figures for New York were \$28,400,000, \$47,300,000, \$64,000,000 and \$68,300,000. The percentage of increase during this period was 273.5 per cent for Chicago and 239.7 per cent for New York. During the same period the output of Philadelphia was raised from \$10,200,000 to \$17,400,000 or 171 per cent. The percentages of increases have been greater than elsewhere, with the exception of Cleveland, where the total amount involved was comparatively small.

Chicago's Daily Newspapers and Trade Journals Are Internationally Known

Involved in Chicago's prestige as a printing center are many newspapers and trade journals. The list of daily newspapers in English includes three morning and four afternoon papers, several of which are leaders in their respective fields:

The morning dailies are the *Chicago Daily Tribune*, "The World's Greatest Newspaper," *The Herald-Examiner* and the *Journal of Commerce*. The *Tribune* and the *Examiner* are without equal in point of circulation as these two papers together print practically 2,000,000 copies each Sunday. The *Tribune* just recently erected a new plant on North Michigan avenue and is now contemplating the building of a magnificent new structure immediately in front of their plant on Michigan boulevard. It will cost \$7,000,000.

The four evening dailies are the *Chicago Daily News*, the *Evening Post*, *American* and *Journal*.

More than 80 foreign language papers are also published in this city. The languages in which the papers are printed number nineteen, and are as follows:

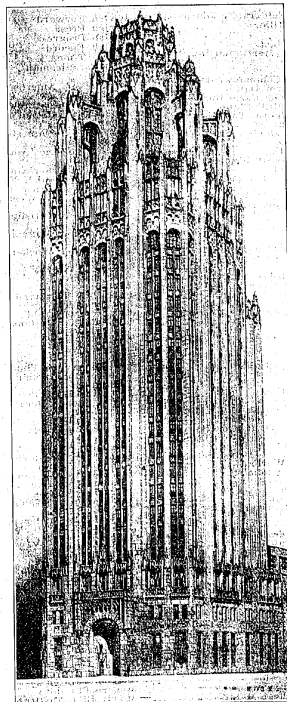
Assyrian, Bohemian, Bulgarian, Croatian, English-Jewish, German, Greek, Lithuanian, Hungarian, Italian, Yiddish, Polish, Russian, Slovak, Serbian, Slovenian, Swedish. Twenty are on the list, but the English-Jewish papers are not included in the count of foreign language papers, for they are printed in English, although they circulate almost exclusively among the Jews.

Many of these papers are dailies and some are weeklies. Many have large newstand sales and several have very large country circulations, selling more than half their issues outside the city. The Polish papers are the most numerous, numbering thirteen in all, with four dailies. Two of the Swedish papers claim the largest circulation for their nationality in the United States and are read by thousands of farmers throughout the Northwest.

While some of the papers are small and are run more from patriotism than for profit, others, and this includes the majority, are prosperous. Some own their buildings and boast complete equipment, from reporters to delivery trucks. They carry much advertising and are as alert as their English-printed big brothers in the loop.

Many of these papers did a great amount of patriotic work for the country during the war and earned the gratitude of the government, for they went into homes that otherwise would have been difficult of access and added their thousands to the great mass of Americans who enlisted in the cause of making the world safe.

A partial list of the English and foreign language newspapers, trade journals, magazines and other publications run off Chicago presses is as follows:



A reproduction from the architect's drawing of the imposing and magnificent new building which will be the future home of the Chicago Tribune. The site upon which this building is to be erected is on the east side of Michigan Avenue just north of the Link Bridge and opposite the Wrigley Building.

The Printing Payroll—Today Chicago's printing payroll runs to over \$30,000,000 annually and among printers' employes from San Francisco to New York it is a fact undisputed that there one "can always get a job." The total number of employes is about 40,000 and of these a large proportion are men of family, many of them living in homes of their own and in fair financial circumstances. Her estimated publication output each month, excluding newspapers, is 20,000,000 copies. House organs of the large manufacturing and jobbing plants add another monthly million to the number. When to this is added the millions of copies of the semi-annual catalogues issued by the great mail order houses and their constant output of department catalogues and other printing the grand total runs too high to make it understandable as illustration, even in these days when billions are ordinary newspaper talk.

Wanted By Many Cities—Real estate men of many cities were in a state of intense activity for weeks and frequent announcements were made that a decision had been reached in favor of some point where the works were wanted.

Secrecy was necessary during the negotiations for the land and there were numerous trips to various points, made by the committee that was trying to find a site. While all this skirmishing was going on purchases were being made in the Calumet region until finally all of the needed land was acquired and the big works were started, along with what was planned to be a model town. The level of the prairie land was raised and architects and landscape artists were set to work and the now well known town was started. Since that time the growth of the Calumet region has been extremely rapid and the advantages of the locality that were realized years ago by Mr. Pullman and his associates are now generally appreciated.

Trip Through Pullman Works—A trip through a portion of the Pullman works where passenger cars are set up is an interesting experience. Any attempt to look over the entire plant would be a big undertaking for it covers an area of over 400 acres and there are 100 miles of railroad track within the shop enclosure. In normal times about 12,000 workers are employed in the plant. The plant can turn out 75 freight cars and six passenger cars daily. There have been times when production has been run above these figures. The rolling mill has a capacity of 400 tons of bar iron a day. The brass foundry, where hardware parts are made for cars, has a capacity of fifty tons a month. Pullman is within the city limits, the main plant extends from 103d to 111th street, a distance of one mile, with the steel freight car.

Safeguards Against Telescoping—In order to reduce to a minimum the possibility of danger to passengers in case of collision the end construction of the cars is made particularly heavy. A large amount of steel is used both in the platform and in the body ends of the car. The under frame of the car is remarkably heavy. The steel work at the ends of the car is tied together so that it is pulled together in case of accident. The bending and distorting of these large masses of steel absorb much of the shock. The average weight of such a car is about 155,000 pounds, the presence of much of this weight being due to what might be called protective armament. To further safeguard the passengers the trucks are locked to the body of the car by means of a very heavy bolt on which the car swivels. This is a further check against the possibility of a car rising and telescoping through another car, as the truck would go with it and catch on the underframe.

Some idea of the magnitude of the task of building a standard sleeper may be gained from the fact that such a car contains 200,000 parts, of all kinds and shapes. An ordinary passenger car contains about 118,000 parts.

Making of a Freight Car—The manufacture of freight cars is entirely separate and is an important factor in the car building business of the company. Every once in a while the visitor will see a train of

new freight cars being switched out of the yards for delivery to the railroad that has purchased them. These cars are also made in great variety, including flat-gondola, box, refrigerator, steel hopper and a variety of special types.

Chicago Holds Leadership in Distribution of Shoes—Millions of Dollars Worth Sold Here Every Year

Shoe retailers are coming to Chicago in increasing numbers every year for the purpose of purchasing stock. One reason for this steady growth is that Chicago distributors carry stocks of unusual size, from which orders can be filled immediately. A purchaser can find anything he wants in Chicago and he does not have to wait for his goods. The shoes can be started for their destination the same day he gives the order, if the buyer wishes speed in delivery.

Another reason why purchasers of shoes favor this market is because Chicago dealers specialize in goods of the highest grade—goods that have style. It is estimated that the distribution of shoes from Chicago amounts to fully \$100,000,000 a year.

163 Permanent Salesrooms—Chicago has 163 permanent salesrooms, representing manufacturers in all parts of the country who have availed themselves of Chicago's advantages as a distributing center. Among the forty wholesale shoe firms in Chicago are some of the largest distributors in the country. One of the big distributors sells practically the entire output of twelve large factories, and there are several which keep from six to ten factories busy throughout the year.

As many of the visiting retailers carry other lines of stock they find it an advantage to make their purchases in Chicago because they can find anything else they need in this market.

Chicago's prominent place in the shoe industry is strengthened by the fact that it has 29 shoe factories where high class, well advertised, footwear is made in large quantities. Among these plants are factories that specialize in men's, women's and infants' shoes and sandals, slippers, moccasins and other specialties.

Output of Factories is Large—The average output of these factories is 29,850 pairs of shoes daily, the yearly average figure reaching 8,955,000 pairs, having a value of close to \$50,000,000. The larger percentage of the shoe factories limit their attention to their better class of trade in men's footwear. The larger proportion of the manufacturing is done by five large concerns.

It is estimated that there are more than 4,500 workers in the shoe factories of Chicago, the majority of whom are skilled. These workers are trained in the plants, so that they become skilled and receive excellent wages, some of them having run up to \$70 a week during the periods of unusual activity and high prices for labor.

The shoe manufacturing industry of Chicago is expanding steadily. Two big plants have plans under way for immediate extensions of their plants, which will mean a considerable increase in the local output of shoes.

Chicago capital, so far as the shoe industry is concerned, is invested on a large

scale in other states, and these states get the credit. For instance, one large Chicago manufacturer of shoes, who has two factories in the same city with his general offices, also has factories in other large cities in Illinois, in addition to four factories in Wisconsin, one in Indiana, one in Missouri and two in Eastern states, all of which are reported in the census returns for the states in which they are located.

The only section of the country that has more shoe factories and might be called a larger shoe manufacturing center than Chicago is the old district of New England where the business has been developing for many decades. But the shoe factories of New England are scattered over many states and are not concentrated in any one city as is the case with the Chicago market.

Supply of Leather is Near at Hand—Several factors contribute to stimulating the shoe industry in Chicago. Among these are the supply of leather near at hand, the fact the Chicago is a purchasing center to which retailers are coming in ever increasing numbers, the city's unequalled rail facilities which give it great advantage in making deliveries, and the excellent supply of labor, as workers flock to a city that is noted as an industrial center.

Chicago produces more hides than any other city in the world, therefore many large tanneries have located here and in neighborhood cities. This insures an abundant supply of leather near at hand. There are more than eighty large tanneries in Illinois, Wisconsin and Michigan. The best Cordovan leather found in the world's markets is produced in Chicago, and the finest glazed kid is produced within a few miles.

More than 4,000 workers are usually employed in Chicago tanneries. There are twenty-eight tanneries in Chicago, which produce 50,000 tanned hides daily. The convenience of having such a supply close at hand means much to shoe manufacturers, who can buy in quantities to suit his temporary needs and is sure of finding an ample supply close at hand at any time.

Shipping Facilities are Excellent—The fact that more points can be reached by a direct shipment from Chicago than from any other city in the United States is as great an advantage in the shoe trade as it is in any other line that supplies the needs of retailers throughout the country. The excellence of Chicago's transportation system is emphasized by the extraordinary development of the plan for handling less than carload shipments, which are gathered quickly and are set to their destinations with the utmost speed. This fact, coupled with the large stocks carried in Chicago, means that the buyer who comes to Chicago has no uncertainty about when he will get his goods. The goods are on hand and unequalled facilities are ready for their transportation.

More than half of the buying population of the United States, it is estimated lives within one night's ride of Chicago and the railroads upon which they depend for their transportation lead to the common center. The retailers who supply the needs of this population of more than 50,000,000 find Chicago the easiest point to reach for their conventions and for their buying trips.

Men familiar with the trade claim that more retail sales of shoes are made in the "loop" district in Chicago than in any other area of similar size in the country. The stores where these sales are made have unusually good displays in their show windows, which are studied by the visiting retailer with profit. Practical ideas are picked up in this way that are of great value to the visitor, who can see how sales are managed in a district where there is the keenest competition.

In the matter of shoe styles, Chicago gives way to no other city. Chicago styles are watched as closely and copied as much as those of New York. A Chicago retailer was chairman last year of the Allied Style Council of the shoe and leather industry and is a recognized leader of shoe styles in the entire country.

Chicago is Famed as Market for Broad Silks—\$50,000,000 Business Done Here

Chicago is known internationally as a market for broad silks. Leaders in this business in Chicago estimate that the annual turnover amounts to fully \$50,000,000. They also point out that the largest open stocks of broad silks from which selections can be made are in Chicago.

Heavy business in silks is done in certain other markets, but a large part of this trade is in contracts for future delivery. The notable feature about the Chicago market is that the silks are to be seen in stock; delivery can be made immediately, if so desired. This is a decided advantage for the merchant, especially during a period when purchases are being made from time to time for current needs.

Steady Gains in Trade—Great changes took place in the silk industry during the eighteen months, or so, that began in the early summer of 1920. Chicago merchants took the lead during the period of deflation, and in consequence they acquired a much stronger position in the market. This was a period of great stress, but it was successfully weathered by these dealers. For several years steady gains were made in Chicago's silk trade, but the recent changes have been more rapid and have brought the business to a point where it has become one of the foremost markets in the world for products of the silk weaver's loom.

The merchant who looks over these stocks will find that the identical goods he examines are on hand, ready to be shipped immediately, to his store. This was true even during the period when there was a general dearth in available stocks of silk. It is not necessary for the merchant to place his order and then wait thirty or sixty days for his goods. It is doubtful if there is any other point where there is a closer adherence to the rule of making shipment the same day the order is received.

Large Stocks On Hand—The silk business of Chicago is handled both by the large wholesale dry goods houses and by specialists who deal exclusively in this line. The combined stocks of these houses is of remarkable size, as well as of great value. The leaders who have built up this business are men of unusual ability who are continually widening the fields of their activities. The vast stocks of salable silks

on hand make it possible for them to meet all demands.

Chicago prices on broad silks are always competitive. The home market, although it has been variable, is heavy enough to act as a regulator of prices. The field of the Chicago silk merchants is both national and international, although of course, the heaviest sales are in the district which is closely linked to Chicago by the city's unparalleled transportation system.

A large percentage of the silk used in manufacture of women's wear is furnished by the Chicago dealers, and this is an item of considerable size. This, in itself, indicates that the price and quality must be right and that there can be no delays in deliveries. The field of competition for this business has gradually widened until it is now world-wide. Excellence of service is at the basis of the successful rise of the Chicago dealers.

Silks From Many Lands—The silks that are handled come from all quarters where production has attained commercial proportions. The best grades now come from American looms, with the exception of a few specialties. Silks are to be seen on the counters that have been brought from the Orient, while nearby are the rich designs from French looms. The displays are made on a scale that are a surprise to those who are not familiar with the details of this line of business activity.

It is interesting to note in this connection that the United States is not only the greatest consumer, but that it is also the greatest producer of and distributor of silks. The last census figures available show that the silk business of this country reached a total of \$500,000,000 in 1910. It is estimated that about one-fourth of this amount was represented by ribbons, another fourth by miscellaneous silk merchandise, and the remainder by broad silks. It is believed that considerable increases have been made in the totals since the figures were obtained.

A fair share of the heavy importations of raw silk into the United States comes to Chicago, there being a large factory here for making silk thread, such as is used by weavers, knitters and for insulating fine magnet wires.

This plant contains 100,000 spindles. The annual consumption of raw silk, to supply these spindles amounts to about 25,000 bales. The plant has a capacity of from 40,000 to 50,000 pounds of silk thread a week.

Steel Industry Gives Chicago Leadership—75,000 Men Are Employed in Steel Plants of Chicago District

Within the past few years Chicago has come into great prominence in both the production and distribution of steel. Today this district with its huge, modern manufacturing plants which are in a strategic location in the middle west, turn out millions of dollars worth of finished steel products and have given Chicago leadership in this business in the west and middle west.

Where the Steel Plants are Located—Thirty or forty years ago, a number of scattered mills in or near Chicago were gathered together under one ownership known as the Illinois Steel Company. This

comprised the property on the north branch of the Chicago River which had been known as the North Chicago Rolling Mill, the mills in South Chicago, together with a steel plant on the river near Blue Island Avenue which is no longer in existence, and also the mills of Joliet and Milwaukee. These mills have become, in recent years, a part of the United States Steel Corporation, and, as they have grown in importance and output, a sister plant comprising under the ownership of the United States Steel Corporation has come into being in the adjoining town of Gary. Here, a few years ago, there was nothing but sand dunes, swamps and prairie, whereas today, Gary probably stands as the most memorable monument to the steel industry.

In the adjoining district of Indiana Harbor are the tremendous, far-reaching plants of the Inland Steel Company and the newly completed Mark Manufacturing Company. The Wisconsin Steel Company, a subsidiary of the International Harvester, is also a neighbor.

At Grand Crossing is a portion of the works of the Interstate Iron and Steel Company. All of these are among the most important producers of steel in the country.

The capacity of the furnaces of the Illinois Steel Company are more than 5,500 tons a day. This great plant now covers 400 acres on the shore of Lake Michigan near the mouth of the Calumet River, and further extensions are planned.

Relative Cost of Production—E. H. Garry, head of the United States Steel Corporation has given figures which show the relative cost of producing steel in Pittsburgh, Duluth and in the Calumet region and these show why plants in the Chicago region are favored and will continue to grow. When reduced to percentages these figures show that steel is manufactured cheaper in the Calumet region than in any other part of the country and that it is produced there 18.12 per cent less than at Pittsburgh.

Pittsburgh is now the basic point for prices, this fact being a relic of the old times when it was the only producing point of consequence. A fight is being conducted by consumers to have the Chicago district made a basic point, instead of having everything quoted f. o. b. Pittsburgh, when, in reality, the freight between Pittsburgh and the point of delivery often is not earned.

The plant of the Illinois Steel Company began in a small way in 1880. At this time officials of the North Calumet Rolling Mills Company, in which Orrin W. Potter was the leading spirit, formed an organization called the North Chicago Steel Company, in order to put up a plant on the present site of the Illinois Steel Company. These men had been operating in the old rolling mills which once stood on the north branch of the Chicago River. Their quarters were cramped. They foresaw something of the future greatness of the steel business and decided to locate in the Calumet region.

The original plant was planned for four blast furnaces, a bessemer steel converter and a rail mill for rolling steel sections. The first rail was rolled in June, 1881.

The name of the concern was changed in 1881 to the North Chicago Rolling Mill Company.

Steps In Growth—Then, in 1889, the Chicago and South Chicago plants of the North Chicago Rolling Mill Company, also the Bay View, or Milwaukee works, the Bridgeport plant of the Union Steel Company, were combined under one management, known as the Illinois Steel Company.

In 1901, the Federal Steel Company was organized, this being composed of the Illinois Steel Company, the National Tube Company, of Ohio, the Lorain Steel Company, the Minnesota Iron Company, the E. J. & E. Railway and some coke plants. May 1, of the same year, the Federal Steel Company became part of the United States Steel Corporation.

This, in brief, is the history of the fine plant that now stands on the Calumet. Improvements are constantly being made and frequent additions have added greatly to the capacity of the original works. The steel works has been likened to a self-contained municipality. The workers are of many nationalities and each is supplied with a book of rules printed in the language he can read. A judicial bureau is supplied, through the Department of Labor, and this hears complaints. There is a network of roadways which make the plant look like a small city. Visiting nurses are supplied for the families of employes. There are men of 32 nationalities among the employes, and the payroll amounts to \$20,000,000 a year.

Safety First Methods—"South Works," as the plant is called, claims the distinction of being the first big industrial establishment in the United States to install modern methods of safeguarding machinery so as to prevent accidents to employes. Every belt and moving part of the machinery is protected so that workmen will not be injured. The company has also started a campaign of education among its employes so that they will not be injured through carelessness. The safety work in each department is under charge of a committee made up of the foreman and workmen. The foreigners are also given lessons in English and are taught the principles of Americanism.

Chicago has been found to be a splendid location by reason of the fact that it is central for the assembling of ore, coal and limestone, as well as being an important distributing center and a labor market.

Chicago Is Iron Warehouse Center—An important feature of the distribution of steel is that cared for by the warehouse. Chicago is by far the most important iron and steel warehouse center in the world. The normal tonnage of the various commodities of this character carried in Chicago is several times greater than it is to be found at any other one industrial center, and Chicago is therefore looked to as the chief distributing point for quick deliveries from jobbers. It is this character of shipment which tides over stress and emergency and avoids delay in manufacture and distribution.

During the war the warehouses of Chicago provided the necessary elasticity and permitted continuation of essential manufacture which might otherwise have been compelled to close down in the face of the

practical commandeering of the various steel mills for products vital to the conduct of the war.

Chicago is an Important Center for Terra Cotta Materials—Several Large Plants in Chicago Area

Chicago with four terra cotta manufacturing plants, one of them being a pioneer in the industry with an enormous output, is a leader in the production of terra cotta products both of a utilitarian and artistic nature. In fact, one of the leading and largest companies in the world is located in Chicago and is known all over the United States for its output.

Each year sees artists and architects of national reputation putting their ideas in the hands of Chicago terra cotta manufacturers to have their work reproduced. Cass Gilbert, Jarvis Hunt, Pond and Pond, Louis Sullivan and many others have sought expression through the terra cotta manufacturers.

Co-operating in this way exquisite murals and panels for buildings are reproduced in tinted terra cotta, which adds greatly to the decorative beauty of buildings. One of the most notable examples of this work by Chicago terra cotta manufacturers is that produced by the American Terra Cotta and Ceramic Company for the Murphy theatre and office building in Omaha. Being plastic and comparatively inexpensive this method of fashioning clay is finding great favor all over the United States and some wonderful pieces of work combining the utilitarian and artistic points of view have been turned out.

Chicago Makes Telephones That Link the World—Huge Plant Gives City Leadership

In Chicago, through the Hawthorne Works of the Western Electric Company, has probably done more to pull the world together in recent years than has any other commercial center. In supplying a greater part of the telephone apparatus used in the United States, in furnishing a good part of the equipment installed in the systems of Europe, South America, Asia and Africa, and in bringing forth one development after another to make the lines of communication connecting the people of the world even more effective, the local plant has made Chicago the hub of the civilized universe.

Is More Than A Workshop—Undoubtedly there are those, who, comparing the Hawthorne Works with the other plants about the west, will term it a huge workshop and let it go at that. They know that it specializes, among other electrical activities, on telephone production. The romance of the job of making the instrument of speech, the care and precision required in the preparation of each individual piece of apparatus, the ceaseless journeys into the very ends of the earth for the material required to enable you to talk by wire from city to city and even from continent to continent, and the human interest which is bound to prevail in a great Chicago family of more than 30,000 men and women all working toward the same end—the steady improvement of the world's means of communication—are all overlooked. And naturally so, for in striving to furnish the

rest of the world with the means of transmitting speech, the Hawthorne Works has had little time to speak of itself. There are more than 51,000 persons on the company's pay rolls in the United States.

To understand the steady progress that has seen the Hawthorne Works grow on an average of four acres of floor space a year from 1906 until today it comprises more than 100 buildings and 216 acres of land necessitates an investigation into the history of the company itself.

Early History of Company—Starting in 1869 with a total capital of only \$2,500, it has gradually grown to such proportion that its sales during 1922 amounted to more than \$210,000,000—a record that has few parallels in the industrial world. The company is represented in almost every section of the globe.

In the first few years of its existence it had little opportunity to make any great strides. Electricity was still considered a phenomenon for the scientific laboratories and there were few every day uses for its practical application. The telephone was not developed by Bell until 1875.

The first arc lamp made its appearance only three years later. Edison completed his first incandescent lamp in 1879, while the first electric car appeared in 1881. It was not until 1882 that the public was brought into intimate touch with the real possibilities of electricity for the first time when an electric light plant, capable of delivering energy to a limited area was erected in the city of New York.

In 1869 the only real commercial use to which electricity had been put was the telegraph. As a result, the founders of the Western Electric Company turned their entire attention to the manufacture of telegraph apparatus, and it became the chief source of supply for the Western Union Company. Fire alarm apparatus and annunciators were also produced. When the first telephone systems were organized in 1876 the Western Electric Company began making the equipment, and since that time it has played an important part in telephone development and manufacture.

Gave Australia The Telephone—The Western Electric Company was the pioneer in carrying the telephone, a strictly American invention, to other fields. In 1880 it gave Australia its first chance to talk by wire and two years later established a factory at Antwerp to handle a part of Europe's rapidly increasing requirements. A switchboard built at this point in 1883 and installed at Antwerp inaugurated the first central office on the other side of the Atlantic. The Western Electric Company also constructed the first exchanges in both Japan and China.

And out of this steady onward movement was born the Hawthorne Works, the great source of supply and the manufacturing center for this world wide electrical organization. Hawthorne, which today ranks as the world's more important telephone manufacturing plant, was started at 22d Street and 48th Avenue in 1906, to take over the manufacturing functions of the shops in New York and at Clinton Street here in Chicago, which had outgrown their limitations.

Big Building Operations—The principal building operations, occupying the plant management at present include five

new structures representing an expenditure of more than \$3,000,000. In the order of their importance they are a copper rod and drawing mill that will be the equal of any similar factory in the country, a new woodworking plant valued at \$1,000,000, a locker building to answer the athletic requirements of the 7,000 of the plant's 28,000 who are actively engaged in some form of sport, an addition to the works' hospital that will make the medical group at Hawthorne the most up-to-date of its kind in American industrial circles, and a new machine shop for the railroad rolling stock controlled by the company.

Raw Materials Used—A fair sample of the influence the Hawthorne Works wields among the other industries of the country made be gleaned from a summary of some of the principal classes of raw material used at the plant in the manufacture of telephone equipment. During the present year the works' statisticians figure Hawthorne will require for the 9,000 various types of telephone apparatus it produces at least 18,000,000,000 feet of copper wire, about one-tenth of the lead output of the United States, 20,000 tons of steel and iron, 3,000 tons of brass, 25,000,000 board feet of the best lumber, and about 3,500 tons of insulating material, to say nothing of great quantities of silver, platinum, gold, silk and countless other raw materials that make the telephone and its accessories the marvelous instruments they are.

Out of this polyglot collection of odds and ends drawn from every continent in the globe will be made each week better than 500,000 feet of switchboard cable and 25,000 complete telephone instruments. Only a little over a generation ago the Western Electric Company considered it a banner week when the output of telephones touched the 25 mark.

The intricacy of the manufacturing burden of this Chicago industrial wonder place was shown recently when, to fill the requirements for a single new telephone exchange in New York City, the Hawthorne Works produced more than 21,000,000 pieces of the most delicate kind of equipment. To assemble this great mass into an intelligently functioning central office required no less than 4,500,000 soldering operations. Considered merely from its importance as one of the big business forces of Chicago, the Western Electric Hawthorne Works recognizes no peer. This great organization has come to be known as one of the wonder spots of Chicago.

Chicago Leads in Use of the Telephone—Is Greatest Telephone Using City in the World

Chicago is the greatest telephone using city in the world. Rewriting the sentence to make it technically accurate, Chicago has more telephones in proportion to its population than any large city in the world.

Chicago has more than 644,628 telephones in use—one for each five persons—embracing a system furnishing universal local service and facilities for long distance communication to more than 12,700,000 telephones on the North American continent.

There are more telephones in Chicago than there are on the continents of Asia,

Africa and South America taken together, more than there are in France, Italy, Spain, Greece, Portugal and Norway combined.

If the calls made in Chicago in one day were formed into one continuous call it would consume 6,250,000 minutes, or 12 years.

If the calls made in 1920 were formed into one continuous call it would take about 3,920 years to complete the conversation.

It is estimated that in Chicago the use of the telephone saves 23,750,000,000 minutes daily.

The telephone renders incalculable service to fire and police departments, these calls being handled free to any person making such use of the telephone.

Miles of Wire In Use—Chicago wires would wrap the earth 76 times.

The Illinois Bell Telephone Company, which owns and operates Chicago's wonderful system has in use within the city limits 2,000,000 miles of wire, sufficient to encompass the earth at the equator 76 times.

How the great communication company has worked with Chicago and aided in its wonderful growth is illustrated by figures showing the service given the city. The figures show the growth in telephones as follows:

| Year | Population | Service in | Ratio of |
|------|------------|------------|---------------|
| | | Telephones | to Population |
| 1878 | 597,000 | 400 | 1 to 1,493 |
| 1880 | 596,268 | 2,071 | 1 to 291 |
| 1890 | 1,250,000 | 7,706 | 1 to 161 |
| 1900 | 2,010,000 | 34,414 | 1 to 58 |
| 1910 | 2,850,000 | 228,028 | 1 to 12 |
| 1920 | 2,884,000 | 657,981 | 1 to 4 |

Investment for Chicago's Use Is Tremendous—The Illinois Bell Telephone Company has, according to its books, spent approximately \$108,000,000 for land, buildings, equipment and apparatus, to give Chicago and Illinois this wonderful service. It would cost more than double this sum to replace this property.

In the last ten years, the growth has been three times that of the preceding 30 years and so tremendous is the giant Chicago's expansion that the present plant, engineers say, must be doubled in the next ten years if the company maintains its present service for the city.

How Chicago leads the great cities of the world in telephone service is illustrated by comparison with European cities, showing ratio of telephone to population:

| | Popu- lation | Tele- phones | Ratio of |
|---------|--------------|---------------|------------|
| | | Telephones to | Population |
| Chicago | 2,884,000 | 657,981 | 1 to 4 |
| London | 6,726,000 | 293,000 | 1 to 23 |
| Paris | 2,838,000 | 120,000 | 1 to 24 |

Chicago has telephone exchange buildings, averaging 24,000 square feet of floor space each, located, planned and built to meet the demands peculiar to telephone operation, in which 64 central office units each designated by a name, are located. The capacity of each unit is 10,000 lines.

The company has about 16,000 employes in Chicago and suburban territory and about 5,000 down state, and a payroll of approximately \$24,000,000 per annum, most of which is spent over the counters of Chicago and Illinois business men.

Great Employed Army Constantly On Job—It requires 9,000 operators to handle the city and suburban calls, which

vary from 1,000 per hour after midnight, to more than 260,000 per hour during the busy periods of the day. The total number of calls made in Chicago averages 2,750,000 daily.

In addition there are 7,668 subscribers' private branch exchange switchboards in use, through which telephone service of the large business concerns is handled, and these concerns employ more than 10,000 operators.

An army of experts is employed to police the lines and equipment and keep them in working condition. These experts are prepared to meet at a moment's notice, night or day, emergencies of every character.

To facilitate the use of the telephone in Chicago, 1,250,000 directories are distributed annually. If placed end to end they would reach from Chicago to Toledo, O.

Chicago has the largest plant in existence manufacturing telephone apparatus and equipment.

History of Chicago's Big Phone System

—The first telephone was installed in Chicago in 1877—a year after Alexander Graham Bell exhibited his telephone at the Centennial Exposition (only three months after the first one was made.) The Atlantic and Pacific Telegraph Co. with which B. E. Sunny, now president of the Illinois Bell, was connected, obtained four telephones (receiver type), and placed them upon a line connecting the telegraph office on Washington Street, opposite the present County Building, with the home of John N. Hills, in Ravenswood.

On December 21, 1878, the Bell Telephone Co. of Illinois was chartered upon petition of H. H. Eldred, G. E. Stockbridge, G. G. Eagle and C. S. Squires, the capital stock authorized being \$80,000. Mr. Eldred was made general manager and Gardner G. Hubbard, the father-in-law of Mr. Bell, president. Mr. Sunny became superintendent early in 1879. The general office of the company was in the basement of an old building now 11 South LaSalle Street and the principal exchange was on the top floor. The lines were located mostly upon the roofs of buildings.

In January, 1881, the Chicago Telephone Co. was incorporated with a capital of \$500,000. Norman Williams, a prominent attorney, was its first president, being succeeded a few days after his election by General Anson Stager. The property of the American District Telegraph Co. and the Bell Company was bought and the two systems unified by means of several aerial cables connecting the tower of the Bell Exchange on LaSalle Street with the tower of the A.D.T. Company opposite—where the hotel LaSalle now stands.

At the end of 1882 the new company had 2,610 telephones in Chicago and 392 in suburban towns. The growth of the system was slow, capital being hard to obtain and inductive interference, cumbersome switching apparatus, impracticable underground cables and high maintenance costs being some of the problems. It was not until 1896 that the great period of expansion began and Chicago's wonderful telephone system of today began to take definite form.

Chicago Has Become a Radio Center—Powerful Broadcasting Stations Give Varied Programs

Chicago is today the center of radio broadcasting in the middle west and also ranks as one of the three largest broadcasting centers in the United States. During the past year popular interest in the radio has become so great there have been more than a 1,000,000 radio receiving stations installed in this city alone. The estimated total for the entire country, according to figures of the Department of Commerce is approximately 2,000,000. In other words, Chicago is using 5 per cent of all the radio sets manufactured thus far.

Six Stations in Chicago—Six powerful stations are located in Chicago and programs of speaking, music and other entertainment broadcasted from these can be heard in every state of the Union. One station, KYW, has been advised that their programs have even been heard in Circle, Alaska, some 3700 miles from Chicago.

The six stations that have made Chicago a "radio center" are:

KYW—400 meters, operated by the Westinghouse Electric & Manufacturing Co.

WDAP—360 meters, Drake Hotel, by the Chicago Board of Trade.

WMAQ—360 meters, operated by the Chicago Daily News.

WPAD—360 meters, operated by Wieboldt.

WBU—360 meters, operated by the City Hall.

WAAF—485 meters, operated by the Drovers' Journal.

KYW—Was the first station in Chicago to broadcast a daily schedule and program of music every evening. It is located on the Edison Building, and holds the long distance sending record among the local stations. This was attested on receipt of a letter from T. L. Haire, wireless operator board the S. S. Stuart Dollar informing KYW that he had listened in while cruising in the Pacific 3700 miles from Chicago.

Control Is Transferred—WDAP, located on the Drake Hotel, was established by Elliot Jenkins and Thorne Donnelly and has since been taken over by the Chicago Board of Trade.

WMAQ, located on the roof of the Fair Store, is operated by the Chicago Daily News, broadcasting speeches and musical programs nightly on a 360 meter wave length.

WPAD, is a newcomer in Chicago. It is owned and operated by Wieboldt's Department Store and broadcasts a daily musical program on a 360 meter wave length.

WBU, located in the City Hall broadcasts speeches by city officials three times a week.

WAAF, operated by the Drovers' Journal is located in the Stock Yards and broadcasts estimated receipts on livestock purchases five times daily, at 8:30 a. m., 10:30 a. m., 12:30 p. m., 3 p. m. and 4:30 p. m.

Varied Program—Beginning with the general broadcasting of musical programs

in November, 1921, and later, the various Chicago newspapers devoting special sections to the subject of radio, by the close of April, popular concerts, board of trade reports, market and government reports were regular features of the radio broadcasting service. Today the demand for radio receiving sets is far in excess of the supply.

For a thousand miles in every direction, news items, musical programs and lectures broadcasted from Chicago can be heard. Far out on the plains of Texas, Nebraska and the Dakotas; in the towns and hamlets of Michigan, Ohio, Missouri, and our other neighbor states, as well as right here in Chicago, every evening our large audience gathers to hear these programs. Parts of the programs being broadcasted from Chicago KYW Westinghouse Station have even been heard as far away as the Cataline Islands.

Schedule Is Long—KYW maintains a twelve-hour broadcasting schedule including market and weather reports, late news bulletins, speeches and music. It is also famous throughout the United States as the only radiophone station in the world to broadcast Grand Opera.

In addition to having been heard in every state in the Union, KYW has also been received in Cuba, Mexico, Canada and Alaska. KYW also broadcasts an extensive Sunday program which includes the services of Central Church and the Sunday Evening Club from Orchestra Hall by means of a special wire, and the studio chapel services conducted by the leading pastors of Chicago.

Luncheon Talks Sent Out—The latest feature of KYW's schedule is the broadcasting of the regular Wednesday luncheons of The Chicago Association of Commerce directly from the ball room of the LaSalle Hotel.

These six broadcasting stations are doing a great work in constantly bringing the activities of Chicagoans to the attention of more than a million people of the United States. The livestock and market quotations are of great value to the

farmer, as in the agricultural section of America farmers are depending more and more on the information broadcast from Chicago stations. The fact that these local broadcasting units are located in the center of the greatest agricultural region in the world, the radio service they broadcast in the nature of instruction, entertainment and advice for the people is of incalculable value.

Chicago Toys Are Famous—Unique Industry Grows in This City

Chicago plays a big part in the nation's toy industry—one that involves millions of dollars each year. Chicago toys are shipped all over the world and the production of them in the city has become one of the leading industries.

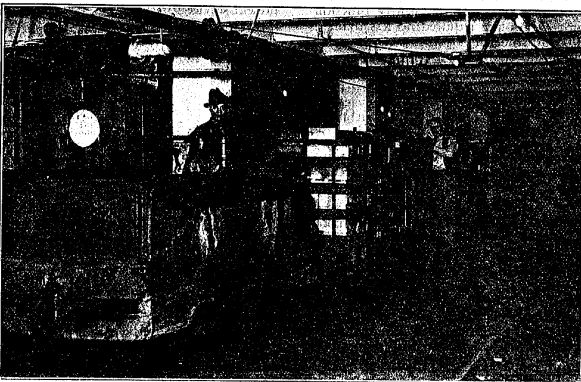
Chicago's part in the world's toy industry is symbolized by several characteristic and unique Chicago factories. The first of them, a seven-story building on South Halsted Street, is the largest toy train factory in the world, and bears the propitious name of The American Flyer. Some concept of the capacity of this well-ordered establishment may be gathered from the fact that it turns out 6,000 trains a day, or eleven complete train outfits a minute.

Chicago's production of toy trains in 1920 increased 1,500 per cent over 1914's business. It is a matter of continual improvement of the labor-saving devices.

Chicago Has Unique Railroad Under Its Busy Streets—Freight Traffic Is Carried Underground

Traveling through 60 miles of tunnels underneath the business streets of downtown Chicago is a small electric railroad that plays a vital part in the business life of Chicago. This is the railroad of the Chicago Tunnel Company, which operates 132 small electric engines and 3,000 cars to take care of a freight business that serves loop business houses.

Valued at Forty Million—\$40,000,000 is represented in this underground railroad which has no counterpart anywhere in the world.



Scene taken underneath the streets of Chicago where an underground railway system is operated for the quick and easy handling of express and freight matter between distributing points.

Among the most interesting services of the Chicago Tunnel Company has been the transportation of hundreds of thousands of yards of excavated material to the water front in Grant Park, there to build up out of the shallows of Lake Michigan, the site of the Field Museum and the proposed new Chicago Stadium. This stupendous work is still going on. Another function is the hurrying of mail from the freight stations to the Post Office more quickly, safely, and efficiently than could be done above ground.

The Tunnels—The tunnels are six feet wide, about seven and a half feet high, and in the form of a curved arch. Since the first sections were cut through the hard blue clay and lined with concrete in 1901 to 1903, it is declared that no fault has ever appeared, no major repairs ever been required, no building ever suffered harm by settling or other disturbance. There has never been a collision nor any accident causing delay of traffic.

Freedom from dampness is secured by electric pumps and suction pipes and by the continuous circulation of fresh air. It is a fact that no ooze appears anywhere and that the temperature is uniformly about 55 degrees, which is favorable for perishable freight.

The manner of operation may be described in a few words. At the freight station, at the big department store, or at the public receiving station of the company itself, electric elevators are constructed capable of lifting a car to the level at which it is to be loaded. Once loaded, it is run back upon the elevator and dropped to the level of the tunnel again, there to become part of a train. As many as ten or a dozen cars may be hauled in one train, and the speed is about ten miles an hour.

How Railroad Is Operated—Besides its commercial connections, as they are called, with large regular patrons, the company maintains four public receiving stations. One at 746 West Jackson Boulevard serves the territory west of the Chicago River. One at Dearborn Avenue and Water Street serves the wholesale district in the northern part of the business section and the territory north and east of the river. One at Seneca and North Water Street shares the patronage of the same territory as the preceding. The fourth, at 12th and Canal Streets, is accessible to the territory south and west of the Loop District. It will be seen by those familiar with conditions that these four stations are all outside of the area of greatest congestion, yet near enough to its boundaries so that one of them can be conveniently reached from any point in the loop.

The handling capacity of the line is 2,000 cars a day, of which about 1,200 go in and out at the commercial connection and 800 at the public stations.

In loading cars with excavated material, a chute is laid from the basement level downward to the subway level, broken through the wall of the tunnel, and made to convey the earth by simple gravity into the waiting cars below. Work of this kind is more easily and quickly done than it could be by any other method in use, at less interference with operations that may be going on above. When the cars reach the lake front, they are elevated, hauled

to the dumping ground, emptied by the use of suitable cranes, and sent back for reloading.

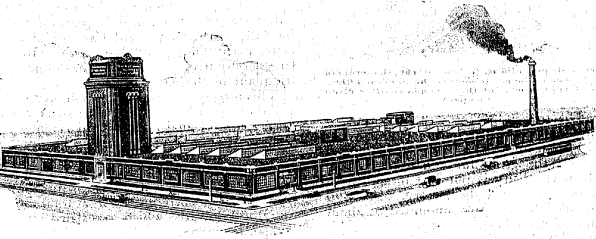
It is estimated that if it were not for the underground freight service the surface traffic in the loop district would be increased by one-third. Five thousand added carts and trucks would be crisscrossing the overworked streets. Such a measure of relief as this involves, clearly adds much to the facility and economy of moving the actual two-thirds that remains above ground.

Chicago is a Distributing Center for Wall Paper—Thousands of Tons Made Every Year

Chicago produces and distributes more wallpaper than any other city in the United States or the world for that matter.

If you were to stretch out in one length all the wallpaper manufactured in Chicago in one year it would reach around the world nine and one-half times.

The quantity of blank paper made up annually into wall paper in Chicago is approximately 15,600 tons. Made up into rolls of eight yards each, this would mean



Henry Busch Co.'s Wall Paper Mill, 47th St. and Kedzie Av.

52,000,000 rolls. At a minimum value of thirty cents a roll, the total number of rolls would be worth not less than \$15,600,000, which is of course a most moderate estimate.

The Middle West is the largest consumer of wall paper in the country, partly due to the fact that it is the center of population of the United States, and the region of greatest building activity, taken as a whole. All makers, east and west, cater to this market, and Chicago, with its unexampled means for distribution, whether by boat or by rail, is the very core of this market.

Chicago's Great Electric Power System is Premier of the World—System to be Augmented by Two New Plants

Chicago's marvelous electric power system now the greatest to be found in any city of the world, will soon be augmented by two new plants which will cost \$53,000,000. These are going to be built to take care of the increasing need for power due to the city's rapid growth. One of these plants will exceed in size anything now in existence.

Chicago's output of electricity already exceeds even the record of the Niagara Falls Power Company, which utilizes the world's greatest water falls. The Commonwealth Edison Company established a world's record in 1921 with a production of 1,928,271,940 kilowatt hours of ener-

gy. This was passed in the first eleven months of 1922. In October of 1922 the company produced 198,683,646 kilowatt hours, a world's record for a single month. **Electrical Facts**—Electrically, Chicago is the most interesting of all cities.

Its electric company, the Commonwealth Edison Company—has the largest individual electricity-supplying system in any city in the world.

The use of electricity, per capita, is probably greater than in any other city.

Since 1890, the growth of Chicago's population has been two and one-half times. The output of the Commonwealth Edison Company has been expanded in the same period 740 times.

In 1920 the Company reported the enormous station output of 1,883,570,000 kilowatt hours. This figure is larger than the population of the world and one kilowatt hour will keep 20 average sized incandescent lamps burning for an hour.

Into the maw of the great furnaces at the generating plants goes annually more than 2,300,000 tons of coal—practically all of it coming from the company's own mines—to be changed from latent energy

into economic, indispensable electric power for factories, to make the electric transportation system operate, into light for homes, stores, factories, offices, hospitals, hotels—in fact to be used in all manifestations of the social, business and industrial life of the great city.

As It Was and Now. *How the Giant Grew*—So tremendous a factor in the city's life has this great service become so unfeeling and intimate—that one might believe its bounties had always been available.

Yet it was only as late as May 25, 1882, that the Western Edison Light Company, the Commonwealth Edison Company's predecessor, was chartered. This little company like the present gigantic electrical enterprise, was a distinctively home-owned Chicago institution.

Franchise In 1887—The company obtained a franchise authorizing it to distribute electricity throughout the then city of Chicago. In 1887, this franchise being assigned to its successor, the Chicago Edison Company, in the same year. This latter company built its first generating station at 139 Adams Street (now 120 West Adams Street), from which the sale of electricity was begun in August, 1888.

In 1898 the men in charge of the Chicago Edison Company secured control of the Commonwealth Electric Company, which, in 1907, was consolidated with the Chica-

go Edison Company to form the present Commonwealth Edison Company. With the parent Edison stem, many other electric central station companies have been united, including the Chicago Arc Light and Power Company and the Cosmopolitan Electric Company, the latter being absorbed in 1913. The scores of small and uneconomical plants in the 200 square miles of area of Chicago have thus, as the years passed, been succeeded by one city-wide organization for the production and distribution of electricity, to the great advantage of the people of the city both in the character of the service and the low rates made possible by centralization of generation and distribution.



The Edison Building is one of the skyscrapers in Chicago's loop. It houses the general offices and dispatch rooms of the Commonwealth Edison Company.

The tremendous growth in output of the Commonwealth Edison Company of 740 times since 1890, is largely accounted for by the great and manifold uses to which electricity is put in Chicago, both in the home and the factory. In 1890 the sales of electricity amounted to about two to three kilowatt hours per inhabitant. In 1920 this had been increased to over 600 kilowatt hours per capita. Electricity was something remote, strange and mysterious in 1890; now a child pushes a button and it is his master.

In 1888 the original rating of the Edison generating equipment was about 640 kilowatts.

At the end of 1920 the rating of the generating stations of the Commonwealth Edison Company, including storage batteries, was about 580,000 kilowatts.

Half Million Homes and Factories Have Light and Power—In 1893 the number of customers was 4,452. Now more than 485,000 homes, factories, railroads, stores and offices are being served.

The largest electric generator in the system in 1888 was rated at about 80 kilowatts, a toy compared with the great generators of 35,000 kilowatt rating now in use.

In 1920, the company paid out in various forms of taxes and municipal compensation the sum of \$3,140,000, it being the largest payer of personal property taxes in Cook County.

Chicago's Great Electrical Plants—Chicago's electricity is produced at several great generating plants the most prominent being Fisk Street Station, West 22d and Fisk Streets, with a rating of 230,000 kilowatts; Northwest Station, Roscoe Street and North California Avenue, with a rating of 165,000 kilowatts, and Quarry Street Station, West 25th and Quarry Streets, with a rating of 85,000 kilowatts.

The Calumet Station, west bank of the Calumet River, near Commercial Avenue and East One Hundredth Street, a new plant designated to have an ultimate rating of 180,000 kilowatts, is under construction. The company has other generating stations and also 38 sub-stations scattered throughout the city, which are the centers of distribution for their own neighborhoods.

The new section of the Calumet Station will contain two additional generating units of 30,000 kilowatt capacity each, making the total capacity of the station 180,000 kilowatts or 270,000 horsepower. The Calumet Station is located on a site of 48 acres at One-Hundredth Street and the Calumet River.

The Fisk Street Station is the largest electric generating station in the world under one roof. Its turbo-generator room is 635 feet long. This station is of historic interest, for it was the first in the United States, and probably the world, to be designed for exclusive operation by steam turbines.

The New West Side Plant—A new plant will be erected on the West Side at a cost of more than \$32,999,000. It will be completed and in full operation by the fall of 1925 and will have an ultimate capacity of 375,000-horsepower, the largest output of any central station electric plant in the world.

This new West Side Station will occupy a site of 67 acres on the north bank of the Drainage Canal at Crawford Avenue, adjacent to Thirty-ninth Street. The initial installation will be two electric generating units of 35,000 kilowatts each. The ultimate expansion provided for in the plans is eight such units, or a total of 280,000 kilowatts, which, translated into layman language, means in excess of 375,000 horsepower. The two initial units of the plan will cost about \$9,000,000, exclusive of the ground. The site is ideal for an electric power station. It has the advantage of being on several railroads, insuring steady delivery of fuel, and there is an abundant water supply. It is situated so as to be in immediate touch with the large West Side industrial center, a heavy user of electrical power.

In the electrical net work of the city there are more than 2,500 miles of cable, 18,000 miles of overhead wire, and 51,100 miles of underground conduit.

It is interesting to note that while Chicago has but 2½ per cent of the population of the United States, the electric company serving it produces 4.7 per cent of the entire output of public utility plants, including the electric railways, of the country.

Wide Use of Electricity—The increase in use of electricity in Chicago last year alone, was equal to the total amount of electricity used for light and power purposes in the entire state of North Dakota, and the increase in number of customers during the year was equivalent to the total number of residential lighting customers in the state of Arkansas.

The increase of 122,154 in the number of customers in the years 1920 and 1921 was equal to the total number of electric light and power customers in Boston. The Commonwealth Edison Company now serve approximately 585,000.

To consume the 1,928,271,940 kilo-

watt hours of electricity generated in 1921, a 50-watt lamp would have to remain lighted continually for 10,339,259,732 hours, or 1,180,281 years.

In 1890 the use of electricity per inhabitant in Chicago was approximately two kilowatt hours. In 1921 it was 617 kilowatt hours.

So tremendous have power users become that in 1921 approximately 75 per cent of the Commonwealth Edison Company's business was in the selling of electricity to wholesale customers and but 25 per cent retail business—small stores and residential lighting.

All electric railways, surface and elevated, of Chicago are operated by electrical energy purchased from the Commonwealth Edison Company. The company supplies power for factories, for the operation of elevators, for newspaper establishments, for the familiar electric fan, the helpful electric washing machine and all of the varied industrial requirements of Chicago. Its electric heat is in demand for the popular electric flatiron, cooking apparatus, household heaters and for countless other operations. At least 90 per cent of all the ice used in Chicago is manufactured by the use of Edison power. The company is officered by men who have grown up in its own ranks. It is "owned in Chicago".

Chicago's Elevated Railroads Are Factor in City's Transportation

Lines Radiate From Loop—Without equal in the world is the service of the Chicago Elevated Railroads, this either considered from the viewpoint of safety of passengers, high speed or distance which may be traveled for a single fare without change of cars.

Radiating from the "loop," or business heart of the city, the elevated lines extend far beyond the city limits on the North and West sides of the city and for a distance of ten miles on the South side. From the main line in each section of the city, one or more branches run off into business and residence neighborhoods, giving a fast and convenient service to practically every part of the city and adjoining suburbs.

The elevated railroads have 71.12 miles of roadway. There are 167.05 miles of single track on the main lines. The total mileage is 193.33 of single track.

Over these lines passengers can ride farther in one general direction for a single fare than in any other city in the country, one ride—from Linden Avenue, Wilmette, to Jackson Park—being 24 miles, this accomplished without changing cars and the running time being 77 minutes.

The average length of ride on the elevated is 6.48 miles compared with 4.16 miles on the New York Elevated and 3.57 miles on the New York subway. Express trains on the Chicago elevated make a little faster time than similar trains in the New York subway.

Over Half Million Ride "L" Daily—The average number of passengers carried daily on week-days on the elevated railroads is 540,000. The record days have been: Nov. 11, 1918 (Armistice Day), 869,653 passengers; July 15, 1920 (strike on surface lines), 864,624 passengers.

The employees include 4,900 men and 600 women, a total of 5,500.

On April 29, 1920, a record was established when 963 elevated cars entered the "loop" in one hour.

The number of car miles run daily on the elevated lines, averaging 150,000 or equal to a distance of six times around the world at the equator.

Every 24 hours there are 5,232 trains of 16,812 cars run over the lines of the elevated railroads.

There are 206 stations on the lines, including 11 on the loop and 5 stub terminals.

There are 270 miles of copper cable in use and 23 miles of trolley wire, the copper required in power transmission alone weighing 5,201,000 pounds.

There are 35,210 lights in elevated cars which alone cost \$10,998 a year to maintain and there are 16,225 lights in elevated stations, costing \$16,352 a year. The cost of keeping passengers comfortable through heating of cars averages \$166,800 a year, this being 10.65 per cent of the total power used.

The elevated lines have 1,664 cars in operation, it costing \$1,202 per car for maintenance per year, as against \$497 in 1914. The cost of a motor car is \$23,500. They weigh 70,000 pounds and have 380 horse power motors. The elevated railroads pay taxes of approximately \$900,000 a year.

Busiest Crossing In World on Elevated

—The busiest railroad crossing in the world is at the elevated intersection of Lake and Wells Streets, where in the hour of maximum travel 218 trains of 1,100 cars pass this corner at the rate of 18 cars a minute. If these cars were coupled together they would make a continuous train of more than 10 miles in length.

The elevated railroads maintain 125 fully equipped first aid stations along their lines and a school for instructing first aid workers is conducted which qualifies employees for this important work.

On regular routes the interval between trains in rush hours is two minutes and throughout the day six minutes, while after midnight trains operate 30 minutes apart. On the main lines where several branch lines use the same tracks for part of the distance the interval between trains is one minute in rush hours.

For the safe conduct of passengers the elevated railroads have a record that stands unequalled on any transportation line. For more than 13 years there has not been a single fatal accident to a passenger on a train on the elevated. In that period the roads have carried more passengers than the entire population of the world.

All switches and signals on the elevated are operated by a combination of compressed air under high pressure and electricity, known as an electric-pneumatic plant and are so inter-locked in the operating tower that signals cannot be given which would allow two trains to collide. In addition to the interlocking in the tower, each switch is protected by an automatic track trip, so that should a motorman run past a signal, the airbrakes are automatically applied and the train brought to a stop within a few feet.

How the "L" Grew From a "Dummy" Line—The first elevated railroad built in Chicago was the South Side Elevated Rail-

road. It began operation on June 6, 1892, with steam locomotives. The steam locomotives were abandoned and electric operation was substituted April 20, 1896.

The second line to begin operation was the Chicago and Oak Park, which first ran trains on a section of its line on Nov. 6, 1893. Steam locomotives were used until Sept. 20, 1896, when electric operation was instituted.

The Metropolitan West Side Elevated began operation May 6, 1895, on its main line, used electric power from the beginning.

The Northwestern Elevated began operation on its main line, May 31, 1900. On Sept. 3, 1901, the Northwestern purchased the Union Elevated Railroad Company (Union Loop), which had operated as a separate company from Oct. 1, 1897, and leased its lines to all the companies. The Loop is used jointly by the four companies.

Until Nov. 1913, the four elevated roads were operated separately, but on that date they were brought together under one agent and through service operation was inaugurated between the Northwestern and South Side roads.

The elevated lines consist of several branches radiating, as do the surface lines, from the loop. On the South, the South Side Elevated line runs to Jackson Park and four separate branches extend to the stock yards, Kenwood, Englewood and Normal Park.

On the West, the Metropolitan West Side Elevated Railroad consists of a main line to Marshfield Junction and four branches from that point, these being the Logan Square, Humboldt Park and Garfield Park lines, extending to the north-west side and far beyond the city limits to the west.

The Chicago and Oak Park Elevated runs west directly through Austin and Oak Park to River Forest.

On the North Side, the main lines of the Northwestern Elevated parallels the Lake Michigan shore line from the heart of Chicago through Evanston, terminating at Wilmette. From the main line at Belmont Avenue, the Ravenswood branch runs northwest.

The Union Elevated Railroad (Loop) forms a square in the business heart of Chicago and all lines use it.

The Chicago, North Shore and Milwaukee Railroad, whose electric trains connect with points between the city and Milwaukee, enters the city over the Northwestern Elevated and runs around the loop. The cars of the Aurora, Elgin and Chicago Railroad enter the city over the Metropolitan Elevated, the terminal being at Quincy and Wells Streets. On the South and West Sides, the elevated and surface lines also connect with a number of other important interurban lines which serve wide sections of northern Illinois and Indiana.

Chicago's Street Railway System is Largest in the World Under Single Management—3,500,000 People Use It Daily

To help in taking care of Chicago's millions who travel back and forth from work each day as well as the thousands of shoppers and pleasure seekers in the great

city, Chicago's Surface Lines, a system of electric street railways, is operated.

Street Car Facts—The Chicago Surface Lines is the largest system in the world under a single management. It is a combined operation of the Chicago Railways Company—the west and north side line—and the Chicago City Railway Company, the Calumet and South Chicago and the Southern Street Railway companies—the south side lines—so that the people might ride over the tracks of all companies for a single fare.

There are over 1,000 miles of single track and 3,085 double track cars.

The double right of way, approximately 530 miles in length, paved with Belgian block, would reach almost to Buffalo and is maintained, cleaned and cleared by the company.

The Surface Lines have the most liberal transfer system in the world, the use of transfers being unlimited so long as the passenger continues to travel in the same general direction.

For every 100 cash fares collected there are 70 transfers issued and used.

Approximately 2,000,000 passengers pay cash fares daily, and there are 1,500,000 rides furnished on transfers, or a total of 3,500,000 riders carried each day to and from work or pleasure.

The Surface Lines property devoted to public service, if reproduced new today, would cost about \$250,000,000.

Over 16,000 employees. Wages over \$28,000,000.

For the year ended January 31, 1921, the Surface Lines paid out as operating wages \$28,204,342, this being more than 67 per cent of the total expenses.

The Company have over 16,000 employees, of whom more than 11,000 are conductors and motormen.

The power used by the company during the past year amounted to 496,579,296 kilowatt hours.

Changes Made in 1893—In 1893 there began a general change from horse and cable to electric operation. This was the year of the Chicago World's Fair and the Intramural Railway on the fair grounds was one of the first experiments with electric cars on an elevated structure. The first electric cars were largely remodeled horse and cable cars. Four wheel motor trucks carrying the motors were substituted for the old trucks. The cars were lighted and later were heated by electricity. The length of the cars was from 12 to 18 feet, which was soon increased to 18,000 pounds. Longitudinal seats were the standard. There were no enclosed vestibules.

In 1893 the first overhead trolley system in Chicago was built, and by 1896 most of the horse cars had been abandoned. By the end of 1906 all of the cable lines had been electrified.

Chicago's Transportation Progress Rapid—Interesting historical dates in the development of the city's great surface transportation have been:

1858—Nov 1. Ground broken at State and Randolph Streets for first horse car lines.

1859—Four cars running (population of city about 108,000.)

1864—Steam dummy running on Evanston Avenue (now Broadway) from Diversey to Graceland Cemetery.

1881—Steam dummy running on Cottage Grove Avenue from Oakwood to Fifty-fifth Street and on Fifty-fifth east to Lake Avenue.

1882—Jan. 28. First cable line began operation on State Street as far south as Twenty-second Street.

1887—The north side lines extended as far as Irving Park Boulevard by way of Clark Street and Evanston Avenue (now Broadway). The South side lines as far as Fortieth Street. The West Side lines as far as Garfield Park.

1888—March. First north side cable on Clark Street to Diversey Boulevard.

1890—July. First West Side cable on Madison Street. (Population 1,099,850.)

1893—First overhead trolley line put in operation by South Side Company (Chicago City Railway Company).

1894-95-96—Various other lines electrified and numerous extensions built.

1906—All cable lines changed to overhead trolley.

1907—Feb. 11. "Settlement Ordinances" passed affecting surface lines. Nov. 24. Pay-as-you-enter cars introduced on Cottage Grove Avenue.

1914—Feb. 1. Unified operation of all surface lines in city effective.

In 1859 car tracks were laid upon 9 miles of city streets. Early growth was not rapid.

In 1866 there were but 29 miles of track and in 1876 but 54 miles. In successive years the mileage was as follows: 1886, 131 miles; 1896, 344 miles; 1907, 385 miles; 1916, 475 miles. and in 1921 there were 530 miles. In general these figures may be multiplied by two to give the miles of single track.

In 1866 a single fare would buy a 2-mile ride.

In 1886 a single fare would buy a 4-mile ride.

In 1896 a single fare would buy a 12-mile ride.

Now a single fare will buy a 32-mile ride, this being possible because of the liberal transfer system.

Surface Lines Lead World in Development

The Chicago surface lines exceed any other city railway, surface, elevated or subway, in the world in number of miles of track, number of cars, number of car hours and car miles operated and of passengers carried.

Comparing this system with all the electric railways (surface, subway and elevated) in the United States, it has about 2.3 per cent of the total miles of track; about 3.7 per cent of all passenger cars; it employs 5.2 per cent of all the employees and about 7.8 per cent of all the motormen and conductors; it operates about 5.3 per cent of the total number of car miles and carries about 6.5 per cent of all revenue passengers and about 18 per cent of all transfer passengers.

Surface transportation in Chicago presents enormous difficulties because of the traffic congestion on the streets and because of the simultaneous movements of hundreds of thousands of people during the rush hours. In the morning and in

the evening this "rush" comes as people go to and from work, the demand for transportation at these periods being 100 per cent greater than during the normal hours of the day. To meet this requires the maintenance of a very expensive reserve equipment above that necessary for ordinary transportation demands.

The speed with which Chicago is given transportation in the rush hours is illustrated by one busy intersection. At the point where North Halsted Street, West Grand and Milwaukee Avenues intersect there are operated over this crossing during the "peak" of the morning and evening rush hours a car every 6 seconds—10 cars a minute—this not taking into account the miscellaneous traffic over the crossing. At this same intersection approximately 30,000 people transfer from one line to another during the course of a day.

Chicago Street Railway Chronology
Omnibuses—First regular omnibus line started by Frank Parmelee May 9, 1853.

Horse Cars—South Side, first line on State Street, between Randolph and 12th Streets, opened April 25, 1859; West Side, Madison Street line, Halsted to State, opened May 20, 1859; Randolph Street line, opened July 15, 1859; North Side, Wells Street line, River to Chicago Avenue, opened late in spring of 1859; Clark Street line opened in August, 1859.

Cable Cars—South Side, first cable line in Chicago operated on State to 39th Street, began business Jan. 28, 1882; Cottage Grove Avenue line built same year; North Side, Clark Street line opened March 27, 1888; Wells Street line opened same year; Lincoln Avenue line opened Jan. 22, 1889; Clybourn Avenue line opened May 2, 1891; West Side, Madison Street line opened July 16, 1890; Milwaukee Avenue line opened at same time; Blue Island Avenue line opened July 28, 1893.

Electric Cars—South Side, first electric line in city began operation Oct. 2, 1890, from 95th Street and Stony Island Avenue to South Chicago; trolley substituted for horse cars on most of the lines (except cable) in 1893 and 1894 in all divisions of the city and in the suburbs; trolley substituted for cable cars on State Street July 22, 1906, and on Cottage Grove Avenue Oct. 21, 1906. West Side, trolley cars substituted for cable on Blue Island Avenue July 22, 1906, and on Madison Street and Milwaukee Avenue Aug. 19, 1906. North Side, all cables changed to trolley lines Oct. 21, 1906. Fares raised to 7 cents Aug. 8, 1919; Dec. 1, 1919, 50-ride tickets sold for \$3; 10-ride tickets for 65 cents; Dec. 27, 1919, fares reduced to 6 cents cash; fares raised to 8 cents July 1, 1920.

Elevated Railways—South Side, South Side elevated railroad began regular operation on line between Congress Street and 39th Street June 6, 1892, with steam as motive power, extended to Stony Island Avenue in May, 1893, extended to Englewood in 1906 and to Kenwood in 1907; trains began running around loop Oct. 18, 1897; motive power changed to electricity July 27, 1898. West Side, Lake Street line (Chicago & Oak Park)

began running Nov. 6, 1893, with steam as motive power; electricity substituted June 14, 1896; Metropolitan road opened May 20, 1895, with electricity as motive power; began running over loop Oct. 10, 1897; extension of Garfield Park and Douglas Park lines completed in 1902. North Side, Northwestern line opened for business May 31, 1900, with electricity as motive power; Ravenswood branch opened May 10, 1907; through routing of trains between North and South Sides and giving of transfers on all elevated roads began Nov. 3, 1913. Fares raised to 6 cents Nov. 22, 1918, raised to 8 cents Aug. 8, 1919; tickets sold for 70 cents Feb. 1, 1920; fares raised to 3 cents with four tickets for 35 cents Aug. 4, 1920.

Merger of Surface Lines—Unified management. Ordinance passed Nov. 14, 1913, providing for merger and unified management of all surface lines, with through routes, 5-cent fares and transfers to all parts of city; ordinance went into effect Feb. 1, 1914.

Chicago's Gas Company is Largest Company in the World—No Other Company Operated as a Single Unit Can Compare With Local Organization

Chicago's supply of manufactured gas comes from the largest gas company operated as a single unit in the world, The Peoples Gas Light & Coke Company.

Hardly a person lives a single day in Chicago without being served in some way by gas. A person eats and drinks something cooked with gas; he comes in to contact with gas lighting or he uses something that was manufactured with the assistance of gas.

So efficient has been its operation and so painstaking has been preparation for the future, that today Chicago citizens enjoy gas service that is unexcelled anywhere in the world. Every day upwards of 650,000 homes in Chicago have only gas as fuel for cooking. Preparation of the evening meal begins in these homes at practically the same hour every day—all begin using gas at about the same moment—yet the supply never fails day or night.

Large Output
During 1920 the company manufactured 24,905,509,000 cubic feet of gas and purchased 6,413,926,000 cubic feet from other producers; or a total of 31,319,435,000 cubic feet. The average daily distribution of gas amounted to practically 86,000,000 cubic feet.

To manufacture this gas for Chicago households and industries in 1920 the following raw material was required:

| | |
|-----------------|------------------|
| Bituminous coal | 222,612 tons |
| Anthracite coal | 95,332 tons |
| Coke | 400,207 tons |
| Fuel oil | 3,121,348 gals. |
| Enriching oil | 74,759,918 gals. |

Miles of Mains Transport the Gas
To transport the gas from manufacturing stations throughout the city requires an immense network of strain mains—3,122 miles of them. Connected to these big mains are thousands of miles of smaller pipes, known as "services," which bring the gas to the consumer's premises.

How Chicago's Gas Company Grew—

The first gas company in Chicago, the Chicago Gas Light and Coke Company, was organized in 1849, twelve years before the Civil War. In the years which followed several other companies were organized that supplied different parts of the city and also entered into disastrous and expensive competition with each other. In 1897, all of these companies were, by special provision of the legislature, consolidated with the Peoples Gas Light and Coke Company (which came into existence in 1855) and since then one great and efficient company has been the city's unflinching source of gas supply.

The total capitalization of the gas company is \$84,786,000, of which \$38,500,000 is capital stock owned by more than 7,000 men and women; investors and \$46,286,000 is bonds. The value of the company's property in July, 1921, was in the neighborhood of \$140,000,000.

How the City is Efficiently Served
Chicago is served with gas manufactured at seven big gas making plants scattered throughout the city, which are coupled up with a number of distributing stations and all linked by the great network of gas mains.

Each manufacturing station has two to three gas holders. To make certain that Chicago's gas pressure will be even throughout the city, nine storage or distribution holders and pumping machinery are in operation away from the manufacturing plants. These holders store gas and at the periods of the day—meal times—when gas is needed the most, send out a supply. One distribution holder recently built at Crawford avenue and Thirty-first street, is the second largest in the United States and has a capacity of 10,000,000 cubic feet.

Tremendous Addition to Insure City's Supply—On the Drainage Canal a great water gas plant and a by-product coal gas plant has been built at a cost of \$18,000,000, adding upwards of 30,000,000 cubic feet of gas a day to Chicago's supply and also providing coke for existing plants. This was the second largest building project in the Middle West during the years of 1920 and 1921.



Peoples Gas Light & Coke Company Building.

The main building of The Peoples Gas Light and Coke Company is a 21-story skyscraper at Michigan avenue and Adams street, which is said to compare with any office building in the world in beauty and general utility.

Chicago's First Gas Company—The first gas company in Chicago was authorized in its charter to charge \$3 per thou-

sand cubic feet for gas. In the charter of The Peoples Gas Light & Coke Company, under which the company operates today, the rate authorized was \$2.50 per thousand. During the Civil War and after, the price of gas in Chicago, including war tax, was as high as \$4.50 per thousand. During the last 25 years the trend of prices of most fuels—coke, coal, wood, oil—has been steadily upwards, some grades of fuel being twice or three times the prices during the World's Fair year. On the other hand, the price of gas has tended steadily downward, due to perfection in the art of making artificial gas and economies in operation and distribution.

Chicago Has Many Retail Shopping Districts—Outlying Business Communities Growing in Wealth and Size Indicate Development That Has Taken Place in the City

Within a few decades Chicago has been lifted from an insignificant position to a place among the world's leading cities. It is a feat that is without parallel since the days when ancient empires like Alexander the Great could decree that a metropolis should be built on a certain spot. The progress of Chicago, has amazed the world—accustomed to seeing changes take place gradually over a period of centuries.

As a result of this rapid growth of Chicago outlying districts have developed with remarkable speed, establishing throughout the city a number of residential and business districts that in point of community pride, business interests and opportunities for commercial development are like smaller cities within a big city.

These districts are an integral part of the Chicago, the wonder city, and their stories contain all the romance and interest that enter into the story of Chicago itself. Following are some of the remarkable "Miniature Chicagos":

Woodlawn is a Noteworthy Unit in the Growth of Outlying Business Districts

Woodlawn, the residential and business district, is located on the south side of the city, the heart of it being busy 63d street. This community prides itself on being one of the cleanest as well as one of the most densely populated districts in Chicago. It also claims the distinction of having an all-American population and of being one of the few parts of the city that has always been dry. No saloon has ever been tolerated in this rich and thickly settled district, which has always been kept in a condition that would attract the best type of citizens.

This district is developing rapidly, as regards the types of buildings within its boundaries. Numerous big building projects are now under way and it is rumored that, before long, several other undertakings of unusual scope will be announced. Woodlawn extends from 60th to 67th streets and from Cottage Grove to Stony Island avenues.

Days of Ditches and Docks—Considerable imagination is required to realize that, not many years ago, this locality was one of the outlying suburbs of Chicago. Even as late as 1892 there were woods along East 63d street, with long sandy stretches of marshy land. Many of the sidewalks were raised, and there were long ditches where flocks of ducks made their homes. It is necessary to travel many

miles now, before a duplicate of the rural scenes, such as were then to be found in Woodlawn, can be discovered.

Sixty-third street was the main entrance to the World's Fair in 1893, and that fact first brought this thoroughfare into prominence. Jackson Park was the site of the World's Fair and for a long period it was a scene of intense activity. Visitors poured into Chicago, the attendance at the fair on the "biggest day" running over 750,000. Great numbers of buildings of a temporary nature sprang up around the entrance, but all of these have disappeared. Then, when the heavy pressure came to an end, there were some quiet times in Woodlawn, as is always the case after a big exposition, as well as in some other parts of the city. But this period soon passed and an era of solid growth set in, which has placed Woodlawn on a firm basis.

The old Coliseum, which used to stand on 63d street, was one of the interesting structures of other days. The building burned some years ago. It was in the old Coliseum that William Jennings Bryan in 1896 made his famous "Cross of gold" speech which stumped the delegates and won him the nomination of the Democratic party.

Later, another westerner, Buffalo Bill, took possession of the Coliseum and entertained many thousands with his Wild West show.

World's Fair Brought Transportation

The World's Fair has bequeathed a remarkable system of transportation to Woodlawn. To accommodate the immense traffic the elevated railroad system was extended so that it ran right to the principal gate, which was at the end of 63d street. The elevated has since done a heavy business, partly because it attracted many, who decided to settle in the district that was so easy to reach.

Construction of the elevated gave 63d street a three-story crossing at the point where the structure passes over the Illinois Central's right of way. At this point the street cars run under the railroad tracks, and the elevated, on an unusually lofty viaduct, runs above. There are few points in the city, where more traffic passes every day.

With its triple system of transportation installed, Woodlawn began to grow rapidly. Today it is occupied almost exclusively by flats and stores, with few detached homes. This accounts for the density of the population. It has won the reputation of being a desirable place to live. It is one of the few sections of the city that has not attracted a large settlement of foreign-born residents.

The excellent transportation, the type of residents in the surrounding district and the fact that it has no competition to speak of, have combined to make 63d street known as one of the best business thoroughfares outside of the loop. Present conditions are such that it would not be surprising if some of the stores might find it necessary to locate on some other street as congestion is feared by some.

Big University Projects—The University of Chicago is one of the big assets of Woodlawn. It is not generally known that the university owns all of the property on the south side of the Midway, from Kenwood avenue to Cottage Grove, a

street of practically a mile. This attractive site is to be improved with a string of buildings which will be devoted to university uses. These buildings will be on 60th street, which is the northern boundary line of Woodlawn.

The cost of living in Woodlawn is low and transportation is unexcelled. The South Side elevated, the Illinois Central and all surface cars furnish rapid transportation to every part of the city. All railways running south and east of Chicago have local depots on 63d street.

The University of Chicago, the Hyde Park high school and the grade schools make Woodlawn a great educational center.

Jackson Park, with the lake, the new bathing beach, two golf courses, lagoons, ball grounds and the Midway, together with Washington Park, combine to make this locality a recreation place that is truly wonderful.

The trend of property values in both the residence districts and along 63d street has been steadily upward since 1896. The present tendency is toward higher buildings. One of these, an eight-story fireproof apartment hotel, known as the Barrett building, has just been completed at 6318 Kenwood avenue.

Woodlawn is the home of one of the most beautiful moving picture theatres in the country. This is the Tivoli, located on Cottage Grove avenue near 63d street. A magnificent dancing pavilion has also been built in that district. This is the Trianon, acclaimed by many as the most notable dancing hall in the middle west.

Largely because of the approaching electrification of the Illinois Central Railroad, which will make Woodlawn even more desirable in the future than it is at present, it is expected that the vicinity of Jackson Park will be devoted ultimately to hotels and apartments of the highest class. The projects being worked out by the Chicago Plan Commission are also showing their effect on propositions now being developed for putting up fine buildings.

North Michigan Avenue District is Model One—Up-to-date Business Structures Replace Old Homes

When Chicago's new boulevard link bridge was opened up, thus connecting the north and south sides, attention of Chicago was immediately drawn to the remarkable development of the district on and near North Michigan avenue.

This district is attractive, whether one studies its past, its present activity, or the outlook for its future development.

One of the first real homes in Chicago, that of John Kinzie, stood in this district, on the north bank of the river, and in the same locality the most notable development that the city has known in years is in rapid progress. Men are still living who remember seeing Indians prowling through this district.

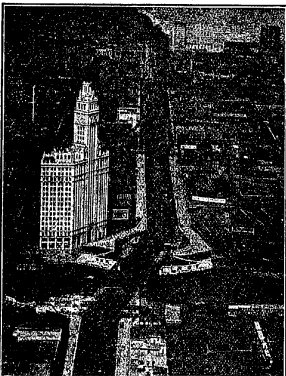
The building up of the portion of the north side, near the river represents the first notable departure on the part of leading business establishments from the traditions which have bound them to the loop, causing that district to become seriously congested. For a considerable period business houses have been seeking an outlet

that would relieve them from conditions prevailing in the loop. Many of them have decided to locate along or near North Michigan avenue, which has been opened up by the construction of the new bridge.

The part of Michigan avenue north of the river was formerly impassible, terminating against a row of unsightly buildings along the river bank. The project is being carried out in accordance with the ideals of the Chicago Plan Commission, which has numerous other notable improvements in view.

Improvements in the District—Improvements that are being made in this district are of two types, business and apartments or hotels. The business district is one of the most attractive in the city, while the new hotels and apartments have no superiors.

The transformation of the business section north of the river began several years ago, when a number of well-known firms decided to leave the loop and its immediate vicinity. The locality where these firms



(Copyright by Flukeness & Underwood, N. Y.)
Aerial view of Michigan Avenue looking north from Randolph Street, showing the new Link Bridge, the Wrigley Building, and the Drake Hotel, and the "Gold Coast" in the distance.

located became known as the North Central district. After the start had been made the change went on with remarkable rapidity. Part of this new industrial district lies east of North Michigan avenue, where a number of exceptionally high class business structures have been put recently.

This district also extends west until it touches the north branch of the Chicago river. In this locality other great changes are going on. This part of the district is favored largely by wholesale and jobbing houses, as well as by printing concerns.

So many well-equipped office structures and stores are going up along North Michigan avenue that this strip has become known among those who are especially interested in its progress as the "Greater downtown business district."

A Striking New Building—One of the most striking buildings in the city has just recently been built in the North Michigan avenue district. This is the Wrigley building, one of the show spots of Chi-

cago. An addition to this handsome white edifice is now being erected and when the new Tribune Tower is built no city in the world will be able to boast of such a cluster of skyscrapers as will adorn North Michigan avenue.

The headquarters of the central district of the United States Army, at 230 East Ohio street, is another of the notable buildings. The commanding general and his staff have their offices in this building, which is a large, well-equipped structure.

The Drake Hotel at Oak street and North Michigan avenue is another show spot district, being one of the most beautiful hotels in the country. It was built at a cost of \$7,500,000.

Old Homes Go—Something like a quarter of a century ago this neighborhood was one of the best residence districts in Chicago. It contained homes that were historic for their associations, but many of these had to be sacrificed, because of the wide sweep of the improvements.

One of the interesting buildings that have vanished was the "Sheldon Castle" at the northwest corner of Erie street and North Michigan avenue. This picturesque building is well remembered by many because of the children's parties that were given there every Christmas.

Among the well-known homes that have gone was that of John T. Lester. Near that formerly stood the residences of Cyrus Adams and of Gen. Strong, both of which have been torn down. The home of George E. Adams at the corner of Ontario street, has also disappeared, along with the once well-known apartments put up by Judge Prendergast. All these places had historic associations for Chicagoans.

A row of houses built by Isaac N. Arnold, who was a close friend of Abraham Lincoln, has been razed. The Perry H. Smith home is one of the old-time "mansions" that has been destroyed.

"Streeterville" Changes—Developments in the "Streeterville" district, which consists largely of made land east of Michigan avenue, have been sufficient in themselves to have brought distinction to any part of the city.

Two blocks east of the new Drake hotel is a palatial home apartment building, at 220 East Walton place. This building is nearing completion. It is typical of the new high class structures where living quarters are being offered Chicagoans. A villa on the roof is an unusual arrangement. A pergola of the dining room provides an outdoor dining room, while a pergola of the bedrooms supplies outdoor sleeping accommodations.

The new apartment building at 229 Lake Shore Drive is eleven stories, with a facade of Bedford stone. Its situation affords the tenants views over the lake and the park.

Another exceptionally fine apartment building is at 222 East Delaware place. This is a model structure where every possible convenience is supplied. Still another fine building of similar type is at 942 Lake Shore Drive. This building contains duplex apartments.

Farther to the west the Lorraine apartment hotel is to be put up at the northwest corner of North State and Goethe streets. This will cost \$2,000,000. At

Clark street and Goethe a seven-story hotel is to be put up. Edward G. Dunne and John Regan will be the proprietors.

Business Houses—A number of advertising firms are locating their offices in the newly-developed business district in the vicinity of North Michigan avenue. The Erwin & Wasey Company, advertising agents, has bought the northwest corner of Huron and St. Clair street and will put up an office building that will cost \$400,000. The property is 150 by 109 feet.

Some of the large business houses that have located in the district north of the river are: Sprague, Wardner & Co., Geo. B. Carpenter & Co., Crerar Adams & Co., McNeill & Higgins Co., Reid Murdoch & Co., W. F. Hall Printing Co., Montgomery Ward & Co., the Pugh warehouses, Pelouze buildings, Winston buildings.

The Quigley Preparatory Seminary occupies the block between Pearson and Chestnut streets, on Rush street. It is a fine example of Flemish Gothic architecture. The Fourth Presbyterian Church, which occupies the block between Chestnut and Delaware place, on North Michigan avenue, is another example of high class ecclesiastical architecture.

A Touch of Old Venice—The Study building, on Chicago avenue, near North Michigan avenue, is in the Venetian Gothic style of architecture. The interior is devoted to studios and offices. The new First Cavalry Armory, on Chicago avenue, between the waterworks and the lake, is an imposing structure of an entirely different type.

The Chicago campus of Northwestern University will be located, it is expected, on a tract of land at Chicago avenue and the lake. A campaign is well under way, the purpose of which is to raise \$25,000,000 with which to build and endow a number of professional schools. The colleges of commerce, dentistry, law and medicine are to be located at this point. The plans call for a group of buildings of a high type. A modern hospital is to be built in connection with the school of medicine. The land contains 368,000 square feet and is under option at \$1,421,211.

One of the notable attractions of the district is the Municipal Pier, at the foot of Grand avenue, which was built at a cost of \$5,000,000. The pier is 3,000 feet long and 92 feet wide. It is meant for recreation as well as commercial purposes. Street cars run to the pavilion at the end of the pier, where band concerts are given summer evenings. There is a large dance hall for the use of the public.

The North Central Association has had much to do with furthering plans for the improving and development of this district. B. M. Winston is president of this organization.

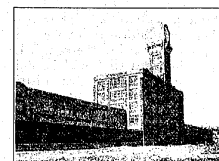
Southwest District Has Many Big Plants—New Industrial Locality is Prosperous

An industrial zone of great and steadily growing importance has been developed during the last few years in the southwest part of Chicago.

This zone contains some of Chicago's giant industries. It begins at the south branch of the Chicago river and stretches along and to the west of Western avenue.

In this district are to be found the "McCormick" and the "tractor" plants of the International Harvester Company, the new Corwith plant of the Crane Company, the Albert Dickinson Company and the Kenwood Manufacturing district, where a number of factories are grouped. Anyone who looks over this big district is certain to be impressed with the vigor and enterprise that have been shown, as well as the great size of some of the manufacturing establishments.

The district has ample rail facilities and is also within easy reach of residence neighborhoods where the homes of thousands of employees are located. Its value as a manufacturing zone has been demonstrated by the millions that have been invested there by some of the biggest manufacturing establishments in Chicago.



Crane Company's plant, the world's largest plumbing supply house

The huge \$10,000,000 Crane plant has some points of special interest, for it has developed in proportion to the growth of the city, and is a typical Chicago organization. The company has recently commemorated the sixty-fifth anniversary of its founding.

Shows Industrial Possibilities Here—The plain story of the growth of this company, as told in the anniversary records that have been published, is interesting, as it shows the possibilities of industry in Chicago. Today the company occupies a tract on Kedzie avenue, between Thirtieth and Forty-third streets, which contains 160 acres, and is one-half mile square. The buildings contain 9,701,430 square feet of working space. The company has another big plant at Bridgeport, Conn., and one at Montreal, Canada.

During the war the Crane plants were scenes of intense activity. A demand came suddenly for millions of brass, iron and steel valves of all sizes and all the resources of the big organization were thrown into the work of filling the emergency orders. Forgings, guns and mortar parts were also among the things that were manufactured in such great quantities that the government inspectors were swamped. The peace time activities of the company are devoted to the manufacture of 20,000 articles. The total space used by the company amounts to about 428 acres, or the equivalent of about 123 city blocks of average size. A fleet of 549 motor trucks is used in the distribution of the firm's products.

Employees of the Crane Company are given opportunities to buy stock for which they pay in installments. They surprised officials of the organization by taking \$7,000,000 worth of the preferred stock. It is said that there are few big concerns

which have as small a labor "turnover" as the Crane Company.

Kenwood Manufacturing District—The Kenwood Manufacturing district is a development of the rapidly increasing industrial importance of this vicinity. In this district the plants are grouped and the development is carried out along systematic lines for the benefit of all. The main part of the district is between Forty-seventh and Fifty-first streets, Kedzie and California avenues. It also extends east to Rockwell street, between Fifth street and the belt line railroad tracks. This district is crossed by two belt lines, the Indiana Harbor Belt Railway and the Chicago River & Indiana Railroad, a subsidiary of the Chicago Junction Railway. From these lines switches are laid to the various plants and in this way service is given which connects with every railroad entering Chicago. This service covers both carload and less-than-carload shipments at the Chicago rate. The Central Manufacturing district adjoins the Kenwood tracts.

Development is carried out in a uniform manner throughout the Kenwood district. The streets are well paved and the lighting system is excellent. The buildings are of the most modern type, supplying a maximum of light and air for the workers. The general appearance of the district, as far as the development has gone, suggests the model manufacturing towns that have been started at various times.

Has Excellent Labor Supply—One of the advantages possessed by this district is that it is within easy reach of the densely populated portions of the west side, where many thousands of factory workers live. The well-settled wards in the vicinity furnish a reservoir of labor of unusual size. The coming improvement and opening up of Thirtieth street will benefit this district as it will then be brought into close touch with the suburbs to the west, including Downer's Grove, LaGrange, Hinsdale, Western Springs, Clarendon Hills and Riverside, where the new zoological gardens of the Forest Preserve are to be located. Many employees now live in these suburbs and the number will be increased as soon as the means of communication are improved.

Big Firms in the District—Marshall Field & Co. have obtained a long-term lease of the southeast corner of West Forty-seventh and Whipple streets, 158 by 583 feet. According to the terms of this lease the Messrs. Phipps put up a building which Marshall Field & Co. are using for the manufacture of burlap bags for their wholesale trade.

A short distance east of the Marshall Field & Co. factory is the new building of the Union Insulating Company. The Central Lime & Cement Company is putting up a building at Whipple street and Forty-eighth place. The American Foundries Equipment Company has recently finished a building at the southwest corner of Forty-seventh street and Richmond avenue. This firm makes sand-mixing machines and other foundry supplies. The Foell Supply Company, packers of meat products in glass jars, has just purchased a site for a plant in the district. The Q. R. S. Company, manufacturers of music

rolls, which is a subsidiary of the Melville Clarke Piano Company, is at the northeast corner of Kedzie avenue and Forty-eighth place.

The Albert Dickinson Company has one of the largest plants in the southwest zone. This corporation deals in seeds, poultry and stock feeds. It has more than seventy acres at Thirty-fifth street and California avenue, near the sanitary canal. There is trackage room in the company's yards for over 350 cars and covered platforms where 100 cars can be handled at the same time.

Not far from the Dickinson holdings the Peoples Gas, Light & Coke Company is planning to put up the modern \$15,000,000 plant from which it plans to supply Chicago with gas. This plant will be between Crawford and Cicero avenues, along the sanitary canal. The Liquid Carbonic Company is near the Dickinson tract, and the Chicago Municipal shops are also nearby.

Rapid Growth in Recent Years—This district has been opened up for the public by the boulevard system which connects the parks of the west and south sides. An automobile drive over this boulevard gives an idea of the remarkable development that has been going on during the last few years. Several of the big concerns are not on the boulevard, but they can be reached easily. Only a few years ago this entire strip was open prairie, a great vacant stretch that extended from the settled parts of Chicago to the suburbs. The straggling groups of small buildings which were seen not long ago are being cemented up by the rapid growth that has gone over the former farming and pasturage districts. Notable changes have taken place in various parts of Chicago, but there is hardly a locality where the transformation has been more remarkable than in this district to the southwest.

The McCormick works of the International Harvester Company are the largest of their kind in the world. The land area covered by the works is 114.85 acres, the annual capacity being 375,000 binders, reapers, harvester threshers, mowers, rakes and corn machines. Near by are the tractor works which cover 48.60 acres and have a capacity of 30,000 tractors annually. The McCormick twine mill has a site of 3.17 acres, with an annual capacity of 60,000 tons of twine. There are 10,000 employes in these plants. It is said that a complete farm machine is turned out every thirty second in these factories. The main part of the big plant is near Blue Island and South Western avenues.

When Cyrus H. McCormick reached Chicago in 1847 and decided to locate his factory here, the city was only ten years old. Mr. McCormick formed a partnership with William B. Ogden, the first mayor of Chicago, and started the reaper business in Chicago. Not long after this Mr. McCormick bought out Mr. Ogden. The first reaper plant was on the north shore of the Chicago river, east of the Rush street bridge; it represented an investment of fully \$2,000,000 and was destroyed in the great fire of 1871.

After the fire Mr. McCormick decided to look for a new location for his plant and chose the land where the buildings now are. Continual additions to the

plants are being made. It is estimated that if the 3,536,603 square feet of floor space in the buildings were in a one-story structure such a building would be 25 feet wide and about 30 miles long. Almost all of the buildings put up by Mr. McCormick in 1875 are still standing. They are a city in themselves.

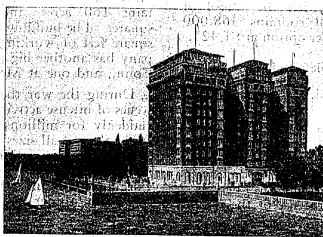
Hyde Park District Has Brilliant Future—This South Side Locality Has Made Great Strides in Progress

With the University of Chicago, a number of the city's best known hotels, a remarkable system of great parks and boulevards and a dense population in its thousands of homes and apartments, Hyde Park has established itself as one of Chicago's leading districts.

Yet, with all the progress that has been made, Hyde Park men venture the forecast that the future of their locality will be much greater. They look forward to the time when, in addition to all they have at present, they will enjoy the benefit of the proposed boulevard that will be built in the lake, and they expect their district to become one of Chicago's finest residence districts, one that will be crowded with hotels and tall apartment buildings of the finest type.

The boundaries of Hyde Park have varied at different times, but the district now bearing that name lies along the shore of Lake Michigan, extending west to Cottage Grove avenue, between Forty-seventh street and the north line of the Midway, or Fifty-ninth street.

The University of Chicago, is on the north side of the Midway Plaisance, the main group of buildings lying between Ellis and University avenues. Ultimately it is the intention to build up both sides of the Midway with fine structures that will be devoted to educational purposes. The buildings are all impressive, some of them being replicas of famous structures used by foreign universities. The architecture is in the late English Gothic style.



Sisson Hotel on Lake Michigan at 53rd Street in Hyde Park district.

University a Mecca for Visitors—The central quadrangles, which form the original site of the university, contain seventeen acres, but this has been enlarged to 100 acres. In addition, there are seventy acres at Williams Bay, where the Yerkes Observatory is located. A landscape scheme for the grounds has been laid out by Olmstead Brothers. This plan provides for preserving the native Oaks, as long as possible, but as they die out, they will be replaced with elms.

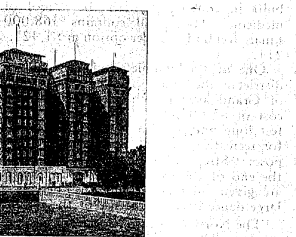
With its numerous fine buildings, and its handsome grounds the University of Chicago is one of the interesting sights for visitors. Its importance as a factor in Chicago's civic life is recognized by the residents of Hyde Park, who do their part in seeing to it that the surroundings are maintained at the proper level. The fact that almost 11,000 students attended the university during the last year indicates what a vital factor the institution is in the upbuilding of the west and what it means to Chicago.

The World's Fair put Hyde Park on the map. Prior to the fair this was entirely a residence section. It was thinly settled and little known. The fair brought a great change and there will be another similar transformation when we have the new boulevard in the lake, with the lagoon that is to be with it. The population must come this way, and the buildings must be tall in order to give adequate returns on the investment.

Advantages of the Location—The destiny of Hyde Park is based on the advantages of its location. To the north is one of the greatest business centers of the world, to the northwest is the Central Manufacturing district, to the west is the stock yards, the world's biggest meat market, while to the south lies South Chicago, Indiana Harbor, Gary and the Calumet region. To the east is Lake Michigan. All the business and industrial centers mentioned are within easy reach of Hyde Park and are connected with it by excellent transportation systems.

Its great chain of boulevards and parks makes it the trail of the automobilist. The golf links and the sixty acres of tennis courts are the playgrounds for lovers of outdoor sports.

From the hotels, such as the Windermere, Chicago Beach, Hyde Park, Cooper-Carlton, Sisson, Del Prado and Elms, can be seen the parks and the wide sweep of the lake to the east.



Finest Educational Advantages—The educational advantages of the Hyde Park district easily outrank those of any other section, owing to the presence of the University of Chicago. Passing over the purely academic features, which are so well known as to require no particular discussion on our part, it is worth while to call attention to the architectural features of the university. Other institutions have their isolated examples of architecture to which they point with pride, but, in the



Jackson Shore Apartments, South Shore Drive and 55th St. Note the expanse of open space and the beauty of the surroundings, common and typical in Chicago's residential sections.

main, the other colleges and universities of America reveal no great architectural plan, such as marks our own institution.

No other territory is better or more conveniently located for those who are in business in "the loop." The manufacturing districts all employ men who require high grade apartments and hotels in which to live, and Hyde Park is a logical center for them.

The advantages of the parks adjoining Hyde Park are known to lovers of outdoor sports not only all over Chicago but also, particularly to golfers, all over the country. The Jackson Park links are the scene of more golfing than any other public links in the world; and on any bright Saturday afternoon in summer one may wander through the sixty acres of crowded tennis courts in Washington and Jackson Parks.

Hyde Park has always been considered as representing the refinement, wealth and pure Americanism of Chicago. Its beautiful homes, high-grade apartments and family hotels with all its other conveniences, make it a desirable place in which to live.

Every progressive community needs sound and well-established banks, and Hyde Park is fortunate in being provided with strong institutions. There are no situations involving personal or business finances which cannot better be faced through the council of a sound banking institution, whether it is in investments or in the management of property.

Systematic work for the advancement of Hyde Park has been done at every opportunity by the Hyde Park Business Men's Association. This is a progressive organization made up of men who act as a unit for the benefit of their community.

Englewood District on South Side Growing Rapidly—Its Population and Business Make It an Important Center

Englewood occupies an unusual position among the various districts that make up Chicago. It seems to stand by itself

as a city of homes, with characteristics distinctly its own.

For years Englewood was known as one of Chicago's oldest and most substantial suburbs. It was noted for its fine homes, with their large shady lawns. Owing to the excellence of its transportation systems, and its location, it is considered by many that Englewood is ultimately destined to be closely built up with apartment buildings and that it will also have a retail district correspondingly developed.

The retail district is already well defined, but the fine homes, which have been admired for years, are blocking the change which would bring a much denser population. The old homes are of exceptionally good construction, with heavy foundations and they contain from eight to twelve rooms each. Large amounts of money are tied up in them and the owners do not like to sacrifice this. Moreover, these old homes are pleasant places in which to live. But the process of change has started, and the prediction is made by business leaders of Englewood that the population there will be doubled within from five to ten years.

Originally Englewood extended from 55th street to 75th and from South Park avenue to the western boundary of Chicago. From time to time new stations have been put in by railroads and Englewood has gradually been reduced in area. The old part of Englewood is east of Halsted street.

Old Residents: Handsome Homes—Old Englewood is made up of the homes of many who have lived there twenty-five or thirty years, some even longer. This locality was given an impetus at the time of the great Chicago fire, when many moved there. It is these older residents who have put up the handsome homes for which Englewood is noted. These homes occupy much ground, as almost every one of them has fifty feet, or more, of frontage.

In its Union Station at 63d and LaSalle streets, Englewood has what is said to be one of the most important railroad stations in the world. The building is insignificant, but it is claimed that this station accommodates more railroads and more through trains than any other in Chicago. More than 330 passenger trains stop here every day, 111 of these being mail trains. Twenty-two of the trains of mail are handled daily at this station, which is controlled by a number of railroads under joint ownership.

Residents of Englewood hold that, considering the volume of business transacted there, they are entitled to a station building that will be an ornament to the vicinity. This improvement is greatly desired, but there are other matters which the business men hope will also receive attention in the near future.

Great Cross-Town Street—Sixty-third street is one of the great cross-town business thoroughfares of Chicago. It has an almost continuous line of stores, business houses and theatres from Stony Island avenue to Chicago Lawn. During the war a good many of the stores in the old Englewood section were vacant, but now all the space is taken and a notable improvement has been shown recently in the

appearance of the store fronts and the show windows.

As evidence of its financial stability Englewood has eight substantial banks, with deposits of about \$23,000,000. It has more than fifty churches, some of them of large size, all the principal denominations being represented.

School Shows District's Growth—Another indication of the steady growth of this district is to be found in the Englewood High School. This school was organized in 1870 on the site of the Normal school, with Ira A. Shurtleff as principal. Two years later Mr. Shurtleff died. Whit Carter was principal from 1874 to 1886, and the school was then moved to the old building at Stewart avenue and Sixty-second street which is still standing. O. T. Bright was principal from 1886 to 1891 and he was followed by James E. Armstrong. Recently a fine new building has been put up to take care of the increased demands that has been made on the institution.

Excellent Transportation—Sixty-third street is exceptional with reference to its advantages in reaching means of transportation. It has both a surface line and the elevated. It reaches the Illinois Central on the east, passes the Englewood Union Station, and other railroad stations, and crosses several of the busiest streets. Almost all of the railroads reaching these stations maintain a suburban service.

The corner of Halsted and Sixty-third streets is a busy spot. It is expected that this vicinity will develop into a large produce center in time. Halsted street is credited with being the longest thoroughfare in Chicago and Sixty-third is also a long street. Close to this corner is the station where passengers arrive, over electric lines, from Kankakee, Blue Island, Crete, Hammond, Gary and other points. They connect at this point with the elevated system. Clearing and Argo are also within reach of the west.

Marquette Park—One of the attractions of this neighborhood is Marquette Park, which is said to be fourth in size among Chicago's parks. It is noted for its "sporty" golf course, which starts at Kedzie avenue and Sixty-seventh street. The park is being developed by degrees.

Mrs. Hetty Green, "the richest woman in the United States," is remembered by real estate men because of her habit of buying large tracts in the outlying districts of growing cities and then waiting for the city to reach her land. She paid especial attention to Chicago and owned several tracts around the city. It was her policy to oppose the cutting through of streets and she tried to block other improvements. When the city expanded far enough she would begin to consider offers to sell.

This tract was one of her holdings and it was formerly a swamp. The land centered at Sixty-third street and Western avenue, also called the Dixie Highway line. The community is new and development would be going ahead with a rush if it were not for the difficulty that attends any effort just now, to put up homes and flats for workers. The transportation service is good and there are many opportunities for employment nearby. Many who live in this vicinity are seldom seen

in the downtown district, as they deal with the outlying shops. It is expected that a number of amusement houses will be put up in this vicinity.

In spite of the fact that this is one of the newest parts of Chicago and that it is contending against drawbacks which make development difficult, the neighborhood has many inhabitants and is steadily growing.

Milwaukee Avenue District on Northwest Side Another Booming Section—This Community Experiences Unusual Growth

Remarkable for its growth in several diversified lines, the Milwaukee avenue district has kept pace with the advancement of greater Chicago. It is an interesting section of the city from many points of view.

Time was when Milwaukee was bigger than Chicago and the main thoroughfare between the two cities was named in honor of the larger place. In the early days all roads around Chicago were extremely muddy at times, and Milwaukee avenue was no exception. In order to render it passable logs were laid down, making it a corduroy or plank road. It was known for years as "the plank road."

At one time A. J. Snell obtained the right to put up a toll gate where payment had to be made by those who wished to travel over the "plank road." The toll gate was at the intersection of Milwaukee avenue, Cicero avenue and Irving Park boulevard. The Indians, who were then numerous, furnished one of the picturesque incidents in the early history of Chicago by burning this toll gate, which interfered with the free and independent movement to which they had been accustomed while roaming the prairies.

Site of Old Town Hall—The intersection of the three streets where the toll gate was located was the center of the old town of Jefferson and it was there that the old town hall was located. This building was later used for a high school. It is still standing and is now occupied by the police as the 36th precinct station. The building was put up on an acre of ground which was given to the community by John Gray. The acre was part of Mr. Gray's farm.

The corner where the old town hall is located was the point where the farms of William F. Gray, former Sheriff John Gray, Chester Dickinson and Josiah Lombard met. Three of these quarter-section farms were homesteaded by their owners in 1836 and 1837, while the fourth, the Dickinson place, was purchased from the school trustees, as it was school land, section 16.

A fine home was put up by William P. Gray at the southwest corner of Irving Park boulevard and Jefferson avenue. It was built of timber and cut on the land, the spaces being filled with adobe. This house was later moved to another part of the farm and is still standing on Addison avenue near 53d avenue. Mr. Gray then put up a brick building, hauling the bricks from Crown Point, Ind., by wagon. This building, which was the first brick structure in Jefferson township, is now stand-

ing on the south side of Irving Park boulevard, about 400 feet west of Milwaukee avenue. The Dickinson tavern, which was put up by Chester Dickinson, still stands on the west side of Milwaukee avenue, about 500 feet north of Irving Park boulevard.

Old timers used to tell of a flowing spring that formerly sent a steam across Cicero avenue, at Addison street. Teams had to ford the stream at this point, but the teamsters' loss was the small boys' gain, for a little lake was formed which was the swimming hole of sixty odd years ago.

When Real Development Began—The real development of this locality started in 1889 when Koester & Zander bought 82 acres at the southwest corner of Irving Park boulevard and Cicero avenue for \$132,000. This tract was improved and subdivided. The corner two acres are now worth more than the amount paid for the entire tract. Other subdivisions were quickly added to this and the progress was then rapid.

The Logan Square district is another example of the remarkable development that has been going on during recent years in outlying localities which, only a short time ago, could have been thought of as being parts of the residence districts of Chicago only by those who were gifted with an unusually lively imagination.

The change around Logan Square from an open prairie to a thickly settled neighborhood has gone on so steadily and quietly that it has escaped the attention of many, until they returned to a locality they remembered as a plowed field and found it closely built up with stores and high-class apartments. The development of the Logan Square district is another chapter in the history of astonishing changes that have gone on within the memory of Chicagoans, in a number of localities, and it is characteristic of the extraordinary growth of Chicago.

Advantage of Neighborhood Foresight—Being comparatively new, the Logan Square district has had the benefit of being laid out according to a definite plan, which took future needs into consideration and furnished plenty of attractive berthing spots. The opportunity for adapting the locality to coming demands, of which a reasonably accurate forecast could be made, was taken advantage of, and the undesirable features apparent in old neighborhoods which, like Topsy, "just grewed," have been avoided. The necessity for rebuilding, and a thorough overhauling, if the locality is to hold its own, need never be dreaded in a spot like the Logan Square district, where the pioneering was made easy.

A short distance northwest of the Logan Square district is Avondale, an old time suburb, but it is not possible now to find any dividing line between this community and the main part of the city, for everything is settled solidly. The Logan Square district is settled up largely by people of Scandinavian origin.

Reaches 27th Ward—Milwaukee avenue reaches Chicago's most populous ward, the 27th, which has 150,244 inhabitants. Among the wards considered

as being in the northwest district are the 14th, 15th, 16th, 27th and 28th, which were given a population of 437,616 in the latest census figures. These wards would make a large city by themselves. Today they form one of Chicago's big assets, and they are constantly growing, both in population and in importance.

Many Changes—Many years ago the lower part of the Milwaukee avenue district was occupied almost entirely by Scandinavians, then the Poles displaced them, and finally the Poles moved farther out.

It is estimated that there are 50,000 Jews on the northwest side, mainly between Division street, Western avenue and Milwaukee avenue. Portions of the district near Milwaukee avenue have become a great center for tailoring shops. It is said that there is more clothing manufactured on the northwest side than in all the rest of Chicago. The people who do this work used to do it at home, but that has been stopped. All of the work is now done in shops. Some streets are given over almost entirely to tailoring shops.

The largest retail stores that are to be found outside of the loop are along Milwaukee avenue.

Shopping District; Big Stores—The shopping district of Milwaukee avenue is around Paulina street, and to it flock buyers from all parts of the city, even from the suburbs. The number of millinery shops in this vicinity is surprising; it is doubtful if such an array of women's headgear can be found in any other part of the city. The big establishments in this locality is Wiebold's department store.

Polish Colonies are Imported—It is said that there are 150,000 citizens of Chicago of Polish descent in the district near Milwaukee avenue. The colonies where they have settled extend from Desplaines street out northwest. There is a large Polish business district near Chicago avenue, and another near Division street and Milwaukee avenue, where the Northwestern Trust & Savings Bank is located.

This bank has more than 35,000 individual customers and nearly 27,000 savings depositors, whose average savings amount to \$400. The principal Polish organizations are also in this vicinity. The Polish National Alliance, with a membership of 135,000, has its home near Division street and Milwaukee avenue, the Polish Catholic Union with a membership of 125,000 is in the same vicinity and so is the Polish Woman's Alliance, with 30,000 membership.

Five Polish daily newspapers are published in this neighborhood, their combined circulation being fully 100,000. This is practically the oldest Polish settlement in Chicago. St. Stanislaus' parish was established fifty years ago, the church being within two blocks of Milwaukee avenue. The Poles have a great many factories, stores and shops. They have retail stores that cover practically every line. They are a frugal, industrious people and have proved themselves to be loyal Americans.

Central Manufacturing District Has Forged to Front—Old Section of Southwest Side is Developing

Here is another section of Chicago that has come to the front during the past few years.

Three years ago about all that could be seen along West Thirty-ninth street, between Ashland and Western avenues, was a series of unsavory cabbage patches, with here and there a house that was usually of the shanty type. The district was known as "back of the yards" and was avoided as much as possible. Its general reputation was on a par with its appearance. The average passer-by would have volunteered the information that as a business proposition this land was about as poor a prospect as he could imagine.

Today one of the most notable groups of industrial buildings in the world stands on this site along Thirty-ninth street.

This extraordinary transformation is typical of the change that has been wrought in a locality several times in the history of Chicago, but it is one of the most remarkable of all.

Interwoven with the interesting story of this development is the record of the war activities of this district, which were on a scale of surprising magnitude. The United States government early found that it must depend upon Chicago for the bulk of its great stores of needed supplies, which had to be furnished to the fighting men, not only of our own nation, but to the soldiers of the allies and to the foreign civilians as well. Preparations for handling the needed supplies had to be made quickly and on a scale never before dreamed of. The biggest cold storage plant in the world and the huge permanent warehouses of the United States army supply depot were therefore put up in record-breaking time.

Memorial to City's Loyalty—This speedy construction work caused most of the transformation on West Thirty-ninth street. The buildings stand as sturdy memorials to the loyalty and resourcefulness of Chicagoans.

Let any Chicagoan who has not seen this district for several years take a trip through it today and he will find something to marvel over. As has happened before at other spots, this stretch of land was neglected and shunned, until some commercial leaders realized its possibilities, started a wholesale house-cleaning and then development began with a rush.

This tract is part of the Central Manufacturing district—the newest part. What has happened during the last few years in the district is intimately bound up with the industrial progress of Chicago.

How Change Was Wrought—This district was developed by the financial interests which are back of the Chicago Junction Railway Company, a belt line which serves the stock yards and packing houses. This line has direct connections with every railroad entering Chicago. Having perfected their system, officials of the Junction line sought other ways to increase their tonnage, and found what they sought by the opportunities offered for converting the great stretches of waste land into a high class industrial district.

The district is in the geographical center of Chicago, the exact central point being at the spot where West Thirty-fifth street crosses the Chicago river, between Racine avenue and Iron street. It has also been shown that 48.8 per cent of the population of Chicago resides within a four-mile radius of the Central Manufacturing district. This assures a good labor supply. Transportation facilities are adequate for those who wish to live at a greater distance and to work in the district. The district can be reached by automobile from the city hall in fifteen minutes. It is served by surface car lines and by the elevated systems. Tenants have found through experiments that deliveries of goods can be made with unusual speed.

The district has been laid out with the idea of obtaining the maximum efficiency, light and air, without lessening its general attractiveness. These points have been in the minds of those who have planned the tracks, buildings, streets and driveways. The district possesses lawns, flower gardens, boulevards, attractive buildings and healthful surroundings and is a model of its kind, both as regards the value of its industries and its pleasing features.

Has Many Attractive Features—There are a number of private streets in the district. These have been improved with cement curbs and sidewalks, granite block, brick and macadam roadways and wide grass parkways wherever possible. Sewer and water lines have been provided, together with fire hydrants. The district is lighted with electricity, the lamps being on ornamental posts. It has its own street cleaning department and its own gardeners.

The visitor to the district is at once impressed with the uniform excellence of the buildings and the other evidence that the development has been made along systematic lines. This uniformity is possible because the district has its own architectural department. In this department plans and specifications for new buildings are prepared and supervision is given during construction. The buildings are of pressed brick, or concrete, and every effort is made to have each one as practical as possible. Every building is provided with its own switch track and teaming driveways and is located so that light and air are provided on all sides. No building is placed so that it will encroach upon the light and air of another structure. Basements are provided which are high and dry. There are electric elevators and other conveniences.

It is claimed that this system makes it possible for the Central Manufacturing district to put up buildings at an unusually low cost, as materials are often bought at low cost because of the large quantities that are continually needed, and also because of the close bidding among contractors to get a share of this steady business.

Solving the Housing Problem—Careful attention is also being paid to the housing problem. Work has been started on the first hundred of a series of two-apartment buildings which are to be sold to employees at cost. Options have been obtained on 125 lots that are within easy reach of Ashland avenue and Thirty-fifth street, and more lots are to be acquired

later for the same purpose. The buildings will be purchased by a family, which will rent out the second apartment.

Purchases of these apartment homes will be made on easy terms. The buildings are being put up by the Home Building Real Estate Improvement Company. The \$125,000 stock of this company has been subscribed for by thirty-four firms and individuals in the district. The \$125,000 is to be a revolving fund. As fast as the money is paid in on the homes already sold, other buildings will be put up. About thirty per cent of the employees of the district now own their homes. Employees of the thirty-four stockholders will have first chance to purchase the new homes.

The coming improvement of Thirty-ninth street, which is to be changed into a thoroughfare connecting Lake Michigan with the forest preserves on the Desplaines river has been encouraged by officials of the Central District and will be of great benefit to the industries located there.

Will Make Great Street—Thirty-ninth street is a section line and is naturally a thoroughfare, but many years ago a slip was dug from the river, with the intention of enabling steamers to reach the packing plants at the stockyards, and this slip was dug down the center of Thirty-ninth street between Halsted street and Racine avenue. When the Sanitary canal was dug it cut across Thirty-ninth street just west of Crawford avenue. These two obstructions completely shut off traffic.

Trustees of the Sanitary district have authorized the closing of "Bubbly creek," as the part of the river on Thirty-ninth street is called. This is to be filled in and bridges and viaducts are to be provided where the Sanitary canal crosses Thirty-ninth street.

As soon as Thirty-ninth street is opened up in this way it is expected that it will become one of the busiest thoroughfares in the city, as it is the logical artery for much of the travel on the south side. A great saving of time will be brought about for employes, as many of them now have to take roundabout routes between their homes and the industrial plants. It is also the intention to widen Thirty-ninth street and to extend car lines so that every possible facility will be given for traffic.

Chicago's efforts to do its utmost during the war period have left the city some valuable bequests in the Central Manufacturing District. One of these is the United States Army supply depot, a huge institution made up of three units. These buildings are on the south side of Thirty-ninth street, between Ashland avenue and Robey street. Their cost was in the neighborhood of \$6,500,000. Their presence assures the doing of a great amount of purchasing for the government hereafter in Chicago, an item that will mean much in the future. The three buildings contain 1,890,000 square feet of permanent floor space for storing government supplies.

A short distance west of the army supply depot is the largest cold storage plant in the world, which is another reminder of the war. This is the United States Cold Storage plant, which was built for the government, but has recently been taken over by the trustees of the Central Manu-

facturing district in accordance with the terms of an agreement entered into at the time the building was put up.

The cold storage building has a total floor area of 586,000 square feet and total cubical contents of 8,600,000 feet. It represents an investment of \$3,500,000. It is estimated that the capacity is 63,000,000 pounds of refrigerator products. Railroad facilities provide for fifty cars at each setting, with car-loading equipment and all other advantages. The building has an ice-making plant with a capacity of 200 tons daily. There is storage capacity for 5,000 tons of ice.

Banks in the District.—Financial interest of the district are served largely by the Central Manufacturing District Bank, of 1112 West Thirty-fifth street. The resources of this institution at the time of the last bank call were more than \$6,000,000. The president of this bank is William N. Jarnagin.

Other banks near the district include the Live Stock National, with deposits of \$12,500,000; the Drovers National, having \$11,000,000 in deposits; the Peoples Stock Yards State Bank, with \$5,000,000.

Have Business Men's Club.—The Central Manufacturing District Club has its quarters on the two floors above the bank. The club has a membership of about 250, made up mostly of representatives of the firms in the district. Luncheons are served at noon. There is a large room where the members may meet and there are also billiard and pool tables.

The Wigley Plant.—A visitor to the district who sees the plant of William Wigley, Jr. will receive a new impression regarding the magnitude of the chewing gum business. The building that is now up is of unusual size, but it is not sufficient to house the business and other units are to be added, which will make the group one of the most notable in the district. The factory when finished will be 600 by 300 feet and will be eight stories high.

A building that will cost \$5,000,000 is to be put up by Strauss & Schram at the southwest corner of Western Avenue and Thirty-sixth street. The building will contain 1,000,000 square feet of floor space, it will be put up in three units and will be ten stories, with an ornamental tower. It will be used for the firm's mail order business.

What Is Made and Sold in the Central Manufacturing District.—More than 250 different classes of products are made in the Central Manufacturing District of Chicago. Over 400 are stored in the district for sales distribution in Chicago and tributary territory. Made and sold, the different groups total considerably more than 650.

Many district brands are household goods. Many articles of C. M. D. manufacture are in use on Main Street and on Fifth Avenue, on sale at crossroads' stores and Hudson Bay trading posts, giving service on weight and pumps and the settlements along the Niger.

There are 239 enterprises active in the Central Manufacturing District; twenty-three manufacturers and distributors of food products; seventeen iron and steel corporations, thirteen rubber firms, ten dealers in various building materials, ten paper

companies, nine electrical concerns, nine dealers and manufacturers of machinery, nine manufacturers and dealers in chemicals, seven companies selling lubricants (in many cases they manufacture these themselves), seven manufacturers and distributors of shipping containers of wood or paper, seven paint companies, six dealers in lumber, six furniture houses, five firms manufacturing and dealing in heating apparatus, five general merchandise dealers, four in the floor covering business, four tin-plate corporations, four public storage warehouses, three mail order houses, three bed companies, three fire extinguisher companies, three concerns dealing in wool, three in wall paper (one of them manufacturers in the district), three drug houses, two makers of bottle caps, two seed warehouses, two fur companies, two contractors, two architects and a miscellany of forty other industries.

Its Advantages.—The railway service given by the Chicago Junction Railway, a belt line connecting with every trunk line in Chicago and giving every industry in the district better than trunk line service at Chicago rates.

The advantageous location of the district in the geographical center of Chicago.

The physical layout of the district which has made possible advantageous location and arrangement of plants for expeditious handling of freight and for attractiveness of buildings and grounds.

The intensive and enthusiastic co-operative spirit which has been developed among the industrial concerns, resulting in a co-operative traffic bureau, in looking after shipping problems; an attractive club for daily meetings of executives; a district bank with resources of over \$6,000,000, and every convenience for the transacting of business pleasantly, expeditiously and economically.

The boundaries of the district have been extended by the taking in of large additional acreage so that all kinds of industrial concerns can be provided for. This means that the district can furnish ground at moderate prices, upon which plants requiring large floor areas in low building (in preference to the higher buildings, characteristic of the older portions of the district) can be taken care of.

At the present time the management of the district is discontinuing all building operations and discouraging the locating of industries requiring new structures on the theory that by such action the material supplies of the country can be best conserved and conditions sooner restored to normal. With the possibility of economic resumption of development activities, we believe that the future development of the district will be most rapid and on a scale approximating, if not exceeding, development which has already taken place.

The Chicago Junction Railway, which developed this district, handles, with its own power, 1,500,000 cars of freight per year, and in addition over 1,000,000 cars of freight are handled by the engines of the trunk lines having trackage rights over the Junction rails.

Under normal conditions, the less-than-carload handled on the Junction Railway has not less than twenty-six tons of less than carload freight per day.

In the central manufacturing district alone, approximately 150,000 carloads of

freight are forwarded or received annually.

The central manufacturing district, taken as a whole, can safely be ranked as one of the industrial marvels of Chicago.

Ravenswood District is Busy Center—This Old Residential Section is Forging Ahead

Ravenswood, long known simply as one of the old residence suburbs of Chicago, has developed so rapidly during recent years that it is now in a leading position among the progressive districts of the city. Smokestacks of new factories are beginning to show over the trees that surround the quiet homes, especially along the right-of-way of the Chicago & North Western Railway. Only a few years ago one would have to go several miles away from Ravenswood before anything that looked like an industrial plant could be found. Banks, stores, and apartment houses have also played their part in aiding to the rapid growth of this neighborhood.

With all the changes, Ravenswood is still residential in character. The old homes still stand and give this neighborhood characteristics that are all its own. The greater part of the growth has been in the improving of unoccupied spots, which are becoming scarce. On account of the great development, property values all over Ravenswood have practically doubled during the last fifteen years.

Ravenswood can trace its history back to 1837, when a family named Sulzer settled there on a farm that was then far out in the country. It is said that this locality is named for Raven, an old Indian chief. It became generally known by its present name when the Ravenswood Land Company was formed, in 1868. This company platted 194 acres where the Sulzer farm had been. M. Van Allen, secretary of the company, put up the first house in the Ravenswood tract, and Daniel Downing followed his example. In 1870 Mr. Downing opened a hotel known as the Sunnyside. The first school was built in 1869; at the expense of the land company. That company also built a railroad station, on condition that the Chicago & Northwestern line would stop trains there.

Suburb in the Early Days.—Old Ravenswood lay approximately between Clark and Robey Streets, Montrose and Lawrence Avenue many years. There was an old athletic field between Wilson and Lawrence Avenues, Leavitt and Lincoln Streets, where bicycle races and other contests were held. The Ravenswood Golf Club had its original grounds south of Montrose avenue, between the railroad tracks and Robey Street. Prior to its use for golf this land was farmed. The business district was on east and west Ravenswood park, covering two blocks, where there was quite an active trading center.

Ravenswood came into Chicago, as part of Lake View, about the time of the World's Fair, when the Greater Chicago movements was in full swing.

Interest in Farmer's Exchange.—The Farmers' Exchange, at Lincoln Avenue, Robey Street and Irving Park Boulevard, is an institution that is attracting attention in all parts of Chicago. It is a produce market where the farmers bring their

vegetables, chickens and eggs and sell them from their wagons to the city folks, who load down automobiles, baby buggies, children's wagons and every other type of vehicle with their purchases. Saturday sales at this market run as high as \$12-000.

The exchange was started by business men of the neighborhood in the general interest of the locality. The only one connected with the exchange who is paid anything is the market manager, who keeps the place clean and watches after the farmers' wagons. The farmers pay fifteen cents for each wagon that comes to the market. The wagons are backed up so that the purchasers, walking under an arcade, can see everything that is offered for sale. A few candy and fruit stands have been started as concessions. These help pay the operating expenses.

The management does not operate this market with the intention of making any direct profit, and according to O. B. Conklin, treasurer, a loss often appears in the accounts. The market brings thousands into the neighborhood and this benefits the business men. No peddlers are permitted to make sales at the market, everything is sold by those who have grown it. Most of the vegetables come from truck garden sections around Niles Center, although there are some farmers who own an auto truck and bring produce from their place west of Elgin. Sometimes automobiles leave the market loaded with as much as \$50 worth of produce.

Where Factories Are Located.—One of the most notable changes in Ravenswood is going on along the line of the Chicago & Northwestern Railway's right-of-way. High class factories are now occupying buildings along each side of the tracks and the number is increasing each year. At least one of these plants chose its present location as a result of a vote taken among the employees who were asked to decide where the new factory should be located. The votes showed that the majority favored Ravenswood and the directors of the corporation acted accordingly. This novel method of providing for the contentment of employees, who are able to walk to their work from their pleasant homes, is working out well. Factories are now plentiful all the way from Clybourn station to Ravenswood, about three and one-half miles.

Ravenswood was one of the first of the outlying districts to have a national bank. This is the Ravenswood National, of which Walter D. Rathje is president.

Some Big Ravenswood Plants.—The Abbott Laboratories represent one of the largest of Ravenswood's industries. The Manz Engraving Company also has a large plant. The H. G. Saal Manufacturing Company has a plant at Ravenswood and Montrose Avenues, where 600 are employed. This company supplies devices that are used in practically all talking machines. Musical bells, such as used in pipe organs and on the stage, are manufactured in large quantities by the Deagan Company. Souvenir postal cards, turned out by the Curt Teich Company are supplied to cities all over the world. The Chicago & Northwestern Railway employs 800 in its offices at Ravenswood and Lawrence Avenue. The Wahl Company has

a large manufacturing building at 1800 Roscoe Street, in which the maximum amount of light is supplied for the workmen. These are only a few of the industries which are scattered throughout this neighborhood.

An active business center has been developed in the vicinity of Lincoln Avenue and Paulina Street. It is said that there is hardly any part of the city where so many furniture stores can be found so close together. Residents of the neighborhood hold that this group surpasses the number of furniture stores along Wabash Avenue. Apartment buildings are taking place of the old residences in this vicinity, which means an increase in the density of the population.

To the west of this trading center a manufacturing district is being developed. A number of large building projects are planned in this vicinity, but these have been held up until building conditions become more settled and less expensive, a situation that prevails in many other parts of the city. A big theatre is among the plans that are being delayed.

District Has Six Banks.—A \$300,000 building is being put up by the Citizens' State Bank of Chicago on Lincoln Avenue at the corner of Melrose. The Second Citizens' State Bank, a branch of this institution, was opened a month ago in Bowmanville, farther out on Lincoln Avenue. There are six banks within easy reach of this locality and all are doing well. Their total deposits are in the vicinity of \$20,000,000.

Another manufacturing district, which is also on the line of the Chicago & Northwestern Railway, is farther south, at Deering. Not far from the Fullerton-South-part State Savings Bank, of which Walter J. Raymer is president, are concerns which have 15,000 employees. The big agricultural implement plant at Deering is the largest of these. This locality is known for its colonies of citizens of foreign birth, among them being Polish, Roumanian, Serbian, German and Italian settlements. These people find profitable employment at the large industrial plants. They make a practice of sending a large part of their savings back to their home countries.

Plans for Improvement.—Ravenswood people, as well as the residents of other districts to the north, are greatly interested in the plans for improvements along north channel of the Chicago River to the point where the canal reaches Lake Michigan at Wilmette. Trees are to be planted and parkways are to be laid out along the channel. Streets are to be paved on each side of the waterway, which will make an ideal drive for pleasure vehicles. It is expected that this boulevard drive will be one of Chicago's noted attractions. It is thought that this improvement is practically assured.

Land values are reported to be advancing rapidly in the vicinity of the new drive. It is argued in behalf of this locality that there has been a great extension of population to the north during the last few years. The Western Avenue car line has been extended to Devon Avenue and the Lincoln Avenue line has also been run farther out. These changes are bringing benefits to parts of Ravenswood. Restrictions similar to those which are to be

come city-wide under the zoning system have been put into force voluntarily by the owners of land and these have proved beneficial.

In Ravenswood, proper, restrictions are so carefully observed that even some of the factories have been forced to observe them and have had to place their buildings far back from the walks. All through this district the community spirit is strongly developed and all work for the common welfare.

The proposed cutting through of Ogden Avenue will, it is expected, have considerable influence in some of the districts bordering Ravenswood to the south. The North Avenue State Bank is in one of the districts which will be immediately affected by this improvement. This locality now has a number of retail stores of large size and is also becoming an important industrial center, as several large factories are in operation there. The North Avenue Business Men's Association is one of the organizations that is active in behalf of the interest of this neighborhood.

West North Ave. District Has Many Industries—Has Furniture Center and is Growing Rapidly

A visit to West North Avenue today will be an eye-opener for those who are not familiar with what has gone on there recently. One thing that will be revealed is that new centers around this street. Another thing that the visitor will find out is that although building operations have been checked all over the city, fully 500 new homes have been constructed in one of the West North Avenue districts, and if a somewhat larger area is included this number can be swelled to 1,000. The builders in this district have established a remarkable record.

Lastly, he will realize that he has found a shopping center where some surprisingly attractive propositions are offered. To mention only one line of the wealth of goods offered at retail, the visitor will find that he can buy furniture of any grade desired, either for cash or on installments, and at prices that are alluring. One who will have difficulty realizing that he is in what he thought was one of the "outlying" stores.

Any one who wished to see these things for himself can do so easily by taking the Humboldt branch of the Metropolitan elevated and getting off at say, Western Avenue. It is a quick easy trip, probably not more than twenty minutes from the loop transfer station, for West North Avenue, is not as far away as one might think.

Any one who studies the various districts of Chicago at first hand will soon learn what a great advantage organized effort is to any locality. There are at least three such bodies of active workers, along West North Avenue who strive unitedly for the benefit of the community. These bodies are the West North Avenue Business Men's Association, the West End North Avenue Booster's Association and the North Austin District Community League. The last mentioned association works in the North Austin district.

Concerted effort on the part of active far-sighted men has given a street that is 100 feet wide, a real business thorough-

fare, teeming with activity, where merchants and patrons find conditions to their liking. The "Chicago beautiful" electric light posts, made according to the design approved by the Chicago Plan Commission, have been installed by the business men at their own expense, with the result that the street is attractive and busy at night as well as by day.

Booster's Association—The West End North Avenue Boosters' Association is about eight years old. This organization operates in the parts of North Avenue between Kostner and Ridgeway Avenue. It has 100 members. According to Charles E. Scheubert, secretary, the organization is anxious to see the tracks of the elevated extended west from the present terminus of the line.

One of the most remarkable of the North Avenue Districts lies west of Laramie Avenue, where it is claimed more than 500 new homes, mostly bungalows, have been built during the last year. Fully 500 new families have moved into this district since March 1. During their moving operations there was a steady stream of vans along North Avenue, that suggested a caravan. This locality is known as North Austin and it is seven miles from Street Street. Quite a number of the newcomers work downtown, while others are employed in the factories to the east. The bungalows sell for \$8,000 to \$10,000.

In spite of the unusual activity shown by the builders there is not one of the finished bungalows that is unsold. Most of the change has taken place in this district during the last year and a half. Thirty foot lots in this locality are now selling for \$1,000 to \$1,500. Five or six years ago these lots could have been bought for \$250. Albert F. Keeney plans to put up a large store and office building at North and Laramie Avenue as soon as building conditions are more satisfactory. In the meantime other home building operations are going ahead steadily.

Interests in this district are served by the North Avenue Community League whose members are more than 250 home owners. One purpose of this organization is to see to it that everyone becomes acquainted with his neighbors. The members act together for the general benefit of their neighborhood.

South Chicago is Center for Industries—Its Advantages Transform It Into Great Industrial Center

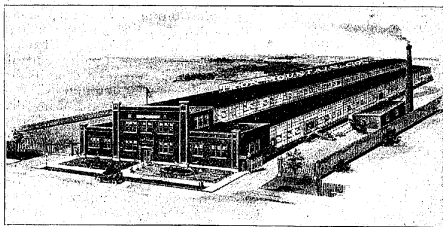
One of the chief reasons for the industrial greatness of Chicago is to be found in the Calumet region, of which South Chicago is the center. Many of the big industries that have made the Chicago district a formidable factor in the nation's business are on the banks of the Calumet River, a stream which now bears nine-tenths of the lake borne commerce that comes into Chicago.

Enthusiastic South Chicagoans contend that the location of the main part of the city at the mouth of the Chicago River, instead of the Calumet, was all a mistake in the first place, that it was due to some trifle that deflected travel during the early days. Fort Dearborn, it is argued, might have been easier to defend, and its strategic position would have been stronger, if it had been placed at the mouth of the Calumet—and it would have been put

there, the "might-have-beens" urge, had it not been that one of the officers sent out on a preliminary trip, became greatly interested in the daughter of an employe of the American Fur Company, whose home was a few miles farther north. Upon such trifles, they aver, have the destinies of nations hung in the balance ever since the days of Adam and Eve, if traditions are to be believed. But Fort Dearborn was built at the mouth of the Chicago River, not on the Calumet, and around it the early settlers began to build their homes.

South Chicago's claims for priority are supported by geologists, who tell us there was a time when the Calumet region was the connecting link between the Great Lakes and the Mississippi River. At that time the drainage from Lake Michigan followed the Sag Route, flowing south down the Mississippi River to the Gulf of Mexico, instead of down the St. Lawrence to the Atlantic.

Chicago's Two Rivers—Of the two rivers which Chicago possesses, the Calumet has been found to be better adapted for big craft and heavy traffic. The Calumet is one of the great assets of the South Chicago region. The great industries which have been attracted by the favorable com-



The Iron Mountain Company's Plant. The home of "NoKoi" automatic oil burning heaters.

ination of water and rail facilities, form another big asset.

The separation between Chicago, and part of the Calumet district is merely a political division, for it is crossed by the Illinois-Indiana State Line, but it is in reality all one district. The district also includes Hammond, Whiting, East Chicago and Gary. Broadly speaking, the district known as Chicago extends from Waukegan on the north, to Michigan City.

The industrial development is extending steadily eastward along the lake shore, as well as inland. One feature of the wonderful development around South Chicago that will disturb many lovers of nature is that the days of the sand dunes, as they are now known, appear to be numbered. Every year the great industries have spread farther east along the shore at the head of Lake Michigan, and have disturbed the solitude, quiet and beauty for which this locality has been noted. Now it is rumored that one of the next big developments will take place at Miller's, the little station to which thousands of nature lovers travel when they wish to enjoy a quiet holiday among the famous dunes. Birds and vegetation will vanish quickly if new furnaces are started at this spot.

The Calumet region now contains a total of 450 industrial plants, some of them of great size, and the number of industrial establishments is growing steadily. The great industrial plants have acted like magnets in attracting the smaller ones, which find it profitable to be near the source of supply for their materials. Both the large and small plants favor this region because of its exceptional transportation facilities.

Some of the Big Plants—The biggest plant in South Chicago is that of the Illinois Steel Company, known as the South Works of the Illinois Steel Corporation, which employs about 12,000 men.

Other large plants are those of the Iroquois Iron Company, part of the Steel and Tube Company of America; the By-Products Coke Corporation; the Wisconsin Steel Company, of the International Harvester Company; the Federal Furnace Company, of the By-Products Coke Corporation; the Inter-State Iron and Steel Company; the Riverside Iron Company; the Chicago Ship-Building Company; the Carbo-Hydrogen Company; the Armour Grain Elevators; the General Chemical Company of America; the Great Lakes Dredge & Dock Company, which originated at South Chicago; the Ameri-

well as for the industries, and made liberal subscriptions for Liberty bonds and in aiding the Red Cross and other campaigns. "We are proud of our record, we had no slackers," is a saying among South Chicagoans. During the war the Calumet region proved itself a worthy rival of the German plants at Essen, and in peace times it is much greater.

The chief center of the coke industry is the plant of the By-Products Coke Corporation, at 112th Street and Torrence Avenue. This plant turns out more than 1,000,000 tons of coke annually. Steamers bringing the coal unload at the company's slip on the Calumet River.

At 112th Street and the Calumet River is located the biggest grain elevator in the world. This is the Calumet terminal elevator of the Chicago & Northwestern Railway, which is operated by the Armour Grain Company. This elevator has concrete storage bins, which have a capacity of 6,000,000 bushels. It is said that the elevator will be enlarged. Twenty-four cars can be unloaded at once at this elevator.

Shipbuilding Activities—Shipbuilding in the Calumet region received a great stimulus during the war. A few years ago the yards had been changed to repair plants in this district, as it appeared that there were about as many ships on the lakes as were needed. When the call for more ships came, the Chicago Shipbuilding Company was among the first to answer. Close to 3,000 men were set to work and after that launchings were frequent.

Swamps formerly occupied much of the region around South Chicago and ice used to be put up there in large quantities. Large areas of these swamps were filled in with refuse from the steel mills, the slag which the millmen were glad to get rid of. They would be less generous today, for this slag has become the basis of a great industry, that of making cement. The Universal Portland Cement Company is one of the large producers of the Calumet region. Rail and water transportation facilities must be at hand if the cement industry is to prosper, and these are found in this locality, with the added advantage that the needed materials are close at hand.

The Armour Technical Institute, which is to be built on 79th Street, between Colfax and Yates Avenues, is to be organized for the purpose of turning out trained workers for the big industrial plants of the Calumet region. The site has cost \$1,000,000 and it is the intention to expend \$25,000,000 on the school, which will place it in the front rank among institutions of its kind. This district also has the Bowen High School, the Bradwell, Bryn Mawr, Gallist, Marsh, Sheridan, South Ender, Sullivan, Taylor, Throop and Warren public schools. These schools have close to 14,000 pupils. In addition there are a number of parochial schools. There are numerous churches and some residence districts of high class.

Advantages of District—Building of the Great Lakes-St. Lawrence waterway, which will make it possible for ocean-going steamers to come into the lakes, is expected to add greatly to the prestige of the Calumet region.

The advantages of the Calumet may be summed up as follows:

- Northern terminal of the Lakes to Gulf deep waterway.
- Terminal of the Erie-Michigan canal.
- Headquarters for lake and rail shipping and transfers.
- Commercial and industrial harbor site for the great middle-west.
- Foremost port of all the Great Lakes.
- Center for the greatest manufacturing district in the world.

George H. Tripp, formerly chairman of the Harbor Committee of the Chicago Association of Commerce, is given much of the credit for the development work planned in the Calumet district. Mr. Tripp prevented the loss of the money for turning basin No. 3 in the Calumet River and induced the projectors of the Erie-Michigan canal to change their terminal from Michigan City to the Calumet River.

Lake Calumet has been taken over by the City of Chicago for use as a municipal industrial harbor. Efforts are being made to secure the necessary riparian rights so that the work may proceed. Lake Calumet is near Pullman. It is the intention to make this lake the central point for all shipping, coming either through canals or down the Great Lakes. An outer harbor, in Lake Michigan, is also under discussion.

River men claim that there is but one thing now that troubles them seriously, and that is a rock ledge that shallows the river between 112th and 115th Streets. Bids have been submitted for removing this obstruction, but the bids were thrown out by government officials on the ground that they were too high. Efforts are being made to have the work done so that there will be no damage to deep draft ships at this point.

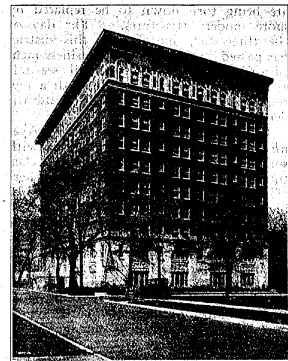
Wilson-Broadway District Now Big City—Wonderful Development Shown in North Shore Neighborhood

There is one district on the north shore which has had a remarkable growth. This is the Broadway-Wilson Avenue section which today is a veritable little Chicago.

For a city to pass from the pioneer stage to full development in less than twenty years is a remarkable feat. Yet this has been accomplished, and almost without notice, on the North Shore. The old adage that Rome was not built in a day is still true, if taken literally, but it needs some revising, for during the time when an established old world metropolis had its "day" many a city could be built in America. Twenty years was nothing in the history of a city—centuries were often required to put up single buildings, such as a big cathedral.

Twenty years sufficed for the development of the Wilson Avenue-Broadway district from tree covered country, with a few cabbage patches, to one of the wealthiest and most densely populated neighborhoods in Chicago. The locality mentioned extends from Irving Park Boulevard north to Devon Avenue and from the lake to Clark Street. It is also known as the north shore district.

Detailed census figures, which would show exactly the population of this district by blocks are not yet available, but



Sovereign Apartments, Granville and Kenmore Avenues, one of Chicago's pretentious family apartment buildings.

it is known that the 25th ward now has 122,731 inhabitants. The district indicated includes the largest part of this ward and it is there that most of the phenomenal growth has taken place. The two aldermen from this ward represent more voters than do the two United States senators from the state of Nevada.

As it is necessary, in speaking of population, to speak of the entire ward, it is interesting to note what the official figures disclose. In 1910, during the period when this district was developing, the population of Des Moines was 104,012; Nashville 118,136; Padua 105,135; Reims 115,178; Salt Lake City 121,623; Rouen 124,987; Toulon 104,582; Wiesbaden 109,002. The 25th ward quickly put itself in a class with these well-known cities. The speed and solidity of this growth will furnish material for those who wish to speculate regarding the future of Chicago—for the twenty-fifth is not Chicago's largest ward.

In 1910 the population of the state of Nevada was 81,875, and of Wyoming 145,965. The Twenty-fifth ward has a larger population than Spokane or Duluth had ten years ago. It is a large as Ogden, Utah; Kankakee, Evanston and Bloomington put together. It has twice the 1910 population of Gary, Ind.; Cedar Rapids, Ia., and Springfield, Ill., and three times that of Aurora, Rock Island and Joliet. It is so much larger than Sacramento, Cal., was in 1910 that the population given for Davenport, Ia., at that time could be added, with room to spare.

Started By The "L" Terminal—The Wilson Avenue District, proper, was opened up by the Northwestern Elevated which began to carry passengers in 1900 to Wilson Avenue, then the terminal of the line. There were a few attractive homes in Sheridan Park and a few in Edgewater, but they were the residences of those who sought seclusion.

Further changes are looked for in this neighborhood, which is now thickly built up. The principal change that is going on is that buildings that were well adapted to their purposes ten or twelve years ago

are being torn down to be replaced by more modern structures. "The day of the three-story building in this district has passed," said one of the business men. "From this time on you will see tall apartments, or hotels go up, with a few residences. The changes will increase the density of the population."

In its general character the Wilson Avenue-Broadway District is residential, with some of its streets devoted to high class shops, business houses and banks. There are no manufacturing plants here. The high-grade shops are on Wilson Avenue, Broadway, and on Sheridan Road. Some of the optimists of the neighborhood hold that Sheridan Road at Wilson Avenue is destined to become like the Fifth Avenue and Broadway district of New York. This locality has a big general merchandise store and a number of theatres, one of which puts on movie shows that remain for one week without change.

number of high class apartment buildings.

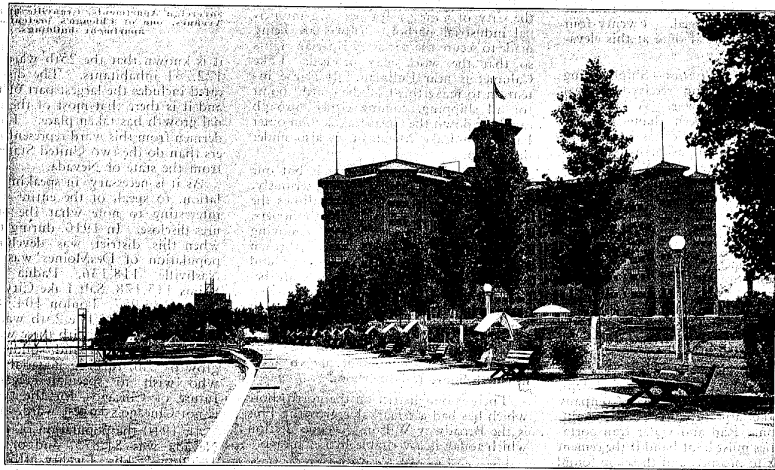
Among the shifts that are being made is that Sheridan Road, from Montrose to Argyle, is developing into a high class business section. An automobile row has started on Broadway, north of Lawrence Avenue, where an excellent sales center for automobiles is being developed. A number of insurance companies have transferred their offices from the loop to this district.

A Popular Recreation Spot—During recent years this district has developed into one of Chicago's chief recreation spots. At night the streets are brilliantly lighted and there are many restaurants and places of amusement that are thronged. The lake shore is sandy and attractive through this district and there are some well known bathing beaches. The municipality has provided Clarendon Beach for the public, and there is also the Wilson Beach, which is private. The Marigold and the Green

While other cities are trying to develop a plan, or zoning system, which will permit the further growth of industries to proceed in a healthful manner, Chicago has such a system in full working order, and is ready to offer ample facilities to new industries.

Chicago's greatest opportunities for further industrial expansion are undoubtedly to be found in the zone that encircles the city to the west and south, running also far to the north. The framework is being laid by far-sighted men for development that will greatly increase the volume of Chicago's business. Industrial establishments are coming to Chicago in large numbers, in fact, the influx is becoming greater every year.

About the Burnside District—In previous articles of this series the industrial localities to the west and south have been described, including South Chicago and portions of the Calumet region, where



Edgewater Beach Hotel on Lake Michigan. This view forcibly illustrates the merit and advantages of Chicago as a summer resort city.

Sheridan Road Great Street—Sheridan Road, where it passes through the Wilson Avenue District, is one of the high class thoroughfares of the city. This road was constructed before the coming of the elevated and played its part in aiding the development of this neighborhood. During recent years it has been much favored by automobilists and presents a busy scene at all times. There are times when the machines appear to be as numerous along Sheridan Road as they are on Michigan Boulevard. Hundreds of high class apartments have been put up on Sheridan Road, where land values are stable and high.

Among the noted hotels in this district are the Edgewater Beach, of which one unit has been built and more are to be put up from time to time; the Sheridan Plaza, the Somerset, the Clarendon Beach, the Melbourne, Blackwood, Grassmore, Eastwood Beach apartments, and the Plymouth Inn. In addition, there is a great

Mill gardens are also among the attractions. The bus lines, which run via Sheridan Road, furnish an attractive trip for sightseers.

Burnside Has Become Great Industrial Center—Good Labor Supply One of the Features of This District

The great value to Chicago of the ring of big industrial establishments that is beginning to encircle the city can hardly be over-estimated, when future growth and expansion are taken into consideration.

Chicago's industrial growth has been wonderful, but one of the most remarkable features of the steady expansion has been its adaptability to changing conditions. Up to a certain point the old plan of centralizing industries worked well, but this method is no longer being followed. It has been established in several cities that their industrial growth has reached the point of congestion at certain spots.

the admirable rail and water transportation facilities and the unusual labor supply have attracted a large number of big industrial plants. Between South Chicago and the broad zone to the west, lies the Burnside district, which is a part of a large territory that possesses many advantages and where development is just beginning on a heavy scale.

As regards development, Burnside may be considered as part of the splendid stretch from Grand Crossing to Riverdale, including Pullman, Kensington, West Pullman, Roseland and the coming residential section called the "Greater Chicago" sub-division.

A tract of 154 acres on the east side of Cottage Grove Avenue, south of 95th Street has been bought from the trustees of the Pullman Land Association by John S. Phipps, Henry C. Phipps and Howard Phipps, of New York, who will develop it as the Burnside Industrial District. There is already intense industrial activity in

this vicinity. Just across the Illinois Central railway tracks are the Burnside car shops. The tract is north of the steel car shops of the Pullman Company, and north also of the plant built by the Packard Auto Openbody Company at a cost of \$2,500,000. The Packard Plant is owned by the Pullman Company. Other plants nearby include the American Brake Shoe and Foundry Company, the Iron Mountain Company and the O'Malley-Bear Valve Company. A \$300,000 plant is being finished by the Federal Sign Company and another plant, also costing \$300,000, is being built by the Walker Vehicle Company.

The Doehler Die Casting Company has built its western plant at Burnside. Its president, H. H. Doehler, is the creator of the die casting industry. His eastern plants have an output of \$10,000,000 annually.

Ample Power Is Assured—The Calumet power house built by the Commonwealth Edison Company at 101st Street and the Calumet River, furnishes an excellent illustration of the rapidity of growth among the industries of this region. This plant will supply the steel industries of South Chicago and in addition will supply power for new plants. The first unit of the power plant, now under construction, will cost between \$7,000,000 and \$8,000,000. It will contain turbo-generators of the latest type and will be finished in about twelve months. The ultimate capacity of this plant will be 180,000 kilowatts or 270,000 horse power, which will be distributed among plants south of 63d Street, and to other parts of the city, when needed. The central station of the Commonwealth Edison Company now supplies more than 500,000 kilowatts to Chicago industrial establishments and burns more than 2,000,000 tons of coal a year. It is claimed that if the plants thus supplied developed their own power they would burn from four to six times this amount of coal.

The biggest industrial plant in this region is that of the Pullman Palace Car Company at the town of Pullman. This plant covers 400 acres upon which there are more than 100 buildings. About 8,000 men are now employed at Pullman, although this number has been run up as high as 12,000.

During the war the government was slow in calling the industrial resources of the west into action. The Pullman Company was one of the organizations that offered the use of its plant for war purposes. After the offer was accepted the Pullman Company turned out the following for war uses: 1,000 low side gondola cars, 1,000 high side gondolas, 2,400 box cars with cabs, 700 flat cars, 600 box cars with two doors each, 900 box cars with cabs and with two doors each, 2,000 all-steel hopper cars, 6,000 single sheathed box cars, 500 overseas cars, 300,000-155 mm shell, 250 loading platforms for Howitzer carriages, 1,000 spare wheel fastenings, 1,551 fluid chests. The big plant had only fairly got started on war work when the armistice was signed.

Some Interesting Figures—The investment of the Pullman Company in car lines amounts to \$1,856,708, represent-

ing 6,957,714 separate pieces, the annual loss of towels amounts to \$70,000. In one year 5,819,565 paper bags for women's hats were provided at a cost of \$14,549. Two million boxes of matches were used up during the same period and nearly \$80,000 worth of drinking cups. The soap bill for one year is \$60,000, while \$20,000 is paid out for hair brushes. The Pullman Company is the largest employer of colored labor in the world, as it has an army of nearly 8,000 porters, traveling on its cars. Colored labor is not used at the Pullman plant to any extent.

The Burnside district has exceptional rail facilities, and switch tracks serve each plant. A number of heavy shippers are already located in this district. These firms send out both carload and less-than-carload shipments in large quantities. The labor supply is good in this region, as has been proved at Pullman and in the other large plants in the vicinity. As many workers are showing a desire to own their homes and to have their residences within walking distance of their places of employment, if possible, plans have been started for supplying their wants. The first move in this direction was made years ago by Mr. Pullman, who started the town that has been named after him.

The sub-division known as "Greater Chicago" has been opened by Frederick H. Bartlett to the west and south of the Burnside district. It contains 5,000 acres and is practically all sold. The sub-division runs from Indiana Avenue to the Illinois Central right-of-way, and from 99th Street to 109th Street. The transportation facilities include the State Street, 103d Street, and Cottage Grove Avenue cars and the Illinois Central railroad. By express train Burnside is only 28 minutes from the loop. The fare is a fraction above nine cents a ride by commutation tickets.

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Will Have Hundreds of Homes—Twenty-four modern apartment buildings have been put up in the Greater Chicago sub-division and preparations are under way for putting up hundreds of homes. This sub-division is one of the biggest that has been opened in the vicinity of Chicago during recent years. All the restrictions customary in a high class residential district have been put into effect. The sub-division is crossed by South Park Avenue, the new boulevard which will be finished as soon as the sewer is in

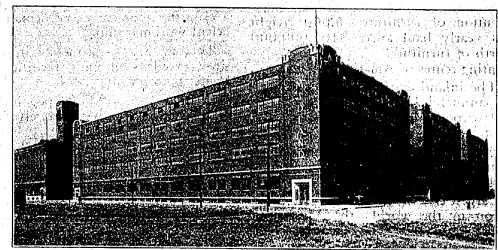
place. Gas, water and all city improvements are at the disposal of the residents. In fact the subdivision has been called a modern city within the city of Chicago.

Chicago Has Great System of Public Warehouses—Forty Warehousing Concerns in the City of Chicago

The Chicago Market is an alluring one for manufacturers the country over. One-sixth of the population of the country, and what is estimated to be one-fifth of its buying power are located in the states that are ordinarily known as the Great Central Market and that are served by nationally-known distributors from their Chicago sales offices. To cater to the consuming needs of 18 million people, as well as properly to perform its function as the rail traffic pivot for the movement of merchandise between the coasts, Chicago has had to develop a system of general merchandise ("public") warehouses far exceeding that of any other inland city.

Forty Warehousing Concerns—Forty different warehousing concerns, operating four million square feet of floor space, are scattered at strategic locations throughout the city; and they receive, store and re-ship the varied products that these 18 millions of people require for their daily sustenance and convenience. Practically all of these warehouses are located on the tracks of one or more of the more than two score rail carriers coming into Chicago, and cars arriving via any railroad are placed on their sidings without switching expense. Some of these establishments have dockage facilities for receiving cars goes from lake vessels. Most of these warehouses operate buildings that represent the most up-to-date ideas in warehouse construction and that enable manufacturers to procure very low fire insurance rates on the commodities they store here.

Aid Out-of-Town Manufacturers—These public warehouses are particularly designed to provide facilities that will permit out-of-town manufacturers to maintain stocks of their products here with the greatest convenience and at a minimum expense. In most instances, it is unnecessary for a distributor whose factories are at a distance to establish a branch warehouse with the investment required for rental or ownership, and the overhead for its maintenance in the way of salaries, equipment, workmen's compensation insurance, light, heat, power, watch service, etc. At a substantial sav-



Midland Warehouse & Transfer Co., 15th Place and Western Avenue. This company has three plants in Chicago with a combined floor space area of 1,000,000 square feet.

ing of such expense, he can place his stocks in a public warehouse, where he pays only for the space used for their storage and only for the work done in performing the various services he will require in connection with their distribution.

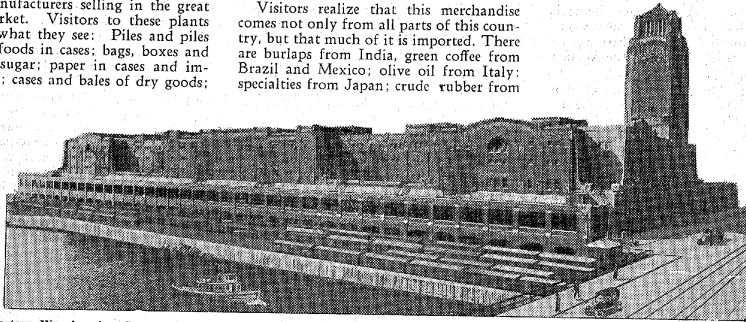
Immense Stores of Merchandise—The volume and variety of the merchandise stored is indicative of the extensive use to which Chicago public warehouses are put by manufacturers selling in the great central market. Visitors to these plants marvel at what they see: Piles and piles of canned foods in cases; bags, boxes and barrels of sugar; paper in cases and immense rolls; cases and bales of dry goods;

ingots and crates of metals; barrels of dry chemicals; stoves and furnaces; bags of feed, beans, nuts, and what not. They recognize familiar names and brands in some instances; dried fruits advertised on the billboard; soap powder featured on the back covers of the big weeklies; break-fast foods that are household words; chocolate preparations on display everywhere; automobiles of well-known makes awaiting deliveries.

Visitors realize that this merchandise comes not only from all parts of this country, but that much of it is imported. There are burlaps from India, green coffee from Brazil and Mexico; olive oil from Italy; specialties from Japan; crude rubber from

along the Amazon; even raw sugars from Java and the Philippines. The operations of a Chicago public warehouse constitute a cross-section of the world's commerce.

The public warehouses of this city are bonded and are under license by the State of Illinois properly to perform their obligations to the public as depositories for merchandise and as public-service institutions.



Western Warehousing Company's big downtown warehouse, the largest public warehousing unit west of the Atlantic seaboard

What Is Chicago Today?

In summing up Chicago's leadership and points of superiority over other large cities you find that this city has a startling and lengthy list of "high points" which are making it known throughout the world.

Summed up in a few words we find that

Chicago is the third largest city in the world.

Financial center of the west.

Acclaimed to be the healthiest city in the world.

Distributing center of the United States.

Principal center of the meat packing industry.

World's greatest livestock, grain and lumber market.

First in the wholesale distribution of dry goods and general merchandise—annual dry goods distribution, \$600,000,000.

First in the manufacture and distribution of furniture—6,000 freight cars yearly haul away \$102,000,000 worth of furniture.

Printing center of America.

The inland export center of America—annual inland imports, \$32,755,419; exports, \$70,932,864.

First in the distribution of food-stuffs, machinery, jewelry, musical instruments, wearing apparel, automobiles and household articles.

Largest city in the greatest producing region in the world—the Mississippi Valley.

Convention City of America.

Chicago is the focus of the country's primary facilities for industrial development in raw materials, transportation, power, labor, factory sites and market.

Raw Materials—Unlimited coal, iron ore and copper supplies; world's greatest grain and lumber market; leading distributor of wool, hides and meats.

Transportation—World's greatest railroad center; greatest inland port; equitable shipping rates.

Power—Cheap coal; cheapest electricity; favorable fuel service and rates.

Labor—Central labor clearing house, a class of labor for every demand; efficient workmanship.

Factory Sites—Attractive industrial sites; excellent shipping facilities; best home environment.

Market—50,000,000 people with high buying power within twelve hour's ride.

Chicago has a population of 2,701,212.

An earning power of \$1,000,000,000 a year.

30,000 factories with an annual output of \$6,500,000,000.

A wholesale trade estimated at \$6,500,000,000.

192,000 visitors daily.

A public school system with 8,000 teachers, 305 schools, 350,000 pupils, 20 high schools, and a normal school.

Thirty libraries with 2,400,000 books.

The largest art school, the largest conservatory, and the largest number of institutions in the world, per capita, for higher education.

An area of 201 square miles.

Twenty-two miles of lake front within the city limits; 1400 miles of belt railroads.

The largest postal business in the world.

Thirty daily publications, 65 weekly and monthly, and 500 trade journals.

The first skyscraper in America and the first serial commercial express.

A hotel capacity of 100,000 daily. Park area of 5,000 acres; 14 large parks, 193 small parks and playgrounds, 12 bathing beaches.

\$5,000,000 recreation pier—unique and unequalled in its pastime offerings.

CHAPTER FOUR

CHICAGO'S ACTIVITIES IN THE FIELDS OF RELIGION, EDUCATION, PHILANTHROPY AND CULTURE

No other city in the country can compare with Chicago in number and quality of its educational institutions. It is the center of culture for the United States and has more high class schools than any other community in the country or possibly in the world.

The most authoritative source for information to back up this statement of Chicago's leadership is the report of the Commissioner of Education. According to this report there is no question of the place that Chicago occupies as an educational center.

In this report, Chicago, (with Evanston included), is listed as having six colleges or universities, nine theological schools, eight law schools, six medical schools, and two collegiate schools for business. This is a total of thirty-six institutions of higher learning of the seven types here mentioned. Chicago's next competitor is New York City with thirty-four institutions of higher learning of these types; the third is Boston with twenty-five; the fourth is Philadelphia with twenty-four. It is, of course true that the

mere number of institutions is not conclusive as to educational eminence. One high grade institution is of more value to a city than a score of inferior institutions. However, there is every reason to judge that the thirty-six institutions of Chicago are individually quite the equal of the thirty-four of New York, the twenty-five of Boston, or the twenty-four of Philadelphia.

Adequate information is not at hand as to the number of students attending the more inferior of these institutions in the various cities. However, sufficient facts are at hand to enable the impartial judge to decide which city is the center of higher learning in America.

The Medical Schools—The American Medical Association has classified all the medical schools of America into three classes; into the A class, the B class and the C class medical schools. According to this very authoritative classification, Chicago, New York and Philadelphia each has four A class medical schools; Boston and Washington each has three; but Chicago has more students attending A class

medical schools than any other city. Chicago is the center of medical education of America.

The Dental Educational Council of America classified all the dental schools of America into the A class, the B class and the C class dental schools. All three of the dental schools in Chicago were classed as A grade, but none of the dental schools of New York was classed as A grade. During the past, fifteen of the best dental schools in America raised their entrance requirements so that these fifteen are in a class quite superior to all other dental schools. Two of these fifteen superior dental schools are in Chicago.

The Law Schools—The Association of American Law Schools established certain standards that must be attained by all law schools admitted to entrance. Of the 140 law schools in the United States 49 have qualified for admission. Of these 49, two are in Chicago and one in New York. The requirements in that New York law school are three years college study for entrance and three years resident study for graduation, a total of six. The standard



A remarkable air view of the buildings and grounds of North Western University, Evanston. Lake Michigan is in the background.

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requirements for one of the law schools in Chicago are three year college study for entrance and four years resident study for graduation. This is the highest requirement of any law school in the United States for students who have completed as much as three years of college.

Schools of Business—The American Association of Collegiate Schools of Business has established certain standards that must be met by all schools offering professional training for business, which seek admission to the Association. There are sixteen schools of business, of university grade, which have qualified for admission. Of these sixteen two are in New York and two are in Chicago. No other city possesses more than one such institution. The largest school of commerce in America offering full time day instruction leading to a full four years undergraduate degree, full time graduate work, leading to a graduate degree, as well as part time and evening courses in business and commerce, is located in Chicago.

Education for Engineers—There is more engineering in progress within fifty miles of the loop district of Chicago than in any area of the same size anywhere in the United States, with the possible exception of New York city. This is an unsurpassed opportunity for the students of engineering in local institutions to get in touch with engineering practice and to meet engineers. To date, however, the possibilities of Chicago as a center for engineering education have been but partially developed. The deans of fourteen of the best and strongest colleges of engineering in the Midwest, between the Rockies and the Alleghenies, met in Chicago in May, 1922, to consider what improvements should be made in engineering education to meet the enormous responsibilities of the engineering profession. The resolution which they passed unanimously as the sole outcome of the conference defines the curriculum and method of an engineering education, which in their opinion will best meet the demands of the future. Chicago takes pride in the fact that a college of engineering within her bounds has been giving for thirteen years precisely the engineering education which is defined in this resolution as the best for the future. This college is the only one in the Midwest that has been doing so up to date.

There is no universally accepted standard for classifying the universities of America. Various attempts have been made to make a list of the most superior of all our universities. The only list that might be thought of as in any sense authoritative is the membership list of the Association of American Universities. This list contains the names of twenty-four universities. Two of the twenty-four are located in Chicago. No other American city can boast of more than one university meeting the standards of this Association. The students attending the departments of Arts and Sciences in these universities of higher rank are more in number in Chicago, in both the graduate and the under-graduate departments, than in any of the other cities of America.

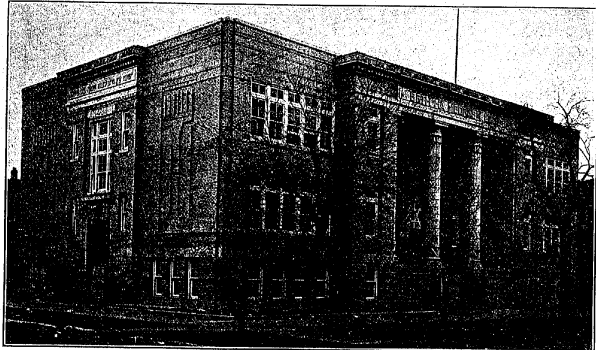
The Theological Seminaries—No attempt seems to have been made to classify the theological seminaries of America. It

would be very difficult to decide whether the seminaries of one denomination are superior to the seminaries of any other denomination. However, within a denomination there is frequently a general consensus of opinion as to which is the very best of the seminaries or at least which are the few best. Consensus of opinion within the denominations would thus place more of the superior seminaries in Chicago than in any other city. This position of superiority is held by the denominational theological seminaries in Chicago, in the Methodist church, in the Baptist church, in the Presbyterian church, in the Episcopal church and in the Lutheran church. It does not, however, for the Catholic. Their greatest center will be an area which is forty miles away from Chicago. There are more students attending high-grade theological seminaries in Chicago than in any other American city.

Instruction in Art—The institutions in America giving instruction in the fine arts have not been classified and there is no available standard at the present time for making such a classification. The Art Institute of Chicago is certainly one of the very few superior institutions for instruction in art in America. On one point, however, there is definite information and that is that there are more art students attending the Art Institute of Chicago than any other art institution in America. Since the Art Institute offers no training in music it would appear that Chicago might fail to occupy the first place in music, one of the most important phases of art. However, such is not the case, since one of Chicago's schools of music offers the most thorough and comprehensive course in instruction in music, both practical and theoretical in America.

The city of Washington, D. C., is shown to possess more important libraries than any other city. Chicago is in second place, but in the number of libraries Chicago surpasses New York city, Boston and Philadelphia. The circulation of the books in these libraries is greater per capita in Chicago than in any other city of more than a million population.

From the date of the Chicago fire in



Hebrew Theological College, 3448 Douglas Boulevard, completed early in 1922. The building, which cost \$150,000, is one of the finest of its kind in the United States. It is given over to the education and training of Hebrew young men for the divinity.

1871 to the present date of 1923, the growth of Chicago has been marvelous. Much more marvelous than the increase in population has been the development of institutions of higher learning in Chicago. During each of these five decades the increase in the attendance at our institutions of higher learning has been relatively three times as great as the increase in the population of the city.

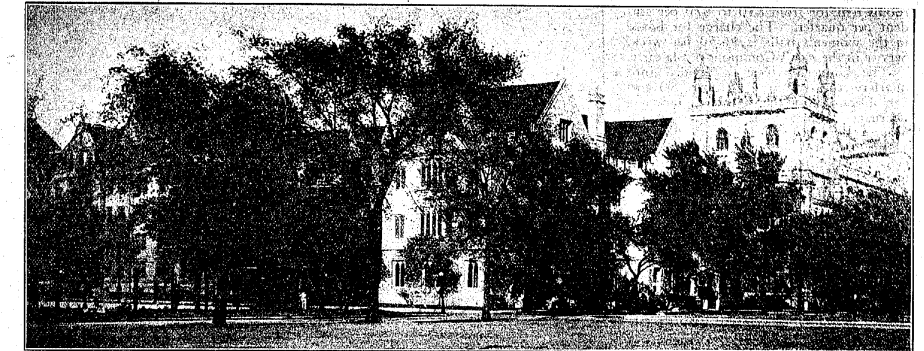
Chicago was once spoken of as a frontier city, then as a railroad city, then as a commercial city, then as an industrial city, then as a financial city, and rightly. But now, with justice, we may speak of Chicago as the preeminent educational city, as the center of higher learning in America.

University of Chicago is Preparing for Future—Great School's Plans for Future Are Imposing

Youngest of the great American universities, the University of Chicago in thirty years of remarkable growth has received within its doors 87,000 students and its annual enrollment is 11,000. Its library now numbers 1,000,000 books and its assets aggregate \$50,000,000. From the first it has welcomed women both as students and teachers, and in its school of education has one of the two completely organized educational laboratories in the world.

The war record of alumni, students and faculty was praiseworthy, indeed, and the university was an important training center. Four thousand three hundred and fifty-five alumni and former students were in service. In the summer of the winning of the war La Verne W. Noyes presented to the university property of an estimated value of about \$2,000,000 for establishment of scholarships for those who had served under the American flag in the great conflict and for their descendants. Hundreds of men are now enjoying its benefits. A distinguished memorial will some day be erected in the quadrangles of the university to commemorate the service of the men who went forth, of whom seventy-two gave up their lives.

The Old University—In 1855, only eighteen years after the town became the



One of the many beautiful spots at the University of Chicago. (Copyright by Underwood & Underwood, N. Y.)

city of Chicago, Senator Stephen A. Douglas gave a tract of ten acres of land as a site for a university. In 1887 the old University of Chicago was founded, a result of this gift, and of the interest which it created. Inadequately endowed, harassed by panics and by the two great fires which consumed the wealth of the city and changed the social conditions of many thousands of people, the old university closed its doors in 1886.

The New University—The old university had been dead but a short time when Dr. T. W. Goodspeed and others interested in establishing a collegiate foundation in Chicago began to make plans for a new university. About that time, also, Mr. John D. Rockefeller, who had already become one of the leading business men of the country, interested himself in the possible founding of a college in New York or Chicago. The American Baptist Education Society, of which Frederick T. Gates was secretary, was studying the problem of a new collegiate institution and at its annual meeting in May, 1889, the society resolved to take immediate steps toward the founding of a college in the city of Chicago. To make this possible Mr. Rockefeller at once subscribed \$600,000 toward an endowment fund on condition that \$400,000 be pledged before June 1, 1890. Dr. Goodspeed and Mr. Gates immediately undertook the raising of this fund. This was accomplished, and in addition there was secured from Marshall Field a block and a half of ground, valued at \$125,000, as a site for the new institution. Two and a half additional blocks were afterwards purchased for \$282,500.

The annual meeting of the Education Society in May, 1890, was held in Chicago and the board of the society adopted articles of incorporation and a charter for the new institution. Sept. 10, 1890, the University of Chicago was incorporated by John D. Rockefeller, E. Nelson Blake, Marshall Field, Fred T. Gates, Francis E. Hinckley and Thomas W. Goodspeed. The following trustees were chosen: E. Nelson Blake, first president of the Board; Edward Goodman, Herman H. Kohlsaat, George C. Walker, William R. Harper, Andrew MacLeish, Martin A.

Ryerson, Henry A. Rust, Alonzo K. Parker, Joseph M. Bailey, Charles C. Bowen, Charles L. Hutchinson, Frederick A. Smith, George A. Pillsbury, Ferdinand W. Peck, Daniel L. Shorey, Francis E. Hinckley, John W. Midgley, Eli B. Felsenthal, Elmer L. Corthell and Charles W. Needham. At the first meeting of the Board after incorporation Professor William Rainey Harper, of Yale University, was chosen president. Before President Harper accepted the presidency, the scope of the proposed foundation was greatly enlarged by the determination to make it not a college but a university. To assist in making this possible Mr. Rockefeller, in September, 1890, added \$1,000,000 to his former subscription.

The new University of Chicago opened its doors to students on Oct. 1, 1892. When the University began its sessions only four buildings were ready for use—Cobb Lecture hall and the divinity and graduate dormitories. Soon after the opening of the University, when it was seen how promising was the new educational enterprise in Chicago and how speedily it was developing, another million dollars was contributed by Mr. Rockefeller.

The Founder's Gifts—During the twenty-nine years of history which began with the election of President Harper, Mr. Rockefeller, who would not permit his name to be given to the University, has contributed, to establish it on an enduring basis, the magnificent total of almost \$35,000,000. Of this, an amount in excess of \$22,000,000 was designed for endowment and more than \$12,000,000 for other purposes. Having for twenty years been a generous and constant given, in December, 1910, Mr. Rockefeller made his crowning contribution to the University, his "final gift" as he described it in his letter to the trustees. This gift consisted of securities valued at \$10,000,000, the whole amount to be paid to the University in ten annual installments.

General Information—The organization of the University includes four divisions: the Schools and Colleges; University Extension; the University Libraries, Laboratories and Museums; the University Press.

The Schools and Colleges include (a)

the Graduate School of Arts and Literature; the Ogdon Graduate School of Science; the Divinity School; the Law School; the Medical Course (in co-operation with the Rush Medical College); the School of Education, and the School of Commerce and Administration; and (b) the College of Arts, of Literature, of Science, of Philosophy, of Commerce and Administration; of Education; University College. Each of the colleges is divided into a Junior College and a Senior College. The former includes the first half of the curriculum, ordinarily known as the work of the Freshman and Sophomore classes, and the latter the second half, ordinarily known as the work of the Junior and Senior classes.

The University Extension directs work done by students unable to attend exercises held at the University.

The University Libraries, Laboratories, and Museum include the General Library and all departmental libraries, the General Museum and all special museums, and the laboratories of the University.

The University Press includes the Manufacturing Department and the Publication Department.

Affiliated with the University are the Rush Medical College, the Chicago Theological Seminary and Ryder Divinity House. Allied with the Divinity School are the Disciples Divinity House and the Norwegian Baptist Divinity House.

Finance—From the founding of the University to April 30, 1921, the total amount of gifts paid in is \$50,645,273.21. For an account of individual gifts see the Historical Sketch. On June 30, 1921, the sum of \$28,364,303.51 was devoted to endowment. The income from the Endowment Fund provided 48 per cent of the total budget receipts for the year 1919-20; from students' tuition 34.7 per cent. The largest item of budget expenditure during this period was instruction, being 42.5 per cent of the total. The investment in buildings and grounds June 30, 1920, was \$11,691,500.38.

Tuition Fee—The regular fee for three major courses in Arts, Literature and Science and in the College of Education is \$60 per quarter. All students pay once a matriculation fee of \$5. In Law and Medicine the fees are \$65 and \$75.

Cost of Living—In the residence halls rooms rent for from \$30 to \$70 per student per quarter. The charge for board in the women's halls is \$6.50 per week. Service in the men's Commons is a la carte.

The University year is divided into quarters: the Autumn (October, November, December); the Winter (January, February, March); the Spring (April, May, to the middle of June); the Summer (latter half of June, July, August). Students are admitted at the beginning of each quarter; graduation exercises are held at the end of each quarter.

Attendance—During the year 1919-20 there were 10,880 students in residence, of whom 5,827 were women. From the city of Chicago come 37.2 per cent of the students and from the State of Illinois (including Chicago) 50.2 per cent. The general geographical distribution is: United States, 97.1 per cent; North Atlantic Division, 2.7; South Atlantic Division, 2.3; South Central Division, 7.7; North Central Division, 80.7; Western Division, 3.1; foreign countries (twenty-seven in number), 2.8.

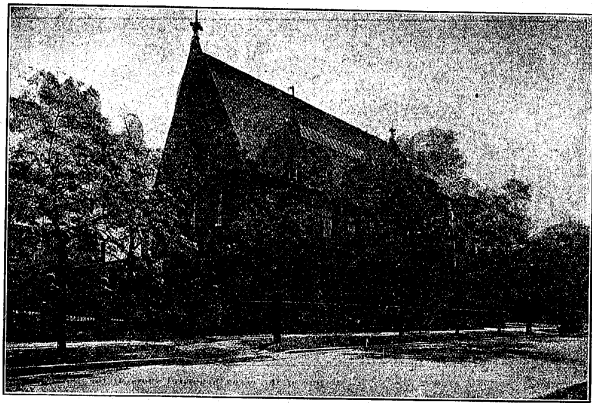
University Has a \$15,000,000 Building Program—Chicago University has a program for new buildings which promises to give to the city some gems of architectural beauty, \$15,000,000 is involved in this schedule of new buildings; \$3,500,000 is already in hand to be expended in new structures on the campus, which will add greatly to the facilities and beauty of the University.

New University Chapel—Foremost among these is the great University Chapel—sometimes alluded to as the "Founder's Chapel," for which \$1,500,000 has been set aside from the last gift of \$10,000,000 made by John D. Rockefeller. This structure, according to the tentative plans designed by Bertram G. Goodhue, the noted New York architect, will be the dominating and unifying feature of the entire quadrangle, overtopping all other buildings and gathering up the far-flung lines of lesser buildings in one grand pyramidal sweep culminating in a splendid tower 216 feet in height.

Mitchell Tower, now the loftiest building on the campus, could stand within the mighty nave of the new chapel and never touch the ceiling. The seating capacity of the auditorium will be 2,000 persons, and the building will be used for strictly religious purposes. Connected with the chapel by the cloister, will be the president's house, built in a similar style of architecture—cathedral Gothic—and, in fact, the group of buildings will have much of the aspect of an old cathedral.

The Chapel, standing near the corner of Woodlawn avenue and 59th street, opposite Ida Noyes Hall, together with the proposed Modern Language group of buildings adjoining Harper Memorial Library, and connecting it with existing buildings, will complete the Midway north side. When the south side of the Midway is adorned with the new group of buildings now planned for it, Chicago will have entered into its heritage as one of the most impressive, as well as the most vital, of the university centers of the world.

The \$300,000 Theology Building—the destined home of the Divinity School



(Copyright by Underwood & Underwood, N. Y.)
Manual Training School, University of Chicago

—will stand on a line with Walker and Rosenwald Halls on the inner side of the quadrangle of which Harper Memorial Library forms the outer face. Connecting with this building by a cloister will be the beautiful Bond Chapel for which \$50,000 has been given by the widow of Joseph Bond. This building, while comparatively small, is to be an architectural gem, as designed by Coolidge and Hodgdon, the architects exemplifying the exquisite delicacy of the English Gothic style at its best period.

Buildings for the Disciples Divinity House—An institution organically connected with the Divinity School is the Disciples Divinity House, which now has a \$200,000 fund to be expended in the erection of buildings to stand at the corner of 57th street and University avenue. The architects co-operating upon plans for this group of buildings are Henry K. Holsman and Howard Shaw, of Chicago.

The Chicago Theological Seminary, affiliated with, but not an integral part of the University of Chicago, is to have a group of buildings in the Colonial style, as planned by the architects Riddle and Riddle, to stand on the north side of 58th street, between University and Woodlawn avenues. Inasmuch as this organization is of Congregational origin, it was considered appropriate to depart from the general style prevailing at the University, which is English Gothic.

Medical School Will Be Developed—The University has extensive plans for developing the medical school and for this a great fund is available.

On the south side of the Midway, facing the Harper Memorial Library, there will be erected the group of medical buildings, the largest of which will be the Albert Merritt Billings Memorial Hospital. A million dollars has been given by the Billings family for this purpose. These buildings will have accommodations for 250 beds, a dispensary, pathological and bacteriological laboratories, and a rarely complete medical library, to which Dr. Frank Billings has contributed his own

extensive collections. Persons admitted to this hospital as patients will be those willing to have their cases used for clinical teaching and research work.

Adjoining this will be the Max Epstein Dispensary, for which Mr. and Mrs. Epstein have contributed \$100,000. Plans for this structure are being made by Coolidge & Hodgdon.

While the Billings Hospital will house the graduate students' medical school, giving a four-year course leading to the degree of M. D., the Rush Graduate Medical School, near the Presbyterian Hospital on the west side, takes care of the post-graduate work of the University medical students. This latter school has been enriched by the gift of the Rawson Laboratory, for which \$300,000 has been provided by Mr. and Mrs. Frederick Rawson.

To carry out this medical building program the University secured in 1916-17 nearly \$5,500,000.

Many Institutes for Graduate Work Planned—Many institutes for the development of graduate work in science are also planned. These include one for physics and chemistry, with necessary building and equipment, requiring building funds for an endowment. The second institute will be that of plant agriculture and here will be trained men in the fundamental science of agriculture, and it will be notably advanced work. Here again many hundreds of thousands of dollars will be required. The third institute will be that of mining, also for advanced work, and requiring several hundred thousand dollars. The fourth institute will be that of the science of education and will call for liberal endowment. Indeed, in establishment of these institutes there will be necessary new endowments amounting to \$3,000,000, while for the new buildings will be required \$1,250,000.

New Clubhouse for Quadrangle Club—A new \$200,000 clubhouse for the Quadrangle Club (the old one having been purchased by the University in preparation for the great Chapel) has been erected at the southeast corner of 57th street and

University avenue. Designed by Howard Shaw, this building is in the manor house style as differentiated from the ecclesiastical English Gothic and in addition to the most attractive arrangements for the entertainment of the men of the University, will have a suite for the accommodation of official guests—a long-felt need at the University.

Noyes Hall—As an earnest of what the University has in store in this direction of architectural fitness and interior finish, mention should be made of the latest building for women students in the world. This building was built through the munificence of Mr. La Verne Noyes in memory of his wife, his gifts amounting to \$490,000 for the purpose. It combines the features of a women's club, restaurant, gymnasium and theater. Its furnishing was executed entirely by Chicago people under the direction of the Dean of Women and others of the faculty and constitutes practically a school of interior decoration.

University is Active in Many Fields—The University has been active in the Near East, the latter released from Turkish control, in the field of archaeology. It is desired to establish a field school of geology. The department of geography hopes to organize research expeditions, and the department of zoology plans a museum, while botany needs an experimental garden, laboratory and greenhouses. By the invention of Professor Michaelson of the University a twenty-foot interferometer operating in connection with the 100-inch telescope at Mount Wilson, California, there was measured December last the diameter of the giant star, Betelgeuse, which is learned to have a diameter of nearly 300,000,000 miles, or 300 times that of the sun. Such is astronomical research by gifted scientists well equipped, while one of the world's most remarkable astronomical equipments is the property of the University of Chicago in the Yerkes observatory at Geneva Lake, Wisconsin, where each year 8,000 people see the great 40-inch telescope in operation.

Northwestern University Has Shown Remarkable Growth—Great Institution of Learning to Erect More Buildings

No city in the United States can boast of two universities of the rank that are to be found in the Chicago area. The University of Chicago and Northwestern University constitute that two in the Chicago district and both attract students from many lands.

Northwestern was founded in 1850. At that time a group of devout, resolute men met to establish this seat of learning. They purchased for a site 380 acres of land in Evanston, just north of Chicago, and went ahead.

University Opened in 1855—The formal opening of the University occurred in November, 1855. Admission then and for many years after was by examination instead of by certificate. The first decades of Northwestern's life were difficult, for her existence and development have been coincident with that of the Middle West.

In 1859 the Law School was added to the then College of Arts and Science: the



View of a section of the Men's Dormitories at Northwestern University, noted as one of the finest in the country.

Evanston Academy was founded in 1859-1860. The Civil War called student and faculty, who went as in the later wars. In 1863, Garret was granted a place on the Campus, and in 1867 the Chicago Medical College became the third school of the University. 1869 saw the completion of University Hall, the donation of the Greenleaf Library, and the admittance of women. Four years later the Evanston College for Ladies became an actuality, as it had been in spirit, a part of Northwestern.

Great advancement was made between '71 and '81. The first yell was proposed in '78, the colors, purple and gold—later purple and white—were chosen; the Y. M. C. A., the band and the Glee Club were established.

Progress By 1900—Rugby football was introduced and Northwestern held its first field day. The Tripod, the original paper, and the Vidette, were combined in the Daily Northwestern. J. A. Fisher, ex-'80, published the first Northwestern College Song Book and the University issued an annual, the forerunner of the Syllabus. The class of '80, as Freshmen, introduced the mortar-board and held the first of the famous trig ceremonies. The class of '70 presented the University Hall clock, and '80 presented the tower bell. The college of Arts and Science became the College of Liberal Arts. By 1900 the University included nine well established schools.

Advance Since 1900—Since 1900 two beautiful buildings, Harris and Swift Halls, have been added to the Campus. In 1920 the Medill School of Journalism was founded in honor of Joseph Medill.

Today all the departments of the University are operating at capacity—the facilities have not quite kept pace with the growing demands upon the institution. The need for more adequate equipment is especially felt in the professional schools of Law, Commerce and Dentistry, which schools have been promised new quarters in Chicago.

The Campus at Evanston—Northwestern is ideally located in a virtual oak

grove extending for nearly a mile along the shore of Lake Michigan, fourteen miles north of Chicago in beautiful Evanston. A labyrinth of paths lead through this grove and along the sandy beach from the ivy-covered academic on the south to the Quadrangle on the North Campus. A short distance from the "Quad" are the gymnasium and the tennis courts.

South Campus—University Hall, 1869, is the gray building with the tower, at the southwest end of the Campus. It contains the offices of the president, the two deans, and the registrar, zoological and geological laboratories, a woman's room, the woman's tea-room and the Y. M. C. A. room. University Hall is the heart of Campus life.

Harris Hall, 1915, was the gift of Mr. Norman Waite Harris. In it are the political science, economics and history departments. The lecture room "107" is used for meetings, talks and lectures; the social room supplies a place for receptions as well as for informal gatherings.

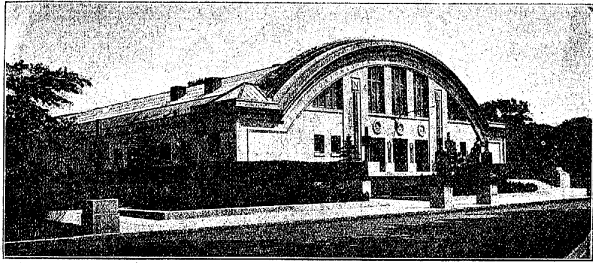
Fayerweather Hall of Science, 1885, was the gift of Mr. D. B. Fayerweather. The east wing houses the physics department, the west, the chemistry.

Fisk Hall, 1898, the gift of Mr. William Deering, is named in honor of the late Professor H. E. Fisk, Principal of the Academy from 1873 to 1904. The chapel of Liberal Arts and Engineering is in this building, as our botany laboratories classical and romantic language offices, some English offices, and the Y. M. C. A. room. Fisk Hall was formerly the building of Evanston Academy.

Old College, 1855, the first University building, was situated originally at the corner of Hinman avenue and Davis street. It was moved in 1871 to the Campus, and from then until 1899 was the Academy Hall. It is used by the University now for the psychology and education department.

Annie May Swift Hall, 1895, named after a daughter of Mr. Gustavus F. Swift, is the building of the School of Oratory.

Garrett Memorial Hall, 1884, the building of Garrett Biblical Institute, contains



Patten Gymnasium, Northwestern University, noted as one of the finest in the country.

recreation rooms, library, museum and lecture hall.

Orrington Lunt Library, 1893, is chiefly the gift of Mr. Orrington Lunt. In Lunt are the stacks and reading rooms of the Library, the University art collection, and the English offices.

Swift Hall of Engineering, 1909, the gift of Mrs. Gustavus Swift and her son, Mr. Edward F. Swift, includes the administrative and academic departments of the College of Engineering.

North Campus—The Biblical Dormitories, completed in 1917, begin North Campus.

Patten Gymnasium, 1907, a gift of Mr. James A. Patten, contains a gymnasium completely equipped—a swimming tank, an indoor field large enough for track or for a complete diamond, social rooms, locker rooms, dressing rooms, etc. The field can be used for an auditorium seating 4,500 people. In the gymnasium are held each year the North Shore Festival, commencement exercises and other affairs requiring large floor space.

The Quadrangle was begun in 1910. The plans include four quadrangles of seven buildings each, comprising men's dormitories and fraternity houses. Thus far four dormitories and nine chapter houses have been built. The "quad" system is unique with Northwestern.

Dearborn Observatory, 1888, was the gift of Mr. James B. Hobbs. It is supplied with a dome for the equatorial, meridian, circle room, library, lecture room, machine shop, etc., for astronomical work.

Willard Hall Campus—On Willard Campus are situated Willard Hall, the leading residence for women students, Miller House, an associated dormitory, Chapin Hall, Pearson's Hall and Morse House.

Music Hall, 1897, is occupied by the School of Music, which has now two additional buildings—Piano Practise house behind Miller House, and Music School Annex at the corner of Church street and Orrington avenue.

Woman's Building, is to be built on Willard Hall Campus in the near future. The Woman's Building Association, organized in 1916, is raising the necessary funds and conducts various enterprises to this end.

Athletic Field—Northwestern Field is about a mile distant from the Campus. It is twelve acres in area, comprising two football fields, a baseball diamond, a quar-

ter mile track with a 200-yard straight-way, and pits for pole vaulting and jumping. The bleachers have a seating capacity of 10,000.

A Few Northwestern Facts—Enrollment 1921-22, 8,519.

There are approximately six hundred members of the faculty.

There are fifteen academic buildings on the Evanston Campus and twenty-five residence houses on the Campus and in the vicinity.

The Evanston Campus is seventy-five acres in extent; the proposed Chicago Campus, nine acres.

The University spends \$150 for every \$100 tuition paid.

Estimated value of University property is \$10,000,000.

Looking Ahead—Northwestern University has a stupendous building program ahead. One of the features of this is the establishment of a downtown Campus to be known as the Alexander McKinlock Memorial Campus. This Campus was purchased through gifts of George A. McKinlock and other prominent Chicagoans. It was named in honor of Mr. McKinlock's son, Alexander, who was killed in action in France during the World War.

The Alexander McKinlock Memorial Campus is situated in Chicago's attractive North Side district, one mile north of the loop. It is a nine-acre tract between Chicago avenue and Superior street, facing Lake Michigan. It is planned to make the new Campus the seat of the professional schools now located at 31 West Lake street, the old site of the Northwestern professional schools.

In February, 1922, the trustees of Northwestern University appointed James Gamble Roberts, of New York, as the architect who shall devise and direct the building of the McKinlock Memorial Campus. This action was in keeping with plans made two years ago for the development of a "Greater Northwestern University."

\$2,500,000 to Be Spent—Between \$2,500,000 and \$3,000,000 is to be expended as a first step in equipping this Campus. The site covers nine acres. The buildings ultimately to surround the Campus will cost \$10,000,000, it is estimated, and completion of the project will give Chicago the world's greatest urban university campus, it is declared.

The principal building of the new campus will be a huge structure of many

stories to house the medical and dental schools. It is for the site of this building that permission to close Superior street will be asked. The structure will stand directly in the center of the street facing the lake. Grouped along this on either side will be the other smaller buildings, forming a three-sided square about the campus with the open end fronting the lake. The buildings will stretch for a solid block and a half along the western end of the square.

To Follow the City Plan—The University has expressed its intention of beautifying the campus in harmony with the Chicago city plan.

According to Walter Dill Scott, president of Northwestern, the central location of the University will be advantageous to the city as well as to the educational institution. The clinical and treatment hospital, which is to be housed in the medical and dental school building, will care for several hundred. The profess-libraries of the university, including the famous Gary law library, will be of easy access to the faculty.

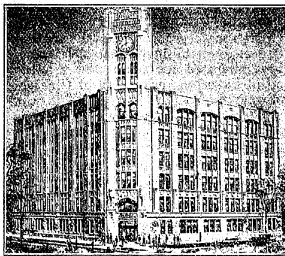
In addition, the lake front campus, because of the unique position it will occupy among the universities of the world, will be another civic attraction of Chicago. It also is expected to be a boon to the development of the north central district.

Chicago Has Varied List of Educational Institutions—Besides being the home of such great universities as Northwestern and Chicago, the city is also the home of large number of smaller but excellent institutions of learning. Two excellent Catholic schools are in the city, De Paul and Loyola, which maintain high standards and have large enrollments. Then there are a number of trade and business schools. One of these, the LaSalle Extension University, is well known because of its home study business courses.

LaSalle Extension University was chartered under the laws of Illinois in 1909, to provide a new method of higher business, vocational and professional training for those who wished to turn spare time into profit. The University started with a capital of \$50,000 and a staff of 20 persons.

More than 400,000 men and women in every corner of the world are enrolled for business education in LaSalle Extension University.

Assets of \$7,500,000, an educational, administrative and service staff of 1,600.



New building of the LaSalle Extension University.

and a steadily growing enrollment of nearly half a million, gives LaSalle the place of first rank among non-resident and home-study universities of the world. Fully 5,000 LaSalle students live in foreign countries.

Enrollments at LaSalle have increased from 6,263 in 1910 to 58,362 in 1921. The university has organized, built and is conducting courses in American Law and Procedure, Business Law, Business Administration, Banking and Finance, Higher Accountancy, Traffic Management, Modern Business Correspondence and Practice, Effective Speaking, Commercial Spanish, Business English, Certified Public Accountant Coaching, Elements of Accounting, Industrial Management Efficiency, Modern Foremanship and Production Methods, Modern Salesmanship, Railway Station Management.

The number and variety of Chicago's educational institutions are comprehensively shown in the Classified business section of this Directory under the heading "Schools and Colleges."

Chicago's Public Schools—Constitute Great System—25,000 Graduated Each Year

To teach the rising generation in a city of the size of Chicago is a tremendous undertaking. Today the public school system of this city, using the most modern buildings and a great staff of teachers, is one of the greatest educational systems in the world.

There are graduated from Chicago's public schools about 25,000 people each year.

In Chicago the public schools are offering instruction and education of a high class in almost every line of human endeavor now known to man, using 263 elementary school buildings and ninety-seven "branches" (usually temporary structures) and twenty-three high school buildings. Many of the buildings are strictly modern in construction and arrangement and are equipped with the most modern apparatus. The enrollment today is almost 400,000. The number of regularly assigned teachers working in these schools was 8,883. They work in kindergartens, elementary and grammar schools; high schools—academic, cosmopolitan and technical; junior high schools; two-year college; normal school; prevocational schools for over-age boys and girls; parental school for truant and incorrigibles; vocational and industrial schools.

Special Classes Conducted—Special classes are conducted for children who, owing to physical or mental abnormalities, require other means of instruction than

that which is provided in the regular curriculum. In order to meet these varied needs, numerous supplementary departments have been created, such as special schools for the crippled, the deaf, the blind, the subnormal, the motor type children, the delinquents, the truants, the epileptics, and the children of a low standard of physical vitality. It has been the policy of the Board of Education to make special provision for children who are handicapped through physical or mental abnormalities, and to provide for them every opportunity possible in the way of equipment and special instruction.

The Continuation Schools—Another important branch of work in the public school system is found in the Continuation Schools.

These schools reach out a helping hand to all young people who have not had proper educational opportunities. In fact, in order to make childhood's opportunity doubly sure, the school law requires that all children shall attend an all-day school until they are 16 years of age, relaxing this rule only when it is necessary for minors to be employed to help support the family. In such cases the law permits the employed minors to attend a part-time school for at least eight hours a week for fifty weeks of the year.

The Continuation Schools fulfill a three-fold purpose:

1. To give working boys and girls as fully rounded instruction as their more fortunate brothers and sisters receive, who remain in full-time school, this instruction relating as closely as possible to the occupations in which they are engaged.

2. To provide for apprentices in the various trades high-grade technical information about these trades, supplementing this work with instruction in English, mathematics, hygiene and civics (the apprentices represent an older group of students).

3. To offer instruction and training to crippled soldiers, co-operating with the general plans for vocational training of the Federal Board.

Special emphasis is laid upon civics, hygiene, out-of-door exercises, and wholesome recreation in all of the Continuation Schools programs. The time devoted to instruction is of such short duration that an effort is made to emphasize the practical and many of the things that are commonly taught in the all-day school have to be eliminated. The subjects are selected with great care, so that these young people may be better prepared for their future jobs.

The city of Chicago began continuation school work about nineteen years ago with carpenter apprentices, and has gradually

added apprentices of a number of trades. This has meant establishing equitable relations with the trade association, the unions, and the employers.

At the present time, there are eight continuation schools in Chicago, harboring a yearly attendance of approximately 5,000 pupils. The classes are limited to twenty students.

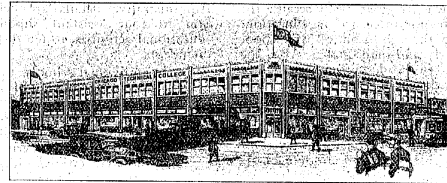
One of the continuation schools, the Winchell School, is given over entirely to girls, at present enrolling 1,300. Very few of these girls have gone beyond the sixth grade, and many of them have never been in public school. The girls are taught sewing, millinery, tailoring and cooking, in addition to the theoretical subjects. A homcraft class has just been organized, and 150 girls have volunteered to join. Here the girls are taught the art of home-making—how to clean house, wash and iron, care for babies and little children, prepare nourishing food for younger brothers and sisters, and how to beautify the living quarters. It is most gratifying to see the interest shown in this work by these young volunteers. Several wee tots in the neighborhood are cared for by members of the class, affording a concrete opportunity for the study of a child life. The sewing classes recently staged a style show in the assembly room of the school, exhibiting 150 dresses which they had made. The girls wore their own garments, and explained how many hours were spent in the making, the cost of materials, etc. Hart, Schaffner & Marx, the clothiers, have given their co-operation in this work.

Continuation School for Boys and Men—Equally interesting is the continuation school devoted entirely to boys and men. This school has, at the present time, an attendance of 200 apprentices and 375 crippled soldiers. A part of the school time is given over to history, English, mathematics, drawing and citizenship classes. There are shops for woodworking, electricity, plumbing, banking, sheet metal work, machinery, railway shop work, plastering, tailoring and watch repairing. The equipment for the watch repairing department is supplied by the Wholesale Jewelers' Association of Chicago; the tailoring equipment is supplied by the Merchant Tailors' Association.

Full-fledged apprentices have been developed in the school, and the work of the crippled soldiers is very encouraging. The soldiers are, in every case, suffering under serious physical handicaps, and they are all without previous training in any of the trades; so it requires considerable care and experimentation to select trades for them which will be to their liking and not too difficult.

Another continuation school which has awakened much popular interest is the automobile repair school. All types of pupils are in attendance here, including a number of adult men and women. Every kind of automobile work is taught, from the most complex electrical problems to machine shop work. There are foundries, sheet metal and blacksmith shops and equipment for acetylene welding.

The Commercial Continuation School, situated at the edge of the loop district, has an enrollment of over 1,700 boys and girls from the business section of Chicago. These children are employed by banks,



The new Chicago Tech. Building, 26th Street and Indiana Avenue

department stores, and other business institutions. There are also in attendance graduates of four-year high school courses who are taking the special secretarial course; and teachers in the public schools who are studying stenography, typewriting, accounting, comptometry, etc. Instruction is offered in typewriting, mimeographing, printing, dictaphone, filing, general office practice, secretarial duties, business arithmetic, calculating, listing and bookkeeping machines, penmanship, commercial law, mechanical and office hygiene, civics, economic and industrial history and Spanish.

There are four continuation schools in the packing house district—at the plants of Wilson & Co., Morris & Co., Swift & Co., and Armour & Co. There is another continuation school in the telephone building. There are also several continuation schools of a private nature which comply with the rules of the state Board of Education.

Continuation school work requires a vital contact on the part of the teachers with the world at large. The teachers selected are, therefore, chosen for their skill in their particular line of industry, as well as for their aptitude in teaching. They are required to spend at least two months of every four years in outside work. The baker, for instance, must have some theoretical work in chemistry and bacteriology. The teacher of commercial subjects must work in an office, store or factory. The shop director must pursue a technical course.

Chicago Business Men Co-operate—The co-operation of Chicago business men with the continuation schools is praiseworthy. Over 75 per cent of the pupils in these schools are paid by their employers for the time spent there. In return, the employer realizes that he is securing a more open-minded, intelligent employe who is a better citizen, and who has benefited from the semi-technical training which has been given him. The improvement in the bearing and deportment of the continuation school pupils, after even a short time, is more marked. One particularly gratifying result of this training is the eagerness of many pupils self-improving study beyond the compulsory stage.

The finest technical high schools in the country are also located in Chicago. The Lane Technical High School on the north side and the Crane and Harrison Schools on the west side are excellent examples of this type of school in the Chicago system.

The growth of Chicago's public school system has been both rapid and dramatic. Nine or ten pupils constituted the total enrollment in the first school of any kind in Chicago. This was in the year 1816.

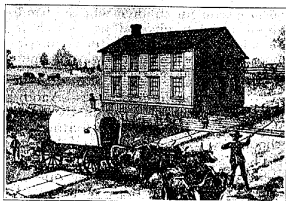
In 1830 the first county school was organized by Stephen Forbes and was located at Randolph and Michigan streets. At that time Indians annoyed the pupils, wolves could be heard howling throughout the day and deep mud, almost impassable, was an obstacle to be overcome by the pupil on his way to school.

First District School Planned in 1837—In 1837 Chicago was incorporated as a city, and the first district school planned. At this time there were 838 children in Chicago between the ages of 5 and 21, but less than 300 attended school. This

attendance was irregular, both because the parents were not interested in education, and because the condition of the school was disorderly and inadequate. Also, the children had to wade through mud and march to reach school, for the country was almost all unbroken prairie. The whole term of attendance was about equal to one-fourth of a year. There was no uniformity in books and mode of instruction, and often as many as 100 children of all ages were crowded into one room.

The first public school of which we have any definite knowledge, was erected in 1845 on Madison and State streets, opposite McVicker's Theater.

Eleven years later, in 1856, the first public high school was built. It was called the Central High School, and was the first stone school building to be erected. It stood at Monroe and Halsted streets. The business men of Chicago were not enthusiastic on the subject of a high school.



First school house owned by the City of Chicago and known in 1844 as the "Hunsey School" was located at southeast corner Madison and Dearborn Streets.

The school agent reported: "In reference to a high school, they are of the opinion that there are insuperable objections to the establishment of such a school, independent of the inability of the city at the present time to build one." In the following year the school agent reported that an average of \$5.81 per pupil was spent for education—an amount lower than that spent by any large city in the Union at that time.

From those primitive schools with a small enrollment the Chicago public school system has grown apace with the expansion of the city until today it is one of the most comprehensive educational systems in the country.

Following is a brief description of the various departments of school work:

General Offices—The assembly room of the Board of Education and the offices of the business department are located at 650 South Clark street.

The office of the Superintendent of Schools and other offices of the Education Department are located at 460 South State street.

Plan of Administration—The Chicago school system is characterized by the simplicity and compactness of its organization, the freedom permitted for the exercise of initiative in teaching and the abundance of material provided as helps.

The Board of Education consists of eleven members appointed by the mayor of the city.

The Superintendent by statute, is given the initiative in all educational activities.

Administrative details are delegated by him to four assistant superintendents; educational activities, to ten district superintendents.

In the individual schools, the principal is the leader in the teaching of all subjects, regular and special. Within wide limits he is free to work out his own policy. This has brought great flexibility of organization, extensive experimenting in methods and adaptation to local needs.

General Studies—The Chicago Public Schools make ample provision for the special studies and for groups of children mentally or physically handicapped, but their chief concern is to teach the conventional subjects to normal children, to develop in them sound scholarship, high moral character and a sense of their responsibility to their fellows and to the state.

Music—Music in the elementary schools is in charge of a supervisor and a corps of special teachers; it is taught by the grade teacher. In the high schools, it is taught departmentally.

Art—The organization of instruction in art is similar to that for instruction in music. In all schools, art work will be in progress and the work of recent months will be on display. Special exhibits have been arranged.

Hand Work—Under the names construction work, manual training, domestic art or science and technical work, some form of hand work forms a vital part of the curriculum in each grade. It is in charge of a director of manual training and construction in the elementary schools, a supervisor of household arts and science and a supervisor of technical work. In grades one to five the work is taught by the grade teacher, in grades six to twelve it is handled departmentally. Many occupations are studied and a great variety of materials is used.

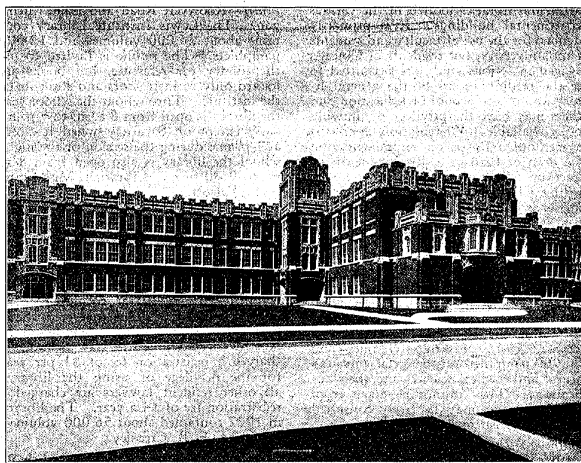
Commercial Work—Two-year courses, four-year courses and intensive five-month courses in the various types of commercial work are offered. These courses are very popular and have been strongly commended by business men.

Visual Education—For many years pictures have been used in teaching. Their value has been recognized so fully of late that it has seemed wise to organize and equip a new department to carry on this work. This is located in the Education Building, 460 South State Street.

Physician Education—Three departments handle the three phases of this work, gymnastics, athletics, and military training. The teaching in all grades is in the hands of special teachers.

A Junior Unit of the Reserve Officers' Training Corps is maintained in the high schools, membership is voluntary. Instructors and equipment are furnished by the United States Government.

Continuation Schools—By statute all boys and girls between the ages of 14 and 16 years, who are engaged in remunerative employment, are required to attend a continuation school if one is provided. Chicago has been developing a system of continuation schools for several years. Last year these schools enrolled ten thousand



Graham Bell Public School, typical of the public schools of Chicago.

pupils with an average membership of about five thousand.

Special Schools—Children handicapped physically or mentally are provided with special instruction to suit their needs.

Much of the work is done in single classes widely distributed over the city. Two buildings have been built to meet the needs of these pupils, the Bell for the deaf, the Spalding for the crippled.

Corrective Schools—Pupils who are truant or who are incorrigible are committed to the Parental School or to special classes in regular schools. Juvenile criminals may be sent to the Chicago and Cook County School for Boys.

Evening Schools—Evening schools, Community Centers, and Americanization classes are in charge of an assistant superintendent.

Twenty-eight evening schools are in session during five months of each year. All the academic and industrial courses of the day for foreigners and citizenship classes.

Community Centers—Fifty community centers are conducted, most of them two nights per week. In each the activities carried on are those which the particular community desires, encourages and attends. These activities include the quiet games, physical education, swimming, dancing, public speaking, languages, golf, movies and chorus singing. The centers are located in all parts of the city, many having exclusively one foreign nationality each. The work begins about October 1 and continues until May 1.

Americanization—In co-operation with the Chicago Association of Commerce the Naturalization Bureau, the Y. M. C. A. Women's Clubs and various religious and philanthropic organizations, the Chicago Board of Education conducts classes for the teaching of the English language, American history and civics, and citizenship, in

Department of Examination—There are over ten thousand teachers in the Chicago Public Schools. About seven hundred new teachers enter the service every year. Of these about two hundred and twenty-five are graduates of the Chicago Normal College. The others enter by examination.

The examination for certificates and for entrance to the Normal College are conducted by the Board of Examiners. The department is located at 460 South State Street.

Institutions Which Co-operate with the Public Schools—The Public Library provides books for the libraries of the high schools and advises with the library attendants. The salaries of the attendants are paid by the Board of Education. The library provides travelling collections of fifty books each which are loaned to individual class rooms. In many other ways it facilitates the work of the schools.

Teachers and pupils of the Chicago schools are given annual passes to the Field Museum.

Many hundreds of sets of museum specimens have been mounted in handsome cases and are transported from school to school by the museum. These cases may be seen at the schools or at the museum.

The Art Institute also co-operates. The Board of Education provides an art teacher to conduct parties of pupils and teachers through the galleries and give them instruction. The freedom of the galleries is given to teachers and pupils at all times.

The Academy of Sciences in Lincoln Park contains wonderful natural history collections which it places at the disposal of the schools. Admission is free.

Information giving names of officials and other data pertaining to the public school system of Chicago can be found in the miscellaneous information section of this directory.

Chicago Has Wealth of Excellent Libraries—Offer Unusual Educational Advantages

Few large cities in the world can boast of as many well-equipped, large libraries as Chicago can.

The Chicago Public Library—At the head of the list is the Chicago Public Library which occupies the most beautiful public building in the loop district. It is situated on Michigan Blvd between Washington and Randolph Streets, being conveniently located for the book lovers of the city.

Departments and Hours—Circulating, open shelf and registry departments, third floor, open 9 a. m. to 7 p. m.; closed on Sunday.

Reference room and public card catalogue, fourth floor, open 9 a. m. to 10 p. m.; Sundays and holidays, 9 a. m. to 6 p. m.

Thomas Hughes room for young people, fourth floor; open 9 a. m. to 6 p. m.; closed on Sunday.

Art room, fifth floor; open 9 a. m. to 5:30 p. m.; closed on Sunday.

Music room, fifth floor, Washington Street entrance; open 9 a. m. to 5:30 p. m.; closed on Sunday.

Patents, documents and bound newspapers room, first floor, Randolph Street

entrance, open 9 a. m. to 5:30 p. m.; closed on Sunday.

Civic room, fourth floor, Randolph Street entrance; open 9 a. m. to 10 p. m.; closed on Sunday.

Reading room for current magazines, fourth floor, Randolph Street entrance; newspapers, first floor, Randolph Street entrance; open 9 a. m. to 10 p. m.; Sunday and holidays, 9 a. m. to 6 p. m.

General Information—The Chicago public library is a free public institution, established under the Illinois library law of 1872. It derives its revenue from an annual library tax of eight-tenths of one mill. A board of directors of nine members is appointed by the mayor, three annually for terms of three years. The library occupies the sites formerly known as Dearborn Park, bounded by Michigan Avenue, Washington Street, Garland Court and Randolph Street. The cost of the building was about \$2,000,000, including the furniture, book stacks and machinery. There are 45 branches, seven high school branches, 194 traveling libraries and deposit stations.

The right of drawing books from the public library belongs to all who reside in the city of Chicago, and also, to those who make their homes in the suburbs within the limits of Cook County and are regularly employed in the city. In order to become a book borrower it is necessary only to file an application giving the name and residence of the applicant and bearing the signature of a second person, who must be an actual resident of the city, appearing as such in the latest city or telephone directory. This person becomes the guarantor of the library for the proper observance of the library regulations on the part of the applicant. These regulations merely provide that books drawn for home use must be returned within the stated period and must not be defaced or injured.

At the close of 1921 the public library contained 1,099,711 volumes. The aggregate circulation for the year was 7,472,768 volumes, which does not include the use of books kept on the open shelves at the main library or its branches or the periodicals or newspapers used in the reading room.

A complete record of branch libraries, deposit stations and delivery stations is given in the miscellaneous information section of this directory.

Besides the Chicago Public Library there are a number of other libraries in the city which offer exceptional educational and informational facilities. The list includes the following:

The Newberry Library—North Clark Street and Walton Place. Librarian, George B. Utley. Hours, from 9 a. m. to 10 p. m. every day except Sundays and the following holidays: Jan. 1, May 30, July 4, Thanksgiving and Christmas. The Newberry Library, Oct. 1, 1922, contained 403,893 books and pamphlets. These are not circulated, but are for consultation and use within the library building. The library is free to the public.

University of Chicago Library—At the University, 59th and Ellis Avenue. This library contained July 1, 1922, 700,000 volumes and 200,000 pamphlets. It is composed of the general library located in

the Harper Memorial Library and the departmental libraries located in the various departmental buildings. It is primarily intended for the use of faculty and students of the university, but residents of Chicago engaged in serious study are permitted to use the reading rooms of the general library and of the School of Education and others may have the privilege of drawing books available for circulation upon the payment of a fee or on recommendation of a dean or head of a department of instruction. Properly accredited scholars visiting Chicago will receive complimentary cards upon application. The reading room is open to all. The director of the library is Ernest D. Burton; the associate director is J. C. M. Hanson.

The John Crerar Library—86 East Randolph Street. Librarian, Clement W. Andres. Hours: the library is open daily, except Sunday from 9 a. m. to 6 p. m. The John Crerar Library contained on October, 1922, 448,625 volumes and 300,000 pamphlets on the social, physical, natural and medical sciences and their applications. They cannot be taken from the library, but may be freely consulted by all who wish to do so.

Chicago Historical Society Library—North Dearborn and West Ontario Streets. Librarian, Caroline M. McIlvaine. The library, museum and portrait gallery are open free to the public from 9 a. m. to 5 p. m. on week days; Sundays from 1 to 5 p. m. It is a repository of matter relating to the history and archaeology of America, particularly of Chicago and the northwest, comprising some 40,000 volumes and 75,000 pamphlets and a large collection of MSS., maps, views, etc.

Municipal Reference Library—1005 City Hall. The Municipal Reference Library contains books, pamphlets, and other data relating to municipal government in Chicago and other cities. It provides and renders available for the use of members of the Chicago City Council its various committees and special commissions and municipal department and bureau heads and other city officials and employs public reports, documents, books, pamphlets and other data bearing upon municipal, legislative and administrative projects, plans and proposals, keeps on file all official public reports issued by the various governmental agencies in the city of Chicago and the annual reports, charters and ordinances of other cities. The library is open from 9 a. m. to 5 p. m. and until 12 m. on Saturday. Frederick Rex, municipal reference librarian.

Ryerson and Burnham Libraries—Art Institute, Michigan Avenue and Adams Street. The Ryerson Library of the Art Institute is devoted to works on fine art and travel. It contains about 15,418 volumes and collections of 44,000 photographs and 20,000 lantern slides. The Burnham Library of Architecture contains about 3,300 books on architecture. Open daily from 9 to 5; Mondays, Wednesdays and Fridays until 9:30 p. m.; Sundays 2 to 8 p. m. (Open free Wednesdays, Saturdays, Sundays and three evenings from 6 to 9:30.) The library is primarily for the students of the Institute, but is practically a free reference library of fine art. Librarian, Sarah Louise Mitchell.

Field Museum of Natural History Library—Roosevelt Road and Lake Michigan. The Lewis Institute Library contains about 26,000 volumes and 12,000 pamphlets. The public is invited to use the library for reference, but books are loaned only to instructors and students of the institute. Throughout the school year the library is open from 8 a. m. to 5 p. m. daily except on Saturday when it closes at 1 p. m.; during the session of the night school the library is also open from 8 a. m. to 9:30 p. m. Librarian, Miss Francis S. Talcott.

Elbert H. Gary Law Library—Northwestern University Building, North Dearborn and West Lake Streets, Chicago. The Gary Library of Law was the gift of Elbert H. Gary of New York, N. Y. to Northwestern University Law School. It is open without charge to non-resident lawyers presenting satisfactory credentials. Resident lawyers, who are graduates of Northwestern University Law School are charged a registration fee of \$1 per year for the privilege of using the library; all other resident lawyers are charged a registration fee of \$4 a year. The library in 1922 contained about 56,000 volumes. Librarian, F. B. Crossley.

Loyola University Library—Loyola Avenue and Sheridan Road. The library of the college of arts of Loyola University contains 70,000 volumes for the use of the faculty and students, but it may be consulted by others on application to the librarian. Open from 8 a. m. to 5 p. m. Librarian, William T. Kane, S. J.

St. Ignace High School Library—1076 West Roosevelt Road. The library of the high school department of Loyola University contains about 10,000 volumes for the use of the students and faculty, but may be consulted by others on application to the librarian. Thos. J. Livingston, S. J.

Pullman Public Library—73 to 77 Arcade Building, 112th Street and Cottage Grove Avenue. Contains 13,000 volumes. Library open from 10 a. m. to 5:30 p. m. and in the evenings from 6:45 to 9 o'clock; also Sundays and holidays, and 2 to 6 p. m. Librarian, Bertha S. Ludlam.

Hammond Library—3757 University Avenue. The Hammond Library of the Chicago Theological Seminary contains over 30,000 volumes. It is intended for the use of the faculty and students of the Chicago Theological Seminary, but may be used by clergymen and others. The library is open on week days from Oct. 5 to Aug. 31, from 9 a. m. to 12 p. m. and from 1 to 5 p. m.; Saturdays, 9 a. m. to 12 p. m.; closed Sundays.

Virginia Library—826 Belden Avenue. The Virginia Library of the McCormick Theological Seminary contains about 50,000 volumes and is open every week day of the year, except legal holidays, not only to those immediately connected with the seminary but to others as well. The hours are 9 a. m. to 5 p. m. and 7:30 to 9:30 p. m. while the seminary is in session, and the same during the vacations with the exception of the evening hours and Saturday afternoons. Librarian, Rev. John F. Lyons.

Portland Cement Association Library—Room 1547 Conway Building, 111

West Washington Street. The library of the Portland Cement Association is a reference library on the literature of the cement industry. It contains some 2,500 books, 6,900 pamphlets, 5,700 mounted clippings and 8,400 lantern slides. The library is open from 8:30 a. m. to 5 p. m., except on Saturdays, when it closes at 1 o'clock. It is a free public reference library. Librarian, Pyrrha B. Sheffield.

Chicago Law Institute Library—1025 County Building, Acting Librarian, Alfred E. Bahr. The library contains about 69,000 volumes.

Children's Science Library—The Chicago Academy of Sciences, Lincoln Park, contains more than 500 volumes for children on natural history, including plants, animals, astronomy (geography and industries). The reading room is open from 9 a. m. to 5 p. m. each week day.

Fire Underwriters' Association Library—Room 2132, 175 West Jackson Blvd. The library of the Fire Underwriters' Association of the Northwest contains 4,500 bound volumes, containing information relative to fire insurance and allied subjects. Library open from 9 a. m. to 5 p. m., except Saturdays, when it is closed at 1 o'clock. The library of the Fire Insurance Club of Chicago, room 2132 Insurance Exchange Building, 175 West Jackson Blvd., contains 800 volumes on fire insurance. Hours same as above. Librarian, Emma L. Quackenbush.

Lombard Free Library—The Lombard Free Library contains more than 5,000 volumes. The librarian is Frank A. Warren.

Northwestern University Libraries—Evanston and Chicago. The Northwestern University Libraries contained approximately 219,448 bound volumes and 176,345 pamphlets July 1, 1922. The library in Evanston is open during the college year from 8 a. m. to 10 p. m. daily and from 7 to 10 p. m. except Sunday and during the summer vacation from 8 a. m. to 12 m. and from 1:30 to 5 p. m. The building is known as the Orrington Lunt Library. Other parts of the Northwestern University Libraries are located in Northwestern University Building, North Dearborn and West Lake Street, Chicago and in the Northwestern Medical School, 25th and South Dearborn Streets, Chicago. Librarian, Theodore Wesley Koch.

Western Society of Engineers—1735 Monadnock Block. The technical library maintained by this society contains about 10,000 volumes upon the subject of engineering. Members of the society may borrow books from the collection. Non-members may receive this privilege upon the deposit of a required amount. The library is open to the public from 9 a. m. to 5 p. m., (except Saturday, when the hours are from 9 a. m. to 4 p. m.) Secretary Edgar S. Nethercut; librarian, Laura M. Warner.

Garrett Biblical Institute Library—Evanston, Ill. This is a reference library of theology for the use of the faculty and students of the institute and neighboring clergymen, but open to the public October to September from 8 a. m. to 6 p. m. and from 7 to 10 p. m. Nov. 1, 1922, the library contained 90,253 volumes and 18,454 pamphlets. Librarian, Doremus

A. Hayes; assistant librarian in charge, Samuel G. Ayres.

National Safety Council Library and Information Bureau—Federal Life Building, 168 N. Michigan Avenue. The library of the National Safety Council is a working reference library specializing in safety literature. The library files contain interesting data on hundreds of specific questions on accident prevention, industrial relations and allied problems. The library is open to the public 8:30 to 5:30 p. m. daily, except at Saturday, when it closes at 1 p. m., and is closed on Sundays and legal holidays. Librarian, Mary B. Day.

Chicago's Art Institute is Best Equipped in America—Gives Chicago Leadership in Field of Art

Because of the Chicago Art Institute, its wonderful equipment and activities, Chicago is fast becoming known as the art center of the United States. The nearest competitor to the local institution in point of attendance is the Metropolitan Museum in New York. But by actual count Chicago's Art Institute has a larger attendance than the New York Museum as well as the largest sustaining membership.

All of Chicago's art life focuses in this building where collections, exhibitions and schools as well as libraries are assembled or held every year attracting thousands of art lovers from all over the middle west. The Art Institute was founded in May 24, 1879.

Its museum building on Michigan Blvd. was first occupied in the year 1894 and is open to the public every day from nine to six. Admission is free to members and their families at all times.

Millions of Visitors—Nearly a million and a quarter persons visit the Art Institute in a year, according to statistics in the annual reports of the trustees. But that is not the most interesting point concerning the Chicago art center, establishing as it does a record for more visitors than any museum in the country—1,224,894—but

it is said to perform the greatest art service in the country through its scores of temporary exhibits.

The convenient central location of the Art Institute in the second largest city of the country is undoubtedly the reason for its attendance being greater than that of any other museum in the United States. There are a number of art museums within a night's ride of Chicago, which own good museum buildings, but whose collections are not sufficient to fill them. There are also a number of museums occupying temporary quarters. These museums apply to the Art Institute from time to time for special exhibitions. They are able to pay the cost of transportation and installation, and simply wish the Art Institute to obtain the exhibitions and circulate them. There is also a great demand for lecturers.

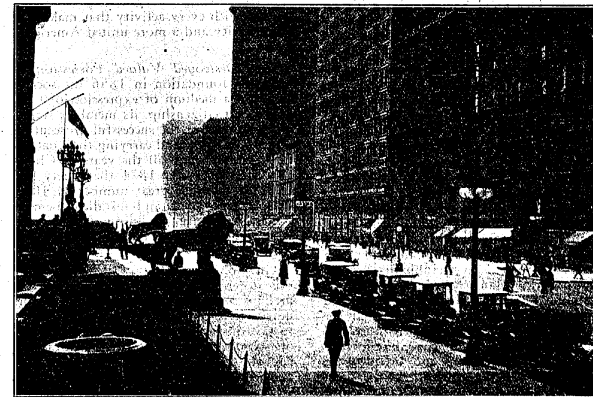
The Institute operates an Art School, a Department of Museum of Instructions, a Department of Prints, and others.

The School—The school of the Art Institute offers carefully planned courses of training for workers in the several arts, including drawing, printing, designing, illustration and for teachers of the arts. All students have ready access to the museum collections for research work.

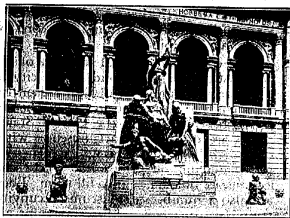
The school is conducted upon the most modern methods and has grown to be the most comprehensive and largest fine arts school in the United States. Distinguished teachers from a distance are called in from time to time. The faculty consists of 40 teachers not counting those of the Saturday classes.

In one year 4,520 students entered the regular day, night, summer and children's classes. Attendance in courses of the Museum Instruction Department of the Art Institute during the year totaled 15,222, an increase of 2,200 over the previous year.

One-fifth of the painters, sculptors, craftsmen and art teachers in the entire United States have received their training wholly or in part in the art school of the institute, and the percentage of graduates



Michigan Avenue looking south from Adams Street. The magnificent entrance to the Chicago Art Institute is shown at the left.



"Spirit of the Great Lakes" the famous sculpture by Lorado Taft, in Grant Park south of the Art Institute.

practicing some phase of art production as a profession has risen from 72 per cent in 1917 to 85 per cent in 1922.

Artists from New York City and various eastern states have expressed surprise at the achievements of the art school in the way of training students. The strong tendency to apply the principles of art to definite, concrete problems, such as the making of pottery, fabrics, toys, costumes and other practical objects, is already affecting the work of most of the art schools in this country. The school of the Art Institute leads all other art schools in the country in this particular.

The Museum—The Art Museum now ranks among the first three in the country. It contains excellent examples of the old masters and of the modern painters. There is also a large and comprehensive collection of sculpture, including reproductions of the work of the greatest sculptors ancient and modern. There is an extensive collection of architectural casts. Other fields of art are represented by collections of etchings, engravings, textiles, oriental art, Egyptian and classical antiquities, period rooms, etc. There is a constant succession of passing exhibitions, 60 or more a year. All students enjoy the full use of the collections and the libraries. The number of visitors to the museum during the year ended December 31, 1921, exceeded 1,000,000 not counting attendance of the students.

Chicago Historical Society—Rare Treasures Make Library and Museum One of the Bulwarks American Traditions

When Chicago was 19 years old as a city, that is, in 1856, a group of bankers, merchants, physicians and lawyers decided that Chicago should then begin to collect and preserve a record of her own history, of the states carved from the old Northwest Territory and of all America. Therefore, they banded themselves together under the name of the city which several of them had helped to organize as a village in 1833. Today these city fathers are perpetuated in school buildings and thoroughfares, although our children may not realize the historic significance of such names as Kinzie, Barry, Hubbard, Arnold, McCormick, Manierre, Ogdén, Skinner, Scamón, Ryerson, McCagg, Burley and Wentworth. This group made itself the city's center of culture and here were laid the deep foundations of the Chicago Historical Society, so deep and broad as to invite such a super-structure as the great Gunther collection of Americana which now awaits purchase.

When that well known citizen, Charles F. Gunther, died in 1920—and he had been for twenty years a director of the Historical Society—the latter took on the responsibility of administering his great collection of historical treasures and of paying to his estate \$150,000. Happy to say, \$60,000 has been raised by the Society and it is expected that a popular subscription will complete the fund. Meanwhile, Chicago is losing much of the advantage of the possession of these treasures because but a small portion can, by limitations of space, be exhibited at the home of the society.

Children's Museum of Americanism—What Chicago now has within its grasp is the complete establishment of a children's museum of Americanism. When the collection of the Chicago Historical Society shall have been amplified and enriched by possession of the Gunther treasures, Chicago and other western children need not journey to eastern centers of history and antiquarian study, but in our own great city can perfect their conceptions of Colonial and Revolutionary America. Indeed, for twenty years the Chicago Historical Society has been adapting its collections to the understanding of children, and today Washington and Lincoln and others of the nation's great seem to inhabit in their very personalities the halls of an institution which is one of the bulwarks of American traditions.

Constant and constructive are the activities of the society, embracing the publication of ten large volumes and over seventy lesser ones; historical lectures, an annual social function, current topic talks, children's lectures, Sunday afternoon talks on American ideals, Sunday suppers for soldiers during the war, hospitable reception of kindred clubs and societies, development of a rare library already comprising 100,000 volumes, manuscripts, pamphlets, etc., including a collection of early newspapers resorted to from all parts of the country, and of course an historical museum. The society also recognizes patriotic anniversaries and "Chicago Fire Day." Did the society have more ample support, being maintained entirely by membership dues and the interest of legacies, it could cooperate with every activity that makes for a better city and a more united Americanism.

Fire Destroyed Valued Possessions—From its foundation in 1856 the society has been a medium of expression of Chicago's best citizenship, its members standing foremost for the successful prosecution of the Civil War and carrying their patriotic service through all the years of Chicago's life story. By 1871 the society had collected the very great number of 100,000 volumes, etc., and installed them in a massive fireproof building at the northwest corner of Dearborn Avenue and West Ontario Street.

On Monday morning, October 9, 1871, this storehouse of treasures melted in the fire, its secretary, Colonel Samuel Stone, nearly losing his life in a fruitless effort to save its records and the most precious of its documents, the original draft of Lincoln's Emancipation Proclamation; and afterwards from the ashes there was recovered but one book and one relic, the former a handsomely bound edition of the

Psalms of David, and the latter an old Confederate sword. The ashes were not cold before John Wentworth had laid the foundation of a second collection by building up the files of the Democrat from copies solicited from beyond the fire region. Then came the fire of 1874, and such collections as had been made in the intervening time were swept away. Today the library and historical museum are what they are by virtue of its founders and conservators and the good will of an appreciative public, which will surely call in the near future for enlargement of the society's resources and not unlikely the relocation of its home.

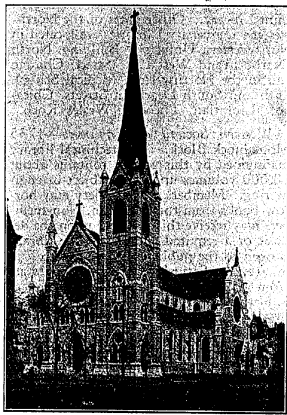
Chicago as a Center of Religion—Vast Number of Churches and Theological Luminaries Give Chicago Leading Position

Some one has computed that thirteen American states have fewer churches than the city of Chicago. This statement gives some idea of Chicago as a center of religion. But no one has ever determined how many millions of dollars are invested in the hundreds of churches, seminaries and other ecclesiastical buildings which are located in Chicago today.

There are some 1500 churches in the city. All types of church buildings are to be found in this list. There are plain, unpretentious missions, magnificent Catholic churches, handsome Jewish synagogues and stately Protestant churches.

A Church In the Loop—The most handsome combination church and office building in the world has been erected in the loop, marking a unique departure in church edifices. This is the church home of the First Methodist church whose building is located at Clark and Washington Streets in the heart of Chicago's busy loop. It has the distinction of being the only church building in the loop and will be the highest building in Chicago when completed.

Architecturally speaking, probably the most notable church edifice in Chicago is the Fourth Presbyterian, and the most



Holy Name Catholic Cathedral, one of the most imposing of Chicago's churches.

beautiful chapel or church of the Roman Communion is the Quigly Memorial preparatory seminary. In this connection should be mentioned the beautiful St. Mary of the Lake Roman Catholic Church on the North Side, dedicated by the Archbishop four years ago.

Lutheranism was founded in Chicago as long ago as 75 years, the pioneer community being that of the First St. Paul's Evangelical Lutheran church on the north side.

Of the inter-denominational churches, of which Chicago has not a few, a representative organization is Moody Church and Moody Bible Institute. Chicago has 16 Christian Science churches, two recently having been dedicated and free from debt. There are three Greek Catholic churches, the population to which they minister being about 25,000 and there is also a Russian Orthodox Church.

The Catholic Church has shown a notable development during the past few years. A recent census of its activities in Chicago is as follows:

| | |
|------------------------------|---------|
| Catholic Churches in Chicago | 227 |
| Diocesan priests | 643 |
| Priests of religious orders | 350 |
| Parochial schools | 202 |
| Pupils in parochial schools | 130,000 |
| High schools | 22 |
| Pupils in high schools | 2,172 |

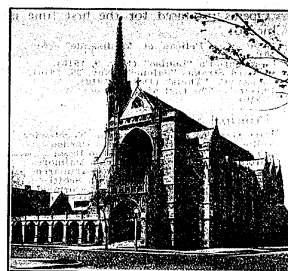
The above statistics measure only in part the development of the Catholic church in Chicago whose fundamental is religion, but whose activities reach out into education, charitable work, orphanages, hospitals, social work and civic betterment.

Chicago's Catholic population today is declared to be 1,200,000. In 1880 the diocese became archdiocese.

The Chicago Church Federation—Forming a co-operative working organization among the Protestant churches of the city, the Chicago Church Federation is a vital factor in the life of Protestant churches in Chicago. It is the means by which the city's Christian forces are co-ordinating their ministry to the moral welfare of Chicago.

The Federation is the union of 650 churches of 15 denominations including the Baptist, Church of the Brethren, Congregational, Disciples, Evangelical, Evangelical Lutheran, Friends, Methodist, Methodist Protestant, Presbyterian, Reformed Church of America, Reformed Church in the U. S., Reformed Episcopal, United Brethren and United Presbyterian.

The Chicago Church Federation is the agency designed to solve the problem of adequate co-operation among the Protestant churches of the Chicago area. The Board of Trustees which determines and directs the activities of the Federation is composed of 75 representatives of the co-operating organizations. These outstanding leaders of religious thought and action are officially delegated to represent their constituencies. The Federation represents 650 churches in action under joint auspices. Furthermore, monthly meetings of the ministers of these co-operating churches are held regularly to discuss and act upon vital moral and religious questions. The Federation is co-operating with the department of endorsements of the Association of Commerce in an effort to co-ordinate the various children's homes in the Chi-



Fourth Presbyterian Church, North Michigan Avenue and Delaware Place, one of the many pretentious of Chicago's present day church edifices.

ago area under some plan for a standardized program of work.

It is also co-operating actively in an effort to encourage the Chicago churches to organize some 200 Daily Vacation Bible Schools each year which affects the lives of 25,000 boys and girls of the city streets.

The Chicago Church Federation received a mandate from the churches to furnish adequate Protestant representation in the twenty-two municipal, county and state institutions.

The Protestant Churches are now represented through the Church Federation in 15 of these public institutions. Within the last five months 150 church contacts have been encouraged to make friendly contacts with 500 delinquent children and adults.

Still another evidence of the democratization of the Church Federation is the fact that once a year three lay representatives from each of the churches are appointed to represent the churches in an Assembly. The Assembly meets once a year.

For the most part the activities of the Federation are carried on by commissions, departments and committees, the personnel in each case being subject to the approval of the Board of Trustees. The two departments are the Woman's Department and the Young People's Department. Scores of Chicago's most representative citizens are freely giving time to these divisions of the work which if compensated in money would cost far more than the total budget of the Chicago Church Federation.

The thirteen commissions of the Federation which are active in promoting and supervising various types of work of the organization are as follows:

The Advisory Commission, Commission on the Church and Industry, Comity Commission, Commission on Daily Vacation Bible Schools, Commission on Evangelism, Commission on Political Action, Commission on Public Institutions, Commission on Publicity, Commission on Religious Education, Commission on Social and Civic Relations, Commission on State Constitution, World Friendship Commission, Commission on Young People's Societies and The Woman's Department.

Dr. Howard Agnew Johnston is president of the Federation and Walter R. Mee Executive Secretary.

Civic Institutions—Sunday Evening Club Factor in City's Religious Life

A non-sectarian organization, to whose religious services nearly 90,000 people are attracted each year is the Sunday Evening Club of Chicago the sponsors of which are the business men of Chicago.

The Club conducts a meeting each Sunday night in Orchestra Hall and last year these meetings averaged 2,600.

These popular non-sectarian meetings, which have been described with such adjectives as "stimulating," "stirring," "business like" and "modern" but never as "undignified" or "slow," are held in Orchestra Hall, downtown in the famed loop district, in the heart of the amusement section and in direct competition with movies and theaters, every Sunday night from October to June, and offer a varied program of speakers and musical features which, it is claimed, is unexcelled in this country.

Although the speakers are well known public men, drawn from every walk of life—statesmen like Charles Evans Hughes, Gov. Charles E. Milliken of Maine, Joseph Daniels, Thomas R. Marshall, and James R. Garfield; writers like Henry VanDyke, Hugh Black, Hamilton Wright Mabie, Norman Haggood and Hamilton Holt; religious leaders like Robert E. Speer, Ballington Booth, Rabbi Stephen S. Wise, Edward A. Steiner, Fred B. Smith, S. Parkes Cadman and Russell Conwell; noted editors, sociologists, educators, international leaders and prominent national business men—each one gives a strictly "religious" talk, often based on his own experience, and designed to follow the man into the street, the workshop, office, homes or factory, and help him in his daily living. There is a different speaker every Sunday night.

The music is provided by a chorus of one hundred specially trained singers, with a quartette of the city's best known artists, and the great Orchestra Hall organ. The singers, under the direction of Edgar Nelson, comprise one of the best choral organizations in this country.

The Club makes a special appeal to the stranger in the city, the traveling salesman staying over Sunday, those who live in the downtown hotels and boarding houses, and to all those without church affiliation. Thousands of dollars are spent every year to reach these classes by advertising in hotels, newspapers, railway stations and the like.

While admission is free and all are invited, it is well to come early for many times before the doors are opened, at 6:30 a waiting line is found on the street outside the hall.

Some of the interesting speakers, in addition to those before mentioned, who have appeared on the platform of the Sunday Evening Club during the sixteen years it has been in existence are as follows:

Statesmen: William Howard Taft, Henry J. Allen, William Jennings Bryan, Gifford Pinchot, Albert J. Beveridge, Religious Leaders: Newell Dwight Hillis, Lyman Abbott, Thomas F. Gailor, William F. McDowell, Dean Charles E. Brown of Yale, Harry Emerson Fosdick, Archbishop of York. Writers: Raymond B. Fosdick, Samuel McChord Crothers, Jane Addams. From other lands: Sir Char-

les Wakefield; Lord Mayor of London, General Robert Nivelle, France; Madam Vandervelde, Belgium; Howard S. Bliss, Syria; Baron d'Estournelles de Constant, France, and Robert J. Patterson, Ireland.

Chicago Excels as Music Center—Many Schools Attract Large Number of Students

Chicago's name has been linked so many times with big business, industry and finance that the world has sometimes lost sight of this city's prominence and leadership in the musical world. As a matter of fact Chicago has been one of the vocal points in the musical activities of the Mississippi Valley as well as the natural center in this respect for the United States. Some idea of the manner in which Chicago has taken up activities in the musical world is given in the estimate that the people of this city spend each year something more than \$20,000,000 for their music.

Music in Chicago is on a standard with the varied needs and the scale required in a large growing city. The city has its own opera, its own orchestra and choral societies without number. Moreover, every artist of any fame or distinction visits the city and it is not unusual during the winter season to find that anywhere from six to a dozen famous musicians are giving concerts here over one week end.

Chicago's pre-eminence in the musical world is aided by the fact that it has within its confines two largest music schools in the land to say nothing of dozens of smaller schools and scores of private teachers who are training the coming generation.

The Chicago Symphony Orchestra—The Chicago Symphony Orchestra founded more than a quarter of a century ago by Theodore Thomas has long been considered as one of the foremost orchestras in the world.

Chicago Civic Opera—The Chicago Civic Opera is the only organization of its kind in the world.

Chicago's Civic Opera Association—It was known until 1915 as the Chicago Grand Opera Company and from then until 1922 as the Chicago Opera Association. It was established in 1910 by a number of citizens of Chicago and New York, who organized with a capital of \$500,000, of which \$300,000 was subscribed in Chicago and the remainder in the east. The Auditorium was leased, important alterations were made and the first performance by the new company was given there in November, 1910. The officers then were:

- President—Harold F. McCormick.
 - Vice-Presidents—Charles G. Dawes and Otto H. Kahn.
 - Treasurer—Charles L. Hutchinson.
 - Secretary—Philip M. Lyell.
 - Chairman Executive Committee—Clarence H. Mackay.
 - Vice-Chairman Executive Committee—John C. Shaffer.
- Directors—The above named officers and Robert Goetzl, Frederick T. Haskell, John J. Mitchell, Ira N. Morris, LaVerne W. Noyes, Max Park, Julius Rosenwald, John G. Shedd, Charles A. Stevens, Harry Payne Whitson, H. Rogers Withnough.
- General Manager—Adrian Dippel.

General Musical Director—Cleofonte Campanini.

Business Manager—Bernhard Ullrich.

First Season (1910-1911)
Opening performance ("Aida") given Nov. 1, 1910.
First season ended Jan. 15, 1911.
Receipts, \$100,077.50.

Operas produced for the first time in Chicago:

Debussy's "Pelleas et Melisande" (Nov. 6, 1910).
Carpenter's "Louise" (Nov. 9, 1910).
Richard Strauss "Salome" (Nov. 25, 1910).
Massenet's "Thais" (Dec. 8, 1910).
Puccini's "The Girl of the Golden West" (Dec. 27, 1910).

Principal Singers:

- | | |
|----------------------|-------------------|
| Mary Garden | Joanne Korolowicz |
| Nellie Melba | Enrico Caruso |
| Geraldine Farrar | Amadeo Bassi |
| Lillian Greenville | Charles Dalmores |
| Caroline White | Mario Sammarco |
| Marguerita Sylva | Antonio Scotti |
| Suzanne Daness | John McCormack |
| Jane Osborn-Hannah | Hector Dufrane |
| Eleanora de Cisneros | Johanna Gadski |

Second Season (1911-1912)

Opening performance ("Samson et Dalila") Nov. 22, 1911.
Second season ended Jan. 27, 1912.
Receipts, \$471,600.98.

Operas produced for first time in Chicago:

Massenet's "Cendrillon" (Nov. 27, 1911).
Volf-Perrari's "Il Segreto di Susanne" (first time in the United States) (Dec. 7, 1911).
Johan "Le Jongleur de Notre Dame" (Dec. 7, 1911).
Victor Herbert's "Satanstoe" (Dec. 15, 1911).
Jean Serruys' "Quo Vadis" (Dec. 20, 1911).
Wolf-Perrari's "The Jewels of the Madonna" (Jan. 16, 1912).

Principal Singers:

- | | |
|-----------------------|----------------------|
| Mary Garden | Marta Witkowska |
| Luisa Tetrazzini | Eleanora de Cisneros |
| Mme. Schumann-Heink | Agnes Barry |
| Jonny Dufau | Mabel Ringheim |
| Alce Zepilli | Henri Scott |
| Rosina Galli | Hector Dufrane |
| Claraamad | Mario Sammarco |
| Maggie Tevte | Amadeo Bassi |
| Jane Osborn-Hannah | George Hamlin |
| Joanne Corvillo-Beach | Clarence Whitthill |
| Carolina White | John McCormack |

Third Season (1912-1913)

Opening performance ("Manon Lescaut") Nov. 29, 1912.
Third season ended Feb. 1, 1913.
Receipts for ten weeks, \$508,000.

Operas produced for the first time in Chicago:

Erlanger's "Noel" (first time in the United States) (Jan. 2, 1913).
Zandonini's "Concetta" (Jan. 30, 1913).

Principal Singers:

- | | |
|--------------------------|----------------------|
| Mary Garden | Mabel Ringheim |
| Luisa Tetrazzini | Carolina White |
| Maggie Tevte | Eleanora de Cisneros |
| Alce Zepilli | Titina Rufo |
| Lillian Greenville | Mario Sammarco |
| Jane Osborn-Hannah | Charles Dalmores |
| Ernestino Schumann-Heink | Henri Scott |
| Louis Bonat | *Guest artists. |
| Jonny Dufau | |

Fourth Season (1913-1914)

Opening performance ("La Tosca") Nov. 25, 1913.
Fourth season ended Jan. 31, 1914.

Operas produced for the first time in Chicago:

Massenet's "Don Quichotte" (Nov. 25, 1913).
Albert Franchetti's "Christophe Colomb" (Dec. 1913).
Wilhelm Kienzl's "Lo Ranz des Vaches" (Dec. 30, 1913).
Leoncavallo's "Zingari" (Dec. 31, 1913).

Principal Singers:

- | | |
|--------------------------|----------------------|
| Mary Garden | Frances Alda |
| Carolina White | Jane Osborn-Hannah |
| Mabel Ringheim | Nellie Melba |
| Julia Claussen | Mario Sammarco |
| Jonny Dufau | Charles Dalmores |
| Alce Zepilli | Giuseppe Stancanelli |
| Maggie Tevte | Henri Scott |
| Mme. Schumann-Heink | Lucien Muratore |
| Ernestino Schumann-Heink | Clarence Whitthill |
| Stevens | George Hamlin |
| Ernestino Schumann-Heink | |
| Freda Hempel | *Guest artists. |
| Hector Dufrane | |

Fifth Season (1915-1916)

Owing to the war in Europe no performances were given by the Chicago Grand Opera Company during the season of 1914-15. The organization went into liquidation and was reorganized, taking the name Chicago Opera Association. Cleofonte Campanini made the necessary ar-

rangements for artists and the performance of operas was resumed in November, 1915.

15, 1915.
Opening performance ("La Gioconda") Nov. 15th season ended Jan. 22, 1916.

Operas produced for the first time in Chicago:

Saint-Saens' "Dejanire" (Dec. 9, 1915).
Massenet's "Cleopatra" (Jan. 10, 1916).
Buccholti's "A Lover's Knot" (Jan. 15, 1916).
Leoncavallo's "Zaza" (Jan. 17, 1916).

Principal Singers:

- | | |
|--------------------------|----------------------|
| Ermy Destinn | John McCormack |
| Marguerite Beriza | Eleanora de Cisneros |
| Florence Macbeth | Geraldine Farrar |
| Nellie Melba | Olive Fremstad |
| Maria Vandresser | Lucien Muratore |
| Julia Claussen | Hector Dufrane |
| Ernestine Schumann-Heink | Charles Dalmores |
| | Clarence Whitthill |

Sixth Season (1916-1917)

Opening performance ("Aida") Nov. 13, 1916.
Sixth season ended Jan. 22, 1917.

Operas produced for the first time in Chicago:

Zandonini's "Francesca da Rimini" (Jan. 8, 1917).
Massenet's "Griseidide" (Jan. 12, 1917).
Gounsbourg's "The Old Eagle" (Jan. 20, 1917).

Principal Singers:

- | | |
|---------------------|------------------|
| Amelita Galli-Curel | Lucien Muratore |
| Mary Garden | Hector Dufrane |
| Frances Alda | Charles Dalmores |
| Geraldine Farrar | Charles Dalmores |
| Julia Claussen | Francesco Daddi |
| Maria Claussen | |

The conductors were Cleofonte Campanini and Marcel Charlier.

Seventh Season (1917-1918)

Opening performance ("Iseabau") Nov. 12, 1917.
Seventh season ended Jan. 19, 1918.

Operas produced for the first time in Chicago:

Massogni's "Iseabau" (Nov. 12, 1917).
Hadley's "Azora" (Dec. 26, 1917).
Seyin's "A Daughter of the Forest" (Jan. 5, 1918).
Massenet's "Sapho" (Jan. 10, 1918).
Lazzari's "Le Sautier" (first performance anywhere) (Jan. 19, 1918).

Principal Singers:

- | | |
|---------------------|--------------------|
| Amelita Galli-Curel | Hector Dufrane |
| Rosa Raisa | Giulio Crimi |
| Mary Garden | Giuseppe Rimini |
| Genevieve Vix | Charles Baklanoff |
| Carollina Lazzari | John McCormack |
| Margery Maxwell | Gustave Hildebrand |
| Francesca Ferrala | Celove Dua |
| Lucien Muratore | Alfred Maguenet |
| | James Goddard |

The conductors were Cleofonte Campanini and Marcel Charlier.

Eighth Season (1918-1919)

Opening performance ("La Traviata") (Nov. 18, 1918).
Eighth season ended Jan. 25, 1919.

Operas produced for the first time in Chicago:

Fevrier's "Gismonda" (Jan. 14, 1919).
Catalani's "Lorely" (Jan. 17, 1919).
Richard's "Le Chaminou" (Jan. 23, 1919).

Principal Singers:

- | | |
|---------------------|------------------|
| Amelita Galli-Curel | Yvonne Gall |
| Rosa Raisa | John O'Sullivan |
| Mary Garden | Alessandro Dolei |
| Guido Ciomini | Lucien Muratore |
| Riccardo Stracciari | Marcel Journet |

The conductors were Cleofonte Campanini, Marcel Charlier and Louis Hasselmanns.

Ninth Season (1919-1920)

Opening performance ("La Nave") Nov. 18, 1919.
Ninth season ended Jan. 24, 1920.

Operas produced for the first time in Chicago:

Montemezzis' "La Nave" (Nov. 18, 1919).
Dukovoni's "The Van Winkle" (Jan. 9, 1920).
Bewet's "L'Heure Espagnole" (Jan. 9, 1920).
Messner's "Madam Chrysantheme" (Jan. 18, 1920).

Principal Singers:
Amelita Galli-Curel
Rosa Raisa
Mary Garden
Borghild Langard
Nina Morgana

Titina Rufo
Edward Johnson
Carlo Galem
Tamaki Miura

Cleofonte Campanini, conductor and general director of the Chicago Opera, died Dec. 19, 1919. He was succeeded by Gino Marinuzzi.

Tenth Season (1920-1921)
Opening performance ("Jacquerte") Nov. 17, 1920.
Season ended Jan. 22, 1921.

Operas produced for the first time in Chicago:

Marinuzzi's "Jacquerte" (Nov. 17, 1920).
Leoncavallo's "Edipo re" (Dec. 15, 1920, world premiere).
Erlanger's "Atridiate" (Dec. 31, 1920).

Principal Singers:

- | | |
|---------------------|--------------------|
| Rosa Raisa | Titina Rufo |
| Amelita Galli-Curel | Edward Johnson |
| Mary Garden | Charles Marshall |
| Yvonne Gall | Alessandro Dolei |
| Rosa Storchio | Giuseppe Baklanoff |
| Florence Macbeth | Hector Dufrane |
| Margery Maxwell | Desire Defreere |

Conductors: Gino Marinuzzi, Henri Morin and Pietro Cimini.

Eleventh Season (1921-1922)
General Director—Mary Garden.
Business Manager—George M. Spangler.

Officers, 1921-1922

- President—Harold F. McCormick.
- Vice-President—Charles G. Dawes.
- Secretary—Stanley Field.
- Treasurer—Charles L. Hutchinson.
- Executive Committee—Charles G. Dawes, chairman; R. T. Crane, Jr., Stanley Field, Samuel Insull, Harold F. McCormick, John J. Mitchell, Frank I. Stout, Edward F. Swift.
- Board of Directors—Robert Alton, Giulio Bolognini, E. T. Crane, Jr., Charles G. Dawes, Stanley Field, E. R. Graham, Charles L. Hutchinson, Samuel Insull, S. G. Kaufman, L. E. Kuppenbender, Cyrus H. McCormick, Harold F. McCormick, John J. Mitchell, Max Pam, Martin A. Byerston, John G. Shedd, Frank D. Stout, Edward F. Swift.
- Conductors—Giorgio Polacco, Adolfo Ferrari, Pietro Cimini and Gabriel Grovier.

Among the other leading and active musical organizations in the city may be mentioned the following:

The Apollo Musical Club
Chicago Mendelssohn Club
The Chicago Band Association and The Woman's Band.

Chicago's extraordinary advantages in musical education rests for the most part upon its wonderful schools and conservatories of music. There are scores of these which enroll thousands of students every year. A complete record of the schools in this class are enumerated in the classified business section of this directory.

Americanization Work Among Chicago's Foreign Born Workers—Extensive Program Being Carried On

The Chicago Association of Commerce, the Young Men's Christian Association and other organizations are active in Americanization work among Chicago's foreign born population. The need for this work is vital.

Chicago, as a great industrial magnet, draws the individuals that comprise its working masses from almost every country on the globe, the great majority coming, of course, from the various countries, or, more strictly speaking, from the various races of Europe. They come, moreover, in such numbers and they cling together so clannishly once they are here, that there exists in this city today foreign communities, socially complete in themselves, that are more populous than many

towns in the land from which these workers come. With fellow countrymen with whom to work, with fellow countrymen to sell them all they eat, wear and read, there is no incentive to change their language, their viewpoint or their interests.

That is why the Americanization work of the various organizations was inaugurated and is being carried on vigorously in every section of the city, where need for it exists. It is meeting with remarkable success, a success that includes both the men who are being educated in our citizenship and language as well as the country for participation in whose national life these men are being fitted.

Taking Out Citizenship Papers—Of 743,803 foreign-born white residents in Chicago over half, or 214,854 men and 192,341 women, 20 years or over, have taken out citizenship papers, according to the census reports of 1920. There are 96,682 men and 6,000 women who are in possession of first papers only and are not determined at this time for 17,163 men and 20,946 women.

The Americanization work of the association is carried on by its committee on Americanization with the invaluable cooperation and assistance of the Board of Education and the many employers in whose plants classes are held. The first meeting was held July 16, 1918 and since then the work has gone on steadily.

Board of Education Co-operates—The teachers are all supplied by the Board of Education. All classes are held in the plants where the men are employed, the employers supplying the class room, and in some instances allowing the men to attend during their working hours on all or part company time. Classes are also being held for employes in hotels and office buildings. Civics and English are taught, the latter by means of a specially prepared text-book, "A First Book in English for Non-English Speaking Adults."

Every effort is made to get these workers to grasp the American point of view, to realize the benefits and responsibilities of American citizenship, and to assist them to become citizens of the country which has so much more to give them than the old home land which generally exacted so much and granted little.

Editors of foreign language newspapers have co-operated heartily in publishing articles and editorials on the subject of Americanization, urging readers to attend classes and giving class locations as well as printing specially written patriotic articles sent them by the association. Frequent conferences have been held with these editors and members of the committee, which have been productive of much good.

A feature of the class work is the citizenship exercises at which time the men who have attended class a certain length of time are presented with a citizenship class pin, which distinguishes the wearer as being "100 per cent United States."

Clubs Are Vital Part of Chicago's Life—Form Intimate Feature of the City

From the noon-day luncheon club to the exclusive business men's club in its own building there is a wide variety of

organizations in Chicago which come under the classification of clubs. They are an intimate feature of Chicago's daily life and you find them not only in the heart of the loop district but scattered all over the city.

Here are clubs of exclusiveness whose members are only men of settled position and wealth, clubs to which if you wish to get membership you must join a long line of applicants. Some of these clubs occupy buildings which are an honor to the city. Chicago is the home of one club considered by many to be one of the most unique organizations in the world. This is the Adventurers Club, a most exclusive organization made up of big game hunters, scientists, world adventurers and others who have poked into the out of way places of the world. There are only three other chapters of this club in the world, one of them being located in Burma, India. Then there are athletic clubs, Italian Clubs, French Clubs, Polish Clubs, Norwegian Clubs and hundreds of others not to mention such admirable and substantial organizations such as the Union League Club, the University Club, Chicago Athletic Club, Illinois Athletic Club, The City Club and other organizations of that type.

Women are prominent in Chicago club life and busy themselves in matters of art and literature, home making or social affairs or in matters of public good, as well as in their professions. The Chicago Woman's Club is the oldest of these clubs for women, as it was founded in 1876. Then there is the Women's City Club, the Fortnightly Club, the Eleanor Clubs, Colonial Dames and dozens of others all of which contribute to the club life of Chicago.

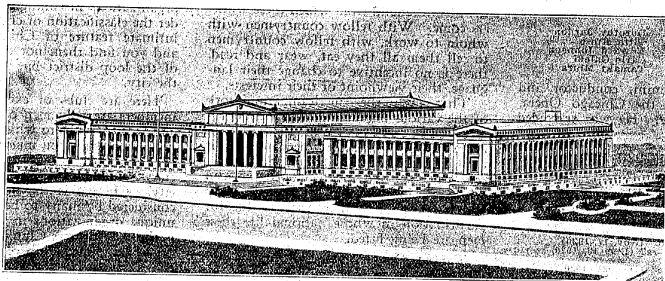
A complete roster of the clubs in Chicago are enumerated in the Miscellaneous Section of this Directory.

Chicago Has Finest Museum in the World—Field Museum is Housed in Great Marble Building

In the Field Museum of Natural History, Chicago has not only an incomparable scientific institution but also a great marble building which is considered to be an architectural gem as the giant building which houses the natural history collections was erected at a cost approaching \$7,000,000.

The history of the Field Museum dates back to the time of the World's Columbian Exposition.

Founded In 1893—Founded as the "Columbian Museum," in 1893 to preserve intact the many valuable collections brought together for this exposition, the name was almost immediately changed to "Field Columbian Museum," in recognition of the munificent gift of one million dollars by the pre-eminent Chicago Booster, Marshall Field. On his death in 1906 the further princely sum of eight millions of dollars was willed to the institution—which by that time had again changed its name to its present form—half to be devoted to the already promised new building, the balance to be applied to maintenance. Plans were immediately drawn up by the well-known firm of architects, Graham, Anderson, Probst &



The new Field Museum, a beautiful structure of white Georgia marble, classic in design and massive in proportion. The main architectural motives of the building were inspired by the Erechtheum, one of the noted temples of the Acropolis group in Athens, and generally recognized as the most refined example of the Ionic order.

White, the site was at last chosen and construction begun in 1915, and the moving actually accomplished in 1920. This in itself was an herculean task and admirably handled. A spur track was laid from the Illinois Central tracks to both buildings and the bulk of the transfer done by freight cars. Over three hundred cars were loaded and unloaded, as well as three hundred and fifty motor truck loads. When it is understood that the majority of the exhibition cases had to be dismantled, the contents packed in boxes and crates and re-installed in the new building, the opening of the museum in less than a year from the time of removal must be hailed as an extraordinary accomplishment.

Is "Largest Marble Building"—The visitor who approaches the main entrance of the building from Grant Park to the north is at once struck by the beauty of the classic Ionic Greek lines. The great white marble temple stands out serenely against the blue horizon of the lake as must the Parthenon have done in the days when Greece was in her glory and only when Greece was in her glory and only when the Indian hunter ruffled the waters of Lake Michigan. A great marble terrace, as yet unfinished, will surround the edifice to a width of fifty feet, giving an appearance of added height to the structure. The building itself is of white Georgia marble, 700 feet in length by 350 in width and 80 in height, covering eleven acres of ground. The cost approaches \$7,000,000, producing an edifice with the popular reputation of "the largest marble building in the world," and certainly incomparably the finest museum building.

Entering through the ornamental bronze portals, the visitor finds himself in the main hall, the architectural gem of the entire edifice, the great Stanley Field Hall, so named in honor of the president of the institution. The pen of the prosaic scientist is impotent before the task of describing the pure beauty of this masterful conception; it must be seen to be appreciated. The pure white walls with their great arches and ornamental medallions rise clear to the roof at the height of 75 feet. Extending the entire width of the building, this great hall measures 300 feet in length by 70 in width. Four sculptured figures of classic type look down from the corners of the second floor. Six orna-

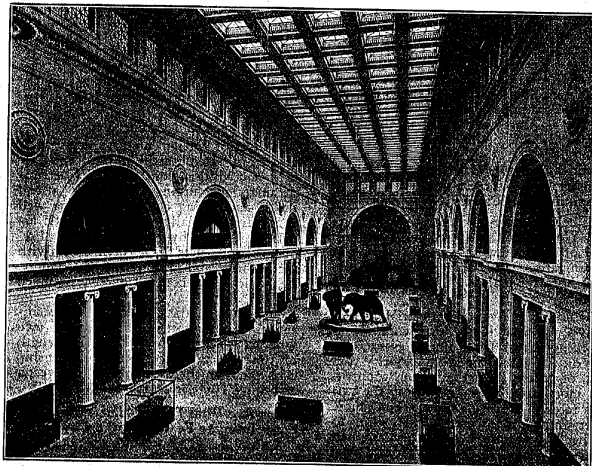
mental chandeliers afford ample illumination at night.

Exhibits Are Comprehensive—The exhibits installed in Stanley Field Hall are arranged with the aim of giving a comprehensive and synoptic view of all the activities of the museum. The dominant features are the great group of fighting elephants and the Chinese honorary gateway. Along the sides and down the center are seen cases containing representative exhibits from the four scientific departments. A Roman bath tub, carvings in jade, American Indian goldwork, basketry and costume, Navajo blankets, exhibits of amber, crystals and minerals, small animal groups, lifelike reproductions of plants in glass and wax, a meteorite, specimens illustrating the extinct life of the past, all collaborate in giving an impression of the many varied activities of the institution.

Thirty smaller halls, none less than 35 by 200 feet, compose the exhibition area. Roughly speaking, these are divided into

four sections to east or west of Stanley Field Hall on the first and second floors, each section being allotted to one of the scientific departments. On either side of the great central hall on the first floor is a large parallel hall of unusual size and at the extreme ends of the east and west wings are similar halls. Connecting these are seven transverse halls on either side, a total of eighteen halls on the first floor. On the second floor are found the four large halls paralleling Stanley Field Hall, but the transverse halls alternate with light wells, reducing the number to three in either wing—a total, therefore, of twelve halls. There are, moreover, eight smaller rooms on the two floors, but of these only three are available for exhibition purposes, the others being given over to offices and libraries.

Offices, Workrooms and Libraries—The third floor is devoted to the offices, workrooms, libraries and lecture halls for the scientific staff, and the ground floor to



Interior view of the Field Museum.

workrooms and storerooms. Several exceptions must be taken to the latter statement, however. In the west end of the ground floor is found the auditorium, the "James Simpson Theater," so named in honor of the respected associate of Marshall Field, who presented the funds needed for its installation and equipment. A part of the Egyptian exhibit is also to be found on the ground floor, and from time to time it is expected that other collections may be displayed in rooms there.

But the real worth of an institution lies, naturally, not so much in its marble exterior nor its spacious halls, as in the value of the collections therein exhibited. Let us now take a hasty survey of the thirty halls of this wonderland.

The Anthropological Collections—The anthropological collections are found mainly in the nine halls on the first floor of the east wing, but also extend to the two halls paralleling Stanley Field Hall on the second floor. In these eleven halls are displayed the exhibits illustrating "Man, Past and Present." Here one may see the wonderful handicraft of ancient Egypt, Greece and Rome as well as the different, though none the less interesting, work of the Aztecs, Toltecs, Mayas, Peruvians and the other ancient nations of the New World. The life and culture of all the present peoples of the world is here displayed as in an open illustrated book, from that of the most savage denizen of the New Guinea forests, the African jungles and the great plains of our own country, to the fascinating civilizations of China, India and Japan. The collections from the North American Indians, the Melanesian Pacific Islands, the Philippines and China are particularly strong. Several of these halls are named for benefactors of the institution and the department, Edward E. Ayer, Mary D. Sturges, Joseph N. Field and Frank W. Gunsaulus. The latter is in one of the smaller rooms and contains principally the donor's collection of Japanese art.

The Zoological Exhibits—The nine halls of the west wing on the first floor contain the zoological exhibits, illustrating the animal life of the world from the lowliest protozoan and mollusc to the highest ape. The wonderful perfection of the taxidermist's art is well exemplified in the beautiful naturalistic mountings of the animals, and in particular the life-like groups showing the animals in their native habitat and environment. Many of these have painted backgrounds which blend so perfectly with the foreground as to give a perfect illusion of nature. The groups of African game animals, American game animals and birds merit special mention. One of these halls is named in honor of George M. Pullman.

On the second floor, the five east halls are devoted to the botanical collections. The visitor could spend days poring over these intensely interesting cases, illustrative of the plant life of the world. Two phases of this department are especially worthy of note—the economic botanical collections illustrating the origin, manufacture and use of all products of botanical origin which are of economic importance, while in the latter are displayed not only the plants themselves, but the most wonderful lifelike reproductions of plant

life, made of glass and wax in the laboratories of the department. Frequently, enlarged reproductions of the flower or other parts which are of peculiar scientific interest are displayed.

Geological Collections Occupy Five Halls—The geological collections are exhibited in the five halls to the west on the second floor. Here are displayed all the inorganic products of the world—crystals, minerals, ores, rocks, sands, clays, petroleum, meteorites. One hall is largely devoted to relief maps illustrative of the changes in the earth's surface. Another is named for the late honored director of the institution—Frederick J. V. Skiff—who missed seeing the completion of his life's work by but a few months. The collection of meteorites, one of the finest in the world, is of exceptional importance. But probably the collection of maximum public interest is found in the great hall of historical geology and palaeontology. Here is exhibited in historical sequence the development of life in the world from the earliest Cambrian protozoa to the pleistocene mammals. The most striking specimens are those of the enormous dinosaurs. In Higinbotham Hall, one of the smaller rooms, are housed the valuable collections of gems and jewelry.

Space will not permit us to mention the many other varied interests of the Museum apart from exhibitions—expeditions for the gathering of scientific data, publications of scientific research by members of the staff, lectures, the N. W. Harris Public School Extension, and similar activities. The museum is open to the public from 10:00 A. M. to 4:00 P. M. every day in the year except Christmas and Thanksgiving. Sundays, Thursdays and Saturdays will be free days. Residents of Chicago would do well not to attempt to "do" the entire museum—or even one department—in one day, but should rather plan to make many visits, studying the collections gradually at their leisure.

Chicago's Welfare Work Administered Wisely—Big Field Covered by Many Agencies

The field of social welfare and philanthropy has not been neglected in Chicago by either private or public agencies. Efficient results have been attained in many branches among which may be mentioned: Civic Betterment, Special Education, Child Welfare, Moral Reform, Homes, Medical Aid, Relief, Neighborhood Work, and Charitable Employment Offices. In ten years Chicago's charitable organizations, accepting the standardizing and coordinating service of the Subscriptions Investigations Committee of The Chicago Association of Commerce, have shown a steady and remarkable growth, and today 220 organizations, practically all of Chicago's organized charitable, philanthropic and civic organizations, conform to certain business principles and seek popular support in accordance with methods defined by this committee.

Management in Hands of Business Men—The management of the vast network of charitable and philanthropic bodies is coming into the hands of capable business men and women who are devoting far

more time and feeling to these obligations of an organized society than at any previous time. Executive heads of these relief organizations, charitable and philanthropic, take a personal interest in sound methods of administration, and expert public accountants scrutinize institutional finances and prepare an annual report and balance sheet for practically all of the charities of Chicago.

Civic Betterment—Some twenty important clubs in Chicago are concerned with civic betterment. These are working for better housing conditions, abatement of nuisances, promotion of efficiency in local government, and betterment of philanthropic, reform and sanitary matters.

Child Welfare—Child welfare occupies the time of many organizations in Chicago. Clubs for boys and girls, day nurseries, and special institutions for placing children in families are a few of these organizations' activities. These are scattered throughout the city and include the Child Study Department of the Chicago Board of Education, caring for children requiring special attention; the Chicago Daily News Fresh Air Fund, providing for sick babies and giving them fresh air, sanitation, milk, food and follow-up treatment with care at homes; the Division of Children's Institutions, Cook County Bureau of Welfare, investigating condition of families of dependent children who have been committed to public institutions by the Juvenile Court; the Elizabeth McCormick Memorial Fund, working to improve conditions of children in the United States, and especially in Chicago; the Infant Welfare Society, instructing mothers in the care and feeding of their infants—a free institution with twenty-two stations in the city; and the Off-the-Street Club, to promote child training and wise comradeships of children, with instruction and amusement; the Juvenile Protective Association, suppressing and eliminating conditions causing delinquency among children, and promoting wholesome conditions for their betterment; the Dependent Children's Department of the Juvenile Court, in charge of dependent children on probation and delinquent girls on probation; the Public Defenders' Association of the Boys' Court, which provides free counsel for all hearings in that court; the Public Guardian of Cook County, acting for minors; and the Society of St. Vincent de Paul of Chicago, providing proper care for neglected and dependent Catholic children.

Clubs for Boys and Girls—Chicago has a wealth of such clubs which concern themselves with the welfare of adolescent boys and girls. Many of these clubs maintain large and well-equipped buildings and large staffs of workers. This is especially true of some clubs located in the poorer sections of the city. The Chicago Boy Scouts of America organizes and supervises boys scout troops and is active in teaching youngsters the essentials of good citizenship, Americanism and clean living. Churches are also active.

The Young Men's Christian Association conducts an extensive and varied program for boys. This includes gymnasium work, social activities, relief, cultural and

other forms of work. Attention is given to employed and under-privileged boys as well as those who can afford full membership in the organization.

Then there are settlement houses, playgrounds, summer camps, Chicago Boys' Clubs with their extensive program to promote moral, mental and physical betterment of street boys; The Hull House Boys' department, and many others.

The Juvenile Court—Among the governmental agencies which are doing an excellent work among boys and girls may be mentioned the Juvenile Court. The jurisdiction of the court extends to cases brought before it under the act to regulate treatment and control of delinquent, dependent and neglected children. When the parents are sober and decent, but too poor to care properly for their children, the problem is purely one of securing aid, either in their own homes (Funds to Parents) or in institutions, as seems best. When neglect is found, as in cases where there is degradation, drunkenness, or immorality, the decision is again a judicial function, and the children are removed from the custody of the parents and com-

mitted to institutions as a measure of discipline and precaution. In addition, to dependent and delinquent children, those found to be habitual truants or incorrigible in school are brought before the Juvenile Court to be committed to the Chicago Parental School. This work is carried on as an aid to the city's educational authorities.

In this work the City of Chicago and the County of Cook are pioneers. The court as organized includes a judge, assistant judge, a chief probation officer, an assistant probation officer, and heads of various departments. There are 81 county probation officers and 63 city police probation officers. On different days there are heard pension, truant, delinquent girl and delinquent boy cases.

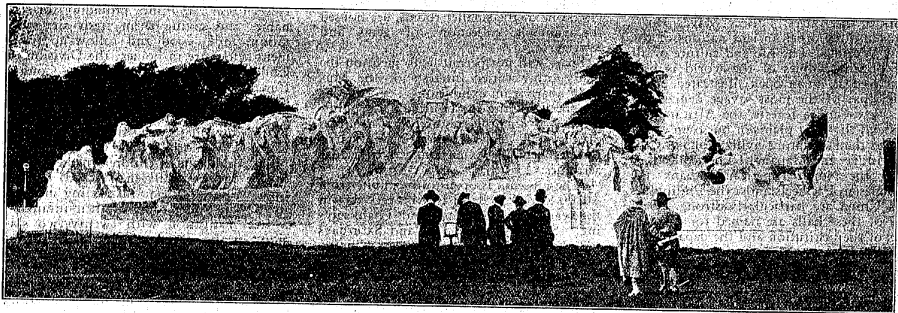
Central Council of Social Agencies—As the latest progressive step in philanthropic service there has come into existence the Central Council of Social Agencies, with purpose to promote the highest possible degree of co-operation among the city's philanthropic societies. The cooperation of the council and the aforesaid

committee of business men working in harmony has brought about a closer correlation of the work of the charitable bodies and has prevented much superfluous and costly effort.

In viewing philanthropic work in Chicago it is found that over four hundred organizations and agencies, not including their adjuncts, are engaged in systematic efforts for the betterment of human conditions through benevolent means.

About 221 of these endorsed by the Chicago Association of Commerce have an income from contributions alone of approximately \$9,000,000. Consequently it follows that Chicago spends a far greater amount than this in the course of a year for philanthropic and welfare work.

A complete record of the various philanthropic and charitable activities of Chicago embracing asylums and homes, day nurseries and kindergartens, social settlements and recreation centers, reform and civic betterment organizations, relief and benevolent associations, hospitals and dispensaries and such other benevolent organizations, may be found in the Miscellaneous section of this Directory.



The famous group of sculpture "Passing of Time" by Lorado Taft, in Washington Park.

...the sculpture is a masterpiece of art, capturing the essence of time's passage. The figures are arranged in a line, each representing a different stage of life. The central figure, a woman, is the focal point, surrounded by other figures in various poses. The background shows a park setting with trees and a building in the distance.

...the sculpture is a masterpiece of art, capturing the essence of time's passage. The figures are arranged in a line, each representing a different stage of life. The central figure, a woman, is the focal point, surrounded by other figures in various poses. The background shows a park setting with trees and a building in the distance.

...the sculpture is a masterpiece of art, capturing the essence of time's passage. The figures are arranged in a line, each representing a different stage of life. The central figure, a woman, is the focal point, surrounded by other figures in various poses. The background shows a park setting with trees and a building in the distance.

CHAPTER FIVE

CHICAGO AS A RECREATIONAL CENTER

City Has Become "The Playground of the Nation"

Chicago has been rightfully called "the playground of the nation." With a climate that is cool in summer, and moderate in winter, with Lake Michigan at its door and thousands of acres of parks and playgrounds, no other city is so advantageously located or equipped for healthful sport and recreation as is Chicago.

During the summer this city is the mecca for thousands who come from the heat in the Southland to enjoy the cool and invigorating breezes of Lake Michigan and to enjoy the many outdoor sports which the city offers. Chicago's waterfront extends for 101 miles, of which 50 are for purely recreational purposes. Here are found the most modern and largest bathing beaches on any stretch of fresh water and make Chicago a veritable "inland seaside resort." During the past few years great strides have been made in bringing back the lake to the people.

Many Public Bathing Beaches—The largest fresh water public bathing beach in the world, the Clarendon Municipal bathing beach, located between Wilson and Montrose avenues, is a noteworthy example of why Chicago is famous as a recreation center and as a summer resort. This beach can take care of 10,000 bathers at one time and was built at a cost of one-half million dollars. Immediately north of the beach a municipal playground has been established.

It is estimated that nearly a quarter of a million bathers could be accommodated at the same time in all of Chicago beaches, which indicates the number and size of the city's facilities in this line.

Ten large bathing beaches and sixty street-end beaches—with a total water frontage of several miles—are maintained for use by the public.

Lake Michigan Furnishes Ample Water Supply—And the interests of the public are maintained—health, safety and morals, being under supervision. The sand is kept clean, and bathers and spectators are expected to observe such rules of conduct as will justify the efforts made to popularize this form of recreation. As for the water, Lake Michigan furnishes an ample supply, and its quality has never been questioned.

Some two hundred life guards are employed to reduce the danger of drowning to a minimum. Vacation days may be counted upon to bring their usual reports of casualties among swimmers. Few of these drownings may be charged to the public bathing beaches, notwithstanding the great number of bathers.

Chicago has not been slow to recognize the value of swimming, not only as a recreation but as an aid to good health as well. With proper safeguards against drowning, the only known objection is removed. At each of the principal bathing beaches there is a competent corps of attendants, and the lockers, suits and towels are furnished free of charge.

Besides these many spots on the lake shore, bathing may be enjoyed at a score of swimming pools in the parks, and there are seven public natoriums. Of the latter three are open the year around.

But Chicago's claims as a great recreational center do not rest entirely on the number and size of its bathing beaches. Besides these attractions there are thousands of acres of park space with provisions for nearly every sport imaginable, public playgrounds and amusement parks.

Many Amusement Parks—Chicago is noted for her large amusement parks, which have merry-go-rounds, chute-the-chutes, coasters, dancing pavilions, and all sorts of exciting amusement devices. River-view Park, on the north branch of the Chicago river, is the largest amusement park in America. Here one may find picnic grounds, good music, many interesting shows and boat trips on the river. This park is a great favorite with the school children of Chicago.

"White City" is the celebrated south side amusement park. Its brilliant illumination and numerous "concessions" offer recreation to thousands of men, women and children every year.

Chicago Parks and Boulevards

Chicago is a "City of Parks"—Chicago leads the world with its elaborate system of parks and boulevards. No other city of first order can boast of as many acres of playground and park space as Chicago has. The city annually spends \$5,000,000 for park purposes, more per capita than any other large city in the world. And every park is open to the people with no "keep off" signs in the entire system. All recreational features are free, except the boats in the lagoons, which can be hired for a nominal sum.

The parks are governed by incorporated bodies who have the right to levy taxes to certain limitations.

The area of these parks January 1, 1923, was as follows:

| | |
|--|----------------|
| South Park System..... | 2,137.91 acres |
| West Park System..... | 820.40 " |
| Lincoln Park System..... | 727.35 " |
| Northwest Park System..... | 105.00 " |
| Bureau of Parks, Playgrounds and Bathing Beaches of Chicago..... | 433.00 " |
| Various small park districts..... | 300.00 " |
| Total..... | 4,533.75 " |

Lincoln Park System of Parks and Boulevards

Control and administration is vested in a Board of Commissioners appointed by the Governor with consent of the State Senate. The office of the Commissioners is located in Lincoln Park, near Clark and Center streets.



Clarendon Municipal Bathing Beach noted as one of the largest and finest of its kind.



Oak Street Bathing Beach, a natural beach resulting from the eroded shore line. A skyline view along the "Gold Coast" is shown in the background.

The Lincoln Park district consists of the towns of North Chicago and Lake View, with Fullerton avenue as the dividing line, and is bounded on the north by Devon avenue, on the south by the Chicago river and extends from Lake Michigan on the east to the north branch of the river and North Western avenue on the west.

The area of the Lincoln Park district is 12.64 square miles. The total area of its parks and boulevards is 727.35 acres, with 11.755 miles of boulevards.

Lincoln Park, previously known as Lake Park, began its history under its present name by resolution passed by the common council of Chicago under date of June 5, 1865. The park proper is 317 acres in extent and extends from Diversey boulevard to Oak street along the lake front. To this 200.59 acres of land has been added by filling in Lake Michigan north of Diversey boulevard. This extension contains a 57-acre yacht harbor. The park contains a large floral department, also an extensive zoological garden, containing about 1,800 animals. Boating and bathing facilities are furnished and the park lagoon—one mile in length, gives an admirable course for racing.

Features of Lincoln Park—The main features of Lincoln Park and the attractions it offers to visitors are as follows:

Lincoln Park is one of the most popular and well known parks in the country and contains many points of interest to visitors, such as its splendid zoo, its conservatory with numerous botanical specimens and its beautiful statues, among which is St. Gauden's "Lincoln." It is situated along the shore of Lake Michigan, about two and one-half miles north of the business district of Chicago.

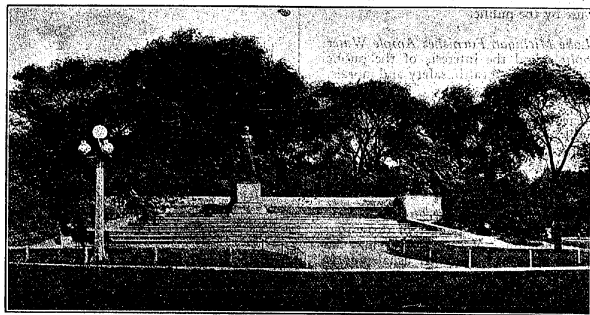
The main portion of the park is located between North avenue and Byron street with Clark street, Lincoln Park West, Lake View avenue and Sheridan road as its western boundary. It may be reached by any surface car running on Clark street, either directly or by transfer thereto, or by

motor buses operating between Devon avenue and the loop, and also in the summer time by excursion boats plying between Lincoln Park, the Municipal Pier and Jackson Park. Open from 5 a. m. until 11 p. m.

Aquarium—One of the most modern aquariums in the United States is being erected in Lincoln Park, south of the Lion House, which will contain forty-two display tanks for fresh water fish.

Athletic Field—The Athletic field is available for all reasonable activities—baseball, football, soccer football and hockey. Permits may be obtained at park office.

Bathing Beaches—Three bathing beaches are within the Lincoln Park district: Diversey, for men and women, open daily from 10 a. m. until 10 p. m.; Fullerton bathing beach, for children, open daily from 10 a. m. until 5:30 p. m.; Oak street bathing beach, for men, women and children, open daily from 4 a. m. until 10 p. m.; police and life guard attendants are always on hand.



St. Gauden's famous statue of "Lincoln" located in beautiful Lincoln Park.

Boats—Row boats may be rented at the North and South Ponds. Ticket offices open from 8 a. m. until 10 p. m. Charge, 25c per hour; 15c per half hour.

Boat Moorings—Yachts and motor boats may be moored in the Belmont Harbor and the Lincoln Park Lagoon. Charges range from \$7.50 to \$37.50 per season, depending upon size of boat.

Band Concerts—Concerts are given at the Bank Stand each Sunday afternoon at 3 o'clock during July and August.

Conservatory—A display of flowering plants is on exhibition in the Conservatory continually. Building open 9 a. m. until 5 p. m.

Esplanade—The lake front is improved with a paved beach and broad cement walk from Grand avenue to the north shore of Simmons Island, which is one of the "feature improvements" in the development of Lincoln Park.

Excursion Boats—Excursion boats ply between Fullerton Pier and the Municipal Pier during the summer months. Charge 25c per trip.

Fly Casting—A casting platform with targets at standardized distances is placed in the South Pond for fly casting practice and exhibition.

Field House—Equipped with rest rooms, shower baths and lockers for both men and women, also comfort stations.

Golf—Nine-hole course. Open during golf season from daybreak until dark. Charge, 15c per round. Golf shelter equipped with showers, lockers and lunch room. Locker fee, \$2 per season.

Lincoln Park Boat Club—Clubhouse equipped with reception room, hand ball courts and storage space for canoes and rowing shells. Regattas held Decoration Day, Fourth of July and Labor Day.

Ponies—Saddle ponies for children to ride in protected enclosure. Attendant if desired. Charge, 5c per ride.

Ponds—North and South Ponds—used for boating and skating. Hardy-lily pond. Tropical lily pond.

Promenade—A beautiful view of the yachts moored in the Belmont Harbor may be obtained from the Promenade on the west shore of the Harbor.

Refectory—Restaurant and cafeteria. Open from May 15th until September 15th. Available for private dances and parties during the winter months. For full information telephone Lincoln 0009.

Roque Courts—Six modern concrete courts equipped with electric lights for playing in the evening. Permits not required.

Sanitarium—Fresh air sanitarium free for the benefit of needy sick babies. Buses are provided for carrying mothers with children to and from the street car line.

Transportation—Miniature auto trains operate during the summer season on the Esplanade from North avenue and Lake Shore drive to Municipal Pier, and also from North avenue and Clark street to the Zoo. Fare 5c. Many sightseeing cars from the loop traverse the boulevards and pass through the park.

Tennis Courts—Thirty grass courts are laid out each summer. Permits not required. Rules governing play may be obtained at park office.

Chicago Academy of Sciences—Located in the park at the foot of Center street; open week days 9 a. m. to 5 p. m., Sundays 1 p. m. to 5 p. m. This building was erected in 1893 and contains about 250,000 specimens. It is noted for its collection of local natural history specimens and for its complete collection of mollusks. But the outstanding feature of the exhibits in this famous institution are the habitat groups of birds and mammals found in the Chicago area. These have been prepared by the Curator, Frank M. Woodruff, and for backgrounds in these lifelike groups are some of the biggest photographs ever made. These enlargements from small negatives have been colored and are unique in the history of taxidermy in this country.

Trap Shooting (Gun Club)—Equipped with modern facilities. Trap shooting tournaments are regularly conducted by the club. The public is permitted to use the traps. Charge: Targets 2c each with service, shells \$1 per box. For full in-

formation, telephone Lincoln 8402.

Wheel Chairs (Free)—Wheel chairs for crippled and invalid children may be obtained for use in the park by applying at the Lincoln Park office.

Zoo—The Zoo contains one of the finest collections of lions and tigers in the United States as well as a choice variety of other animals and birds. Buildings open daily—9 a. m. until 5 p. m. Animals in outdoor cages on exhibition at all hours. Feeding time 4 o'clock each week day. Animals are not fed on Sundays.

LENGTH OF NORTH SIDE BOULEVARDS IN MILES AND FRACTIONS OF MILES

| | | |
|---------------------|-------|-------|
| Dearborn Parkway | ..... | 1.20 |
| Diversey Parkway | ..... | 2.302 |
| Fullerton Parkway | ..... | .610 |
| Gartfield Parkway | ..... | .626 |
| Lake Shore Drive | ..... | 2.262 |
| Lincoln Parkway | ..... | .580 |
| North Avenue | ..... | .376 |
| Lincoln Park West | ..... | .448 |
| Sheridan Road | ..... | 5.056 |
| North State Parkway | ..... | .228 |

Small Parks in the Lincoln Park System

Stanton Park—Vedder, Vine and Rees streets; area 4.78 acres; equipped with field house and outdoor gym facilities.

Lake Shore Playground—Area 9.16 acres; is situated between Pearson street and Chicago avenue, extending from the Chicago avenue pumping works to the lake. This park is fitted up as a playground containing a shelter house, and with outdoor and indoor gymnasium apparatus.

Seward Park—Contains 1.78 acres; is fitted with outdoor and indoor gymnasium and has a fieldhouse which contains reading rooms, assembly hall, clubrooms, a branch of the public library and facilities for gymnastic work and aquatic sports.

Hamlin Park—Wellington avenue and Robey street; area 8.64 acres; is fully equipped with fieldhouse and out-of-door gymnasium facilities.

Welles Park—Western avenue and Montrose boulevard; fieldhouse and out-of-door gymnasium facilities; area 8.17 acres.

Gowdy Square—Goethe street on the north and Astor street on the west; area .46 acre.

SOUTH PARKS

Control and administration is vested in a Board of Commissioners appointed by the Circuit Court judges. The office of the Commissioners is located in Washington Park, 57th and Cottage Grove avenue.

The south park district is bounded on the north by the Chicago river and the Illinois and Michigan canal, east by Lake Michigan and the state of Indiana, south by 87th street and 138th street and west by South Cicero avenue and State street.

The area of the south park district is 92.6 square miles. The total area of parks is 2,043.98 acres and of parks and boulevards 2,494.59 acres, consisting of twenty-four parks and 32.98 miles of boulevards. The following is a list of the parks and boulevards:

Jackson Park—Area 542.89 acres; bounded on the north by 56th street, east by Lake Michigan, south by 67th street, and west by Stony Island avenue; this park is provided with facilities for boating, rowboats and launches, has two golf courses, one of nine holes and the other eighteen holes, with golf shelter, lockers and showers for both men and women.

At the two golf courses in this park one-third of a million balls are tied off every season. The long course of 18 holes is used by more people than play over the historic links at St. Andrew.

Jackson Park also has baseball and football fields, tennis courts, refectory, beach bathing, music court and in the winter skating is provided. It also has a playground for small children. The commissioners have completed and put in operation a new bathing beach at the foot of 63d street. This beach with its equipment is undoubtedly one of the finest in the country and has a capacity of taking care of from 6,000 to 10,000 bathers every two hours. Everything is absolutely free, including bathing suits, towels and shower baths.

Washington Park—Area 371 acres; bounded on the north by 51st street, east



View of the yachting harbor at Lincoln Park, showing the unexcelled facilities and commodious accommodations afforded by Chicago to yachting. (Copyright Underwood & Underwood, N. Y.)

by Cottage Grove avenue, south by 60th street, west by South Park avenue; has the same accommodations for the public as Jackson Park, except the golf facilities and the beach and in addition has roque courts, archery range, accommodations for fly casting, wading pool and sand court for children and a house for the game of curling.

Marquette Park—Area 322.68 acres; bounded on the north by 67th street, east by California avenue, south by 71st street and west by the Grand Trunk Western railroad. The east 80 acres has been improved. It has ball fields and tennis courts and skating in the winter. It also has an eighteen-hole golf course.

Grant Park—Area 205.15 acres; bounded on the north by Randolph street, east by Lake Michigan, south by East 11th place, west by Michigan avenue. The Logan and Hamilton monuments, the Great Lakes fountain, the Art Institute, and the Field Museum of Natural History are located in this park. The Roosevelt memorial and the great stadium are to be erected at the south end of the park.

Midway Plaisance—The connecting way between Washington and Jackson

parcs; bounded on the north by 59th street, east by Stony Island avenue, south by 60th street, west by Cottage Grove avenue. Has tennis courts and in the winter skating and hockey.

McKinley Park—Area 74.88 acres; bounded on the north by 37th street and Archer avenue, east by Robey street, south by 39th street, west by Western Avenue boulevard. Has swimming pool, outdoor gymnasiums for men and women, tennis courts, ball field, children's playground, wading pool and skating in the winter. Modern and complete recreation buildings have been provided.

Gage Park—Area 20 acres; situated at the intersection of Western avenue and 55th street. Has wading pool, ball field and tennis courts.

Sherman Park—Area 60.6 acres; bounded on the north by 52d street, east by South Racine avenue, south by Garfield boulevard, west by Loomis street. Has recreation buildings which include an assembly hall used by the people free of charge for various entertainments, club-rooms for meetings of the various clubs of the community, reading room supplied with periodicals by the park commission-

ers, gymnasiums for men and women, shower and plunge baths and "locker rooms." There are also outdoor gymnasiums for men and women, playground for children, wading pool and swimming pool with the necessary dressing booths. Provision is made for baseball, football, tennis and boating. There is also a bandstand from which concerts are given during the summer every Sunday evening. Also skating in the winter.

Ogden Park—Area 60.56 acres; bounded on the north by 64th street, east by South Racine avenue, south by 67th street, west by Loomis street. The same facilities for recreation and pleasure are provided as in Sherman Park.

Palmer Park—Area 40.48 acres; bounded on the north by 111th street, east by South Park avenue, south by 113th street, west by Indiana avenue. The same facilities for recreation and pleasure are provided as in Sherman Park, except boating.

Hamilton Park—Area 29.95 acres; bounded on the north by 72d street, east by C. & N. P. railway, south by 74th street, west by C. & W. railway. The same facilities for recreation and pleasure are provided as in Sherman Park, except swimming pool and boating.

Bessemer Park—Area 22.88 acres; bounded on the north by 89th street, east by Muskegon avenue, south by 91st street, west by South Chicago avenue. The same facilities as Sherman Park except boating.

Mark White Square—Area 10 acres; bounded on the north by 29th street, east by Halsted street, south by 30th street, west by Poplar avenue. The same facilities as Sherman Park except boating.

Armour Square—Area 10 acres; bounded on the north by 33d street, east by Wells street, south by 34th street, west by Shields avenue. The same facilities as Sherman Park except boating.

Cornell Square—Area 10 acres; bounded on the north by 50th street, west by South Lincoln street, south by 51st street, east by Wood street. The same facilities as Sherman Park except boating.

Davis Square—Area 10 acres; bounded on the north by 44th street, east by Marshfield avenue, south by 45th street, west by Hermitage avenue. The same facilities as Sherman Park except boating.

Russell Square—Area 11.47 acres; bounded on the north by 38d street, east by Bond avenue, south by Baker avenue, west by Houston avenue. The same facilities as Sherman Park except boating.

Calumet Park—Area 66.19 acres; bounded on the north by 95th street, east by Lake Michigan, south by 102d street, west by Avenue G and a line about 50 feet east of C. L. S. & E. railway. A bathing pavilion is located at 99th street.

Hardin Square—Area 7.41 acres; bounded on the north by 25th street, east by the Rock Island right of way, south by 26th street, west by Wentworth avenue; the same facilities as at Sherman Park except boating.

Fuller Park—Area 10 acres; bounded on the north by 45th street, east by Prince-

ton avenue, south by 46th place, west by Stewart avenue. Improved with same facilities as Sherman Park.

Grand Crossing Park—Area 19.16 acres; bounded on the north by 76th street, east by Dobson avenue, south by 78th street, west by Ingleside avenue; the same facilities as at Sherman Park.

Lyman Trumbull Park—Area 18.52 acres; bounded on the north by 103d street, east by Bensley avenue, south by 105th street, west by Oglesby avenue; same facilities as at Sherman Park.

No. 17 Park—Area 20 acres; bounded on the north by 130th street, east by Carondelet avenue, south by 132d street, west by Exchange avenue.

No. 18 Park—Area 20.19 acres; bounded on the north by 90th street, east by St. Lawrence avenue, south by 91st street, west by South Park avenue.

Michigan Avenue—80 to 100 feet wide; from Garfield boulevard to Randolph street.

Garfield Boulevard—200 feet wide; from South Park avenue and Western Avenue boulevard on the line of 55th street.

Western Avenue Boulevard—200 feet wide; a strip of land east of and adjoining the center line of Western avenue from the Illinois and Michigan canal to 55th street (Garfield boulevard).

Grand Boulevard—108 feet wide; on the line of South Park avenue from 35th to 51st street.

Drexel Boulevard—200 feet wide; first street east of Cottage Grove avenue and extending from Oakwood boulevard to 51st street.

Prairie Avenue—66 feet wide; the street of that name from 16th to 39th streets.

South Park Avenue—66 feet wide; being the street of that name between 35th and 60th streets.

Jackson Boulevard—66 feet wide; being the street of that name extending from Michigan avenue to the south branch of the Chicago river.

Oakwood Boulevard—100 feet wide; the first street south on 39th street, between Grand boulevard and Cottage Grove avenue.

Thirty-Third Street—66 feet wide; being the street of that name between Michigan avenue and South Park avenue.

Sixteenth Street—50 feet wide; being the street of that name between Michigan avenue and Prairie avenue.

Twenty-Ninth Street—66 feet wide; being the street of that name between Prairie avenue and South Park avenue.

Fifty-Seventh Street—100 feet wide; being the street of that name between the I. C. railroad right of way and the west line of Jackson Park.

Marquette Road—66 feet wide; being the street of that name from Jackson Park to California avenue.

Normal Avenue—66 feet wide; from Garfield boulevard to 72d street.

Loomis Street—66 feet wide; being the street of that name from Garfield boulevard to 67th street.

Hyde Park Boulevard—100 feet wide; being that part of 51st street between Drexel avenue and Jackson Park.

South Shore Drive—100 feet wide; runs from Jackson Park to 71st street and thence to 83d place.

WEST CHICAGO PARKS

The West Chicago Park system is an extensive area of parks and boulevards administered by the West Park Commissioners, appointed by the Governor with consent of the State Senate. Offices of the Commissioners are located in Union Park, Lake street and Ashland boulevards.

The west park district comprises all that part of the town of West Chicago lying between the Illinois and Michigan canal and the Chicago river and the following described lines: Beginning at the north branch of the Chicago river at Belmont avenue, thence west to North Kedzie avenue, thence south along Kedzie avenue to North avenue, thence west on North avenue to North Austin avenue, thence south along Austin avenue to West Roosevelt road, thence east along Roosevelt Road to South Kenton avenue, thence south along Kenton avenue to West 39th street, thence east along 39th street to the Illinois and Michigan canal.

The area of the west park district is 35.5 square miles. The total area of the parks and boulevards is 1,278,304 acres, consisting of twenty parks and playground areas and 32,501 miles of boulevard; area of parks, 820,404 acres. The following is a list of the parks and boulevards:

Some idea of the scope of the west park system and the many activities it conducts as well as the facilities for recreation can be secured from the following detailed account of what is under the jurisdiction of the West Park Commissioners.

| | |
|--------------------------------|--|
| 4 Large Parks | 13 Skating Ponds |
| 4 Small Parks | 1 Large Conservatory |
| 14 Playgrounds | 27 Athletic Fields |
| 4 Restaurant Buildings | 32½ miles of boulevard pleasure drives |
| 10 Recreation Center Buildings | 13 Swimming Pools |

An the following are the facilities for recreation:

| | |
|-------------------------|--------------------|
| 4 Assembly Halls | 3 Large Playfields |
| 7 Baseball Diamonds | 2 Bocce Courts |
| 4 Boat Houses | 2 Sand Courts |
| 1 Bridge Path | 4 Skating Ponds |
| 3 Children's Playfields | 5 Swimming Pools |
| 12 Football Fields | 62 Shower Baths |
| 3 Golf Courses | 3 Wading Pools |
| 5 Public Lunch Rooms | 134 Tennis Courts |

PLAYGROUNDS PARKS

| | |
|--------------------------------|------------------------------|
| 7 Assembly Halls | 8 Children's Playfields |
| 20 Playground Ball Diamonds | 9 Football Fields |
| 200 Children's Gardens | 3 Shower Bath Rooms |
| 8 Large Playfields | 25 Shower Baths |
| 4 Libraries | 9 Skating Ponds |
| 5 Men's Indoor Gymnasiums | 8 Swimming Pools |
| 5 Men's Outdoor Gymnasiums | 22 Tennis Courts |
| 10 Recreation Center Buildings | 4 Wading Pools |
| 6 Running Tracks | 5 Women's Indoor Gymnasiums |
| 10 Sand Courts | 4 Women's Outdoor Gymnasiums |

1,250,000 persons bathed in the swimming pools in 1921.

Activities conducted in these parks may be summarized as follows:

PHYSICAL

| | |
|---------------------------|-------------------------------|
| Aquatic Tournaments | Jacks and O'Leary Tournaments |
| Athletic Efficiency Tests | Life Saving |
| Baseball | Long Ball |
| Basketball | Miscellaneous Games |
| Boating | Quilt Pitching |
| Bocce | Playground Ball |
| Croquet | Soccer |
| Football | Swimming |
| Fly Casting | Tennis |
| Golf | Tobogganing |
| Gymnastics | Track and Field Ath. |
| Hand Ball | Jacks |
| Hires | Volley Ball |
| Horseshoe Pitching | Wrestling |
| Indoor Ball | |

EDUCATIONAL

| | |
|--------------------------|--------------------------|
| Artificial Flower Making | Doll House Construction |
| Bakery | Dramatics |
| Book Making | Tracing |
| Brass Band | Exhibitions |
| Boat Construction | Gardening |
| Boy Scouts | Girl Scouts |
| Chemical Work | Health Talks and Sermons |
| Clay Modeling | Kite Making |
| Concocting | Lantern Making |
| Crocheting | Lectures |
| Dancing, Folk | Library |
| Dancing, Aesthetic | Music Instruction |
| Dancing, Interpretative | Orchestra |
| Debate | Sewing Classes |

SOCIAL

| | |
|-----------------|--------------------|
| Cheekers | Clubs |
| Clubs | Pool and Billiards |
| Dancing | Roller Skating |
| Entertainments | Socials |
| Festivals | Story Telling |
| Free Play | Stunt Nights |
| "Get Togethers" | Table Games |
| Marble Play | |
| Minstrels | |

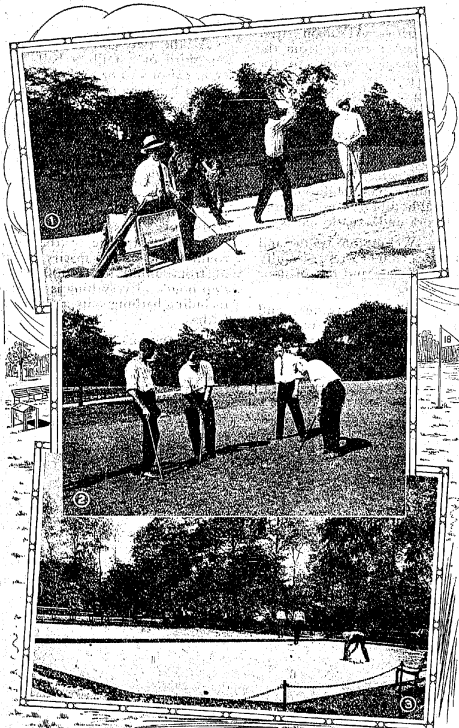
The various parks, playgrounds, recreation centers and boulevards in this system are as follows:

Humboldt Park—Area 205.865 acres; acquired 1869; bounded on the north by West North avenue, east by California and Sacramento avenues, south by Division and Augusta streets and west by Kedzie avenue; has rose garden with pergola and garden hall and fountain; refectory building; also a pavilion and boat landing; music court, a wading pool and shelter for children; is provided with facilities for boating, has baseball diamonds and tennis courts, and in winter skating is provided.

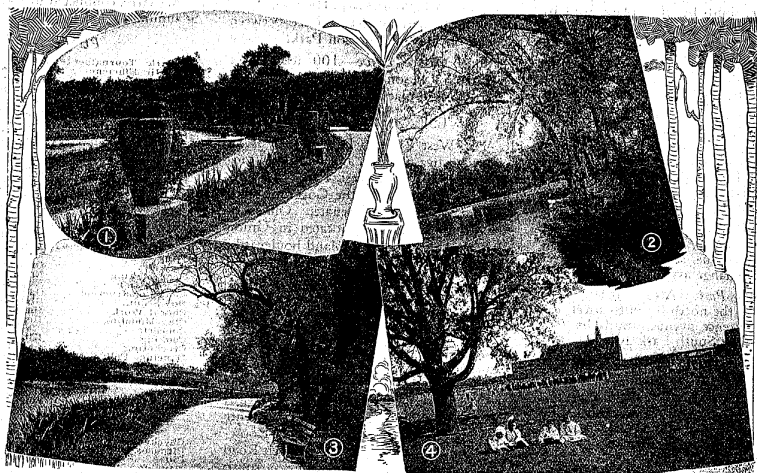
Garfield Park—Area 187.534 acres; acquired 1869; bounded on the north by Kinzie and Lake streets, east by Central Park and Homan avenues, south by Madison street and 5th avenue, west by Hamlin avenue. Has a conservatory (the largest in the country), refectory building, outdoor natatorium, boat landing and pavilion, music court and bandstand, water courts with fountain, basin and extensive flower gardens. Has a golf course, with fieldhouse containing lockers for men and women, also has tennis courts and facilities for fly casting, and in winter skating is provided.

Douglas Park—Area 181.991 acres; acquired 1869; bounded on the north by West Roosevelt road, east by California avenue, south by West 19th street and west by Albany avenue. Has refectory building and pavilion, music court, flower gardens, outdoor gymnasiums and natatorium, with swimming pools, shower baths and dressing rooms for men and women. Facilities are provided for baseball, boating and lawn tennis, and in winter skating is provided.

Union Park—Area 17.370 acres; acquired 1885; bounded on the north by



1—Tee-off at Garfield Park golf links. 2—Making final stroke on the green at Garfield Park. 3—One of the roque courts, Garfield Park.



1—View of Humboldt rose garden. 2—A shady walk at Garfield Park lagoon. 3—A beauty spot in Humboldt Park, showing walk to the rose garden. 4—Inseam field at Douglas Park.

Lake street, east by Ogden avenue and Bryan place, south by Warren avenue and west by Ashland boulevard. In this park the offices of the West Chicago Park Commissioners are located. Facilities are provided for lawn tennis during the summer and skating during the winter. An outdoor natatorium for the summer months, and shower baths are open all year. A children's playground with wading pool, sand court and play apparatus.

Jefferson Park—Area 7.025 acres; acquired 1885; bounded on the north by Monroe street, east by Throop street, south by Adams street and west by Loomis street.

Vernon Park—Area 6.140 acres; acquired 1885; bounded on the north by Macalister place, east by South Racine avenue, south by Gilpin place and west by Loomis street.

Wicker Park—Area 4.030 acres; acquired 1885; bounded on the north and east by Wicker Park avenue, south by Fowler street and west by Robey street.

Holstein Park—Area 2.841 acres; acquired 1901; bounded on the north by Lyndale street, south by Custer street and located one block east of Western avenue. A field house has been provided containing gymnasiums and shower baths for men and women, library and reading room and assembly hall. Has an outdoor gymnasium and playfield and children's playground, and in winter skating is provided.

Shedd's Park—Area 1.134 acres; acquired 1898; located at 23d street and Millard avenue, opposite Lawndale station of the Chicago, Burlington & Quincy railroad. A library and reading room and assembly hall.

Bernard A. Eckhart Park—Area 8.125 acres; acquired 1907; bounded on the north by Cornell street, east by Chase

street, south by Chicago avenue and west by Noble street. A field house has been provided containing gymnasium and shower baths for men and women, lunch rooms, library and reading room and assembly hall; also an outdoor swimming pool with shower baths and dressing rooms for men and women. An outdoor gymnasium for men and women, playground with wading pool and sand courts for children and tennis courts and ball ground have been provided; also skating in the winter.

Stanford Park—Area 2.892 acres; acquired 1908; bounded on the north by Barber street, east by Jefferson street, south by 14th place and west by Union avenue. In this park the same facilities for recreation and pleasure are provided as in the small parks and playgrounds mentioned above.

Dvorak Park—Area 3.851 acres; acquired 1908; bounded on the north by 20th street, east by Fisk street, south by 21st street and west by May street. The same facilities for recreation and pleasure are provided as in Eckhart Park.

Franklin Park—Area 8.260 acres; acquired 1911; bounded by West 14th street, West 15th street, South Tripp avenue and South Kolin avenue. Baseball and skating facilities are provided. An outdoor natatorium for summer months and shower baths for the whole year; and outdoor gymnasium for men and women and a playfield with wading pool, sand court and play apparatus.

Pulaski Park—Area 3.800 acres; acquired 1911; bounded by Noble, Blackhawk, Cleaver and Bradley streets; contains elaborate field house, swimming pool and other facilities for recreation.

Harrison Park—Area 8.244 acres; acquired 1912; bounded by West 18th

street, West 19th street, South Wood street and South Lincoln street. An outdoor natatorium has been provided, also the necessary facilities for baseball and skating. An outdoor gymnasium for men and women and a playground for the children, with wading pool, sand court and play apparatus and children's gardens.

Sheridan Park—Area 3.575 acres; acquired 1912; bounded by Polk, May and Aberdeen streets and first east and west 16-foot alley north on Taylor street. An outdoor natatorium has been provided, together with an outdoor gymnasium for men and women, children's playground and a large field for baseball and skating. Shower baths are open the whole year.

Humboldt Park Natatorium and Playground—Area 1.057 acres; acquired 1912; adjacent to Humboldt Park on the south at the southwest corner of North Sacramento boulevard and Augusta street. Contains an outdoor natatorium and children's playfield, with sand court, wading pool and children's playground apparatus.

Columbus Park—Area 144.156 acres; acquired 1912; bounded by Adams street, Central avenue, Austin avenue and the right of way of the Aurora, Elgin & Chicago Railway Company; baseball, golf, tennis and skating provided for.

Altgeld Park—Area 5.160 acres; acquired 1915; lying in the center of South Talman avenue, between the north line of West Harrison street and the south line of West Van Buren street. To be provided with shelter, pool and other playground facilities.

New Small Park—Area 17.353 acres; acquired 1919; bounded by Hirsch street, Laverne, Potomac and Laramie avenues.

West Adams Boulevard—.492 mile long and 66 feet wide; from South Cen-



Airplane view of Garfield Park.

tral avenue to South Austin boulevard; area 3.938 acres.

Ashland Boulevard—1.26 miles long, 100 feet wide; North, from West Lake street, south to West Madison street, South, from West Madison street, south to Roosevelt road; area 14.353 acres.

North and South Austin Boulevard—3 miles long, 66 feet to 80 feet in width; from West Roosevelt road to West North avenue; area 12.854 acres.

California Boulevard—.692 mile long, 100 feet wide; from Douglas Park (19th street), south from West Madison street to 5th (Colorado) avenue, along the east side of Garfield Park; area 7.128 acres.

Central Park Boulevard—.448 mile long, 80 feet wide; north from Franklin boulevard to Garfield Park (Kinzie street), south from West Madison street to 5th (Colorado) avenue, along the east side of Garfield Park; area 7.128 acres.

Douglas Boulevard—.877 mile long, 250 feet wide; from Independence boulevard east to Douglas Park (Albany avenue); area 27.272 acres.

Franklin Boulevard—.763 mile long, 250 to 400 feet wide; west from North Sacramento boulevard to North Central Park boulevard, and from North Central Park boulevard to Garfield Park (Kinzie street), connecting Humboldt and Garfield Parks; area 24.119 acres.

North Homan Boulevard—.254 mile long; from West Madison street to West Lake street, along the east side of Garfield Park; area 2.401 acres.

Humboldt Boulevard—.834 mile long, 100 to 400 feet wide; from Palmer square to Humboldt Park (North avenue); area 23.035 acres.

Independence Boulevard—.819 mile long; from Garfield Park (5th, formerly Colorado avenue), south to Douglas boulevard; area 25.562 acres.

Jackson Boulevard—6.195 miles long, from 56 to 80 feet wide; from the Chicago river west to South Central avenue in Austin, passing through Garfield Park, a continuation of Jackson boulevard on the south side; area 51.470 acres.

North Kedzie Boulevard—.423 mile long; from Logan boulevard to Palmer square; area 15.995 acres.

Logan Boulevard—1.356 miles long; from the Diversey avenue bridge to North Kedzie boulevard; connecting the west park system with the Lincoln Park system on the north; area 34.773 acres.

Marshall Boulevard—.505 mile long, 250 feet wide; from Douglas Park (19th street) south to West Twenty-Fourth Street boulevard; area 15.077 acres.

Oakley Boulevard—3 miles long; north from West North avenue, south to West Madison street, south from West Madison street to intersection of Oakley, Ogden and Roosevelt Road boulevards; area 24 acres.

Ogden Boulevard—.74 mile long, from 70 to 112 feet wide; from Douglas Park (Albany avenue) to Oakley boulevard, area 6.278 acres.

Palmer Square—.327 mile long; from North Kedzie boulevard to Humboldt boulevard; area 15.863 acres.

Sacramento Boulevard—2.213 miles long; north from West Madison street to Humboldt Park (Augusta street); south from West Madison street to Douglas Park (Roosevelt road); area 35.996 acres.

West Thirty-First Street Boulevard—5 miles long; from South California boulevard east to South Western Avenue boulevard; area 14.400 acres.

West Roosevelt Road Boulevard—.896 mile long, 70 feet wide; from Oakley boulevard to Ashland boulevard; a con-

tinuation of West Roosevelt road; area 7.602 acres.

West Twenty-Fourth Street Boulevard—.217 mile long; east from Marshall boulevard to South California boulevard; area 6.600 acres.

West Washington Boulevard—6.319 miles long, 66 to 100 feet wide; from Canal street west to city limits, through Union Park and Garfield Park, a continuation of Washington street on the south side; area 64.061 acres.

South Western Avenue—.258 mile long; from West Thirty-first Street boulevard south to the Illinois and Michigan canal, connecting the west park system with the south park system; area 4.316 acres.

Total area of parks 820.404 acres
Total area of boulevards 457.900 acres
Total length of boulevards 32.501 miles

Assessed valuation of property in West Park district, 1920, \$350,648,843. Total expenses, March 1, 1919, to Feb. 29, 1920, \$1,171,537.69.

Small Parks, Playgrounds and Bathing Beaches Under the Bureau of Parks, Public Playgrounds and Bathing Beaches

Office of the Bureau—1004 City Hall. The bureau of parks, public playgrounds and bathing beaches is a bureau of the department of public works. It maintains and has jurisdiction over seventy-three municipal playgrounds, five bathing beaches, four natatoriums, seventy small parks, city forestry or street trees and Gage farm nursery.

The playgrounds are open all year round from 8 o'clock in the morning until 9 o'clock at night and each is in charge of a director and attendant, and during the spring, summer and fall a young woman assistant director or physical instructor.

The small parks vary in size from a beauty spot of one-tenth of an acre to a forty-acre park and are used to give every possible means of recreation to the people. Play apparatus, tennis courts, wading pools, etc., are established wherever possible.

A complete list of the small parks, playgrounds, bathing beaches and natatoriums under the jurisdiction of the Bureau of Parks, Public Grounds, and Bathing Beaches, with the area of the parks in acres and size of the playgrounds is shown in the Miscellaneous section of this Directory under the heading of Parks and Playgrounds.

Public Playgrounds—Public recreation is on a high plane in Chicago. Provision has been made on a scale that dwarfs the recreational features of other cities. For nearly twenty years opportunities for the development of public recreation have been

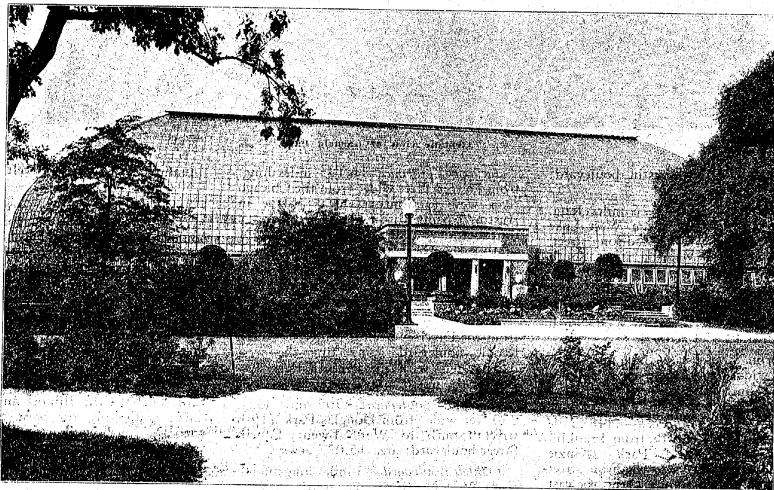
6 a. m. to 9 p. m. Attendance by children at these playgrounds reaches 20,000,000 annually.

The supervision and direction provided are of the most helpful character. Beginning with early age, the boys and girls who take advantage of these public facilities are coached in games and exercises to encourage physical development, while the elements of play and community spirit are fostered. The city has been divided into sections in which track meets, baseball games and various other competitions determine the sectional champions, who in turn compete in intersectional tournaments.

Grades and classes are established to arouse greater interest in developing strength and skill, and the buttons awarded the best performers are worn as proudly as college emblems. Many amateur athletes who have shown unusual prowess in

rooms, a branch of the Chicago public library, a director's office and lobby.

- Locker rooms and shower baths for men and women.
- Indoor gymnasiums for men and women.
- Outdoor gymnasiums for men and women.
- Little children's playgrounds, with wading pool and court, etc.
- Outdoor swimming pool.
- Large play area with baseball field, tennis courts, football field.
- Skating areas and warming houses for winter use.
- In the west parks there are playrooms with special instructors for little children too small to go to the gymnasiums.



Garfield Park Conservatory, the largest in the world.

increasing until today there are more than 115 public playgrounds alone in this city. The municipality, through its bureau of parks, playgrounds and bathing beaches, the three principal park boards and the several lesser park commissions, are cooperating in a harmonious plan of playground and recreation extension.

The 115 public playgrounds are adequately equipped for outdoor sports for the youth of all ages and both sexes. Each is under the supervision of a director, with a woman assistant and an attendant. In every crowded district the children are within walking distance of a park or playground.

In addition to those regularly established recreation centers the city maintains some seventy tracts ranging in size from one to forty acres, where children meet for games and sports. Hours of play are from

field and track events, or in wrestling, swimming and skating, owe their physical superiority to the public playgrounds.

Nor is the child just graduating from babyhood overlooked in the general scheme of providing safe and beneficial play. Swings, ladders, slides and the numerous devices dear to the little folks are provided in all parks. There are, in all, fifty wading pools under the watchful eyes of official attendants.

Chicago is one of the pioneer cities in recognizing the needs of childhood and is meeting these needs on a scale unequalled in any other American city.

The parks render year round service with their equipment.

The buildings and equipment at one park are typical of all. They consist of:

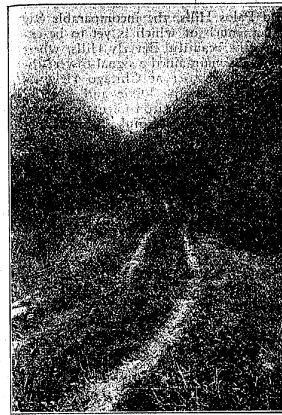
- A field house or central building, containing a large assembly hall, club

Forest Preserves Form Great Outer Park System for Chicago

Surrounding Chicago is a chain of forest preserves consisting of some 20,000 acres of picturesque woodland, lakes, ponds, streams, hills and trails, which form the greatest public playground ever offered to any city in the country. It is an outer belt of parks, the property equally of each citizen of Cook County.

In historical interest alone the forest preserves are storehouses. Man building his homes in succeeding generations ruthlessly destroys all traces of those who have gone before. Nature is more kind. There are to be found evidences of the village life and activities of the Pottowatomies, Ottawas, Chippewas, Winnebagoes and Iroquois, all dwellers in this region before the coming of the white man.

Within the shaded area of Chicago's forests is written the story of the white man's struggle to reclaim a wilderness and



Algonquin Trail at Elk Grove in the Forest Preserves, "a realm of beautiful country." Historically and ecologically its charm is one of the finest attractions in the U. S.

lay the foundations of a future metropolis. Here came LaSalle and Joliet, and ruins of early French forts and missions tell the story of their followers. Here also are the scenes of early English struggles and later of our pioneers following the Revolution.

Easily Accessible—Street cars and railway trains, both steam and electric, take you into the very heart of this forest zone, where you may roam at will. Concrete roads, equal to the city's boulevards, lead to, through and around these tracts with the endless attractions.

In describing what the Forest Preserves mean to Chicago and how plans are under way to make this Preserve of even greater benefit and beauty, Ransom E. Kennicott, chief forester, writes as follows:

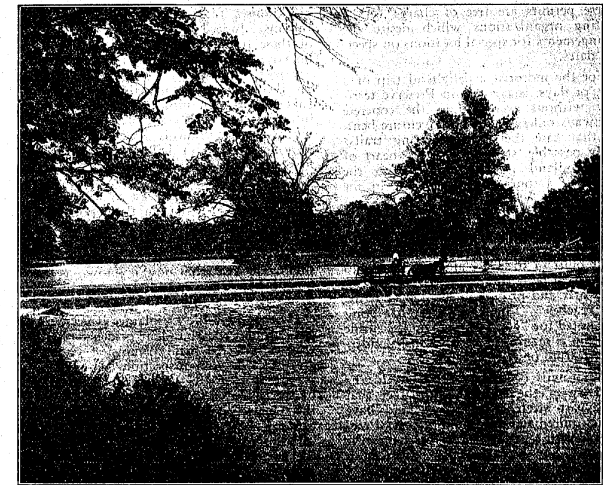
"All the world marvels at the rapid growth of Chicago. Her population and area are increasing so rapidly that she is out-growing herself. Her streets are too narrow for her traffic; her railroad terminals are too small for the enormous burden placed on them; her harbors are too small for the many ships that use her waters; her sewers are becoming a great problem and her water supply must continually find larger inlets further out in the lake. Our magnificent parks, which a few years ago were almost extravagant in their area, are now out-grown. She is widening her streets at enormous expense, studying the problem of larger anchorage for her boats and in the Forest Preserve District of Cook County is solving the park problem.

"As Chicago extends her limits and builds further to the north, west and south, she is absorbing large villages which have no adequate park system; as new subdivisions are built up they do not provide park areas, but the Forest Preserve, which already embraces twenty-six thousand acres, spread largely in a strip just beyond the limits of the city from one end of the county to the other, is providing a permanent breathing space and playground. This great park will embrace at least

thirty-five and probably forty thousand acres. It is a far-sighted step in advance and insures a beautiful setting for our future city. Every railroad and thoroughfare leading from the city leads to or through some part of this district, making it the most accessible park in the world. The aim of the Forest Preserve Commission being to preserve this area as nearly as possible in its natural state, the maintenance will be very economical. In the future certain concessions might be made to pay for the cost of administration. Wonderful opportunities are offered for outdoor recreation of all kinds, on water as well as on land.

"The Forest Preserve consists not only of the indicated area but embraces the Desplaines River, the north branch of the Chicago River, Salt Creek and a number of lakes and ponds. The Desplaines River, after a series of dams is complete, will afford the finest opportunity for canoeing in the country. Fishing will be a feature as the state will supply the waters with fish as needed. The land, acquired because of its topography, gives wonderful opportunity for golf courses; there are already established baseball diamonds, tennis courts and a number of public golf courses.

There are a number of camping sites on the Forest Preserve, bridle paths laid out and hiking trails marked. It is a natural home of the Boy Scouts and a valuable adjunct to the work of the Girl Scouts, Camp Fire Girls and the various settlement houses of Chicago. The entire Preserve is a sanctuary for birds and for wild flowers; both are protected and encouraged. The birds are not only protected from harm but the commission is planting thousands of trees which bear fruit suitable for bird food and thousands of bird-houses made by the children of Cook County in their manual training work have been placed in the woods and are largely tenanted.



Work team feeding a dam at a picturesque point in the Forest Preserves.

"Plans are made and work will begin this summer on a Zoo which in construction and equipment will be the most up-to-date in the world, combining all the newest features; the ideas being gathered from all the other zoos in the world; and this will afford not only the pleasure of seeing our native animals and, as nearly as possible, in their natural environment—but will give great opportunity for the study of animal life.

"An arboretum is planned which will be as complete as possible, covering a large area with specimens of every variety of flora that can grow in this climate and each variety will be represented, as far as possible by specimens in various stages of development. The trees will be shown from the seedlings, the saplings, the pole and the mature tree. Shrubs and wild flowers will be shown in their different stages of development. All the wild life of trees, birds and flowers not only gives the people of Chicago a wonderful opportunity for outdoor recreation and the pleasure of seeing and hearing, but is one of our most valuable educational opportunities.

"Chicago in its future growth should be zoned in such a way that the neighborhood of the Preserves might be used for school buildings, hospital sites and homes. The State Forest Association plans to establish on the land of the Forest Preserve District experiment and demonstration stations where the development and methods of growing forests may be shown to the public.

"The Forest Preserve District is administered by the County Board, the members of which act as a Forest Preserve Board without compensation. This work has been carried on with unusual efficiency. The necessity for haste in the purchase of these Forest Preserves is evidenced by the fact that the corresponding tracts cost much more now than they did when

The Preserve started buying and the entire holdings already purchased could be resold on the open market at a profit of some twenty-five to fifty per cent. The example of Cook County in laying out these large tracts as Forest Preserves is being followed by other counties in the state and other cities in the United States. The cause of conservation is growing rapidly in the United States and this project is recognized as one of the large conservation projects because the greatest natural resource that any country has is its man power and such institutions as Forest Preserve Districts tend to increase the health, happiness and efficiency of the man power of the nation. These Forest Preserves also have a marked effect on the climate. It is known that the average tree gives off, through transpiration, twenty gallons of water a day throughout the growing season. This much moisture added to the atmosphere does much to temper the hot dry winds that blow across our prairies from the west. With Lake Michigan on one side and these Forest Preserves on the other, Chicago is one of the greatest summer resorts in the United States. When the purchase of the district is completed, when the program of reforestation is carried out—the system of roads and waterways is finished—Chicago will have done more than any other city in the world to provide the great outdoors for its people."

Many Recreational Features—Every preserve district has its recreational features, as well as its fields for natural research and historical pursuits. Golf links are being constructed as rapidly as the demand grows, baseball diamonds are laid out in nearly every station and tennis courts will eventually be available on each tract.

Special facilities are also provided for campers. Last year over 1,100 permits were issued to organizations seeking to establish camps free from molestation. These permits are free of charge to the visiting organizations which desire the arrangements for special locations on specified dates.

For the motorist a delightful trip of a day, or days, is possible in Preserve territory without ever leaving the concrete roadways unless one is on an adventure bait. In that case there are tempting trails, easily passable, striking into the heart of the woodland. Guide signs obviate the chance of a tourist's getting "lost in the jungle."

Swimming, boating and fishing are all a part of this wonderful outdoor life in the Preserves. The concrete ferries and dams built in the Desplaines and Chicago rivers have been the means of backing up the water and providing unexcelled bathing beaches. The Desplaines has long been noted for "good fishing" and scientific stocking is making it better. Fish ladders are a feature of all the dams.

What will be of equal interest to the citizenry of the county is the fact that these vast stretches of forest land have been acquired at a minimum of cost. Practically every cent levied for forest preserve purposes has been actually invested in woodland at a reasonable purchase price.

Members of the County Board, acting as Forest Preserve Commissioners without

extra compensation, have established this district with a policy of paying an honest price and not one cent more for the desirable tracts. Wherever owners have been unreasonable in their demands condemnation proceedings have been instituted.

Tracts Have Historical Interest—This string of forests, forming a great outer park belt for Chicago and Cook County, happily includes virtually all the territory which figured so prominently in the county's early history. A hundred years ago this playground of today was the battlefield of the savage redskin.

The Forest Preserves today bear evidences of these Indian activities—the Pottawatomies, Ottawas, Chippewas, Winnebagoes and Iroquois—all the way from the famed Palos Hills northward to the Palatine district.

Palos Park—Historians and naturalists have found in the Palos Hills a delightful and instructive field for their research in what, to them, is a favorite rendezvous with others of similar historical interest in Cook County—seven thousand acres presenting the enchanting green heights of Palos Park, spread under a deep and flawless sky, the silent hills rolling on and on until they dip into seemingly limitless prairies. Hard roads, scientifically built, thread the tract of hills and valleys and rise and fall to the delight of the motorist who, if conversant with the historic memories all about him, lives again the story of the fact and legend coming down from the days of the period when the picturesque red fathers of the land held their sway. Some of their mounds, the traces of others, may be found there today.

The timber gloriously heavy and varied, gives cool shade to innumerable trails for all who go afoot, while there are many open spaces for romping picnic parties within sight of the mounds, and even the ruins of two French forts where blockhouses frowned a warning to the Indians. Indeed, it was within the shelter of these forests that Pere Marquette and his voyageurs on exploration and missionary work took refuge from flooded areas on their trip into the Illinois country. Likewise, similar ruins are to be found far into the northern end of the country where Father Francois Pinet consecrated a Jesuit mission in 1696—the country's first established religious shrine. That was hardly the present community of Gross Point, to the west of Wilmette (Quilmette) at what, in that epoch, afforded camping facilities for pathfinders at the head waters of the north branch of the Chicago river. In that remote time the site overlooked what now is known as the Skokie Marsh, or "Quiet Lake" as interpreted from the Indian designation.

Throughout the Desplaines River Valley is found the abundant evidence of the reign of the red man. Ruins of villages are there for your inspection. The portages between the rivers used by the Indians and the fur traders have left their marks. Not a single tract in the Forest Preserve District is without its part in history which adds to the fascination the wooded tracts ordinarily have for the recreation seeker.

All Preserves are Beauty Spots—In the southern end of the county are the far-

famed Palos Hills, the incomparable Sag Timber, much of which is yet to be explored; the beautiful Beverly Hills, where the Indians maintained a signal tower; the Sauk Trail district at Chicago Heights; the junction of the Dixie and Lincoln Highways; the Thornton-Glenwood tract, with the celebrated Marinka Springs, and the State Line district.

In the west lies the Salt Creek valley, covered with timber such as is found nowhere else in the country, the Portage preserve, marking the spot where Indians and French voyageurs launched their canoes in the waters of the Desplaines; the Riverside woods, the Marquette woods, supposedly the summit of the county, and the wonderful Thatcher woods, long a rendezvous for picnickers and students of nature.

The northwest has real beauty spots, also. Deer Grove, with its superb lake, its deer preserves, its camping facilities and 1,150 acres of hilly woodland, has been an attraction for years. Elk Grove presents 1,600 acres of forest in its natural state. The Desplaines River valley is still just what it was in the days when the Pottawatomie Indians chose it as their home—the "realm of beautiful country."

To the north of the city of Chicago is the equally beautiful Chicago River valley—the north branch. There visitors find the old haunts of the Indians and French explorers and missionaries. There, also is found the Edgewood public golf links, the vast fields of wild flowers and the favorite picnicking spots. Still farther north is the picturesque Skokie valley and the historically famous Turnbull tract.

Facts About Forest Preserves

Deer Grove (Northwest)—1,150 acres. Miles and miles of hilly, wooded land, carpeted with flowers and shrubs of every known variety and serving as the refuge for all species of bird and animal life common to the northwest section of the country.

An 850-acre deer preserve, giving visitors an opportunity for study of this animal in its truly natural life. This preserve also boasts a flock of 500 sheep purchased by the District in answer to the recent war-time appeal for production of wool.

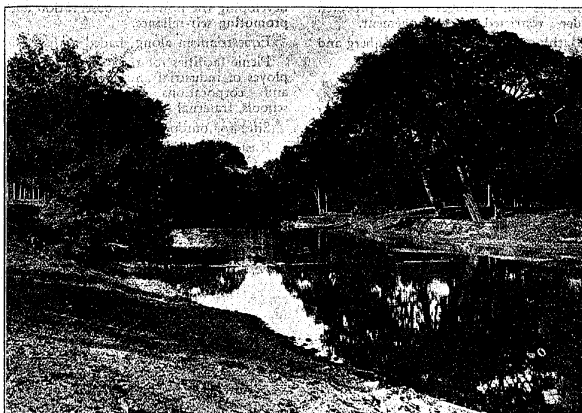
A 25-acre artificial lake, a refuge for water fowl and animals, a delight to the fisherman as a result of the scientific stocking, and an ideal spot for those interested in boating and water sports.

Camp Reinberg, with its athletic fields, baseball diamonds and big shelter houses supplied with running water from the springs which are found, invariably improved, in all sections of the forest.

Elk Grove (Northwest)—1,600 acres of virgin timber land that stands exactly as it did in the prehistoric and Indian days when it constituted a hunting ground that brought the redskins from hundreds of miles around in their canoes.

Hardwood timber, which naturalists say is equalled nowhere in the country. Lily ponds which are a delight to city folk and nature lovers alike. Bird refuges that abound in every known species of feathered animal.

Desplaines River Valley (West and Northwest)—For over 21 miles this stretch of superb woodland skirts the



Desplaines River south of Milwaukee Avenue, a beautiful and enticing spot within the Forest Preserves.

shores of the Desplaines, running from North avenue in Leyden township to the northern county line. The Desplaines River road, improved from end to end, provides a means of transportation to every section.

Old Grove Portage of Indian days to be marked by construction of concrete roadbed in bottom of river for an automobile ford marked by iron uprights on which will run a foot bridge.

Scene of reception given Father Marquette, French explorer, who surprised the Pottawatomie Indians here—the white man's first visit to Cook County, 1673.

North Branch Chicago River Valley—(Including Forest Glen, Caldwell Reservation, Turnbull Woods, Injun Clark Woods and Glenview.)

Forest Glen—Acres upon acres of timber land which was considered the beauty spot about Cheaugau (Indian Chicago) in the days when Skokie Lake that is now Skokie swamp was filled with the canoes of Indians bent upon trade, game of warfare. The woodland is interwoven with kettle valleys that were the delight of the red men.

Caldwell Reservation—All forest land that was awarded to Billy Caldwell, the educated Indian chief, who won government favors by his services to the hard-pressed white settlers and soldiers in the Fort Dearborn massacre. The remnants of the original Caldwell home, still standing in the center of the section since grown into popularity as a haunt of picnickers.

Turnbull—Still bearing the Turnbull homestead, established by one of the Cook County's pioneers in the day when this and all other territory north of the Indian Boundary Line (Present Rovers Avenue in Chicago) was acknowledged Indian territory. Boarders in the Green Bay trail (Green Bay Road of today), the most heavily traveled "road to the north" of Indian days. Within a half mile of the lake and an ideal recreation spot.

Injun Clark Woods—Another favorite Indian haunt and hunting ground, still bearing marks of the mode of living of the aborigines. Here is to be found the sand ridge on which Albert Scharf says the red men loved to tarry to be "rocked to sleep with the roar and roaring of the storms of Lake Michigan."

Glenview—The Cook County home of virtually every known specie of song and game birds. Timber land such as Chicagoans would marvel over were they to see it in some far-off district land and ground that has a bit of historical significance for each inch.

Thatcher Woods (West)—Hundreds of acres of forest land, just beyond the city limits, that has long been recognized by scientists as Cook County's foremost specimen of virgin oak and maple forest. For years it has been recognized as a popular picnic grounds, thousands of Chicagoans having visited the grounds on Sundays. All public conveniences and shelter. Springs providing the purest form of drinking water known are found on every side of the preserve.

Salt Creek Valley—(Woodland covering both banks of this famous waterway of Indian days, running the Desplaines river to the western county line.)

Timber land that is unexcelled anywhere in the world. The Salt Creek Valley has been characterized as the most picturesque river valley in the country, artists coming from everywhere to study it. For a mile and a half the river runs in a northerly course, the only place in the State of Illinois where water runs north. The McCormick tract containing two picnic groves that have long been popular, now selected as the location for the "world's greatest zoological gardens" to be established by the Forest Preserve District. What has been styled the most natural golf course in the country, for improvement of which plans have already been laid.

Beverly Hills—(The Beauty Spot of the South Side.)

Starved Rock's only rival in Illinois, the promontory of solid rock that was utilized by the Indians as a lookout in the days when quick signaling was necessary to mobilize the redskin warriors against invading white men. Completely equipped picnic grounds that have been used for years. Picturesque scenery such as found nowhere else in the country.

Palos Hills and Sag Timber (Southwest)—Where seventeenth century history was made in Cook County. Over 7,000 acres extending along the Drainage Canal and back into the famous Sag District.

Over 7,000 acres of the wildest and most picturesque forest land in the country, a tract in which naturalists and historians might well spend weeks. It is threaded with well beaten trails which follow the lines taken by the Indians and French settlers in the county's earliest days.

Ruins of two French forts are to be found in the preserves and will soon bear identifying marks to be fixed by the Forest Preserve Commission. It was in these forests that Marquette took refuge from floods on his second trip into "The Illinois."

Thornton-Glenwood Tract—(Including the celebrated Marinka Springs.) Picnic grounds set down in hundreds of acres of superior forests that have shown their popularity by the visits of hundreds of thousands even before the improvements made by the Forest Preserve Commission. The site that has been selected by historians as the site of the Battle of South Chicago, a battle of the Revolutionary War in which Americans and Indians were pitted against the British from Fort St. Joseph.

State Line District—Burnham. West Hammond.

Sauk Trail District—(At Chicago Heights, the junction of the Lincoln and Dixie Highways.)

The haunts of the old Sauk Indians, hundreds of acres of woodland embodying scenic effects not to be found anywhere else. Miles of forest connected by the city park of Chicago Heights, dotted with bodies of water and beautiful streams that are a delight to admirers of the handiwork of nature. Dozens of popular picnic spots. Most accessible of all Cook County's wooded tracts for motorists.

Skokie and Its Attractions—Parts of the Skokie Valley recently have been purchased by the District and it is expected that approximately two thousand acres of the tract will be acquired. Purchase of this picturesque property has been under consideration by the Board since its recommendation was made by the Plan Committee April 2, 1917.

Dozens of varieties of birds make their home in the Skokie and in the spring and autumn seasons migratory birds and such wild fowl as geese and ducks find quarters there to and from their breeding grounds in the Canadian region south and west of Hudson's Bay. At seasons of flood tide the Skokie becomes a shimmering pond. In the summer and early autumn the tract is a weird field of waving marsh grass, with patches of bullrushes and other

growth peculiar to the place. It is conveniently crossed by good roads and its borders are generously enriched by timber, while to the eastward the ground, occupied by private residences, is high and affords a splendid view towards the setting sun, the glory of which is seen to splendid advantage.

Advantages are Summarized—Thus, at the very doors of the 3,000,000 people of the city of Chicago and the tens of thousands of other residents in the many score of suburban communities within the boundaries of Cook County, are found advantages of which the following is a brief summary:

Refectories (leased privileges) where luncheons and beverages may be procured under a restricted price arrangement.

Bathing facilities at Camp Reinberg and banks of the Desplaines.

Canoe and oar-boat advantages.

Trails where hiking through woods and open stretches is a source of healthful recreation and where visitors who walk may read the wondrous story of the District.

Golf courses at Palos and Edgebrook.

Baseball diamonds, cinder tracks and a field in connection with each for general athletics.

Education in natural history in the field developing the powers of observation and promoting self-reliance.

Equestrianism along shaded paths.

Picnic facilities for the officials and employees of industrial and commercial firms and corporations, churches, Sunday schools, fraternal organizations, etc.

Sites for outdoor camping.

Rustic log cabins for Boy Scouts, Camp Fire Girls and their friends, each equipped for mess privileges and made safe against intrusion.

Adequate highway facilities and parking spaces for motorists.



Illustration of a classical building facade, possibly a government or institutional structure.

Chicago has confidence in her future. Now the fourth largest city in the world and the greatest distributing center on the globe, the city is forging ahead to even greater leadership and achievements. To this end Chicago is planning and building.

Never in the history of this metropolis have so many extensive building projects been attempted as are now under way. This includes not only buildings for Chicago's commerce and industry but also great civic improvements which will beautify the city to a remarkable degree.

Chicago is in Midst of Greatest Building Boom in History

Chicago is in Midst of Greatest Building Boom in History—Chicago is experiencing a great building revival. It is entering what promises to be one of the three outstanding construction periods of its career.

Not since the Worlds Fair, and before that the great fire, has work begun on so vast a scale, including the great office buildings and hotels of the business section, as well as the apartments and homes of the outlying districts.

An Outlay of Many Millions—The new buildings now under way represent an immediate outlay of many millions of dollars. They will provide employment for many thousands of men.

When building prospers other lines of business prosper. The building revival has a direct relation to the revival of general business in Chicago. Construction work has come to be regarded as one of the surest indicators of the developments which are to be expected in the field of general business.

The notable campaign for clean conditions in the building industry, which has been conducted by the Citizens' Committee to enforce the Landis Award, has opened the door to progress. Building in other cities, where old-time conditions exist, is holding back, while Chicago is going forward in a manner that demonstrates more effectively than anything else could the great need for the aggressive campaign which the Citizens' Committee is waging.

Conditions a Year Ago—About a year ago conditions in the building industry were such that building was almost at a standstill. Through graft, strikes, unreasonable wages and combinations between contractors and working men, the cost of building was so high that it was almost impossible for business. The Association of Commerce, realizing that the progress of Chicago was at stake, organized the Citizens Committee to Enforce the



CHAPTER SIX

GREATER CHICAGO IN THE MAKING

Building Boom and Civic Improvements Mark New Era in City's Growth

Landis Award, as Judge Landis, asked to arbitrate the wage disputes and adjust labor conditions of the building trades council, had passed under a decision and established a basis under which the various trades were to work.

Inasmuch as certain unions would not accept the Landis Award conditions for working and were using violence to prevent all unions from working, the Citizens Committee set about to enforce the award. A fund was raised to do this. Twelve unions that violated the terms of the award, or refused to come under the terms of it were placed on the open shop list and the places recalcitrant journeymen filled with mechanics who would obey the terms of the Landis Award.

Throughout the long struggle during the past year, the members of the Citizens Committee and their backers have kept steadily going ahead until on November 18, 1922, one year after the birth of the committee, the total value of all Landis Award work, new buildings, repairs, decorating and painting, and other subdivisions of the building industry, reached \$115,000,000. By January 1st the result was the completion of \$125,000,000 worth of Landis Award Construction, and of 76 per cent of all jobs over \$25,000 by Landis contractors.

Changes for the Better Secured—Among the changes for the better in the building situation brought about by the Citizens Committee during the year, with the co-operation of leading Chicago contractors, are:

Elimination of the jurisdictional and sympathetic strike.

Elimination of all restrictions on mill-work and other building material.

Filling of 29,402 requests for building mechanics from over 800 contractors—a material aid in times of labor shortage.

Placing of 479 union bricklayers and 211 union plasterers from out of town in Chicago to help meet the terrific shortage of these craftsmen during the year.

Organization of a trade school to bring new blood into the building industry, and to train competent mechanics for supervisory positions.

Organization of ten trades on an open shop basis because of refusal of unions to abide by the award during the year, bringing total trades in this class to thirteen.

Completion of \$125,000,000 worth of Landis Award construction, and of 76 per cent of all jobs worth \$25,000, or over, by Landis contractors.

Some Notable Buildings—Chicago's great building boom includes the erection of some magnificent church, office and industrial buildings.

The Great Union Station on the west bank of the river, extending both north and south on Adams street, is one of the biggest projects now under way. The station building and the other improvements which are going on in connection with its construction, involves the expenditure of more than \$60,000,000. The immensity of this undertaking can be understood from the statement made by the engineers that the station building proper involves only a comparatively small percentage of the total expenditure.

The series of improvements had included the building of twelve new viaducts, the widening of streets, the construction of approaches, the moving of underground utilities and the construction of new track systems all the way from Quincy street to Roosevelt road. This work has been going on for several years and the station building is one of the last items in another list to receive the attention of the engineers.

The station, or headhouse, as it is called by the engineers, will occupy an entire city block. In addition to the station facilities, it will be a twenty-story office building. In front of the headhouse are the concourses for passengers and arcaded portions of the station. South of the concourses will be another low-roof train shed and beyond this will be the large United States Railway Mail Terminal which is now under construction.

Other new railway structures in the vicinity include the freight station and office building of the Chicago & Alton Railway. The Chicago, Burlington & Quincy Railroad is also putting up a freight station nearby.

A New Bank Building—The new Illinois Merchants Bank Building, which is built on the site of the old Grand Pacific Hotel, is the largest office structure in Chicago. It rises to a height of 260 feet, which is the limit permitted in the downtown district. The lot on which it stands has an area of 59,000 square feet and is 174x325 feet. This building has 3,126 exterior windows. The building houses the Illinois Trust and Savings Bank, the Merchants Loan and Trust Co. and the Corn Exchange National Bank which will in the future be known as the Illinois Merchants Trust Company. The three banks occupy all of the ground floor, all of the second floor, the mezzanine floor and space on several office floors. The main banking rooms extend from end to end of the property with an entrance on LaSalle street and another on Clark street.

The banking space is a magnificent hall 200 feet in length, unbroken by pillars. The architectural treatment of the building follows the traditions origi-

nally established with the building of the United States Treasury Department at Washington. The architects, Holabird and Roche, have depended for their effect upon simplicity, technology, and massiveness. The building is of stone from the sidewalk to the crowning cornice which is 260 feet above the sidewalk. The total length of counter space over which the public will do business is 1,512 feet. The main banking room is 53 feet from the floor to the ceiling, which is equivalent to four full stories.

The construction of this building makes the corner of LaSalle street and Jackson boulevard one of the world's great banking centers. Immediately across LaSalle street to the west is the new building of the Federal Reserve Bank which will be very similar to the Illinois Merchants' structure. Standing in front of the Board of Trade, one will be able to have a remarkable view from looking north along LaSalle street.

In summarizing construction activities which are under way, the work of reclaiming the lake front and putting in a boulevard parallel with the shore should not be overlooked. This project involves the expenditure of \$20,000,000 by the city for which a bond issue has been voted by the people. This work was started some months ago and is to go forward steadily. The Illinois Central will spend \$50,000,000 on its share of this work.

Largest Hotel in the World—The largest hotel in the world which is to be built on Michigan avenue between 7th and 8th streets is another of the big downtown projects. This project is being financed by the Hotel LaSalle Company of which James W. Stevens is President and Ernest J. Stevens, Vice President and General Manager. This hotel will cost upward of \$15,000,000. It will be twenty-five stories high or 260 feet and will contain 3,000 rooms. This hotel will be of special value to Chicago because of the facilities it will offer in entertaining big conventions. It will contain an exhibition hall with a banquet hall which will have a seating capacity for 4,000 persons and



Skyline and lake shore of Chicago as it looks today, looking north from the new Field Museum towards the Wrigley Building. Who can tell what it will look like in a few years now that the building has been taken off from the height of the skyscrapers? On another page is shown a view depicting the improvements proposed by the City Plan Commission.

a banqueting capacity for more than 2,000 guests. There will be twenty-two stories devoted to guests' sleeping rooms with 137 rooms on a floor. The building will contain 16,500,000 cubic feet.

The Strauss Building—Another large improvement will be at the southwest corner of Michigan avenue and Jackson boulevard, the site of the Stratford Hotel. This project to be erected by the Strauss Company will cost \$5,000,000. The building will have an average of 120 feet on Michigan avenue and 171 feet on Jackson boulevard. It will be 250 feet in height.

An insurance building, probably the most unusual home office building owned by any insurance company in the world, is the structure just completed for the Illinois Lake Shore Drive. The site is in Lake Shore Drive, covering three-fourths of the drive frontage between Division and Scott streets. In taking over this splendid property for commercial purposes the Illinois Life Company has been careful to build in harmony with the residential character of the neighboring properties. In outward appearance the building suggests a costly mansion and was in fact designed on a model inspired by one of the notable pre-Revolutionary chateaus of France. It is three stories high and of steel construction, thoroughly fireproof.

Big Insurance Building—Selecting as a site the old Fort Dearborn location at the southwest corner of Michigan avenue and River street, the London Guarantee and Accident Company is putting up on this beautiful location a 21-story office building that will be a fitting adornment to Michigan avenue, which already boasts of the Wrigley building. This new edifice is directly across from the Wrigley building and was designed by Architect Alfred S. Alschuler. It will cost approximately \$2,500,000 the total investment including the site being figured at \$4,000,000.

The building will be 200 feet high. It will have two wings in Michigan avenue, one with 44 feet frontage, and one with 24 feet frontage.

The New Tribune Tower—Upper Michigan avenue is promised another magnificent building as the Chicago Tribune is planning to erect what is claimed will be the most beautiful and modern type of skyscraper building in the country. Tentative designs for this building have already been announced as the design for it was selected as a result of prize competition into which some of the most famous architects in the world entered. The building, to be known as the Tribune Tower, will be erected on the land immediately in front of the Tribune plant.

The Chicago Temple—Among the new loop buildings the Chicago Temple Building, now nearing completion, constitutes the most unique church and office building ever erected in Chicago. It is being put up by the Methodist Church and will be an outstanding beauty spot in the loop district.

The building contains a basement and twenty-one stories surmounted by a tower of imposing beauty. The first floor is devoted to shops and the church purposes, the second to church activities and the nineteen upper floors to offices of the highest character. The whole is surmounted by a tower with its center on the center line of the Washington street frontage. In planning the building it was essential to so arrange it as to obtain and still provide adequate facilities for the church activities. The auditorium required (that is, 1,300 seats) was of such size as to necessitate its location on the first floor, but it had to be so arranged as to leave a continuous line of stores on the two street frontages. It was determined, consequently, to put the auditorium in the southeast corner of the lot, as far back as possible from the Clark street frontage. The natural position for the elevators for the office building on the east property line near Washington street established the office building entrance at that point. There are eight high-speed gearless elevators. The entrance to the church is at the north end of the auditorium on Clark street. The arrangements thus determined permitted five shops on Clark street twenty-six feet deep and nineteen feet wide between the alley and church entrance. The space at the corner defined by the two streets, the office building and church lobbies is available for rental and constitutes a single area of about 3,400 square feet.

Tower Is High—The tower extends from the 260-foot height (that of the main portion of the building) to a height of 400 feet, or a total of 140 feet in all. It is not only faced with stone on all four sides but the same design and ornamentation adopted on the street fronts is continued on its east and west faces. The form of the tower is octagonal braced with buttresses and flanked by pinnacles. It diminishes from 82 feet at the base to about 30 feet at the top. It will be illuminated at night and a beam of light will be thrown outward from the top. This tower will unquestionably dominate the silhouette of the loop and will reach the highest level of any building yet designed in the city. The tower will have an elaborate set of chimneys, which will be heard for miles around.

The facing material of the building used throughout is variegated Indiana lime-

stone. The building and tower are extensively ornamented and there is a considerable amount of appropriate carving.

The total cost of the Chicago Temple will be about \$3,500,000. The property fronts 80 feet on Washington street and 182 feet on Clark street, at the southeast corner of their intersection. There is an 18-foot alley on the south.

Hyde Park Developments—Hyde Park is also seeing some major plans for real estate improvement with the announcement that two new boulevard hotels are being constructed. One of these, to be located on the northwest corner of Hyde Park boulevard and 53d street, is to be known as the East End Park Hotel and will contain 170 apartments with five stories on 53d street. This corner, which is opposite the Cooper-Carlton and the Sisson Hotels, is one of the most desirable locations on the south side. The other hotel will be erected on Hyde Park boulevard between 51st and 52d streets, commanding an unobstructed view over East End Park. This plot will be improved with a ten-story building costing upwards of \$1,000,000. Other south side buildings which are either contemplated or ready for occupancy are the Woodlawn Trust and Savings Bank Building at the corner of 63d and Woodlawn and the giant Midway Masonic Temple. The latter is considered one of the finest Masonic homes in the Middle West.

Many New Apartments—Millions of dollars worth of new apartments and apartment hotels will be erected on the north side, according to present plans. One of the handsomest to be built is the Churchill, to be located at the southeast corner of North State and Goethe streets. H. L. Stevens and Company, specialists in hotel construction are the designers of the structure. The hotel will be nine stories high and the land, buildings and furnishings represent an investment of approximately \$2,000,000. The exterior of the building will be an Italian renaissance, the walls being of buff pressed bricks and Bedford stone trimmings.

De Luxe apartments to cost over \$2,000,000 are planned for the Estes avenue block adjacent to and west of Sheridan road. Four fireproof structures containing 250 apartments will be erected on this site. Ten high-grade 42-apartment buildings to cost \$2,500,000 will be built on a 1,500-foot frontage along Sheridan road, Estes, Kenilworth and Glenwood avenues. Buildings of this nature should mean relief from the house shortage, providing as they do accommodations for hundreds of people.

A whole block in the north central district has been purchased by three fire insurance companies and will be improved with an eight-story office building. This block is bounded by East Pearson, East Chestnut, Cass and Rush streets. The American Eagle, Continental and Fidelity Phenix are the companies involved in this big transaction.

Printers Are Active—A number of business buildings devoted to the printing industry are either being erected or will be in the near future, according to an announcement by Alfred S. Alschuler, the architect. One of the notable groups in this class is the series of three buildings,

six stories high, erected for John F. Cuneo to print the western edition of the Saturday Evening Post and other nationally known magazines. The first unit is being built now. All indicate the tendency toward moving the publishing of magazines to Chicago instead of to the east. The cost of the three units will be approximately \$1,800,000.

Phillipsborn have built a modern 8-story mail order plant which occupies the block bounded by Harrison, Paulina, Congress and Marshfield avenue. This building cost in the neighborhood of \$2,000,400.

Other business buildings which will represent millions of dollars are the Hudson and Marmion structures on Michigan avenue. The Marmion building is going to be a two-story salesroom and service station, while the Hudson will be three stories high. Both are pseudichrome terra cotta of the Spanish renaissance style and when completed will represent an investment of approximately \$1,300,000.

Indicative of the rapid progress being made in the South Michigan avenue district, as well as in the North Michigan neighborhood, is the seven additional stories being built on the present Blum Building which will be converted into a modern office building. Work on this is moving rapidly with a view of completing it for fall renting. Alfred L. Alschuler is the architect.

The Childs Restaurant Company is planning to erect a seven-story building at the southwest corner of Van Buren and State. It will be of terra cotta and glazed brick. D. H. Burnham is the architect.

The New McVickers Theatre—Nineteen hundred and twenty-two saw the passing of McVickers Theatre, Chicago's oldest playhouse, after sixty-five years of consecutive service to Chicago playgoers. In the year 1857, James H. McVicker opened his famous McVickers Theatre with "The Honey Moon" and "The Rough Diamond," and since that time the theatre has never been closed, winter or summer, for a single week. The new structure cost \$2,000,000.

The Admiral Hotel at the southwest corner of Lake Michigan and Foster avenue across the street from the Saddle and Cycle Club will contain, when completed, about 500 rooms and will be of the highest type fireproof construction throughout. The west half of the building, now under construction, will contain 250 rooms and will be ready for occupancy in the fall. An Italian garden, surrounded by pergolas with boat landings on the lake, will be one of the chief attractions in connection with the hotel, for the exclusive use of the tenants. The hotel ground covers an area of over one acre of land. The building is 145x260, ten stories and basement in height.

Big Landis Award Jobs—Inspection of the list of Landis Award Jobs done by contractors working under this award during 1922 reveals in greater degree the extent of Chicago's building boom. Among the buildings handled by Landis contractors may be mentioned:

American Medical Association building, 587 North Dearborn street.
America Post Building, Rush and Pearson streets.
Averell Printing Company building, 20th street and Prairie avenue.

Augustana Hospital addition, 2643 Cleveland street.
Beach, E. J. & Son, building, 401 North Kilpatrick avenue.
Benn building, Harrison and Wells street.
Blum, Harry, Inc., building, 624 South Michigan avenue.
Burlington Hotel, 7500 Bowdoin street.
Chicago, Burlington and Quincy freight terminal, Harrison and Polk streets.
Chicago Union Station excavation, Canal and Adams streets.
Comstock Hotel, 1255 North State street.
Cuneo, John F. & Co., building, 2342 Cottage Grove avenue.
Cunneen High School addition.

Embassy Hotel, 541 Diversey parkway.
Field Museum, Shubert Theatre, Grant Park, at 12th street.
Fourteenth Church of Christ Scientist.
Federal Reserve Bank building, LaSalle street and Jackson boulevard.
First Baptist Church, Oak Park.
First M. E. Church (Chicago Temple building), Clark and Washington streets.
Grain elevator and power plant, 122d street and Calumet river.
Harbor View Hotel, 3818 Sheridan road.
Illinois Life Insurance building, 1212 Lake Shore drive.
Illinois Merchants Bank building, Clark street and Jackson boulevard.
Illinois Central Hospital addition, 5746 Stony Island avenue.
Immanuel Baptist Church, 3320 South Michigan street.
Independent Packing Company, Forty-first and Belmont streets.
Judson Hotel, 508 Sheridan road.
London Guarantee and Accident building, Michigan avenue and River.
Methodist Episcopal Old People's Home, Evanston, Ill.
Presbyterian Church, Evanston, Ill.
Park Ridge School addition, Park Ridge, Ill.
Rena Hotel, 855 Diversey parkway.
U. S. mail terminal building, Harrison street and Lake Street.

University of Illinois, medical college, Polk and Lincoln streets.
Waldorf Hotel (new), Cornell avenue and 64th street.
Wieland, W. A., building, 1314 Hauwans street.

The following table shows how Chicago is building for the future. It also shows how building permits for this year are greater than for the same period last year:

BUILDING PERMITS

| | Feb. 1922 | Jan. 1923 | Feb. 1923 |
|------------------------------|--------------|--------------|--------------|
| Stores | 116 | 127 | 115 |
| Offices, etc. | 4 | 7 | 11 |
| Residences | 288 | 395 | 301 |
| Halls, churches and churches | 192 | 263 | 263 |
| Apartments | 6 | 10 | 6 |
| Stores and offices | 6 | 20 | 9 |
| Stores and residences | 1 | 1 | 1 |
| Halls and churches | 3 | 3 | 1 |
| Apartments | 2 | 3 | 1 |
| Brick | 554 | 769 | 650 |
| Frame | 30 | 103 | 197 |
| Frontage | 20,998 | 30,073 | 26,736 |
| Cost | \$18,493,800 | \$18,411,600 | \$37,712,140 |

Building Situation is Breaking Records—Summarized, the building situation in Chicago shows that this city is out to break all records. The answer to "Is Chicago Growing?" is shown by these facts:

Value of building in 1922 broke all records—total value of permits \$234,000,000.

Permits for 1923 passed the \$50,000,000 mark on March 5th.

Permits to this date were more than TWICE the value of permits in corresponding years.

Building, on basis of permits to March 5th, list, is estimated, be about \$300,000,000 for the year.

Speeding Up Chicago's Traffic—Many Streets Being Widened

Chicago has been outgrowing its streets so fast that the city has been obliged to take steps to improve traffic conditions. Many new projects have been undertaken and many are being planned to give



Michigan Avenue looking north from Randolph Street; the Public Library is shown at the left.

the city improved arteries of traffic which will enable the people to move faster. They will also be a great boon in the speedier transportation of the city's merchandise.

Michigan avenue, by means of the new improvements, has been speeded up. Twelfth street is another thoroughfare that has been improved and widened to give traffic more advantages. These two much needed improvements are being followed by the Ogden avenue project. By bridging Goose Island this thoroughfare will provide a direct boulevard connection with the southwest side. It will be a new street 108 feet wide from Lincoln Park to Union Park on a diagonal line three miles in length.

Relieves Congested District.—This new artery cuts through one of the most congested districts of the city. Buildings on 450 pieces of property were raised for the improvement at a cost of \$4,690,000.

In addition to facilitating traffic, this extension also gives light, air and playroom for thousands of children who rarely find an opportunity to get to the parks and playgrounds. As in the case of the Michigan Avenue Link Bridge improvement, where property values immediately increased more than \$200,000,000, property along the line of the Ogden avenue extension already has increased from 50 to 200 per cent.

But increase of land alone is not the only benefit derived from such improvements. Each widening or extension is followed by an era of building activity and highly new improvements add to the beauty of the city and the wealth of her citizens. Inaccessible, unattractive districts become alive again and new highways are provided to care for the great demand of modern traffic.

The Western Avenue Project.—With the completion of the Western Avenue, Ashland Avenue and Robey Street improvements, these important thoroughfares will take their rightful places as avenues of trade and communication, with increased values, new structures and adequate room to handle the local business as well as traffic through the city.

Work on the Western Avenue widening already is under way. This street is to be widened 17 feet on each side, so as to give it a uniform width of 100 feet from

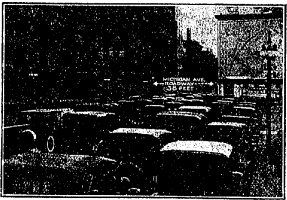
Howard Street to 119th Street. Western Avenue, the longest street in the City of Chicago, is 23½ miles long, connecting on the north, via Asbury Avenue, Ridge Avenue and Sheridan Road, with Milwaukee, and from Milwaukee via State Trunk Highway, with Marquette, Mich., and connecting on the south side with the Dixie Highway and the Lincoln Highway—the longest highway in the world.

Randolph Street Being Widened.—West Randolph Street, from Sangamon Street to Ogden Avenue is to be widened from eighty feet to one hundred and fifty feet to conform to the width of the present West Randolph Street Market. The rise in property values in this district already exceeds fifteen million dollars, whereas the cost of the improvement is estimated at about three million dollars, including buildings and construction. This Randolph Street widening joins the Ogden Avenue extension at Union Park. Values at this junction point have actually increased from one and one-half dollars to nine dollars per square foot, and are still rising.

LaSalle Street Needs Improvement.—Widening of LaSalle Street from Washington Boulevard to Lincoln Park is in prospect. The plan has been unanimously adopted by the Chicago Plan Commission.

Because of its location, striking into the heart of the loop, LaSalle Street has been picked as the logical choice for a new north and northwest traffic artery. It connects directly with the principal drives in Lincoln Park, with Clark Street and Lincoln Avenue. If the terminal plans outlined by the commission become realities, and LaSalle Street south of Jackson Boulevard and Sherman Street are carried through to the south side, the new boulevard will provide an alternate route with Michigan Avenue for through traffic.

It is proposed to widen LaSalle Street to 100 feet between Washington and Ran-



Michigan Avenue looking north showing the traffic congestion before the boulevard has been widened.

dolph Streets by taking 20 feet of the property on the west side of the street opposite the city hall. Between Randolph Street and Austin Avenue, it will be 120 feet wide, 20 feet being taken on each side of the street. North of Austin Avenue it is proposed to make it 108 feet in width by adding 14 feet on each side. A bridge across the river will be not less than 84 feet wide.

Figures on the traffic which now pours into the loop over the Michigan Avenue link were given out by E. S. Taylor, manager of the commission. Eighty per cent of the traffic from the north enters the loop

by Michigan Avenue. Of that which stops in the loop, 57 per cent goes west to State Street. This is the traffic, said Mr. Taylor, which the commission hopes to divert by the new improvement.

Estimates by the commission's experts who have studied the project for more than two years place the cost at \$11,500,000.

The Madison Street Bridge.—Contemplation of the new Madison Street bridge has helped to speed up traffic out of the loop on the west. The cost of the bridge, a double leaf trunnion bascule, and east approach, was \$1,600,000. The viaduct from the bridge to Canal Street was constructed by the Union Station Company.

The bridge is equipped with safety devices of the latest types, consisting of warning bells, sidewalk and roadway gates, roadway gongs, stop signs and flashing red lights on the roadway gates. These devices are electrically interlocked with the operating mechanism of the bridge, making it impossible to open the bridge unless all safety devices are in operation.

Work on the bridge was begun in December, 1919. It is the fifth one built at Madison Street, the first being a wooden bridge constructed in 1849 with funds provided by public subscription. This was replaced in 1857 by a hand operating iron swing span—the first bridge built entirely at the city's expense, in spite of a vigorous protest of the taxpayers.

In 1891 a steam operated steel swing bridge was constructed, 197 feet in length and 52 feet in width. Operation was changed from steam to electricity in 1907. Two years later the bridge was damaged by a vessel, new drum and supports were built and there was a general reinforcing of the structure for the increased heavy traffic.

The substructure of the present bridge is carried on subpiers resting on rock averaging 97 feet below city datum. The subpiers are spaced so as to allow future subway construction. The bridge gives a clear channel of 185 feet.

"Through Streets" Are Created.—Seventeen spillways for the relief of both loop and boulevard traffic congestion has just been opened through the creation of "through streets." Under this system motorists will be protected by boulevard rights on the following streets:

North La Salle Street from West Ohio Street to North Clark Street into Lincoln Park.

Addison Street from Sheridan Road west to its terminus.

North Ashland Avenue from Irving Park Boulevard north to its terminus.

Greenview Avenue from Irving Park Boulevard south to Clybourn Avenue.

East and West Ohio Street from Lake Shore Drive to Orleans Street.

South Park Avenue, from East 22d Street to East 33d Street and from East 51st Street to 91st Street.

East 57th Street from Cottage Grove Avenue to Stony Island Avenue.

Woodlawn Avenue from East 44th Street to East 67th Street.

Jeffrey Avenue from East 67th Street to South Chicago Avenue.

North Central Park Avenue from Franklin Boulevard to West Grand Ave-

nue and from West North Avenue to Cornell Avenue.

North Laramie Avenue from West Washington Boulevard to West North Avenue.

South Michigan Avenue from East Garfield Boulevard to East 63d Street.

West 63d Street from South Michigan Avenue to South State Street.

South State Street from 63d Street to 68th Street.

Vincennes Avenue from West 68th Street to West 193d Street.

West 95th Street from Vincennes Avenue to Longwood Drive.

Longwood Drive from West 95th Street to West 111th Street.

There are some 60 intersections at which "stop" signs are being erected. The signs are eight feet high. On the cross bar is the legend, "Through Street, Stop." A red and black background with aluminum lettering makes the warning visible at some distance. Wherever it is placed traffic from intersecting streets stop, for the "through streets" have the right of way.

Ordinances do not restrict the "through streets" to certain kinds of vehicles and in this respect the new ways have not reached the dignity of boulevards. Automobile clubs and various organizations worked for the new traffic plan in the belief that it will help to make it possible for Great Chicago to move faster.

Chicago to Have Biggest Zoo in the World—Zoological Park West of City to be Great Wild Animal Land

Work has already begun on transforming the tract of land adjoining the forest preserve tract at Riverside into the greatest zoo in the world. The land was donated some time ago by Mrs. Edith Rockefeller McCormick for this purpose. According to the plans now being worked out this land will house a menagerie of unsurpassed magnitude. John H. McCutcheon is president of the Zoological Society which, with the forest preserve commissioners, is directing the affairs of this enterprise.

The big feature of the project is that all animals will appear in their natural habitats. Animals will be confined by shelving arrangements of rocks. No fences or rough steel barriers will be used. Runways will be as natural as it is possible to make them within the zoo. Lagoons will be made for swimming and wading birds, while fish will swim in natural basins.

Curator Comes From Boston.—Dr. George Frederic Morse, curator of the Boston Zoological Gardens and Aquarium, was chosen as the zoo's first director. He arrived early in December, 1922, and immediately took charge. Dr. Morse is a former student of Dr. William T. Hornaday, famous head of the Bronx Zoo in New York City.

The policy of the institution to provide spacious quarters for the animals, admitting of the greatest freedom of action and exercise, is highly approved by Dr. Morse. Plans and specifications by Edward Hagenbeck, noted German animal breeder, have been accepted by the board of forest preserve commissioners. Three members of the board and the chief en-

gineer of the forest preserve district went to Germany to co-operate with Mr. Hagenbeck in supplying details for the plans. The specifications follow closely those of the famous zoological gardens at Hamburg, but provide for the development of the institution on a much broader scale.

Original Cost \$1,000,000.—It is estimated that the original cost will be about \$1,000,000 and that about \$150,000 a year will be required by maintenance. The construction fund is being raised largely by public subscription. The Commercial Club of Chicago accepted the society's invitation to sponsor and promote the object and a large part of the membership of the Commercial Club was added to the governing board.

The Chicago Zoo will be far above the menagerial class. With the foundation of a large tract of land, forest and waters, there can be developed immediately an institution that will become famous at once, that will be of immense educational and recreational value to the three million people of Chicago and will be one of the city's greatest show places. Many animals which already have been acquired, together with others to be bought, will be provided with homes in the new zoo.

The site of the Zoo was given a critical survey recently by Dr. Hornaday, who was accompanied on his inspection trip by Messrs. McCutcheon, James Simpson, John T. Pirie, E. A. Bancroft, Judson F. Stone, Francis E. Manierre, Mayor Burlington of Riverside, Oscar G. Foreman, county and forest preserve commissioners; Frank J. Wilson and Emmett Wheelan; Dr. A. D. Weiner, general attorney, and Chief Engineer C. J. Flavin of the Forest Preserve district.

The new Zoo is not expected to detract from the popularity or belittle the Zoological Gardens in Lincoln Park which contain 2,500 specimens gathered from all parts of the globe. The finest collection of lions and tigers in the United States is to be found in Lincoln Park.

Tanks Containing Many Species of Fish.—In order that the collection may be seen to advantage, the bottoms of the tanks will be three feet above the floor level and the tops seven feet. In size they vary from eight feet square to two feet by one foot and the depth of water in most cases will be four feet, being designed to exhibit all varieties of fresh water fish from the large lake and river game fish to the smallest tropicals. The tanks will be lighted directly by continuous skylights and also by electricity in order that the building may be opened in the evening, if desired, and the effect will be that of a series of beautiful and brilliant pictures.

Behind the tanks and extending to the outer walls, a space eight feet wide is provided for operation and care of the tanks and for sixteen extra tanks each two by six feet by four feet deep, used for hospital purposes and for extra stock. The tanks will contain fish of two general classes:

Two General Classes of Fish.—Native Fish: All species of Lake Michigan fish and the game fish to be found in American waters—trout, muskies, bass, pike, etc.

Fresh Water Fish from Tropical Waters: Strange fish found in Hawaii and

China in particular, of wonderful coloring.

There will be no sea fish. The aquarium will provide three temperatures of fresh water—cold water, around 40 degrees, for the trout; ordinary temperature, from 60 to 65 degrees, for the bass, pike, etc.; "hot water," around 80 degrees, for the tropical fish.

The fish hatchery and aquarium will be of great educational value to the children of Chicago, adding another feature to the many for which Lincoln Park is noted.

Chicago to Have Fish Hatchery and Aquarium—Project Will Add to City's Attractions

A building destined to be of great economic and educational value is nearing completion in Chicago. This is the combination fish hatchery and aquarium which will be located in Lincoln Park. Here it is planned to hatch millions of fish fry which will be planted in Illinois lakes and there will be on display for the public all kinds of fishes in large glass tanks.

Hatchery of Big Size.—The hatchery will be located in the basement of the big aquarium building now being erected south of the lion house, under the direction of Supt. William H. Wesbey. It will far surpass the Spring Grove hatchery, the only one operated by the State. Among the species to be hatched are salmon, sturgeon, pickerel, pike, lake trout and white fish. It is being built of brick and stone with tile roof, one story in height and 153x82 feet in size, with entrances at the north and south.

The public space, approximately 130x30 feet in the center of the building, will be unobstructed, except for a pool and a fountain in the center. The ceiling will be vaulted, 18 feet high at the center and the walls will be almost entirely of plate glass. This glass, one inch to 1½ inches thick, forms the front of 86 concrete tanks, which will be lined with natural rock work and will contain appropriate water plants. The total capacity of these tanks will be about 350,000 gallons.

Chicago Destined to be Great "Seaport"—St. Lawrence River Project Will Boost City's Transportation Facilities

It is not a far stretch of the imagination to visualize Chicago, with two great seas brought to her door, as the greatest seaport in the world within a decade.

Calculations of a statistician who recently figured that with her present natural growth Chicago would pass Paris in two years, fade into insignificance before the tremendous expansion assured by the full development of Chicago's waterway transportation possibilities. Vessels from every nation will dock in Chicago's harbors, although the nearest tide water is 1,000 miles away, and Chicago's billions of dollars' worth of exports will go direct to their destinations without transfer from rail to water at New York or any other tidewater ports.

To bring the Atlantic Ocean in touch with Chicago and the great commerce of the middle west, the Great Lakes-St. Lawrence waterway is now being pushed by the Great Lakes-St. Lawrence Asso-

ciation. Regarding this project, H. C. Gardner, president of the Association says:

"Before Fort Dearborn was established Canada realized that the great rapids of the St. Lawrence River must be bypassed by canals, and in 1790 began the work. Chicago has always enjoyed an all-water route to and across the Atlantic; but the canals and their locks have always been too small for the now prevailing ocean-going ships so that constantly there has been necessary a breaking of bulk. Use of the small canal-sized boats and re-handling of cargoes have all these years been an almost unbearable handicap.

About 1891 there began a widespread agitation for relief by the building of the necessary canal links for ocean-sized ships. In 1895 Senator Vilas, of Wisconsin, secured the passage of a resolution under which an international commission was appointed to make preliminary studies and recommendations. Lyman E. Cooley, the eminent citizen of Chicago for many years, was on this commission, which reported favorably in 1895 and recommended full studies and surveys. This recommendation was carried out and in June, 1900, the report recommending construction was filed.

War Retards Progress—Meantime in 1898 we fought our Spanish war and at the end of it realized the necessity for the Panama canal. By common consent this great undertaking was given premier place in the national program, and Chicago and the middle west waited with patriotic patience.

On completion of the Panama Canal an attempt was made by M. F. Rittenhouse, Julius Barnes and some others to have the St. Lawrence improvement again taken up for action by the two governments. This was in February, 1914, but in August of that year Canada found herself in the World War and another disheartening wait was imperative.

Following the armistice, in January, 1919, the present movement for making the St. Lawrence fit for the passage of ocean-going ships and for the development of the incidental hydroelectric power was begun. The whole problem has been studied by the International Joint Commission, and an international board of engineers has made surveys and estimates. Unanimous reports have been filed with both governments, and negotiations as to terms are pending between them.

Reports are Favorable—The unanimous reports say:

(a) The river ought to be improved for navigation and for the incidental power of the international section.

(b) The improvement is entirely practicable and the incidental power worth the whole cost, both for navigation and power estimated at \$252,000,000.

(c) Existing tonnage is quite enough to justify proceeding, and there will be large growth.

(d) The basis of depth recommended is 25 feet in the earth sections, with 30 feet in locks which are planned 860 feet

long, 80 feet wide. But seven lift locks are needed, and only 33 miles of canal.

With these improvements made over 80 per cent, or with the 30 feet depth throughout as alternatively recommended by the commission, over 90 per cent of all ocean carriers shown in Lloyds Register could enter the Great Lakes and Chicago would be a great seaport."

The Proposed Waterway—This proposed waterway exactly fits the conditions under which it is agreed everywhere that an artificial new Welland Canal, now half built, Waterway will be economical at almost any cost when it constitutes a short link in a long natural water route. With the completion of the canal the way will be clear from Lakes Superior and Michigan through to the foot of Lake Ontario. The new Welland Canal is to have seven locks 30 feet deep and 860 feet long. There will remain but a short stretch of river between Lake Ontario and Montreal that is impassable to ocean commerce. It is this piece of river that it is proposed to improve. Pools are to be created by the building of dams where a large part of the rapids exist and some short canal links aggregating 33 miles of length and seven lift locks with two guard locks, locks and canal links to be of the same dimensions as the new Welland Canal. The route will then be open to the sea, for ocean ships now come up the St. Lawrence as far as Montreal, which city has become the second largest port on this continent for overseas trade.

Water Rates One-Fifth of Rail—It is an old rule that it costs as much to ship one mile by rail as to ship five miles by water. When distance from Great Lakes ports to foreign ports is considered, the advantage of the proposed route over all existing routes will be readily seen. New York and Montreal are almost exactly the same distance from Gibraltar. It is about as near by water from Great Lakes ports to Montreal as it is by rail to New York. All of southern Europe, North Africa, the Near East, South Russia and India are just as close to the Great Lakes ports by the all water route as by the rail-water route via New York, North Sea and Baltic ports, all north westerns and Northern European ports and Northern Russia ports are several hundred miles nearer Great Lakes ports via the St. Lawrence than via New York.

As an indication of the relative cost of water and rail haul, the provisions rate from Chicago to New York by rail is 63 cents per 100 pounds, a distance less than a thousand miles. The rate on provisions by steamer from New York to Hamburg, a distance of more than 3,000 miles, is 35 cents per 100 pounds.

The Grain Trade—It is said that the case for the Lakes to Ocean Route can be established on the basis of the grain trade alone. Our grain exports have been steadily increasing for the past 15 years. Of the 1920 wheat crop we exported 44 per cent, over a million bushels a day on the average, and about half as much corn. It is the price received for this surplus grain that fixes the price of the entire crop. At the lowest estimate it will mean a saving of five cents (5c) a bushel to the American farmer on all his grain, improving his position to the amount of \$366,000,000

a year, a yearly saving much greater than the entire cost of the waterway. It will mean a lower transportation cost on everything we export, meat and dairy products, and the hundreds of different manufactured articles produced in this territory. It will relieve the transportation shortage that always occurs when business is brisk. The entire profit on an export shipment has often been wiped out by lack of cars, congestion and traffic delays. The Soo canal connecting only Lakes Superior and Michigan earns its entire cost every six weeks all summer.

Chicago's Possibilities as a Seaport—Chicago, as the largest city on the Great Lakes, and the railroad center of the country, is the natural collection and distribution point for a vast area and will inevitably become one of the great seaports of the world. No city is so advantageously situated to reap the advantages of the St. Lawrence waterway.

The enormous saving due to cheaper transportation, the wider outlet afforded our exports and direct contact with all the markets of the world will all go to increase the wealth and prosperity of Chicago. Every condition to encourage the rapid growth of manufacturing will be present. A new impetus will be given to the commercial life of the city by the development of shipping and shipbuilding and the many lines of business necessary to carry on a large export and import trade. All business will be stimulated into greater activity and real property values must increase rapidly. It will bring to our lake cities a new spirit, a new stimulus, a new outlook, because they will have the direct contact with foreign lands that only sea cities can have. In their harbors will be ships from every sea and the mastsheads of these ships will fly the flags of all nations. They will unload their rich cargoes at our wharfs, not a thousand miles away, their sailors will be on our streets, their people will come to trade with us and we will go to them, and this contact with their civilization will teach us better to trade with them.

Chicago to Benefit by Lakes to Gulf Waterway—City Will be Linked With Other Centers of Commerce

Chicago's supreme position as the great central market will be further accentuated when the lakes to the gulf waterway is completed. Bids have already been asked on work to be done on this project and within three years Chicago will be linked with the gulf by a "flowing road" that will mean a big boon to the commerce and industry of the city.

Visualize a connecting waterway link between the Great Lakes, at Chicago, and the Gulf of Mexico and then you have an idea of the Illinois waterway and its possibilities. Briefly, the Desplaines and Illinois rivers will be canalized a distance of sixty miles between Lockport and Utica to make a navigable channel eight feet deep.

Thus Chicago will be linked with Pittsburgh, Cincinnati and Louisville on the Ohio, Chattanooga and Nashville on the Tennessee and New Orleans and St. Louis on the Mississippi—as well as with Minneapolis and St. Paul through the upper Mississippi and with Kansas City when the Missouri river is improved. The work

on the Missouri has already been authorized by the government.

Communication with Gulf Ports—Direct water communication will then be given Chicago to the gulf ports, South America, the Orient and west coast states. Chicago will be able to bring her coal up from the Ohio river at Cairo and lumber from the southern states, as well as ship a larger volume of her export tonnage direct to the gulf by water. It now goes by rail to Cairo where it is loaded on barges for New Orleans.

The Mississippi-Warrior barge line, operated by the U. S. War Department, already is used to advantage by Chicago industries. A great saving in transportation and handling costs will be effected when the Chicago link is completed. The International Harvester Company, for example, brings its sisal fibre, the raw material used in binding twine, up from Yucatan, Mexico, as far as Cairo by water, thence by rail to Chicago. The Bemis Bag Company brings up its burlap in the same way.

Locks to Be Built—A number of locks will be constructed as a part of this great waterway, which also includes the development and utilization of water on the stream. The latter is required by law. The first one will connect the Sanitary District channel with the Desplaines river at Lockport and will have a lift of 41 feet. Then about two miles below the junction of the Desplaines and the Kankakee will appear the Dresden Island lock.

After passing this one the Illinois river can be utilized for several miles in its natural condition until Marseilles is reached and here a lock will be located. This one is, according to L. D. Cornish, assistant chief engineer of the Division of Waterway, 95 per cent completed.

The last lock along the route to be improved by the state will be located in the picturesque Starved Rock region. So here are five great locks, two of them with greater lift than any in the Panama Canal, which will raise and lower tugs and barges a total of 123 feet in the 60 miles between the two Illinois cities LaSalle and Lockport.

Grain and Coal Costs—The Illinois Waterway will require the expenditure of \$20,000,000 and take three years to complete. At this writing the state figures that it will save Illinois and western farmers five to seven cents per bushel on every bushel of grain shipped to market on barges; and that it will save the people of Chicago \$1 a ton on all coal brought up by boat.

It is estimated that barges of 1,000-ton capacity will be able to operate in fleets of 9 to each tug, the locks being of sufficient size to handle 900 tons of freight at a time. A fleet of 9 to 12 tugs, it is calculated, will be kept constantly plying between Chicago and New Orleans, carrying manufactured articles and grain from the Great Lakes to the Gulf at considerable saving over railroad freight rates and bringing back the sugar, coffee, rice and other products for distribution throughout the North and Northwest.

Chicago now consumes 30,000,000 tons of coal per annum and the consumption is increasing at the rate of 1,000,000

tons annually. About one-half of this coal comes from southern Illinois mines within fifty miles of navigable water. Coal from these mines can be delivered to Chicago by water for \$1.00 per ton less than present freight rates, consequently a large coal tonnage through the waterway can be depended upon. Mr. Barnes says that he has been approached by and has held many conferences with officials of various corporations seeking information relative to terminal facilities, fleet capacity of the waterway, date of completion, etc.

The aggregate tonnage through the waterway for which these corporations are planning totals 15,000,000 tons of coal and 5,000,000 tons of ore.

Use for Freighters—The steel mills of the Chicago and Gary districts receive annually by lake about 8,000,000 tons of iron ore and the freighters which bring it return empty. With Illinois coal costing \$1 less per ton, these freighters could make a rate for delivery at upper lake ports and compete successfully with freighters carrying Eastern coal.

Illinois produced in 1902 about 214,000,000 bushels of grain from the area within 40 miles of this waterway and the Illinois river. In 1921 the port of Chicago shipped 78,000,000 bushels of corn by great lakes water carriers. This quantity equals 63 per cent of the 1920 corn production of the state within 40 miles of the waterway. It will be possible to haul the export portion of the grain produced in this area, by trucks to the waterway and in barges to either Chicago or New Orleans at rates materially lower than rail rates.

On the banks of this waterway are found the immense deposits of the commercially famous Ottawa sand, large quantities of which are used by every steel company and foundry from St. Louis to Gary and to points along the Ohio river and the Great Lakes. Also along the banks of this waterway are found inexhaustible deposits of sand and gravel mixed by nature in the proper proportions for concrete so that after separation by screening there remains a very small percentage of waste material. Chicago's annual consumption of sand and gravel is over 3,000,000 cubic yards. Because of the saving in transportation of coal, steel plants in the Chicago area already have announced their intention of owning and operating their own fleets of coal barges.

The Mississippi Valley Association—The Illinois Waterway is being pushed by the Mississippi Valley Association, of which H. H. Merrick of Chicago formerly was president and which now is headed by James E. Smith of St. Louis; the Illinois Waterway Commission, the Illinois Manufacturers' Association, the Waterway Committee of the Chicago Association of Commerce and the Illinois Chamber of Commerce, the Waterway Association of Illinois, the Illinois Valley Protective Association and the Great Lakes-St. Lawrence Tidewater Association.

The Tidewater Association is as much interested in the Lakes-to-the-Gulf as it is in the Great Lakes-St. Lawrence project, because the one is necessary to the other to make Chicago the world's greatest seaport.

Chicago's Assets for Waterway Transportation—Within the Chicago industrial and commercial district, extending from the Evanston line to Gary along the lake shore and far landward, nature and the genius of man have paved the way for waterway transportation to the sea. In submerged lands alone, all publicly owned, the Chicago district possesses nearly 100 square miles, any part of which may be raised into land to serve one great purpose or another. This is an asset of almost incalculable value.

The new \$5,000,000 Municipal Pier extending one mile into the lake, was planned and built with Chicago's future as the world's greatest seaport in mind. The pier allows a dockage space of 8,500 feet for ships. Extending east from the headhouse for a distance of 2,340 feet are passenger and freight buildings, each 100 feet wide with an 80-foot roadway between. Several regiments of soldiers, or approximately 20,000 men, could be accommodated in each building. The available space for freight aggregates 456,300 square feet.

Chicago Has Four Harbors—Chicago now has four harbors, and an ordinance passed by the City Council in 1919 provides for the construction of what may be used as an additional harbor, formed by extending Sixteenth and Thirty-first street into Lake Michigan, building up the front and dredging the area between. This will add 8 miles of dockage to the fifty-two miles of water front in the four harbors already equipped with both dock and railroad facilities.

A plan developed by Colonel W. V. Judson, district engineer of the War Department, and now being carried on by John W. Woermann, of the United States Engineers' Office and an Illinois-Indiana commission, proposes another harbor in the three and one-half miles of lake shore between South Chicago and Indiana Harbor, together with adjacent submerged and marshy land constituting Wolf Lake and the margins. This plan has the approval of that branch of the United States Shipping Board devoted to the study and planning for port facilities.

Colonel Judson's plan shows sixteen piers on the Lake Michigan shore, each 3,000 feet long and 750 feet wide, affording simultaneous accommodation for 232 vessels of an average length of 500 feet. In the line of wharves on the lake front there would be railway yards sufficient for the storage and movement of some 16,000 freight cars. His plan further contemplates, inside of the shore line in Wolf Lake, the construction of nine piers, each 750 feet wide and averaging 4,100 feet long, together with 14,200 additional linear feet of quay or wharf fronting, affording accommodation for 212 vessels averaging 500 feet in length. Back of the Wolf Lake piers would be railroad yards large enough to take care of the movement and storage of 8,400 freight cars. Thus the total wharf frontage indicated both within and outside the shore line aggregates 222,840 linear feet, sufficient for 444 vessels. The warehouses planned for the piers alone will accommodate 2,473,500 tons of freight.

Barges from the Illinois and Mississippi river would reach the Wolf Lake wharves

via the sag channel and the little Calumet and Calumet rivers, either passing out of the mouth of the latter into the breakwaters area or by going to Wolf Lake by a canal connecting the south end of the latter with the Calumet. Lake and ocean vessels, with but slight deviation from their courses, stop at wharves at the mouth of the Chicago river to take on or discharge freight. Stops of this character are common at Hamburg, for example.

There are 22 miles of wharves on the Chicago river and nearly seven miles of dockage space at slips. On the Calumet river 14 miles of dockage space is available. Both the Chicago and Calumet rivers have been dredged to a depth of 21 feet.

With the completion of the waterways to the sea and the development of proper transfer port facilities, lighters of proper and other river craft will give Chicago free access to thousands of miles of inland waterways.

The Chicago Plan—Millions Being Spent to Beautify Chicago

The citizens of Chicago are proud of her giant growth, her commercial wealth and her industries but they are also ambitious to build a city that will be second to none in beauty, orderliness and grandeur. To this end public-spirited citizens are banded together working indefatigably on pretentious plans to beautify the city. This group constitutes the Chicago Plan Commission.

Charles H. Wacker, chairman of the commission, describes the organization, its aims and work, in the following manner:

"One of the many things for which Chicago is noted is the Plan of Chicago: a comprehensive, scientific scheme of orderly growth for the entire municipality. Sixteen years ago The Commercial Club of Chicago, an organization of one hundred leading merchants, manufacturers, bankers and professional men, gathered together a staff of the best technical talent obtainable for the preparation of a plan for Chicago.

"This staff was headed by the late Daniel Hudson Burnham and by Edward H. Bennett, present Consultant to the Chicago Plan Commission; and they and their associates worked for years with the members of The Commercial Club, producing a Plan acknowledged to be the finest and most comprehensive city plan ever prepared for any American city. The Plan of Chicago admittedly is practical, efficient and representative of the best professional knowledge, supplemented by the wisdom of successful business men.

Plan Presented in 1909—In 1909 The Commercial Club presented the Plan to the municipality, and the City Council created the Chicago Plan Commission to secure the realization of the Plan. The Plan Commission is non-political, non-partisan, non-sectarian and non-sectional, and all its members serve without compensation.

"The Commission has functioned without interruption through three administrations, beginning with its creation during the administration of Mayor Fred A. Busse. The administration of Mayor Carter H. Harrison was a period of much preparatory plan work, both technical and legal; while the William Hale Thompson

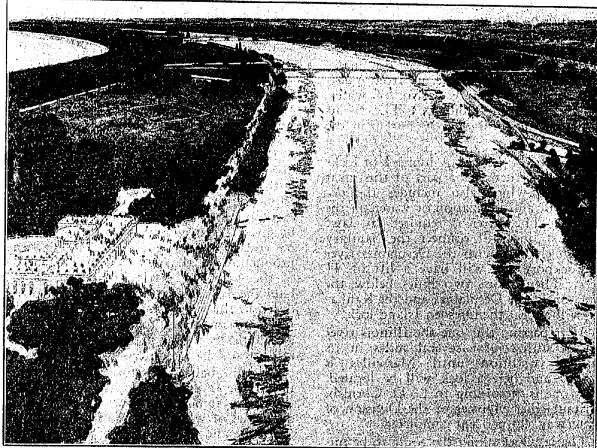
administration was marked by actual construction of a number of Chicago Plan improvements.

"The 328 members of the Chicago Plan Commission come from every section of Chicago and from every walk of life. The Mayor as honorary president, ex-officio; heads of city departments; chairman of Council committees; chairman of Council committees, and one alderman from each ward compose the ex-officio membership. The permanent headquarters of the Commission are in Room F, Hotel Sherman.

"The powers of the Chicago Plan Commission are purely advisory, and provide only for making recommendations to the

City Council and other governmental authorities. The actual carrying out of the recommendations of the Plan Commission comes within the province of whatever governmental agency has jurisdiction in any given case. The success of the Plan of Chicago, therefore, with fourteen of its major features now under way, is due to the unstinted support of public authorities, the press, organizations, and citizens generally, all united for a better city.

"The benefits of street improvements are two-fold. First, they will greatly facilitate the movement of traffic to and from and will save time and money for everybody by relieving traffic congestion, speeding up street car service and providing ample room for future growth. In the second place, they will increase property values throughout a wide surrounding area. Michigan avenue indicates this



New lake front park lagoons, proposed by the Chicago Plan Commission. The view looks south from 22d street.

possible for their merchants and manufacturers to save time and money in the conduct of business, and thereby to secure the business that now comes to Chicago.

"Cities the world over have recognized that making themselves attractive is a paying investment of the highest order. Before a city can call itself metropolitan it must be placed upon the soundest economic basis possible, and it must be made attractive, comfortable and convenient. Doing this, as proposed by the Plan of Chicago, will attract people and business from everywhere, besides adding to the value of real estate all over Chicago, and increasing the annual revenue of the city.

"In spite of new parcel post facilities, recently provided, the present post office, with its dark and unsanitary working quarters, is adequate and uneconomic. It causes unwarranted delays in all classes of mail and incalculable loss to the commerce of Chicago and of the country as a whole.

"A New Post Office—This condition has caused the Chicago Plan Commission to recommend as a site for a new and adequate post office, the two blocks between Canal, Clinton, Madison and Adams streets. This site is the best possible location for such a purpose because it is accessible to and from all parts of the city; it affords the shortest connection by wagon and tube to the present post office; it has adequate street area around it; it has the advantage of fronting upon the two-level portion of Canal street, affording truck access from Clinton street to the lower level, and from Canal street to the main floor; and, finally, it is located between the Northwestern and Union terminals, where sixty per cent of the mail of Chicago is handled.

"Transportation facilities are vital in any growing community, and the capacity of terminals governs the effectiveness of railroad transportation to a considerable degree. Therefore, the Plan of Chicago took cognizance of the need for modernizing and rehabilitating the various railroad terminals of Chicago. This intricate problem is well on the way to early solution. Two vast railroad terminal developments provided for in the Plan of Chicago are under way, and plans are being drawn covering the terminal development of the remaining railroads. The Illinois Central Railroad Company is erecting its new terminal overlooking

Grant Park at Roosevelt Road and Indiana avenue, and is under contract with the city to electrify its facilities within the next fifteen or eighteen years. The cost to the railroad company of this entire work is estimated at approximately \$88,000,000.

The Union Station—On the west side, the Union Station group of railroads is carrying out a terminal development for their passenger and freight facilities that will cost, it is estimated, \$75,000,000. As part of this rehabilitation, these railroads are carrying out at their own expense sixteen improvements recommended by the Chicago Plan Commission, consisting of opening and widening streets and building and widening bridges and viaducts. The new station, now under construction, will occupy the square block between Jackson boulevard and Canal, Clinton and Adams streets.

"The development of harbor facilities has not been forgotten. In addition to Chicago's splendid new \$5,000,000 municipal pier, designed to care for both passengers and freight, the city is developing Lake Calumet as an industrial harbor. Plans have also been drawn for the possible development of a mammoth transfer harbor near the southern edge of the city in case the Great Lakes-St. Lawrence seaway becomes a reality.

"Elsewhere the lake front of Chicago is being developed for park purposes, although reservations have been made for future adequate harbor development, should the need therefor ever arise. On the northern shore of Lake Michigan Lincoln Park is being extended in line with the Plan of Chicago. On the south, 1,138 acres—nearly two square miles—of parks are being created by the South Park Commissioners in the five-mile distance between Grant and Jackson Parks.

Chicago's Water Front—When the lake front development has been complete, Chicago will have the most magnificent water front in the world, with a 40-mile drive along the edge of the lake. East-and-west street car lines will provide frequent access from any part of the city for a single fare, while many miles of boulevards will furnish access for vehicles. The development includes the widening of South Park avenue in order to extend Grand boulevard northward to Randolph street, where it is proposed eventually to connect it with Lake Shore drive at the foot of the municipal pier.

"Other features of the lake front improvement are the Field Museum of Natural History, the Stadium, nine large bathing beaches, a 600-foot wide lagoon, and outdoor recreational facilities of all sorts, including golf, tennis, baseball, rowing, canoeing, motor boating, sailing, picnicing and the like.

"Another recreational feature of the Plan of Chicago is the country playground or forest preserve park system. The Board of Forest Preserve Commissioners of Cook County has acquired 25,000 acres of beautiful woodlands in and around Chicago. These are easily reached by automobile, street car, railroad or inter-urban line. The humanitarian and commercial value of these preserves is almost beyond computation. Like the lake front parks, the street widenings, and the other

Plan of Chicago improvements, they will not only add to the health, convenience and happiness of our people, but will increase surrounding property values and attract visitors from everywhere.

"These are only a few of the eighty-seven different projects in every part of Chicago that are pending before the Chicago Plan Commission for consideration. Thus it is plain that the Plan of Chicago is truly an All-Chicago proposition and one that merits the support of every citizen, no matter where he lives. The completion of the improvements proposed in the Plan of Chicago will result in immeasurable financial benefit to the city and all its inhabitants. It will add to the health, the pleasure and the contentment of every citizen. Let us all, therefore, join hands in a determined, persistent effort to carry out the beneficial projects in the Plan of Chicago with the utmost rapidity possible."

Chicago Plan Commission Officers

Wm. B. Dever, Honorary President ex-officio
Charles H. Wacker, Chairman
Frank J. Bennett, Vice-Chairman
Eugene S. Taylor, Office Manager
B. H. Bennett, Consultant
Office, Parlor Floor Hotel Sherman, Rooms 8 and 9.

Executive Committee

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John Tomlin, Ald.
Harry A. Wheeler, Ald.
Walter H. Wilson, Ald.
Michael Zinner, Ald.

Financial Backing Secured—The successful work of the Chicago Plan Commission has been made possible by the financial backing of public-spirited citizens in addition to such assistance as the city could give.

The Commercial Clubs of Chicago has been most generous in its support. At the very outset it subscribed \$85,000 for the creation of a technical plan and for the publication of the Club's magnificent report. Since then other sums have been contributed until today more than \$300,000 has been put at the disposal of the Commission to help it carry out its work.

"Distinguished Chicagoans and members of the Commercial Club of Chicago, who served on special plan committees, and who made the work of the Plan Commission possible by their personal financial contributions to public service were: Arthur T. Aldis, J. Ogden Armour, Frank H. Armstrong, Sewell L. Avery, Edward E. Ayer, Alfred L. Baker, Edgar A. Bancroft, Adolphus C. Bartlett, J. Harley Bradley, William L. Brown, Eugene J. Buffington, Leonard A. Busby, Edward B. Butler, H. M. Byllesby, Augustus A. Carpenter, Benjamin Carpenter, Clyde M. Carr, Edward F. Carry, Leslie Carter (deceased), William J. Chalmers, William E. Clow, Charles H. Conover (deceased), Charles R. Corwith (deceased), Alfred Cowles, Rensselaer W. Cox, Charles R. Crane, R. T. Crane, Joseph M. Cudahy, J. J. Dan, Charles C. Dawes, Rufus C. Dawes, Frederic A. Delano, Albert B. Dick, Thomas E. Donnelly, Albert J. Earling, Bernard A. Eckhart, Howard Eiting, Francis C. Farwell, Granger Farwell, John V. Farwell, Henry B. Favill (de-

ceased), Samuel A. Felton, Louis A. Ferguson, Stanley Field, Edwin G. Foreman, David R. Forgan, James B. Forgan, William A. Fuller, W. A. Gardner, John J. Glesner, Richard C. Hall, Ernest A. Hamill, Albert W. Harris, James O. Heyworth, Harlow H. Higinbotham, Hale Holden, James L. Houghteling (deceased), Marvin Hughtitt, E. D. Hulbert, Charles H. Hulburd, Edward N. Hurley, Charles L. Hutchinson, Samuel In-sull, Frank Jones, David B. Jones, Chauncey Keep, Rollin A. Keyes, Robert P. Lamont, Victor F. Lawson, Thies J. Lefnens (deceased), Robert T. Lincoln, Hugh J. McBirney, Alexander A. McCormick, Cyrus H. McCormick, Harold F. McCormick, Medell McCormick, Hiram R. McCullough, Donald R. McLennan, Franklin MacVeach, Clayton Mark, C. H. Markham, Arthur Meeker, George Merryweather, John J. Mitchell, Joy Morton, Mark Morton, Charles D. Norton, LaVerne W. Noyes, Joseph E. Otis, Clarence S. Pellet, Charles Piez, John T. Pirie, Allen B. Pond, Edwin A. Potter, H. H. Poexter, Alexander H. Revell, George M. Reynolds, Harrison B. Riley, Edward P. Ripley, Theodore W. Robinson, Julius Rosenwald, Martin A. Ryerson, John W. Scott, John G. Sheed, James Simpson, Louis A. Seeburger, Byron L. Smith (deceased), Solomon A. Smith, Walter Byron Smith, J. A. Spoor, Albert A. Sprague (deceased), Albert A. Sprague, II, Homer A. Stillwell (deceased), Charles L. Strobel, Bernard E. Sunny, Edward F. Swift, Louis F. Swift, Charles H. Thorne, Robert J. Thorne, Frederick W. Upham, Charles H. Wacker, Ezra J. Warner, Frank O. Wetmore, Arthur D. Wheeler (deceased), Harry A. Wheeler, John E. Wilder, Oliver T. Wilson, Walter H. Wilson and Wallace C. Winter."

The Chicago Plan and Why Needed Today—The Plan of Chicago itself is of the greatest interest. Taken in connection with Chicago's physical layout and strategic geographic location, it is almost dramatic.

Chicago, bound by Lake Michigan on the east, spreads from the lake in the shape of a huge fan, level and interlaced with railroad tracks. So flat is it, and so low it was in 1857, that a considerable portion of what is now the central section had to be raised from twelve to fifteen feet to give the city proper drainage.

Chicago, like Petrograd, is literally a raised city—the difference being, as a certain vivid mind put it, Petrograd was built on piling and Chicago was jacked up from a swamp.

Gordon S. Hubbard, one of Chicago's early white settlers, states that when he made his first trips in an open canoe from Mackinac on expeditions to trade with the Indians for skins and other commodities, it was necessary, when Chicago was reached, to transport the canoes and their stock by hand over a large tract of low marsh which intervened between the banks of the lake on the way to the Illinois river.

It is also a matter of historical record that in the early days, when Chicago was a mere village, the mud was so deep in the main streets, now the Loop section, that signs were frequently posted, reading "No bottom here."

Occasionally, even today, during heavy rainfalls, water backs up in the mains and floods the basements of downtown buildings.

The plainlike surface of Chicago reduces the physical problem of city planning to the minimum. No such hardships confront the city planner as exist in a hilly city like Seattle, or a city of surface rock, like parts of New York.

Chicago's Problems—Chicago's problems are chiefly those of rapid growth and haphazard development, due to the lack of proper planning at an early time. In this it is quite comparable to London, where a single central street improvement a mile in length and 100 feet wide cost the British capital \$30,000,000.

Chicago has been termed a "haphazard group of overgrown villages." This, while a bit extravagant, is almost literally true. As the city grew and spread out over a vast area, budding centers and small towns were assimilated without systematic street connections.

The streets of the main city were laid out, apparently without any particular reason, 66 feet wide—the width of a country road from time immemorial. A few streets are 80 feet wide and a very few boulevards are 100 feet wide. Splendid Michigan avenue, the widest thoroughfare, for the distance of one mile skirting Grant Park in the city's center, is 130 feet wide.

The main scheme of the city's streets is the right angle—good for a small city but despairingly inadequate for a great city. Diagonal or "cut across lots" time-saving thoroughfares so essential to the transit of a city of millions are few in number.

The number of thriving, outlying business centers is unusually large. Although these are widely distributed, covering all sections, the major business and transportation of the city centers in the central section known as the Loop, which, in extent of intensive development covers about one-quarter of a square mile.

Business Encroaches on Residential Sections—Business has been shamefully—almost criminally—allowed to encroach upon the finer residential sections. So flagrant has this practice become that lots for business purposes on one of the finest boulevards in a "smart" section have sold as high as \$1,000 a front foot, seven miles from the corner of State and Madison streets, the heart of Chicago.

Within a few paces of this central intersection, a lot for the erection of a mammoth department store was sold in 1904 at \$25,000 a front foot. At the same time, one mile due west from that point one could scarcely "give property away" at \$300 the front foot.

Whole sections which only a few years ago were built up with palatial homes of the wealthy have become the rendezvous of business and industry.

This transformation of property in large cities is, under any circumstances, more or less inevitable; but it is grossly extravagant and uneconomic. Such wholesale slaughter of values, although restored in transfer to other usage, has no economic advantage. The remedy for this and nearly every other form of property abuse lies in the establishment of a proper zoning system. American cities are slow

to realize that the proper building of cities rests upon a feasible and orderly plan for the distribution of business, industrial and residential sections. The establishment and maintenance of building lines—a common matter of abuse under the lack of a zoning system—would also be regulated by such a measure. Enormous property loss would thus be saved and the city's attractiveness materially enhanced and made permanent.

The Railway Problem—Added to Chicago's misfortunes in not planning early enough, big enough, and according to a scientific plan, the railways were allowed to encroach upon the city's center until 35 per cent of the entire central section is occupied with approach and switch tracks and terminals—both freight and passenger.

What a situation of disorder, confusion and consequent inconvenience and poor development this has caused, although indescribable, can be somewhat imagined, when it is known that there are 27 trunk lines of railways terminating in Chicago; that whole sections a mile long and a half a mile wide, a stone's throw from the city's business hub, have been blotted out by railway occupancy; that, of the city's 19 platted east and west and north and south streets, only 11 traverse the center, the others having been blocked or cut off by the railway tracks; then it will be realized what a menace the "roads" have been to the proper physical development of the city. No such situation obtains in any other city in the world. It is equally true and of advantage that no such railway center exists elsewhere in the world."

The Plan is Comprehensive—The plan of Chicago overlooks no feature of the city's future growth. It has "for its prime object the making of a centralized city by a proper connecting street system. Its secondary objects, but of primary importance, are the readjustment of its railway facilities and the safeguarding of the public health through the acquisition of sufficient park area conveniently located for all the people.

Such a plan is at once highly practical and altogether desirable, and cannot work a hardship on any interest or class. In its wake there can follow only marked benefit and attractive and orderly development.

Commercially, city planning has to do with the regular arrangement of streets within the city. Its aim is to save time and effort in traffic between the various sections. Socially, city planning has to do with adequate provision for the public health. This is gained through the best location of parks and playgrounds and the opening to light and air of crowded housing districts.

A proper city plan is the foundation for all social and commercial advance. For people to remain healthy and happy, they must have proper houses in which to live. Adequate street facilities affect the housing problem, as people must be able to go quickly and easily to and from their homes and places of business.

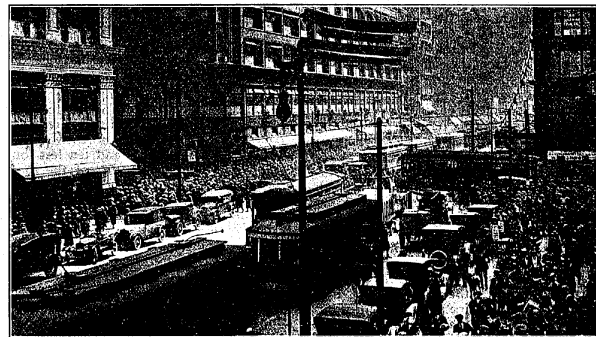
It Solves Problems of Congestion—The Plan of Chicago solves these vital problems of congestion, traffic and public health. The completion of the Plan will do away with the crowding in the city and its streets and so promote the health and happiness



An old street scene at a busy Loop corner in the days of horse cars and before traffic "cops" were necessary.

of all. It will make traffic more convenient, and so make it easier and cheaper to carry on business. Thus the wealth of the city and of its people will increase more rapidly than would otherwise be possible. The plan will give Chicago more and larger parks and playgrounds and better and lighter streets. Hence the whole people will be more healthy and better able to carry on the work of the great city.

Authorities who have studied city growth for years state that the movement of mankind toward cities has only started. They say that it is sure to continue with increasing force for many years to come. Other men of science have devoted their lives to study of the effect of city life upon humanity. They declare that the physical condition of city dwellers is rapidly declining in comparison with that of those who live in the country. Everyone realizes that city life is more intense and nerve straining than out-of-door country life. City life saps the energy of men and makes them less efficient. The remedy for this lies in providing increased means



A highly interesting photograph looking south on State Street and showing the congested traffic conditions at the corner of State and Madison streets, and by many to be the busiest and most traveled corner in the world.

of open-air recreation, better sanitation in city houses, and more light-and-air in city streets.

The Plan of Chicago provides for complying with this imperative demand. It forms the foundation upon which proper recreation facilities may be supplied where they are essential. Sufficient park area in a great city is the thing most necessary next to convenient and orderly street arrangement. As the only means of avoiding civic disaster due to haphazard growth, Chicago has entered upon its big constructive task of carrying out the Plan of Chicago. This general Plan with its two hundred miles of street improvements, its parks and playground sites, and its magnificent development of the shore of Lake Michigan, is fundamentally hygienic and humanitarian.

Provides for Traffic Needs—The Plan of Chicago provides for the easy movement of traffic by widening and extending existing streets, by cutting new ones, and by properly connecting all thoroughfares. It proposes also parks and playgrounds in each section of the city. It suggests a superb system of water front parks, lagoons, driveways, harbors and pleasure piers along the shore of Lake Michigan. It contains suggestions for the improvement of the Chicago river, especially along its banks. It provides for adequate transportation facilities, including the proper location of freight and passenger terminals and for the location of the west side post office and other public buildings. The Plan of Chicago contemplates the creation of a five-mile course for rowing regattas, a course for international motor-boat races along the city's shore line between Grant and Jackson parks, and many large bathing beaches. Inland it proposes a vast system of good roads encircling and radiating from the city. These would give convenient access between the city and the magnificent system of outer parks or forest preserves being created just beyond the city limits on all sides.

The Question of Proper Housing—Two other questions of large public importance are closely allied to the work of the Chicago Plan Commission. One is the question of proper housing of the

people in the congested districts, and the other is that of dividing the city into districts. In one kind of district only residences would be allowed, in another only factories and industries, and in a third only commerce and business. This is known as "zoning" or "districting" the city. To both these important questions the commission is giving thought and aid. It believes, however, that they deserve the exclusive attention of specially created organizations.

In Chicago, in the twenty-five years ending with 1906, more than two hundred and twenty-two million dollars were spent for extraordinary betterments and improvements. This colossal sum affords startling evidence of what might have been accomplished toward the realization of a plan such as is now being worked out had the city adopted an official plan a generation ago.

Similar examples apply in other cities. Nothing should so move the city dweller and the authorities to action for a scientific plan as do such simple facts.

Plans for Parks and Railways—The park plans in the Plan of Chicago, in addition to reclaiming two thousand acres of submerged lands along the lake front, provide for interior parks and playgrounds and twenty-one thousand acres of forest preserves, half of which have been acquired.

The foundation of the street system is a quadrangle bounding a three-mile square of the city's center. The four streets comprising it are being widened and otherwise improved to make a great "clearing house" for traffic around the heart of the city, instead of being forced to go through it. Another similar circuit is designed for the square a mile distant from the quadrangle, and diagonal streets are planned to converge in the civic center and on a central axis east and west. Other diagonal streets are planned for the convenient adjustment of cross-town traffic and for the proper connection of the outlying centers.

The railways, it is planned, shall be housed in three units instead of six as at present. The eastern roads, with the exception of the Pennsylvania and the southern roads, are to terminate in the Illinois Central Station at 12th street, on the lake front. A magnificent new station, sufficient for fifty years, is planned to care for these. The western roads, as well as the Pennsylvania from the east, will terminate in the splendid new west side station, ordinances for which already have been granted. Work on this terminal, at Canal street and Jackson boulevard, was held up on account of the war. The Northwestern road is to remain as the sole occupant of its fine new station two blocks to the north. Between these two terminals where is handled 62 per cent of the city's mail, a two-block post office site has been selected for a badly needed new central post office. The purchase of this site was voted by the House, but the war sent the appropriation bill to the Senate waste basket.

This arrangement, which will permanently remove the Polk street, LaSalle street and Harrison street stations, will open up four extremely important north and south streets to public use through the "closed" railway area. It will also admit of the straightening of the river for nearly

a mile from Polk to Sixteenth street. This greatly needed improvement will materially increase property values in that section and will make possible several new street openings. This project and the railway terminal matters are being worked out by the Chicago Railway Terminal Commission, the appointment of which was recommended to the City Council by the Plan Commission and a body of public-spirited citizens.

The Twelfth Street Project—The first step in carrying out the Plan of Chicago was an important one. It involved the widening of Twelfth street. This street has been described as "one of the most important east and west streets in the city. It is the first mile section-line south of the city's center. It passes through a most squalid and densely congested ghetto and tenement district and crossing the Chicago river, cuts through a solid half mile of railway terminal approach tracks to the important commercial arteries—State street and Wabash and Michigan avenues, terminating a block beyond in a narrow gap at the Illinois Central station.

Forms Boundary of "Quadrangle"—In the Plan of Chicago Twelfth street forms the southern boundary of the "Quadrangle," the other boundaries of which are Michigan avenue, skirting the lake on the east; Chicago avenue, the first mile-section street north of the center; and Halsted street, the first mile-section street to the west. The inner northern boundary of this quadrangle is South Water street, home of Chicago's produce market and the inner western boundary is Canal street, which is the first north and south street west of the Chicago river and the rim of the Loop district.

This quadrangle is the foundation of the street circulatory system in the Plan of Chicago. It is flanked by other quadrangles more remote from the center and is penetrated by important diagonal thoroughfares. This central quadrangle of streets, it is planned, should be widened, extended and properly connected to form a great clearing basin for traffic about the city's commercial center to relieve congestion at its heart, to facilitate traffic to and from the railway terminals situated upon its route, and to provide facilities in its course for the lessening of cross traffic.

While the majority of Chicagoans prior to the propaganda of the Plan Commission had little knowledge of Twelfth street and literally none concerning its basic value in the Plan of Chicago, yet so inspired had they become with the plan idea that even in this, its early inception, the bond issue for its construction was authorized in November, 1912, by a majority vote of 21,787.

New Viaduct Built—The West Twelfth street improvement involved the widening of that thoroughfare from 66 to 108 feet for a mile and a half west of the Chicago river, the building of a great new bridge and the construction of a new 118-foot wide steel and concrete viaduct over the network of railway tracks for the distance of a half mile east of the river to Wabash avenue. At that point the old street was only 50 feet wide.

The suit to secure possession of the necessary land began in the Superior Court November 27, 1914. On November 9,

1915, the court overruled all legal objections to the Twelfth street improvement. The final favorable court decision in this case, rendered on June 14, 1916, opened the way for the city to tear down the buildings, widen the street, and build the viaduct. The first piece of property to be taken by the city was paid for on August 25, 1916, on which day the work of tearing down the buildings started. The widening was finished on December 20, 1917, when a great celebration was held, which was attended by more than 100,000 people. The finished work, however, was only west of the river, the bridge and viaduct are now being completed. Eight years elapsed from the recommendation of the Plan Commission for this improvement until the completion of the first section of it, and nearly seven years from the time the ordinance was adopted and the bonds voted by the people. But today the old 60-foot street is a magnificent avenue 108 feet wide, a splendid example of twentieth century planning. The total cost of the improvement was \$4,500,000. To the eastward, the new highway will terminate at the Field Museum, on the lake front and its western terminus will be adjacent to the splendid forest preserves existing outside of the city limits."

Michigan Boulevard Improvements

While work was progressing on the Twelfth street improvement the Plan Commission turned their attention to the Michigan boulevard situation which needed extensive improvements.

"Michigan avenue is the base line of the city's traffic. It is destined to carry the heaviest traffic of any street in the world. Already it is famed as one of the world's finest thoroughfares, but its "splendid mile," 130 feet wide, has extended only from Twelfth street north to the Public Library at Randolph street. There its spaciousness was lost in a 66-foot squalid gap. Its remaining distance of three blocks to the north branch of the Chicago river was lined on both sides with ancient, squatty and half dilapidated buildings. To the south of the gap towered splendid buildings containing on their ground floors the city's finest retail shops; interspersed were palatial hotels and artistic clubs and theatre buildings; opposite stood the Majestic Art Institute and the broad acres of Grant Park skirting Lake Michigan. Behold the other picture—north through the gap the street presented the appearance of a poor, tenth-rate city. It was almost impossible to conduct business there on account of the constant jam of vehicles in its narrow passage and such as there was, was nondescript and of little value. Many vacant buildings showed the grime of years upon their windows, their door lintels were hung with cobwebs and a general air of decadence prevailed. At the corner of Randolph street where the street narrowed northward to less than half the width southward, traffic was barricaded by the 66-foot jutting building line which caused the vehicles struggling to enter the gap to be massed in solid and almost inextricable confusion. At the river traffic was obliged to make a sharp turn up a steep grade to cross the Rush street bridge and thence to continue in that narrow, over-crowded thorough-

fare for blocks before it could again turn lakeward into Pine street—the logical imaginary extension of Michigan avenue—to Lincoln parkway, where it connected with the Lake Shore drive and Sheridan road up the north lake shore. These boulevards, together with Michigan avenue, form the direct connecting arteries between Lincoln Park, two miles northward from the city's center, and Jackson Park, five miles southward, and they are likewise a part of the boulevard chain connecting the entire park system of the city. To complete this chain, as well as to extend Michigan avenue itself, the Plan of Chicago provided for widening that thoroughfare to the maximum width of 130 feet and to carry it on a straight line via a new bridge into the Lake Shore drive north of the river, a distance of slightly less than one mile.

The Old Rush Street Bridge—The Rush street bridge was one of the most crowded in the world. It carried 16 per cent more traffic than London Bridge, long known as the most congested vehicular bridge in the world. The seven east and west streets immediately north and south of the Rush street bridge carried 38 per cent more traffic across Michigan avenue to and from the railway freight terminals on the lake front and the warehouse district on the west side than enters London at its seven principal points of entrance. The Rush street bridge carried 77 per cent of all the commercial vehicle entering the Loop district from the north side of the city. The four other bridges—the farthest being only four blocks distant—carry the remainder. This enormous traffic, aggravated in summer by the opening of the bridges to pass deep draft lake vessels, supplemented by the heavy cross traffic, caused a confusion that beggared description.

A Double Deck Scheme—The Michigan avenue extension plan as carried out is a double-deck scheme. Both the street and the bridge have two levels. The upper one extends from building line to building line—the full width, 130 feet. New buildings abutting on either side have unrivaled advantage of two streets—the lower one used for heavy traffic and the upper one for the light traffic-way and main entrance thoroughfare to the store buildings. The approaches to the upper levels are so imperceptible as to be scarcely noticeable. The south approach is less than a two per cent grade and the one on the north is three per cent.

The New Bridge is Unique—This new big bridge which has been in use for some time is the first of its kind to be erected in America. It has "made" north Michigan avenue. Two hundred and ten feet long and 90 feet wide, it is one of the show spots in Chicago. All heavy north and south bound traffic is confined to the lower level and the rapid and light traffic has the exclusive use of the upper level. The bridge of both approaches open out on great plazas 225 feet square. Ample light and sanitation is provided for the lower level and the upper one has been made highly ornamental and is brilliantly illuminated at night.

This constitutes one of the most remarkable and beneficial street improvements ever undertaken by any city. It

practically adds another mile (and a splendid one) to Chicago's fashionable shopping center. New buildings are being erected in keeping with beauty and increased use of the upper boulevard section. One of the first was the Wrigley building, an addition to which is now being built. The London Guarantee building is in the process of construction. Across from the Wrigley building will be erected the magnificent tower which will mark a new era in the architecture of Chicago's skyscrapers."

bridge includes 9,651 cars and 17,480 vehicles, a total of 27,131; on Queensboro bridge, 2,494 cars and 17,858 vehicles, a total of 20,352. Hence the traffic on the Chicago bridge during twelve hours exceeds that on any one of these important bridges for twenty-four hours.

The increase in the value of real estate due to the construction of the Michigan avenue bridge has already exceeded \$100,000,000, according to the estimate of members of the Chicago and Cook County Real Estate Boards. The total cost of the

Chicago is the hub around which revolves a large per cent of the country's mail business. Chicago is the great clearing house for grain, live stock, lumber and general merchandise.

The city has grown so rapidly that only by great administrative forethought are its daily traffic problems solved. One-third of the central area of Chicago is railroad land, blocking street traffic and obstructing the normal growth of the business section. To conceive a satisfactory plan for reorganizing these commercial sections has required genius; and to win the fights for its accomplishment has taken untiring enthusiasm. The problems have been solved; the reconstruction work is already begun, and—with all her commerce—Chicago bids fair to become one of the world's best organized and most beautiful cities.

The New Union Station—Foundations for a magnificent Union Station are now being laid. Actual work on this terminal has started, and when the blunt jaws of a steam shovel sank into the earth at Clinton and Adams streets several months ago it marked the first construction work on the main building of the Union Station project and the passing of what has been an eyesore for years. The vast structure, if predictions of the engineers in charge come true, will be completed in about two years.

The main building will occupy the block bounded by Jackson boulevard, Canal, Adams and Clinton streets. The train concourse will extend over the territory between Adams street, Jackson boulevard, Canal street and the Chicago river.

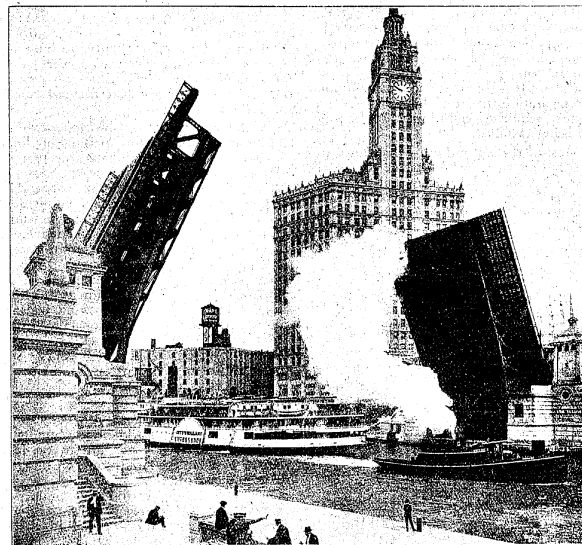
The first work on the Union Station was done in September, 1914. Street levels in the neighborhood were changed to meet plans for the new building and bridges were built.

Original Plans Changed—Original plans for the west side improvement have been changed. Instead of only a low structure devoted exclusively to Union Station purposes, similar to the Northwestern Station, the new terminal will be surmounted by a 17-story office building.

The new depot will result in the practical reconstruction of the entire area bounded by Washington street, the Chicago river, Harrison street and Clinton street, and will provide for the business development of the next fifty years.

Concrete and steel viaducts, dock walls for the Chicago river and two traffic levels for Canal street are all included in the plan. The passenger terminal, housing trains of both north and south approach, provides 21 tracks. Above the train sheds will rise a monumental structure bounded on four sides by a colonnade and crowned by a lofty waiting room. Sixty million dollars will be spent for this and the great freight terminals to the south.

Ten Millions Already Spent—To date more than ten million dollars have been spent by the Union Station company, representing the four railways using the station, for the construction of streets and viaducts for the benefit of the city. In addition, the Pennsylvania Railroad has erected a freight house at a cost of four millions, as a part of the plan, while each



The Link Bridge, Chicago's triumph, connecting the north and south boulevard systems at Michigan Avenue. Built of structural steel with riveted trusses, this double-deck giant spans the 255 feet of the Chicago river, opening and closing rapidly many times throughout the day.

New Bridge Breaks Record for Traffic Carried—No bridge in the world can compare with the new Michigan boulevard structure in point of traffic accommodated, as recent figures show that this bridge takes care of nearly double the amount of traffic daily that the famous London bridge does.

Statistics on record in the office of the city statistician, Frederick Rex, also show that traffic over this bridge is considerably in excess of that over the Brooklyn, Manhattan, Williamsburg or Queensboro bridges in New York City.

On an average week day 30,569 automobiles, 494 motor buses, 2,011 trucks and 1,414 wagons—a total of 34,488 vehicles—pass over the upper and lower decks of the Michigan avenue bridge every twelve hours, as compared with 18,387 over the London Bridge.

Cars numbering 9,700 and 5,188 vehicles—a total of 14,888—pass every twenty-four hours over the Brooklyn bridge and 20,785 vehicles and 3,475 cars

—a total of 24,260—pass over Manhattan bridge. Traffic on Williamsburg improvement was less than \$15,000,000. Instances of increases in value of some properties on North Michigan avenue show by actual sales as much as 1,500 per cent increases, or from \$5 to \$100 per square foot.

Taking Care of the Railways—Added to Chicago's misfortunes because the city did not start earlier on a definite plan for the city is the fact that the railways have been allowed to encroach upon the city's central section until thirty-five per cent of this area has been occupied by tracks, terminals and other properties.

Although but little more than a hundred years ago Chicago was being raided by Indians, today 100,000 miles of railroad lead into it from all over the United States, bringing merchandise to a hundred freight yards into three hundred receiving stations.

Chicago is daily served by 1,339 passenger trains, carrying nearly 200,000 people.

of the three other road interests is now putting up a freight station in the vicinity.

Coinciding with the sweeping improvement of the city's railroad terminals will come the reclamation of four and one-half acres as the result of the plan to straighten the Chicago river between Taylor street and Sixteenth street. It is proposed to cut out a big bend in the channel, thus redeeming ground that would be worth, at prevailing values, more than enough to pay for the improvement, to say nothing of the increase of values due to making property that now lies west of the river available to receive the overflow of the central business district. It will have the further effect of permitting the extension of four principal north and south streets through the railroad district.

The New Post Office—Between the new Union Station and that of the Northwestern it is proposed to locate the new west side post office, which will be commensurate with Chicago's position as the central clearing point for the mail of the entire country. Chicago's postal business is greater than the combined business of Brooklyn, Boston, St. Louis, Cleveland, Baltimore and Pittsburgh, and 62 per cent

of this mail enters and leaves the Union and Northwestern stations. The advantage of having the new post office in that vicinity, therefore, is obvious. It is the only logical location that will fit in with the city's imperative needs and the Plan of Chicago.

The new mail terminal erected just south of Van Buren street at a cost of \$6,000,000 is part of the Union Station group. Recent extensions of plans for equipping this station will give it more miles of belt conveyors than any other building in the world, postal officials said.

This six-story mail terminal will greatly relieve serious congestion due to out-of-date equipment and lack of floor space. Four floors will be devoted to a great extent to serving the mail order houses of Chicago. It is for parcel post distribution and separation that four miles of belt conveyors, requiring eight miles of belting are being installed.

Most of the belt mileage will be used in distribution of 280,000 pieces of parcel post daily, the average received at the Chicago post office. Although this terminal will handle 8,200,000 parcel post pieces a month when it opens, it is built for twice

the traffic. More than 260,000 sacks of paper mail will also be handled. In the basement forty-two mail cars can be filled with mail at one time.

Plans for Developing Chicago's Lake Front are Wonderful—Chicago's great asset, Lake Michigan, has not been lost sight of in planning big and beautiful things for the city. That part of the city-wide plan which concerns the improvement of the lake front can be called the very heart of the whole ambitious scheme.

The idea is to create miles of parks and waterways on a waterway in the very heart of the city. But even as interesting and wonderful as the plan is, the fact that it is going to cost practically nothing as far as taxpayers are concerned is even more astounding. By using Chicago's waste materials to fill in the lake this is accomplished.

Briefly the Plan of Chicago provides for a complete remodeling of the shore line of 21 miles from the Indiana line to the suburb of Wilmette on the north.

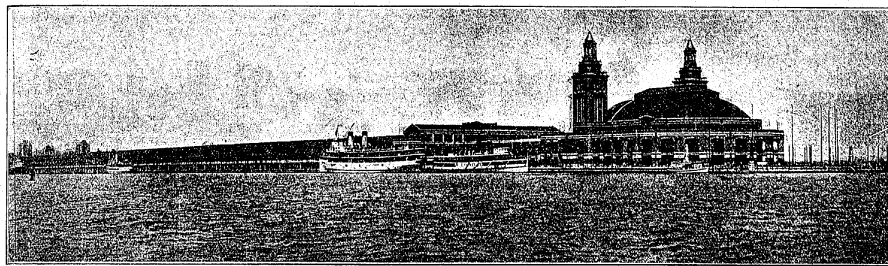
"In planning the Lake Front parks, the architects took into account the public demand for extensive areas of pleasure grounds. They recognized the desire of the people to have a place for motor boating, yachting, rowing, bathing and other water enjoyments. So their plans provide for islands covering hundreds of acres along the shore, also for a wide water-course extending for miles along the city's front bordered by park lands on either side, to form one of the finest courses in the world for rowing regattas, motor boat and yacht races and other forms of aquatic sport."

Developing the Lake Front—During the next ten years nearly fifteen hundred acres of submerged lands are to be reclaimed between the mouth of the Chicago River and Jackson Park. The city's waste material, including earth from building excavations, will aggregate forty million cubic yards in that time—sufficient to fill in the whole area of the new lake front park. Much of the waste will come from industrial plants which have exhausted their present dumping spaces, and the city will receive a revenue of about three hundred thousand dollars a year in return for the privilege of using the lake front. The value of the land after the filling-in process is complete is estimated by the Chicago Real Estate Board at \$50,000,000.

Desire to Complete It In Ten Years—If it is desired to have the new park completed in less than ten years, the time can be reduced by the use of dredges, with a saving of about a year for each dredge put into operation. The cost of dredging is estimated at only a little more than the amount of revenue to be received from dumping privileges.

All the park authorities of Chicago have worked steadily toward the ideals set forth in the Plan of Chicago. Grant Park, on the water-front, is one illustration of what can be accomplished by filling in with waste material. This park contains more than three hundred acres, and was built up entirely from the city's waste. Its creation is of inestimable value.

During 1915 more than two hundred acres were added to Lincoln Park on the north. This was also done by filling in



The Municipal Pier, used jointly for pleasure and business purposes, extends out one mile into Lake Michigan. Nothing of similar kind exists elsewhere. There are ample and excellent facilities for taking care of conventions, pageants, etc., and something like 50,000 people can be comfortably accommodated at one time.

the lake. The improvement embraces a yacht harbor, twenty-six hundred feet long and a thousand feet wide; a lagoon, picnic grounds, extensive playgrounds, bathing beaches and a golf course. The whole work cost only \$1,875,000 and the land thus made is estimated to be worth sixteen million dollars.

The lake front project calls for a complete remodeling of the shore line for a distance of twenty-one miles, from the Indiana line on the south to the fashionable suburb of Wilmette on the north. Beginning at Jackson Park, there is to be a yacht harbor three miles along shore and two miles across, with wooded islands. Then northward will sweep one large island park, or perhaps two islands, reaching the main harbor at Twelfth street—recently rechristened Roosevelt Road as a memorial to the late former President.

New Parks To Be Secured—There will be 1,138 acres of these new parks, including all the usual recreational facilities. The parks are to be in two sections, an inner and an outer one. The shore park adjacent to the Illinois Central right of way includes the area around the Field Museum and will vary in width from approximately 350 to 750 feet along the entire shore line from Grant Park at Roosevelt Road to Jackson Park at 57th Street.

The outer park is to extend the entire length and will vary in width from 800 to 2,500 feet.

On the inner or shore parkway there will be several bathing beaches and provision has been made for additional bathing beaches on the lakeward side of the outer fill.

Between these two parkways there will be a water-course five miles long and six hundred feet wide.

This protected riverway will afford opportunity for regattas, rowing, boating, swimming, skating and the like. It will be a fresh body of water, constantly circulating by the frequent openings in the outer park and at both ends.

Land To Be Built—The development of this water-front park scheme does not end here, however. It is proposed to build a new strip of land immediately east of that occupied by the Illinois Central Railroad tracks, and extending out into the water for a distance of about three hundred feet, running the entire length from

Jackson Park to connect with Grant Park at Roosevelt Road, paralleling the lagoon and outer parkway strip. This will provide an outer driveway about eight miles long.

By continuing this drive through Grant Park, and creating a link from Randolph Street north to the Municipal Pier, to connect with Lincoln Park on the north, Chicago will have the most magnificent water-front driveway in America, and one of the finest in the world. It will extend in a continuous and unbroken stretch for more than twenty miles.

New Car Lines Will Connect Park Area—Eight direct east-and-west car lines will connect the new park area with the West Side. The parks will be accessible from all sections of the city for a single carfare.

The plans also provide for the completion of Grant Park (200 acres in the heart of the city) with all the usual park facilities. They include the widening of South Park Avenue from 66 feet to 150 feet from 35th and 22d Street to extend Grand Boulevard through the new park to Randolph Street. This will afford a new rapid traffic way between the North and South Sides, avoiding the congested loop district, and will greatly relieve the crowded conditions on Michigan Avenue.

Included in the lake-front improvement will be the construction of a great central harbor faced by Grant Park, which is adjacent to the lake, and which stretches along the entire business front of the city. This great basin will lie in the hollow of curving parkland shores extending into the lake for almost a mile, and more than a mile in length. Two long sea-walls, curving outward, with openings at the center and at each end, will permit every passage of vessels and insure smooth water within the harbor.

Progress Already Made—The work of harbor improvements has already made wonderful progress, five million dollars having been expended upon a municipal pier of remarkable character and dignity. The pier extends into the lake nearly three-quarters of a mile, at a point immediately north of the mouth of the Chicago River. It is a tremendous steel and concrete structure, nearly three hundred feet wide, with countless windows, and ending in two majestic towers, which stand as sentinels guarding the entrance to Chi-

ago's harbor. Freight cars and locomotives enter on the ground floor, and street cars discharge passengers directly above on the upper level of the pier.

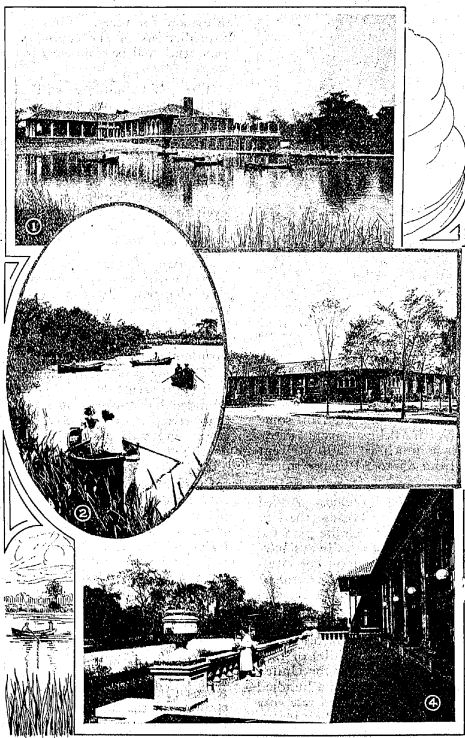
The pier is the lake passenger clearing house for Chicago, as well as the terminal point for the handling of an immense amount of freight. An elaborate system of roof promenades has been provided, where the public is able to enjoy without cost the constantly moving panorama of Chicago's marvelous water traffic. It is estimated that there is ample room for a hundred thousand people to enjoy the lake breezes and to be entertained at one time.

New Illinois Central Depot—The lake front improvement involves, among other things, the electrification of the Illinois Central Railroad's right of way from a cinderly smudge into a trolleyized carrier, and the erection by the company of a fifty-million-dollar terminal at the foot of Roosevelt Road, facing north. The new station will be of monumental type, and large enough to take care of all the railroads now entering the city from the east and south that are not included in the Union Station group. The terminal will provide twenty main tracks, and will accommodate trains on three levels in the station itself. One of these levels will take care of the electrified suburban service. The improvements are expected to cost about \$88,000,000.

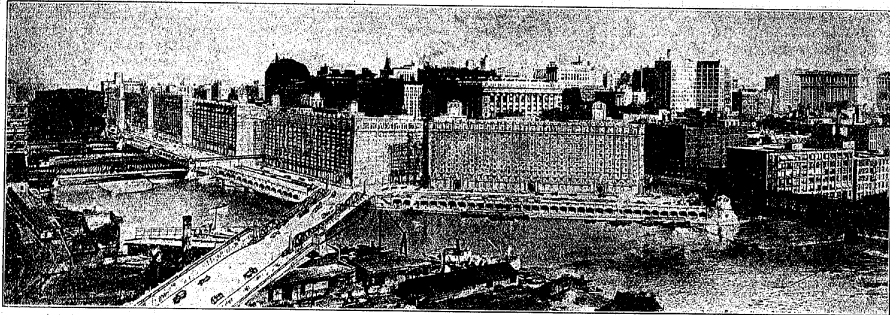
Great Municipal Stadium Being Built—One of the most spectacular features of the lake front improvement provides for the construction of a gigantic stadium capable of seating a hundred thousand people.

During the past year work on this project was begun and before the huge stadium is built it is estimated that more than \$2,500,000 will be spent. It will be one of the largest open air pavilions in the world.

Only the two sides of the great amphitheater are being constructed at present. The stadium is being built by the South Park Commissioners, and is part of the "Roosevelt Road group" of buildings in the Chicago plan scheme. The "U" shaped arena is being erected on ground reclaimed from the lake just south of the new Field Museum of Natural History, its open and pointing to the rear of the treasure house of antiquity and science.



1—Northwest view of Columbus Park refectory, showing boat landing. 2—Front view of Columbus Park. 3—Front view of Columbus Park refectory. 4—Terrace in front of refectory, Columbus Park.



How South Water Street will look in the future, showing river front improvements as proposed by the Chicago Plan Commission. The present old buildings are to be removed and a two-level development built along the river front between Michigan Avenue and Market Street.

Capacity Will Be 75,000—One end is left open in order that great pagents and army divisions can march onto the field without the trouble of buckling up to go through doors. The open space of the field will hold 75,000 persons at one time and there will be seats for 40,000 persons at all times. When emergencies require it 60,000 temporary seats can be put in place. Thus, within 10 minutes walk of the loop, 100,000 persons will be able to witness Olympic games, national and interscholastic contests, parades, pageants and spectacles.

The entire structures is to be made of pre-cast concrete blocks. Pieces of horn-blend, chips of granite and marble will be mixed to give the impression of pink marble to the observer. The plans call for a structure 1,000 feet long and 550 feet wide.

The stadium will be one of the largest in the country, rivaling the Harvard stadium and the Yale bowl. It and the Field Museum, already completed and also on made ground, are part of the general plan for the improvement of the lake front from Grant Park to Jackson Park, which requires the filling of the submerged area the entire distance of five miles. These are co-ordinated with the Illinois Central Railroad terminal plans.

South Water Street To Be Improved—Another feature of the Greater Chicago Plan is the improvement of South Water Street.

Here is located the second largest produce market in the United States. Its annual business runs into tens of millions of dollars. This great business of handling foodstuffs, which is synonymous with South Water Street, has completely absorbed one of the most important thoroughfares of the city, a stone's throw from the world's retail shopping center.

The business of South Water Street clogs several important business streets as for instance State Street, which sees throngs of peddler and delivery wagons loaded with foodstuffs each day. Hence South Water Street today is a millstone about the neck of the "Loop." It is a remnant of old Chicago blocking municipal progress. The plan is to make South Water Street a great two-level east and west thoroughfare and this plan has been ratified.

The Proposed Improvement—The proposed two-level South Water Street improvement will connect with the upper and lower surfaces of Michigan Avenue at both River and South Water Streets. The upper level will connect with every north-and-south street bridging the main channel of the river, including the Franklin-Orleans structure, and the bridges at LaSalle Street and Wabash Avenue, when built. Inasmuch as the present thoroughfare is entirely absorbed by private business, the creation of the upper and lower level thoroughfares in South Water Street and River Street will virtually give the city TWO GREATLY NEEDED NEW EAST-AND-WEST STREETS, by reclaiming for the public a street which it cannot use today, and by constructing beneath that street an entirely new artery for heavy traffic, in addition, it will eliminate the present clogging of north-and-south streets by market vehicles, which today occupy so large a proportion of these thoroughfares that only the street car tracks are available for through traffic, and even these are constantly blocked by market vehicles.

By its connection with Canal Street, the South Water Street improvement will form the northern boundary of a circuit of wide traffic arteries around the congested center, composed of South Water Street on the north, Canal Street on the west, Roosevelt Road on the south, and Michigan Avenue on the east. Not only will this quadrangle greatly relieve loop congestion, but the removal of the South Water Street produce market to a better, more economical and better adapted location will take 16,000 market vehicle trips per day off loop streets—thus freeing traffic movement on the north-and-south and the east-and-west streets—and reducing the present congestion in the downtown district 16 per cent.

Value to North, West and South Sides—It will be of immense value to the north, the west, and the south sides, as well as to the heart of the city, especially as the lower surface will provide a heavy-traffic thoroughfare (uninterrupted by cross-traffic) between the north side industrial district, the boat and freight terminals east of Michigan Avenue, and the west and southwest side terminal, warehouse and industrial districts, particularly the

warehouse section sure to develop between Halsted Street and the river, Madison Street and Roosevelt Road.

Today South Water Street is an economic waste; insanitary; a burdensome charge on all the people; a drawback to Chicago's progress; obstructive to its prosperity; and a conflagration danger to the whole loop district. It cannot longer remain as it is; dwarfed, a physical misfit, destroying its own value and usefulness, damaging the entire city, congesting the streets, and seriously hampering the movement of traffic on all north-and-south streets entering the downtown district.

Destiny of the Street—Its very location has destined it to be a modern, high-class business thoroughfare, the second finest in Chicago, and the logical northern boundary of the loop district.

The proposed improvement, and the relocation of the produce market elsewhere will enable South Water Street to achieve its true destiny.

The South Water Street plan has been approved as the best plan that can be devised by the following: Engineer J. R. Bibbins; C. D. Hill, Engineer, Board of Local Improvements; Clarence W. Farrier, City Planning Engineer, Board of Local Improvements; Thomas G. Pihlfeldt, City Engineer of Bridges; Edward J. Noonan, Engineer, Chicago Railway Terminal Commission; Hugh E. Young, Engineer, and E. H. Bennett, Consultant, of the Chicago Plan Commission. The plan has been endorsed by municipal, traffic, teaming, engineering, architectural, transportation, commercial, real estate, legal, economic and civic experts, and leading produce merchants.

Upper Street Will Be 110 Feet Wide—The upper street, extending from Michigan Avenue to Market Street, for the most part, will be about 110 feet wide, with a 72-foot roadway, a 24-foot sidewalk on the south side, and an 18-foot promenade along the river on the north. It will be approximately 20 feet above the city datum conforming to the new bridge approaches. The upper level will extend along South Water Street, as well as along River Street, between Michigan and Wabash Avenues.

All north and south streets will slope gently up to the upper thoroughfare of South Water Street, just as Michigan Ave-

nue does today, so the new improvement will appear to be a part of the regular street system. The fact that there are two thoroughfares will only be noticeable from the river side.

Other Details—The upper street will be carried on a substantial steel and concrete structure, with a masonry wall along the river front. Above the wall and bordering the northern sidewalk will be a splendid sidewalk, Bedford stone balustrade. Both the wall and the balustrade offer opportunity for fine architectural development, similar to that created in connection with the Michigan Avenue.

Arched openings in this wall will provide light and air to the lower street, and connect it with the 25-foot wide, open, uncovered dock that will extend the entire distance of the improvement, between the outer wall of the upper level and the edge of the river. A part of the plan, also, is a scheme of decorative lighting for the upper street on Michigan Avenue. Artistic stairways will connect the two levels at every north-and-south street. The upper level will be used for light traffic of all kinds.

The Lower Level—The lower level is designed especially to provide heavy commercial traffic with a through street uninterrupted by cross-traffic. It will be constructed at five feet above city datum, or at the present level of the docks along the river. The clearance between the

upper and lower streets will be twelve feet and four inches.

Ample connections between the normal street system and this lower level thoroughfare are provided, not only at each end, but also at strategic points. The lower level will be provided with a six-line roadway for heavy trucking; and raised sidewalks to be used as loading platforms and ventilating ducts, similar to the construction on the lower surface of North Michigan Avenue. Freight, dock, storage and other facilities are also provided. The plans for the development of this improvement are complete in every detail and have been worked out by the best technical skill to be had.

Property Values Will Increase—By carrying out the proposed plan, surrounding property values throughout a large area, north, south and west, as well as in the central districts, will be increased in a manner similar to the increase resulting from the Michigan Avenue improvement.

New Bridge Planned—A series of graceful bascule bridges is being constructed to replace the condemned center pier bridges that throttle river commerce. The Franklin-Orleans bridge was recently completed; also the new Wells Street bridge.

Plans have been adopted for new bridges at LaSalle and at Clark Streets. The bridges are designed to conform architecturally, and will add to the magnificence of the river. These improvements are Chicago's first steps to make the banks of

its river useful and profitable. Ultimately the city hopes to widen Market Street to the South Branch of the Chicago River. This will complete a great promenade, encircling three sides of the business district, following Grant Park and Lake Michigan to the East, and coursing the river banks to the North and the West.

Chicago Is Building for the Future—Chicago has confidence in her future. The Chicago Plan, the millions being expended on it, are ample evidence for stating this: "Resolutely upon the fundamental project their approval upon the fundamental project in their great Plan. What was once the 'Burnham Plan,' the 'Commercial Club Plan' and the 'Wacker Plan Commission Plan,' the citizens of Chicago now know is THEIR PLAN and all the world knows that what the people of Chicago WANT done WILL be done."

No community was ever more unified in the determination to beautify its city. The expenditures for improvements are not only going to benefit public health, recreation and conveniences but will bring a considerable enlargement of industry.

Chicago is building a vast machine of civilization. Remnants of the old city are being scrapped in favor of progress. Twenty-two separate and important features of the Plan of Chicago are now in the workshops of the city, country, state and nation.

Chicago is forging ahead.
(THE END)

MISCELLANEOUS INFORMATION

FOREST PRESERVE DISTRICT OF COOK COUNTY

The commissioners of Cook county by virtue of their office have served as commissioners of the forest preserve district of Cook county, authorized by an act of the state...

Dear George Preserve—1150 acres of hilly wooded land; 500 acres set aside and fenced for deer; twenty-five acres of artificial lake, which has developed into a home for water fowl.

Des Plaines River Valley Preserve—567 acres (Wheeling tract); old and new prairie; Indian days and scene of reception given Marquette, French explorer...

North Branch Chicago River Valley Preserve—Includes Indian reservation, forest tract, Indian reservation, Glen A. View all the forest land awarded to Billy Caldwell...

Rocky Hills Preserve—Promontory of rock on the south side along public use; 1000 acres of hilly forest land...

Chicago Historic Forest Preserve—Forest tract with small bodies of water and great natural junction of Lincoln and Dixie highways.

Thornion and Glenwood Preserves—Adjoining tracts; five forest preserve tracts have been site of a battle between American and British in the revolutionary war.

There are also preserves in Hegewald, South Chicago, Chicago Heights and Edgewater.

Some of the tracts have been improved with public conveniences, shelter houses, parking spaces and comfort stations, also dams and artificial lakes.

CHICAGO ZOOLOGICAL GARDENS In December, 1921, Mrs. McCormick presented to Cook county a tract of 300 acres of land, valued at about \$300,000 and lying on the west bank of the Des Plaines river...

ILLINOIS STATE OFFICES Appellate Court First district, Illinois, 14th St., 30 N. Michigan St., Chicago, Ill.

ATTORNEY GENERAL

E. J. Brundage, S. LaSalle, (Chancellor Examination Dept), 608 Chief Deputy—H. H. Smith.

STATE DEPARTMENTS

AGRICULTURE (Division Foods and Dairies), 503 S. Wabash St., R. 1410. Director—Chas. C. Cook.

AGRICULTURE (Division Game and Fish), 408 S. Wabash St., R. 1410. Game Warden—W. J. Stratton.

AGRICULTURE (Division Animal Industry), 357 1/2 U. S. Exchange Bldg., Stock Yards. Director—Wm. B. McGrath.

CONSTABLES OFFICE OF THE P. C. A. H. No. 1—210 S. State, R. 12. Gen'l. Superintendent—Walter P. Sauer.

FINANCE (Division Fox Commission), 202 E. Wabash av. R. 110. Chairman—Jerey B. Coffin.

LABOR (Division Vocational Rehabilitation)—129 N. Clark St., 1017. Director—Wm. W. Johnson.

LABOR (Employment)—608 S. Dearborn. Chief Inspector—John J. McKenna.

LABOR (Factory Inspection)—608 S. Dearborn. Chief Inspector—John J. McKenna.

PUBLIC HEALTH (Division of Lodging-House Inspection) 1430 N. Wells, R. 1101. Chief Inspector—Wm. W. McCulloch.

PUBLIC WORKS (Division Parks, Parks and Paroles) R. 319 County Bldg., 4th Floor. Chief—Wm. Astor.

PRINTING WORKS AND BUILDINGS—305 S. Wabash av. R. 1404. Superintendent—Wm. E. Beckett.

PUBLIC WORKS AND BUILDINGS (Division Architectural Engineering) 100 N. Dearborn. Superintendent—Edgar B. Linn.

PUBLIC WORKS AND BUILDINGS (Division of Waterways) 202 E. Wabash av. R. 1404. Chief—Wm. E. Beckett.

RIVER AND LAKE EDUCATION—150 N. Wells, R. 1201. Chief—Wm. E. Beckett.

STATE ARCHIVES—1430 N. Wells, R. 1101. Chief—Wm. E. Beckett.

STATE ARCHIVES (Division of Grain Inspection)—313 S. Clark. Chief—Wm. E. Beckett.

TRADE AND COMMERCE (Division of State and Federal Licenses) 129 N. Clark St., 1017. Chief Examiner—Lucius Potts.

TRUSTS (Inheritance Tax Dept), 100 N. Dearborn. Chief—Wm. E. Beckett.

MILITARY FORCES OF ILLINOIS General Officers—250 E. Ohio. Commander-in-Chief—Gen. Linn. Small.

One Hundred and Thirty-First Infantry (headquarters, Chicago)—Col. Frederick C. Chien, commanding.

One Hundred and Thirty-Second Infantry (headquarters, Chicago)—Col. Joseph M. Allen, commanding.

One Hundred and Twenty-Fourth Field Artillery (headquarters, Chicago)—Col. Joseph M. Allen, commanding.

One Hundred and Twenty-Second Field Artillery (headquarters, Chicago)—Col. Joseph M. Allen, commanding.

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DEPT. OF COMMERCE (Bureau of Foreign and Domestic Commerce) 202 E. Wabash av. R. 1410.

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NAVY RECRUITING STATION—608 S. Dearborn. Chief—Wm. E. Beckett.

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MISCELLANEOUS INFORMATION

Lake View—1223 1/2 Belmont av. Wm. Lincoln Park—1617-19 Larrabee; Ed. Logan square—2314-18 Fullerton av.

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MISCELLANEOUS INFORMATION

Domestic Orders Issued Year 1922

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MISCELLANEOUS INFORMATION

Church of the Holy Nativity, 85th and Longwood dr. Rev. Morton C. Stone, pastor.

Church of the Holy Trinity, 4718 S. Union av. Rev. F. J. Chipp, priest in charge.

Church of the Incarnation, 1024 and Park av. Rev. F. J. Chipp, priest in charge.

Church of the Holy Trinity, 4718 S. Union av. Rev. F. J. Chipp, priest in charge.

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Church of the Holy Trinity, 4718 S. Union av. Rev. F. J. Chipp, priest in charge.

St. Andrew's, Washington bl., n. e. cor. Robey, Rev. Cyrus M. Andrews, priest in charge.

St. George's, 75th and Drexel av. Rev. W. B. Spafford, priest in charge.

St. John's, 34th and Lincoln av. Rev. J. J. Kiehlhoff, pastor.

St. Martin's, 12th and Midway Park. Rev. Harry M. Dabin, pastor.

St. Paul's, 117 S. Peoria. Rev. Edwin V. Griswold, priest in charge.

St. George's, 621 Belmont av. Rev. Harry H. Bowen, pastor.

St. Philip's, 3613 S. Hamilton av. Rev. F. Chipp, priest in charge.

St. Simon's, Leiland av. s. e. cor. Racine. Rev. W. J. Peoria, pastor.

St. Thomas, S. Wabash av. cor. E. 38th. Rev. John Simons, priest in charge.

St. Vincent's, 125 E. 24th. Rev. Fred. C. Grant, pastor.

St. Mark's, 2423 Drexel bl. Rev. Hugh J. Springer, pastor.

St. Martin's, 12th and Midway Park. Rev. Harry M. Dabin, pastor.

St. Paul's, 117 S. Peoria. Rev. Edwin V. Griswold, priest in charge.

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St. Thomas, S. Wabash av. cor. E. 38th. Rev. John Simons, priest in charge.

St. Vincent's, 125 E. 24th. Rev. Fred. C. Grant, pastor.

MISSIONS

Reedemer, 5300 Chicago av. Rev. Joel H. ...

MISSIONS

Lutheran City Mission, 1459 Melville pl. Rev. John H. Witte, pastor.

MISSIONS

First, s. e. cor. 73d and LaSalle. Rev. Walker W. Miller, pastor.

MISSIONS

St. Paul's, 117 S. Peoria. Rev. Edwin V. Griswold, priest in charge.

MISSIONS

St. Mark's, 2423 Drexel bl. Rev. Hugh J. Springer, pastor.

MISCELLANEOUS INFORMATION

Halsted Street, 1335 S. Halsted, Rev. Robert Stephenson, pastor.
Hegewald, Burley av., n. e. cor. B. 15th, Rev. J. W. Swanson, pastor.
Hermosa, 2668 N. Tripp av. Rev. Wm. J. W. Swanson, pastor.

Hyde Park, 6401 Blackstone av. Rev. Joseph Stankovic, pastor.
Ingleside Av., E. 76th, n. e. cor. Ingleside av. Rev. John W. Funston, pastor.
Irving Park, 3800 N. Keeler av. Rev. Amory S. Ruskin, pastor.

Madison Park, 4700 W. 38th, Rev. Thos. M. Carter, pastor.
Mandell, W. Congress, cor. Laverne, Rev. H. W. Wilson, pastor.
McKinley Park, 3700 W. 38th, Rev. Thos. M. Carter, pastor.

Normal Park, 3 Union av., n. e. cor. Ferdinand, Rev. Wm. H. Tapp, pastor.
North Park, 3500 W. 38th, Rev. Wm. J. Schuerman, pastor.
Oakland, Langley av. and Oakwood bl., Rev. J. H. Anderson, pastor.

Portage Park, Irving bl. and E. Hopkins, Rev. J. H. Anderson, pastor.
Pulman, 1211 W. 4th, Rev. S. J. Cope, pastor.
Racine, W. 4041 S. Racine av. Rev. Robert J. Skilton, pastor.

Norwegian and Danish

Bethan, W. 4041 S. Racine av. Rev. Robert J. Skilton, pastor.
Bjork, Ingleside av. and 72d, Rev. J. H. Anderson, pastor.

Swedish

Auburn Park, 74th and Racine av. Rev. Erik Eliason, pastor.
Bjork, Ingleside av. and 72d, Rev. J. H. Anderson, pastor.

Lexington Conference

Blackthorn St., 25 W 18th, Rev. C. L. Fleming, pastor.
Englewood, 6400 Stewart av. Rev. C. L. Fleming, pastor.

Missions

Deaf Mute Mission, LaSalle and Locust, Rev. Philip J. Hasenstab, pastor.
Methodist Mission for Home Sufferers, Rev. Philip J. Hasenstab, pastor.

Methodist Protestant

Avilion Park, 8100 Dante av. Rev. J. H. Anderson, pastor.
Anselmo Park, 100-106 S. Ashland bl., Rev. Simon R. Forsberg, pastor.

DIENSTVERIAN

Rev. George P. Magill, D.D., moderator.
Rev. Andrew G. Williams, secretary.

ROMAN CATHOLIC

Chicago West Side Hungarian, 4327-28 Carroll av. Rev. Leo Port.
Chicago West Side Hungarian, 4327-28 Carroll av. Rev. Leo Port.

Archbishop of Chicago Most Rev. Geo. G. Mealey, D.D.

St. Ignace, 1200 N. Dearborn, Rev. Edward F. Hoban, D.D.
St. Ignace, 1200 N. Dearborn, Rev. Edward F. Hoban, D.D.

Assumption (Croatian), 6001 Marsh-

St. Ignace, 1200 N. Dearborn, Rev. Edward F. Hoban, D.D.
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St. Ignace, 1200 N. Dearborn, Rev. Edward F. Hoban, D.D.

St. Adalbert's (Polish), W. 17th and

St. Adalbert's (Polish), W. 17th and Paulina, Rev. C. J. Gronkowski, pastor.
St. Adalbert's (Polish), W. 17th and Paulina, Rev. C. J. Gronkowski, pastor.

St. Anthony's (Italian), 213 E. 14th

St. Anthony's (Italian), 213 E. 14th, Rev. J. J. Gorman, pastor.
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MISCELLANEOUS INFORMATION

St. Columbanus, 71st and Calumet av. Rev. D. P. O'Brien, pastor.
St. Columbanus, 71st and Calumet av. Rev. D. P. O'Brien, pastor.

St. Cyril and Methodius (Slovak), 4008

St. Cyril and Methodius (Slovak), 4008 S. 4th, Rev. J. J. Gorman, pastor.
St. Cyril and Methodius (Slovak), 4008 S. 4th, Rev. J. J. Gorman, pastor.

St. Francis Xavier's (German), 2540

St. Francis Xavier's (German), 2540 W. 14th, Rev. J. J. Gorman, pastor.
St. Francis Xavier's (German), 2540 W. 14th, Rev. J. J. Gorman, pastor.

St. George's (Lithuanian), 3220 S. A.

St. George's (Lithuanian), 3220 S. A. 1st, Rev. J. J. Gorman, pastor.
St. George's (Lithuanian), 3220 S. A. 1st, Rev. J. J. Gorman, pastor.

St. Joseph's (Polish), 2347 Augusta

St. Joseph's (Polish), 2347 Augusta, Rev. J. J. Gorman, pastor.
St. Joseph's (Polish), 2347 Augusta, Rev. J. J. Gorman, pastor.

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St. John Nepomucene's (Bohemian), Lowe av. n. e. cor. 30th, Rev. A. J. Gorman, pastor.

St. John's (Slovak), 9133

St. John's (Slovak), 9133 Burley av. Rev. John O'Brien, pastor.
St. John's (Slovak), 9133 Burley av. Rev. John O'Brien, pastor.

St. Joseph's (German), 3110

St. Joseph's (German), 3110 W. 14th, Rev. J. J. Gorman, pastor.
St. Joseph's (German), 3110 W. 14th, Rev. J. J. Gorman, pastor.

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MISCELLANEOUS INFORMATION

St. Michael's (German), Cleveland av. cor. Eugene... St. Nicholas, Oakley bl. at Rice, Rev. Basil Stetson, pastor... St. Paul, 424 N. Austin av. Rev. Eugene Luke, pastor...

St. Veronica's 3316 N. Whipple, Rev. Leo J. Code, pastor... St. Michael's 3218 N. Kedzie av. Rev. Victor J. H. Frasn, asst. pastor... St. Joseph's 3218 N. Kedzie av. Rev. Victor J. H. Frasn, asst. pastor...

St. Veronica's 3316 N. Whipple, Rev. Leo J. Code, pastor... St. Michael's 3218 N. Kedzie av. Rev. Victor J. H. Frasn, asst. pastor... St. Joseph's 3218 N. Kedzie av. Rev. Victor J. H. Frasn, asst. pastor...

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MISCELLANEOUS INFORMATION

D. 88th; 1508 Larrabee; 250 W. 224 7th E. 36th; Railroad Department; 1000 W. 14th; 307 N. Karlov av. ...

MEDICAL, DENTAL, PHARMACEUTICAL AND VETERINARY COLLEGES

MUSEUMS

Art Institute of Chicago, Michigan av. opposite Adams, Pres. Charles L. Hutchinson; v-pres. Martin A. Ryerson ...

PARKS, PLAYGROUNDS AND BATHING BEACHES

Lincoln Park System Commissioners—(By consent of Senate) Eugene H. Pike, Mrs. Helen T. Pelouse, Saml. Cassidy, John A. Tompkins, Robert H. Morse, Charles L. Pierce, Harold ...

MISCELLANEOUS INFORMATION

Bessemer, South Chicago av., 85th, Muskegon av. and 11st. Bickerdike, square Ohio, Bickerdike, ...

MISCELLANEOUS INFORMATION

Montrose Point, Montrose av., Sheridan rd. and Broadway. Mulberry Point, Nickerson av., Nina ...

MISCELLANEOUS INFORMATION

MUNICIPAL BATHING BEACHES AND PUBLIC BUILDINGS, BLOCKS AND HALLS

MISCELLANEOUS INFORMATION

PUBLIC BUILDINGS, BLOCKS AND HALLS (See Public Buildings and Halls in Classified Business Section.)

RAILROAD STATIONS

RELIGIOUS SOCIETIES

SOCIAL SETTLEMENTS, RECREATION CENTERS

Association House of Chicago, 2156 North av. Flora Findlay, hd. res. Burnside Settlement, 1122 E. 90th. Rev. ...

MISCELLANEOUS INFORMATION

Adams, Seminary av. and Wolfram. Almita Rooms, Wabasha av. and Hancock ...

MISCELLANEOUS INFORMATION

Adams, 75th pl. 75th and Dobson av. 75th pl. and Alley in Vincennes av. E. 27th pl. and Alley in Vincennes av. ...

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Adams, 75th pl. 75th and Dobson av. 75th pl. and Alley in Vincennes av. E. 27th pl. and Alley in Vincennes av. ...

MISCELLANEOUS INFORMATION

Lake Shore, Lake front bet. Chicago rd. and Pearson. Lawson, 18th and 13th. Leysney, Beta av., Rokeby and Addison ...

MISCELLANEOUS INFORMATION

Oak Street University Settlement, 1400 Augusta. Harriet E. Vittum, ...

MISCELLANEOUS INFORMATION

Northwestern University Settlement, 1400 Augusta. Harriet E. Vittum, ...

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Chicago Medical Society, 6th fl. Marshall Field Annex bldg. Hugh M. ...

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Alfred Chandler No. 331—Secs. Emily Carlson, 1920 B'nai B'rith, 1st Tuesday at 26th and Roman av.

ILLINOIS TURNOVER—Meets every 2d and 4th Saturday at 10:30 at Northside Turnerhall, 3528 N. Marshall av.

Local Societies—Antonia Turnverein Belmont av. Central Turnverein—3446 W. North Chicago Turnverein—826 N. Clark, 2421 Chicago Turnverein—1048 W. 63rd, 18thc Turnverein—206 Kensington av. Grand Crossing Turnverein—1021 E. 76th.

Verona Lincoln—1005-1023 Diversey Pkwy. Schweizer Turnverein—1536 Cuyabour av. Sozialer Turnverein—1659 Belmont av. South Chicago Turnverein, 1000 S. Teutonia Turnverein, 1000 S. Teutonia Turnverein, 2431 W. Roosevelt rd.

IMPROVED ORDER OF RED MEN—Great Council of the United States National Office, 205 So. Kodzie av. W. E. MacLennan, Great Chief of Records (Chicago, Ill.) Geo. W. Swanson, Sec. E. Sedwick, Grand Inchohan (National President), Martinsville, Ind.

Subordinate Orders—Chicago-Wo-Co No. 1—Meets 2d and 4th Monday at 17th and Kodzie av. Henry J. Ank, Chief of Records, 223 North av.

Washington No. 34—Meets 1st and 3d Wednesday at 2519 Fullerton av. H. Kirsch, Chief of Records, 223 W. North av.

Lawsonic No. 19—Meets 2d and 4th Thursday at Market Hall, Fullerton av. Edw. J. Diel, Chief of Records, 2418 Kensington av.

Calumet No. 301—Meets 1st and 3d Monday at 21st and Normal av. J. C. Dunne, Sec. 21st and Normal av. Halsted No. 303—Meets 4th Thursday at 21st and Normal av. J. C. Dunne, Sec. 21st and Normal av.

Tuscola No. 218—Meets 2d and 4th Friday at 20th and Kodzie av. H. E. Edwards, Chief of Records, 65 Franklin av. River No. 222—Meets 2d and 4th Monday at 2519 Fullerton av. H. Kirsch, Chief of Records, 223 W. North av.

United No. 414—Meets 2d and 4th Thursday at 810 N. Parkside av. Elmer W. Frisco, Chief of Records, 838 Massachusetts av. Jackson No. 203—Meets 2d and 4th Tuesday at 428 W. 63d. Wm. H. Okenwald, Chief of Records, 455 Oak-wood av.

Omaha No. 20—Meets every Tuesday 8:35 University av. James R. Wadsworth, Chief of Records, 6236 University av.

IMPROVED BENEVOLENT AND PROTECTIVE ORDER OF ELKS OF THE WORLD—Fort Dearborn Lodge No. 41—51st and Glen av. John R. Marshall, exalted. Col. H. P. Collins, Sec. 41—4034 S. Great Lakes Lodge No. 45—4034 S. Great Lakes av. Exalted ruler, Walter O. Bolton, Sec.

IMPROVED ORDER OF HEALERS (See Fraternal Aid Union)—District Lodge No. 1—Pres. Adolf Kraus; Sec. A. B. Soelenford; 7 N. Dearborn, 123.

Subordinate Lodges—Utah No. 43—Meets 2d Monday at 14 N. Dearborn. A. B. Soelenford, Sec. 43—Meets 2d Monday at 137 S. La Salle. O. P. Walter, sec. 43—Meets 2d Monday at 137 S. La Salle. O. P. Walter, sec. 43—Meets 2d Monday at 137 S. La Salle. O. P. Walter, sec.

INDEPENDENT ORDER OF BETH SHalom—District Lodge No. 1—Pres. Adolf Kraus; Sec. A. B. Soelenford; 7 N. Dearborn, 123.

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INDEPENDENT ORDER OF BETH SHalom—District Lodge No. 1—Pres. Adolf Kraus; Sec. A. B. Soelenford; 7 N. Dearborn, 123.

MISCELLANEOUS INFORMATION

Dnay Vera No. 818—Meets at 518 Con-Brza No. 484—Meets at 3418 Michigan

Calumet No. 484—Meets at 3418 Michigan

North Western Turnverein No. 491—Meets at 2704 Giddings, Nathan Wax-

York Golden No. 525—Meets 2600

Washburn Progressive No. 564—Meets

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New Monitor No. 427—Meets 1st and

Palmer Magnolia No. 438—Meets 2d Monday

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District No. 3—Robert Clark, Lodges

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MISCELLANEOUS INFORMATION

Fourth Tuesday Night 691 Freedom, 4238 W. 22d

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MISCELLANEOUS INFORMATION

Ivar No. 27—Meets 1st and 3d Friday at Ivar Temple, Elston and Hamilton...

St. Patrick's Council meets 2d and 4th Thursdays at 165 W. Madison.

St. Rita Council meets 1st and 3d Thursdays at 315 N. Dearborn.

St. Salvator Council meets 2d and 4th Thursdays at 111th and 3d St. Paul.

St. Theresa Council meets 1st and 3d Thursdays at 90th and Commercial.

St. Vincent Council meets 1st and 3d Thursdays at 54th and Ashland.

St. Joseph Council meets 1st and 3d Thursdays at 42nd Irving Park bl.

St. Ann Council meets 1st and 3d Thursdays at 1107 Michigan.

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