

Annual Report

of the

DEPARTMENT OF PARKS

Borough of Manhattan

for the year

1927

WALTER R. HARRICK, *Commissioner.*

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PRESS OF
I. SMIGEL, INC.
NEW YORK

January 5, 1928.

HON. JAMES J. WALKER,
Mayor,
The City of New York.

Dear Sir:

I respectfully submit herewith the Annual Report of the Department of Parks, Borough of Manhattan, for the year ending December 31, 1927.

Yours very respectfully,

WALTER R. HERRICK,
Commissioner of Parks,
Borough of Manhattan,

REPORT OF THE COMMISSIONER

CENTRAL PARK.

The outstanding features of the administration of the Park Department, Borough of Manhattan, for the year 1927, were the increased activities of the Department. Most noteworthy of these was the employment of Hermann W. Merkel, General Superintendent of the Westchester County Park Commission, to make a survey for the rehabilitation of Central Park.

The park, due to many years of insufficient appropriation and surrounding conditions, had deteriorated to such an extent that great remedial work was necessitated.

The employment of Mr. Merkel was decided upon after a very careful survey of those competent to do the work. Mr. Merkel's standing in the country, his noted success as Superintendent of the laying out of the Bronx Zoological Park and the Bronx River Parkway, proved that he was amply equipped to do the work. He actually made a foot-by-foot and on-foot survey of the park, and his report, which was submitted to the Commissioner early in the Fall of 1927, received universal favorable comment, not only from the public press but also from civic organizations interested in the parks of this city, from various firms and individuals engaged in the same line of occupation, as well as a number of private individuals.

Based on Mr. Merkel's report, an estimate was made of the recommended rehabilitation and an application was submitted to the Board of Estimate and Apportionment for an appropriation of \$873,920.00 to carry out the work. This included the installation of an artificial irrigation system throughout the park. Previous to this application, the City had already appropriated from the amount of \$1,000,000.00, set aside for the rehabilitation of Central Park, the sum of \$140,984.53.

When the recommendations of the Merkel Report have been carried out, Central Park will be restored to its original attractive condition, and will then be, without doubt, one of the most beautiful City parks in the Country.

There is one very serious problem, however, which has not been provided for, but which should be taken into consideration

by the City in its park policy, and that is the Zoo in Central Park. The collection although small, contains many valuable specimens. The buildings are of an unattractive type of architecture, of wooden construction, and from the standpoint of usefulness, extremely inadequate. Moreover, they constitute a fire hazard and should be removed and be replaced by buildings of stone or concrete of a sanitary type.

RIVERSIDE PARK.

A survey was also made for the rehabilitation of Riverside Park and an application was prepared to be made to the Board of Estimate and Apportionment for an appropriation to carry out this work, in the sum of \$287,727.25.

CARL SCHURZ PARK.

A survey was made for the re-landscaping and improvement of the southerly portion of Carl Schurz Park along the East River, between 84th and 86th Streets. It is estimated that the cost of this rehabilitation will be \$23,000, and an application for that amount was prepared to be submitted to the Board of Estimate and Apportionment.

Budget Appropriations.—A review of the park situation for the Borough of Manhattan during the year 1927 convinced the Department that it had for many years suffered from a lack of sufficient funds to maintain properly the areas under its jurisdiction. As a comparison, the Budget in 1914 was \$1,097,544.29. The following three years the amount appropriated was very much diminished. In fact, in 1919, only \$977,491 was appropriated, while in 1927 the Budget was \$1,671,403. This convinced the Commissioner that (in view of the proposed rehabilitation, particularly of Central Park and Riverside Park), if the parks were to be properly maintained after rehabilitation, it would necessitate a still larger increase in the annual budget, and the sum of \$2,099,241 was applied for, for 1928.

As a result of its survey of the park situation, the Department feels that in the near future its activities should be directed particularly toward the rehabilitation of a number of the smaller parks.

MOUNT MORRIS PARK.

Mount Morris Park, which is one of the historical locations of this City, is badly in need of improvement, and should have a complete and thorough rehabilitation. The estimated cost of this work will amount to approximately \$100,000.00.

MORNINGSIDE PARK.

Although not in as bad a condition as Mount Morris Park, this is naturally a beautiful piece of park area and it will cost approximately \$50,000 to put it in the condition in which it should be.

BRYANT PARK.

Bryant Park is absolutely archaic in its lay-out. It should be re-designed, re-landscaped and re-planted.

BATTERY PARK.

Battery Park, which is particularly, so to speak, the front lawn of the Island of Manhattan, is badly in need of re-designing and re-landscaping. This should be made one of the most beautiful parks of our City, not only for the sake of our citizens, but for the impression it would make on visitors approaching the Island by water. The spur of the elevated railroad from Whitehall Street down to the South Ferry is a violent intrusion upon this park area and should be removed. A very desirable addition to the park would be a Water-Gate to be constructed along the southerly sea-wall. This should be dignified in construction and beautiful as to architecture. It would be quite proper and most appropriate to have this Water-Gate dedicated to the Youth of Greater New York, who saw service Over-Seas during the great World War.

INWOOD HILL PARK.

In recent years, the City acquired Inwood Hill Park, situated at the northwesterly point of Manhattan Island. At the present time this park has a number of very old and dilapidated buildings encumbering it. These buildings should be removed. The park itself is the last bit of primitive nature we have left on Manhattan Island, and it should be retained as such, with consideration, of

course, for the proper horticultural features. The landscaping feature of this park is the high ridge running through the center, the park sloping on the west toward the Hudson River, and to the east toward Isham Park. I believe that one broad roadway should be built around this park, so that there would be a continuous Drive from Isham Park along the shores of the Harlem River skirting Spuyten Duyvil and then south along the shores of the Hudson and out of the Park again at Dyckman Street, connecting with the proposed extension of the Express Highway.

Extension of Riverside Park.—The Department has prepared plans for the improvement of the extension of Riverside Park from 72nd Street along the Hudson River to 129th Street, these plans showing the treatment of the area which would be acquired by the City by filling in to the bulkhead line. The City has acquired in this way sixty acres of new land at an estimated value of \$12,600,000.00. These plans were filed with the Board of Estimate and Apportionment and are now under consideration. They show the roofing over the tracks of the New York Central Railroad from 72nd Street to 129th Street. On this roofing it is planned to construct an express highway. This will not only greatly facilitate northbound and southbound travel on the west side of the City, but will at the same time obviate the intolerable noise and smoke nuisance, which for many years has been seriously objected to by the residents of Riverside Drive. The covering of the New York Central tracks will make the entire space a park area; 32 acres of this newly acquired land will be devoted to recreational facilities; 12 acres will be given over exclusively to children's playgrounds and playfields. In addition, there will be constructed between 79th and 96th Streets along the Hudson River, a fresh-water swimming pool, 48 tennis courts, and two large boating centers. A concert grove will be constructed at 102nd Street, which will give musical entertainment for the residents of the upper west side. This is fully justified by the popularity of the concerts conducted at The Mall in Central Park for several years, and the pleasure the public has derived from them.

I have commented upon the number of acres of land acquired by the City by filling along Riverside Park. Added to this should

be the six acres of land which have been acquired by filling in at Fort Washington Park and Inwood Hill Park, at an appraised valuation of \$100,000 an acre, the City gaining in land values \$600,000.

At Inwood Hill Park 9.73 acres of new land have been made at an appraised value of \$64,000 an acre, the City gaining a land value of \$622,000.

It has also been estimated that the amount saved the City by permitting the subway contractors to dump fill, is approximately \$3,000,000, and that the total value of the land so made is \$16,822,000.

There should be greater playground areas established for the children of the City. At the present time in the entire area on Manhattan Island, there are only 100 acres devoted to playgrounds under the jurisdiction of the Park Department.

Garage Service.—It was found that the garage situated in the 86th Street Transverse Road was inadequate to accommodate the trucks, small delivery wagons, mowers, and the cars of the park officials. It was estimated that a new garage would cost the City approximately \$100,000. An inspection showed that the basement of the Arsenal was being used only for the storage of odds and ends including considerable rubbish and it was determined to convert this into a garage for Department use. This work was done by the employees of the Department and we now have an adequate garage with a concrete floor, the necessary facilities for washing cars, and a toilet for the use of employees.

A new garage was constructed at 79th Street for the purpose of storing the old and additional spraying machines. This building enables the Department to store all of its spraying machines at one central point from which they can be sent out for work and checked accordingly.

Waste Receptacles.—One hundred combination incinerators and waste receptacles of a new type were purchased and installed throughout the Park.

Settees.—Out of the appropriation which is anticipated for the year 1928, we contemplate purchasing 800 new settees, which will be the largest amount purchased in any one year.

Automobile Air Compressor.—Out of the rehabilitation fund has been purchased an automobile air compressor used in the feeding and fertilization of trees. It is a modern form of equipment which has not previously been included in the park equipment.

Spraying Machines.—Two new high-powered spraying machines mounted on two-ton trucks were installed, giving the Department adequate means for the proper spraying of trees, which it has not had heretofore.

Drilling Machine.—A pneumatic drilling machine was purchased, another innovation, and one which enabled the Department to fertilize a greater number of trees with less labor and in a much shorter length of time.

Lawn Sprinklers.—It is also planned to purchase from the appropriation of 1928, 100 large portable lawn sprinklers, which will be used under the rehabilitation plan for Central Park, and 6,000 feet of hose for connection with the sprinklers.

6,024 tons of rotted stable manure were purchased and used.

5,000 cubic yards of top soil.

40,000 square feet of grass sod.

150 tons of commercial fertilizer.

This is the largest amount of such supplies that has been purchased in the Park Department and actually used during one year, for the last fifteen years.

The buildings in the Central Park Zoo were repainted for the first time since the year 1920. In that year the work was done under contract. This year it was done by the Park Department employees, every available man being assigned to the job.

Blowers, or a force draught system, were installed in nine buildings, the installation of which resulted in a saving to the City of \$9,000, due to the fact that the heating plants could be operated with buckwheat coal in place of the more expensive grades.

Comfort Stations.—There has been a continual demand for additional comfort stations at various points in the parks of Manhattan.

Five new stations have been opened and another is in course of construction in Washington Square Park. The Park Department now maintains 48 comfort stations for men and 44 for women.

Bridle Paths, Central Park.—It was found that the bridle paths in Central Park had been deteriorating for many years and numerous complaints were received from riders. The paths were reconstructed for the first time since originally laid out. The former grading was irregular and at some points so uneven as to render the paths almost dangerous. Surface gravel was removed and the paths were brought to a proper grade, spiked with a road roller and resurfaced with a fresh layer of gravel. It is a matter of gratification to the Park Commissioner to have received comments from many citizens as to the bridle paths being in better condition than they have been since riding was first established in the Park.

Grant's Tomb, Riverside Drive.—Grant's Tomb and its surrounding walks were very much in need of general improvements and repairs. An appropriation was obtained from the City for the necessary restoration. Similar requests for appropriations of money for these repairs had been made for ten successive years, without results.

HARLEM RIVER SPEEDWAY.

4990 linear feet of granite balustrade were constructed along the Harlem River Speedway from 165th to 198th Streets. The gravel and asphalt sidewalks of the Speedway were relaid, totaling 130,000 feet.

A wrought-iron picket fence was erected on the east coping of the Speedway extending from 155th to 165th Streets, a distance of 2600 linear feet.

Repairs to Walks, Roadways, etc.—The entire walk area around the Arsenal Building and the roadway leading to the same from the 65th Street Transverse Road, were repaved.

In addition to the repaving in the various parks,—Central Park, Riverside Park, and on the Harlem River Speedway, 18,070

square feet of repaving in and about the smaller parks was completed.

Permanent Benches.—236 permanent concrete benches were constructed along Riverside Drive. The Department is convinced that for length of service, this is the most useful and durable type of bench that can be used, and it is highly advisable that the old type of bench (except a sufficient number which have to be moved from place to place) be done away with. In the long run, the permanent concrete type of bench will be much cheaper.

Museums, Buildings.—The activities and increased additional exhibits for the Museum of Art, the American Museum of Natural History and the Aquarium are set forth in such detail in the reports of those institutions, that it is unnecessary to include them in this report, but one of the most noted and progressive activities from an educational standpoint, can very well be commented upon here; that was the erection by the City of the School Service Building of the American Museum of Natural History, which was part of the original plan of construction and has enabled the Museum greatly to extend its activities for the instruction of the children of this City. As an example of how useful this branch of education is and how it has increased, the total number of persons reached by its educational activities in 1926 was 5,859,529, whereas for the year 1927 it was 9,933,504.

The administration of Park activities is carried on through seven different Bureaus, namely:

- Landscape architecture
- Forestry
- Audit
- Recreation
- Superintendent of Parks (which is actually a Bureau of Maintenance)
- Engineering
- School Farms

It should be stated here that in including the work of the Landscape Architect, his employment not only appertains to the Borough of Manhattan, but to all five boroughs of the City of

New York. Consequently, the report covers his complete activities of the whole Park System.

The work and accomplishments of each Bureau follow in detail; combining with the Bureau of Engineering, however, the report of the Consulting Engineer.

LANDSCAPE ARCHITECT

BOROUGH OF MANHATTAN

PREPARATION OF PLANS FOR

Inwood Hill Park.

Riverside Park Extension from 72nd Street to St. Clair Place.

Possible treatment of Riverside Park Extension from 72nd to 79th Streets.

Park treatment of land west of N. Y. C. R. R. tracks, between 143rd and 153rd Streets.

Straus Park.

Redesigned Tompkins Square Park.

Washington Square Park.

Union Square Park.

Bryant Park.

Entire time during the survey of Mr. Hermann W. Merkel for rehabilitation of Central Park.

Attended conferences with Port of New York Authorities in relation to proposed Hudson River Bridge.

Attended conferences with the Engineering Committee whenever invited.

Worked on and prepared schedules for the rehabilitation of Central Park.

Prepared report for Commissioner for the rehabilitation of Riverside Park and Drive.

Reported on matters before Board of Standards and Appeals.

Approved of electric signs; also numerous small plans and sketches prepared for general park improvement.

Prepared for the Borough President of Manhattan a landscape and planting for the improvement of grounds around the New Court House.

Prepared list of trees, shrubs, evergreens, vines and ground-cover plants needed in the rehabilitation of Central Park.

Continued vigilance was necessary in guarding the encroachments on parks which occur from time to time; also the damage caused by the work of the Contractors of the Board of Transportation for new subway construction, to see that at the completion of the work the parks were properly restored.

BOROUGH OF THE BRONX

Approval of plans for golf house, Mosholu Links and selection of site for same.

Modification of plans for Joyce Kilmer Park, 161st Street and Grand Concourse.

Modification of original design of Park, 161st Street, River Avenue and Jerome Avenue. Acting in an advisory capacity with department engineers for general improvement of Bronx River Parkway.

Approved plans for 238th Street Viaduct, Bronx River Parkway.

Approved and studied designs for several comfort stations located in various parts of the Borough.

Approved plans and site for additional greenhouses to be located in Van Cortlandt Park Nurseries.

Prepared plan for park layout and treatment, bounded by Bryant Avenue, Aldus Street, Longfellow and Whitlock Avenues. Also various other duties in connection with the improvement of parks.

BOROUGH OF BROOKLYN

Prepared plans for Shore Road improvement.

Prepared plans for Marine Park—new plan 1239 acres.

Prepared plans for Canarsie Park—new plan.

Prepared plans for Dyker Beach—new plan and golf course.

Prepared plans for six new playgrounds.

Conferred with the Supervisor of Recreation on changes in parks, and setting aside certain areas for playground purposes.

Conferred with the Commissioner, Superintendent and the Engineer on the ground conditions of the parks and suggested a remedy for and treatment of same so that all trees, shrubs and plants would be planted to harmonize with the general aspect of the parks.

Approval of all contract plans for new buildings, monuments, fencing, repaving, etc.

BOROUGH OF QUEENS

Approval and study of plans for the general improvement of various parks, acting in an advisory capacity in their preparation by the Assistant Landscape Architect of the Department.

Approval and study of plans for new greenhouses and storage buildings.

MAINTENANCE BUREAU.

Conference with the Commissioner, Engineer, Superintendent Assistant Landscape Architect whenever time permitted, or called upon by the Commissioner for such conference to advise or recommend changes for bettering and improving general conditions.

BOROUGH OF RICHMOND

Preparation and approval of plans for Silver Lake Park improvement.

Approval and study of greenhouses for Silver Lake Park.

Approval and study of plans for proposed golf links in Silver Lake Park.

Conference with the Commissioner of Parks, whenever time permitted, to go over the general workings of the Department acting in the capacity of advisor relative to landscaping and proper treatment of park lands.

Also selecting proposed lands suitable for park purposes with the Commissioner and Consulting Engineer of the Borough.

Most of these parcels are now located on the city map to be taken up by the Board of Estimate and Apportionment.

BUREAU OF FORESTRY

PLANTING.

The planting of trees is confined both to spring and fall, although the spring is preferred, if time permits. All trees, four inch caliper, are now planted in good sized pits, 6' x 6' x 3'. Old soil is excavated and new soil supplied; to every cubic yard of soil five pounds of bone meal is incorporated. This method is showing good results, thereby greatly reducing the loss. A great many trees of small size were planted in former years, many of which died, thereby causing a heavy loss, both of time in planting and in the cost of the trees. By planting less trees of a larger size in large pits, we insure a more successful planting. This, however, pertains to the hard-wooded trees. The soft-wooded trees are planted in sizes 2½ inch and 3 inch caliper, and are found to grow very well.

We have also adopted a system of recording our activities in this line, with a gardener in charge of the spraying. He is required to make out spraying record cards with a complete tabulation of all the spraying, giving the number of trees and shrubs sprayed each day, the strength of the insecticide, the infestation, the percentage of control, etc. By this system we have been able to save time and material and get good results. In addition, we can at any time ascertain the percentage of control for a future guide to either strengthen or reduce mixture to bring about results.

INJURIOUS INSECTS, FUNGUS AND OTHER DISEASES:

Besides being subject to injuries resulting from conditions of artificial city environments and abuse, trees have natural parasitic enemies, such as insects and fungi. They also suffer from diseases in which the condition of soil and climate are the controlling factors.

The most vital task in the care of trees is the extermination of the insects which threaten to destroy or injure them. The insects which have given the most trouble in the past have been the leaf-eating species; Elm Leaf Beetle (Tussock Moth), Tent Caterpillar, Fall Webworm, Bag Worm, Spiny Elm Caterpillars;

the sucking insects, Cottony Maple Scale, Scurfy Scale, Oyster Shell Scale, Woolly Maple Scale, Evonymus Scale, Tulip Scale, Aphids of numerous varieties, such as Plant Lice, Wolly Aphis, Red Spider, Leaf Hopper, Lace-wing Fly, and some new mites which are known as European Red Mite or Two-Spotted Mite. These latter pests have recently infested our trees.

The many varieties of Borers have caused us much trouble. Besides the leaf-eating and sucking insects which injure trees through defoliation, shade trees are also subject to the attacks of borers that feed on their wood tissues.

The Leopard Moth is the most destructive specie of borer, and attacks all kinds of shade trees. A great many trees have been destroyed by this borer. It is almost a hopeless task to combat it. The moths do not feed on the surface very long; they change their quarters and work into the wood tissues of the tree, therefore making it impossible to destroy them before the damage is done. We have found, during our work of removing large dead limbs from the trees in Central Park, evidence of the destructive work of these borers.

It is the policy of the Bureau, in spraying for the control of these insect infestations, to confine ourselves to the use of standard formulas of insecticides and fungicides, and avoid patent remedies until they have been duly tested by experiment stations, or are recommended by well-known entomologists. If, at any time, these formulas are not effectual, advice is sought of the State Entomologists.

Since the acquisition of additional spraying outfits, it is our intention to go extensively into the spraying of trees when in their dormant state, for the elimination of insects' eggs secreted in the bark of the trees, by which we hope to gain better results.

FERTILIZING AND CULTIVATION.

Fertilizing is given the same consideration as other practices of the Bureau. Old, well-tried methods, which have proven safe and have gained best results, are adopted. Much is claimed by those who have had experience in renovating old trees, for the plan of making a number of holes under the tree to a depth of 1½ to 2 feet and placing the fertilizer therein. This procedure has much justification, owing to the great fixing power of soil,

especially for phosphoric acid and potash salts, which would otherwise be prevented from being quickly and readily carried down in large quantities to points where the deeper roots reach it, even if fertilizer were employed in this manner. We also apply same to the surface in order to insure an even lateral distribution as well, and cultivate this surface area. There are many methods used for fertilizing trees, but we find this the most economical, simple and safe method. As to the fertilizer used, the same precaution is taken as with the insecticides. Natural fertilizer is used, such as Bone Meal, Sheep and Cow Manure. We avoid fertilizers composed of chemicals as they are expensive and sometimes dangerous. In Bone Meal we have the natural phosphoric acid available to the amount of 24%, 2.40% of Nitrogen and 3% Potash, which is safe and effective to plant life. Sheep Manure is one of the most valuable of the farm manures. The valuable constituents in this as well as in Cow Manure, are not so quickly available as they are in high grade fertilizer, but they have an additional value, since they furnish humus, lighten the soil, inoculate it with nutrifying organisms, and increase its power to hold moisture, while assisting in liberating the mineral constituents of the soil; as in Bone Meal, it has a lasting supply of plant food.

Under this program our work has been carried on for over ten years.

FERTILIZATION.

The outstanding accomplishments of the Bureau this year were made significant through the appropriation of \$91,567.33 chargeable to the rehabilitation of Central Park.

There were assigned 35 additional men to fertilize, cultivate and prune the trees in Central Park. From this fund, there was also purchased an Ingersoll Rand Air Compressor Drilling Machine which was used to feed fertilizer to the roots of the trees by the method of boring holes around the base of the trees and away from the stem where the feeding roots are located. 8,264 trees were fed in this manner, using over one hundred tons of commercial fertilizer; 12,212 trees and 25,181 shrubs were mulched, using 1,500 cubic yards of cow manure purchased from this same fund and 1,500 cubic yards decomposed stable manure

from the pits at 97th Street yard. New soil was covered over the roots of 1,000 large trees which had been exposed by erosions of many years' washing away of the soil, and the disturbed areas were graded. In doing this work over 4,000 cubic yards of soil were used.

Parks below 59th Street received attention, by fertilizing and mulching of all the trees and shrubs in Battery Park, Tompkins Square Park, Washington Square Park, Union Square Park, Madison Square Park, Thomas Smith Park, Bryant Park and City Hall Park.

In addition to mulching the trees in City Hall Park they were fertilized with commercial fertilizer by the boring and feeding process and that work was done by a Tree Expert Company without charge, the material being furnished by this department.

PLANTING.

Central Park.—There was a special planting in the north end of the park where the areas on both sides of the Lochs, on the East Drive and the pool on the West Drive were barren and the earth packed hard. This planting required over 2,000 small willows and yellow locust trees and 982 shrubs. Other plantings were made in the Ramble where 445 small locusts (*Robinia Pseudoaccacia*) were planted.

HERBACEOUS FLOWER BEDS.

In the awakening of nature after an enforced rest due to a cold winter, herbaceous perennial plants bring the first green and brightness to our landscape. The response of these plants in the 76 large flower beds throughout Central Park has received a great deal of favorable comment. These beds have been kept supplied with flowering perennials from June until November or until frost killed the flowers on these plants. 2,000 Iris plants were added to the many thousand now in these beds by separation of the roots and 39,870 other perennials and annuals were planted throughout the year in varieties of Sweet William, Chrysanthemums, Salvias, Phlox (*subalata*), Marigolds (*Cleom*) or Spider Plant, etc., 10,000 English Ivy and *Polygonum* vines were planted on slopes and in plots at the Plaza for ground cover at the entrance to

Central Park and in flower beds in small parks of Manhattan. All these flower beds were kept watered and cultivated during the spring and summer and there were flowers in bloom, making a very attractive display for the whole growing season.

PRUNING.

Progress has been made this year in the pruning of trees and shrubs due to the increased force of men.

The pruning is carefully done, the men being instructed to follow the principle set down for proper pruning, to make clean cuts, remove all dead wood and interfering branches. They are also instructed to consult the gardener in charge at all times when they are in doubt as to what branches should be removed. Extensive pruning of all the large trees in Central Park south of the 79th Street Transverse Road has been accomplished. Some of the largest of these trees were the American Elms adjoining the Mall. They are among the oldest trees in the park and have been dying for years. Every year more dead wood is removed and they have lost their graceful outline and present a very unsightly picture. The pruning of the trees on the East Drive from 88th Street to 96th Street has been also done and shows a wonderful improvement.

BATTERY PARK.

All the trees and shrubs in Battery Park have been pruned, cultivated and sprayed and several dead trees removed. The large California Privet around the comfort station was trimmed back to clear the view of buildings and the entrance to the subway. There were two flower beds cultivated and two large beds of tulip bulbs planted which were furnished by the Consul General of the Netherlands—8,000 bulbs being used.

CITY HALL PARK.

All the trees were fertilized and pruned, and the dead wood and interfering branches taken out. The shrubs around all the buildings in this park were trimmed and thinned out. Egg masses were removed from the trees and the trees sprayed three times during the summer months.

WASHINGTON SQUARE PARK.

The trees in this park were very badly in need of pruning and it took several weeks to prune the living trees and remove the dead trees. All the trees were cleaned of egg masses. Trees and shrubs were sprayed three times during the summer. Shrubs were also pruned and cultivated during the summer and mulched with well rotted manure in the fall.

TOMPKINS SQUARE PARK.

A great number of dead and dangerous trees were removed and the remaining trees pruned, cultivated and sprayed during the season.

MADISON SQUARE PARK.

The large English Elms in this park are in very good condition. They were pruned, cultivated, fertilized and sprayed during the year.

STUYVESANT SQUARE PARK.

There are not many trees in this park, but they are very large and required expert climbing to accomplish what has been done in the way of removing some very large heavy dead branches. The large California Privet was trimmed back and dead and interfering branches removed. Spraying was thoroughly done during the summer months to control the Tussock Moth. Several applications were applied.

UNION SQUARE AND BRYANT PARKS.

All the trees and shrubs in these parks received proper attention. There was not so much dead wood in the trees and shrubs, therefore it was not necessary to devote much time in pruning, cultivating, etc. Considerable time was spent on the work of spraying, which had to be done several times.

ST. GABRIEL'S, ST. CATHERINE'S, JOHN JAY MURPHY and THOMAS SMITH PARKS.

The trees and shrubs received the usual attention by spraying and cultivating during the summer and mulching in the fall, and were kept in good condition during the year.

CARL SCHURZ PARK.

The trees and shrubs were pruned, sprayed and cultivated during the summer and a large perennial flower bed was cleaned and cultivated. All the trees and shrubs were mulched in the fall.

RIVERSIDE DRIVE.

All the dead trees on the Drive from 72nd Street to 158th Street were removed and dead wood taken from the trees between 72nd and 122nd Streets. Some pruning was done in the park, but due to the small force for this class of work we were unable to do all that was required.

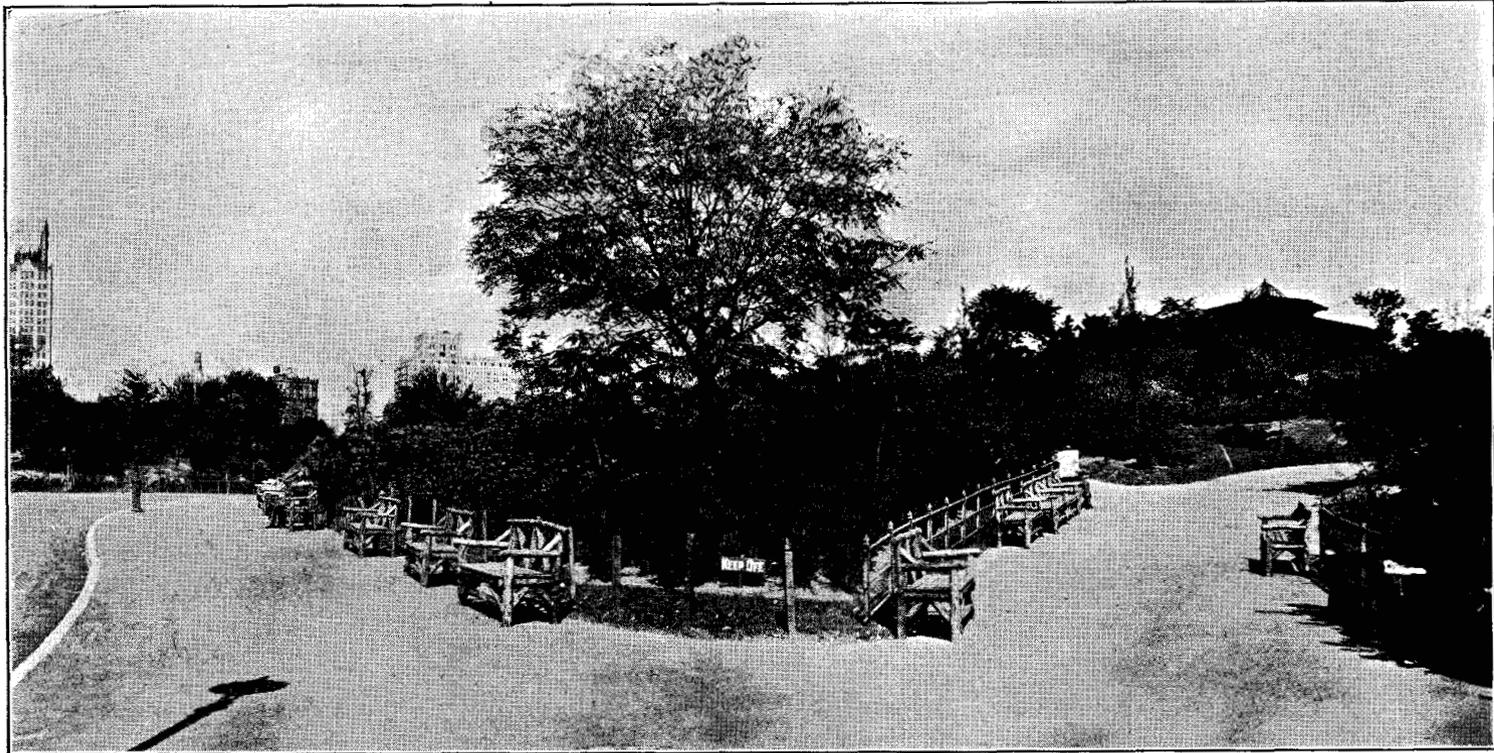
CULTIVATION.

There cannot be too much said about the benefits to plants through cultivation. Keeping the soil around trees and shrubs cultivated and free from weeds is one of the most important aids to their growth, and keeping the ground loose allows air to reach the roots, renders more available the plant food the soil contains, and prevents the rapid evaporation of moisture. If the ground is hard it becomes heated, the water forces itself to the surface, and passes into the atmosphere. If kept cultivated, it acts like a blanket and prevents the loss of water by surface evaporation. Therefore, too much stress cannot be laid upon the importance of cultivation.

CENTRAL PARK.

A great deal of attention has been given to cultivation in this park. All the perennial flower beds have been kept well cultivated and watered during the summer; 62,000 shrubs cleaned of weeds, and soil worked around them, and 29,654 trees cultivated.

At the Sixth Avenue and 59th Street entrance, there are a number of large plantations of shrubs, perennials and trees. Two of the tree plantations consist of two of the groups of large trees planted last year. This location received special care in cultivation, a gardener was kept busy with these plantations, watering, pruning, cultivating and weeding all season. (A photograph of this location will show what continual cultivation will do by experienced gardeners.)



NEWLY PLANTED SHRUBS AND VINES AT NEW 6TH AVE. ENTRANCE
Forestry Bureau

The Plaza at Fifth Avenue, between 58th and 60th Streets, around the Pulitzer fountain and at the Sherman Statue, also received continual care from early spring, when 12,000 tulips were in bloom in the flower beds until fall. After these bulbs have bloomed, the beds are re-planted with 12,000 bedding plants, which require a great deal of care, therefore, it is necessary to have a gardener assigned to look after this whole area, watering, cultivating and weeding flower beds and cutting grass.

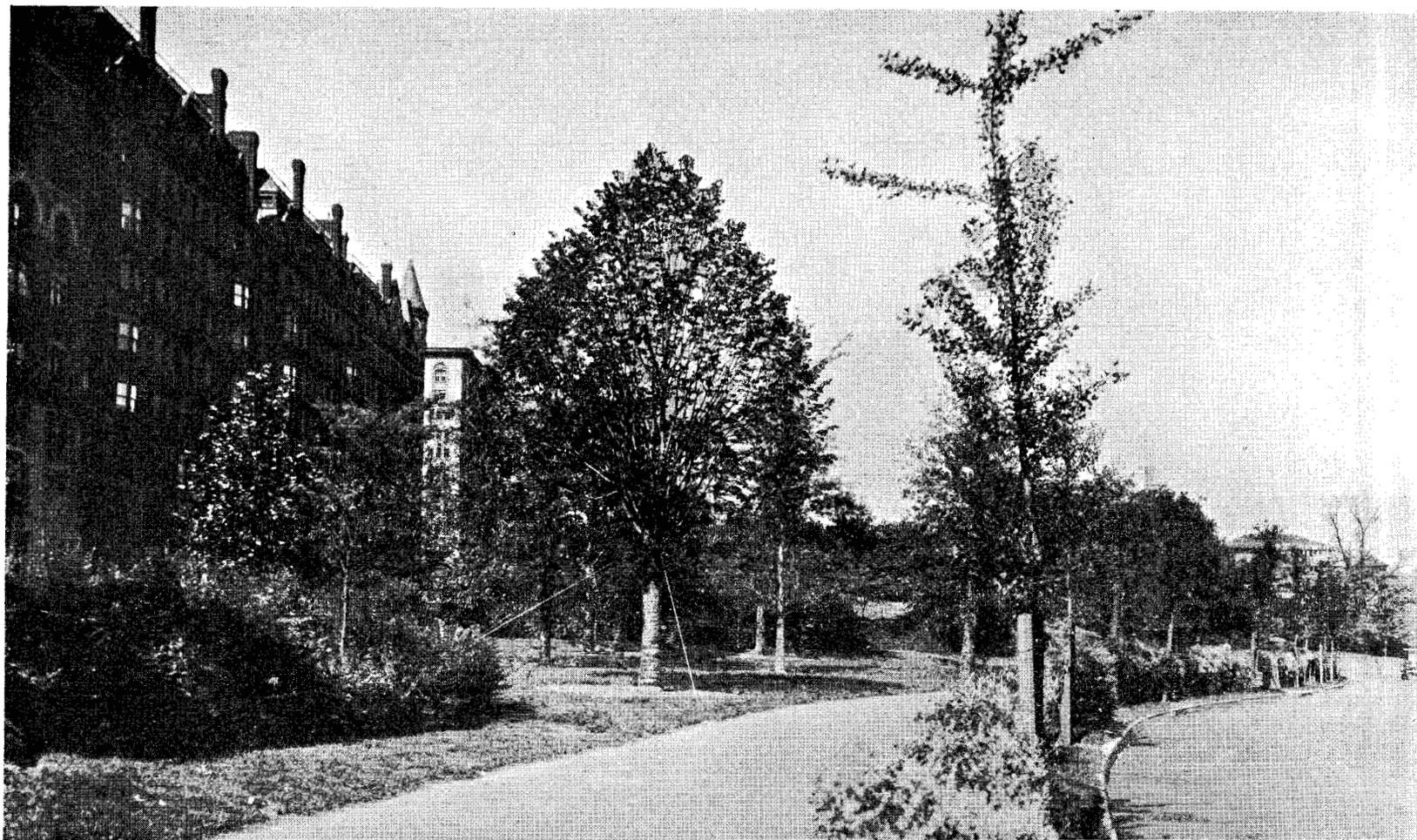
SPECIMEN TREES.

Besides these important special features of careful cultivation, the sixty large trees planted last year, by five prominent nurserymen in the vicinity of New York City, were given special care. These trees were from their own nurseries and were of an unusually large size, measuring from 8" to 16" caliper of stem and 35' to 50' in height. They were delivered on platforms with large balls of earth, each nurseryman's employees planting his own trees in groups of 6 to 12 trees in each group. Locations were selected in Central Park by the Landscape Architect. These trees were given the best of attention and show good results, except the group on the east side of the Sheep Meadow where there was a considerable amount of tramping by a crowd of 50,000 people viewing a parade.

Parks below 59th Street were given the usual care in cultivation during the season, but the parks north of 59th Street, other than Central Park, did not receive as much attention as was necessary on account of not having sufficient gardeners. However, besides doing other work in all these parks, we were able to cultivate 5,449 trees, 10,292 shrubs, and care for 17 large perennial flower beds.

INSECT PESTS.

About 2,000 distinct species of noxious insects threatened the lives of the trees, shrubs and herbaceous plants in the city parks. Many of these were dangerous pests, having been brought here in consignments of trees and plants from other countries, but they quickly adapt themselves to the existing conditions and constitute a menace that requires constant study



NEWLY PLANTED TREES NEAR 6th AVE. ENTRANCE
Forestry Bureau



TULIP TREE
(*Liriodendron Tulipifera*)

Circumference 19 feet, age about 242 years. Hendrik Hudson Memorial, Inwood Hill Park. Largest tree on Manhattan Island; located close to the inlet on the northeast side of park coming in from 207th street.

Hendrik Hudson entered this inlet in 1609 and may have met the Indians here. The many years accumulation of oyster shells, arrow heads and other relics which have been dug up at this location lead us to believe that this was a favorite camping ground of the Indians.

and experiment to keep them in subjection. It is by no means a difficult matter to destroy noxious insects, but it is a harder problem to do so without injuring the tender foliage. The most destructive are minute in size, innumerable in quantity and widely varied as to the necessary method of extermination. Some must be destroyed by contact poison while others successfully resist this treatment, rendering it necessary to induce them to absorb the poison with their food. Therefore, under these conditions, it became very difficult to exterminate all the minute insect pests which were so abundant this year. Nevertheless, with the additional power spraying apparatus, making an equipment of two large Fitzhenry motor driven machines with a capacity of 300 gallons each, one Friend Power Sprayer with 200 gallon capacity, each mounted on a Ford Chassis and by constant use of this outfit and spraying the trees several times during the summer, we were able to control to a greater degree the ravages of the Tussock Moth and kindred species, especially in Central Park. A great number of the trees and shrubs were also sprayed in an attempt to exterminate the Red Spider or mite (*Tetranychus* species) which was very prevalent on a number of varieties of trees. The American and English Elms suffered severely from the attack of this insect, and after an attempt to control it by the application of patent remedial preparations which were recommended, the use of these preparations was immediately discontinued because they injured the tender foliage on the trees.

RECOMMENDATIONS.

Mr. Hermann W. Merkel in his survey for the rehabilitation of Central Park had a careful examination made of the trees and shrubs by Dr. E. P. Felt, State Entomologist, to ascertain what insects were attacking the trees. Dr. Felt recommended a formula for the control and elimination of these pests. This examination having been made in August it was too late to carry out his program for spraying but we intend to do so in the proper season.

In this program, special stress is laid on the importance of spraying when the trees and shrubs are in their dormant state.

This practice has always been followed whenever it was possible and when material and men were available to do the work. Many trees and shrubs had to be treated for scale insects so destructive to the American Elm, American Ash, Willow and Thorn trees. Our spraying activities in all the parks covered 71,440 trees and 102,822 shrubs, besides a great many plantations of vines and perennial flower beds containing thousands of plants.

STREETS AND PARKWAYS.

The number of trees sprayed, in some instances several times, in order to control the insect pests so attacking them, amounted to 13,263 trees.

In all the work of insect control this year we have used the following amount of fungicides and insecticides:

- 300 lbs. of Bordeaux Mixture (paste form)
- 1,000 gallons of Sulco V. B. (soluble animal fish and vegetable oil).
- 600 lbs. Fish Oil Soap (analysis test pure).
- 10,000 lbs. Arsenate of lead (paste form).
- 100 lbs. Calcium Arsenate.
- 110 gallons Volck Insecticide.
- 500 lbs. Powdered lime sulphur.
- 500 lbs. Kayso (used as a spreader).
- 100 lbs. Nicotine.

CARE OF TREES ON CITY STREETS.

In the Borough of Manhattan there are approximately 17,000 trees on the city streets and parkways.

The force of men for the care of these trees is entirely inadequate. This force consists of eight Climbers and Pruners, one Laborer and a Gardener in charge; nevertheless the records show that the following amount of work was accomplished. There were 1,507 trees pruned of dead wood and interfering branches; 1,322 trees cleaned of egg masses; 547 dead and dangerous trees removed; 353 trees planted on parkways and streets adjacent to parks; 2,602 trees were cultivated and watered during the summer; 2,032 trees were mulched in the fall with decomposed stable manure. Other items of work done by the street tree force will be found in another part of this report.

NEW TREES PLANTED.

A number of trees were planted on city streets by contract, under the jurisdiction of the Department of Public Works and the Department of Parks.

HARLEM RIVER DRIVEWAY.

Contract under the jurisdiction of the Park Department:

Norway Maples 4-inch caliper, planted in large pits, new soil supplied, staked and protected with a substantial tree guard.

The number of trees in row was..... 364

Contract under jurisdiction of Department of Public Works:

Seaman Avenue between Dyckman and Beach Streets	28 trees
West 24th Street between Broadway and 10th Avenue ...	25 trees
Thayer Street, between Broadway and Nagel Avenue	42 trees
Fairview Terrace between Broadway and Wadsworth Avenue	28 trees
West 193d Street and St. Nicholas and Audubon Avenues	15 trees
Laurel Hill Terrace, 184th to 188th Streets.....	56 trees
West 186th Street, Laurel Hill Terrace and Amsterdam Avenue	13 trees
St. Nicholas Avenue from 131st to 142d Streets	66 trees
Allen Street from 1st Street to Delancy Street.....	38 trees

All of the above were inspected by the Forestry Bureau of The Park Department.

RESTORATION WORK—PARK AVENUE PLOTS.

Most of the plots from 57th to 96th Streets were spaded; lime and bone meal combined were incorporated with soil raked over, reseeded with grass seed and rolled with a 600 pound roller. The railings around the ventilators in the centre of these plots are covered with a vine called Polygonum. These vines were pruned, fertilized and cultivated; the 241 Gingko trees in these plots were also fertilized and cultivated.

BROADWAY PLOTS.

The Broadway plots from 61st Street to 122nd Street were dug up and fertilized and all grass areas reseeded. Shrubs were pruned and cultivated.

INWOOD HILL.

The newly acquired area on the easterly side of this park was cleared of all dead and dangerous trees; the stumps were removed by contract. The number of trees removed was as follows:

542 trees 24" and less,—247 trees over 24" felled, and 1,117 stumps removed, all pits filled with good loam and material resulting therefrom was disposed of by the contractor.

The fence around the Tulip Tree (*Liriodendron Tulipifera*), the largest tree in Manhattan, at the southeastern side of the park, known as the "Hendrik Hudson Tree," was painted. Over 1,000 lbs. of Bone Meal and Sheep Manure were fed to the roots of this tree by the boring process of feeding the fertilizer to the roots; a mulch of ten cubic yards of well decomposed cow manure was spread over a large area at the base of this tree.

INSPECTIONS.

The inspection of all requests or complaints is a very important activity of the Forestry Bureau, for the reason that many of these requests require varied attention, and an inspection and report enables us to determine whether to send one man or a large crew to do the necessary work.

An inspection was made of 776 requests from citizens, corporations, builders, etc., for attention to trees abutting on their property and the work.

An examination was made of 139 trees on city streets and in the parks which showed evidence of having been injured or destroyed by carelessness on the part of those erecting structures or overhauling buildings, or by vehicles on the highways colliding with same. Proper charges were filed through official channels and damages assessed against them for recovery or replacement.

Applications from citizens, firms, corporations, etc., for planting and removing, pruning, spraying trees on city streets were received and sixty permits were issued. The number of permits for planting of trees was 167.

The number of trees inspected for repair, trimming, spraying, removal on account of disease, unsightliness, etc., was 2,000.

TREES DAMAGED.

There were a great many trees damaged and destroyed during the year through various causes over which we had no control. There were 52 trees destroyed by vandals, mostly in Central Park. Builders are very negligent in regard to the protection of trees, and over 21 trees were damaged in front of buildings in the course of construction.

Careless drivers of automobiles damaged and destroyed 69 trees. In some cases we were able to collect damages, but 75% escaped without obtaining their license number or any trace of them. Most of this damage is done at night. The greatest loss of trees is through storm.

Damage to trees during the year 1927. The following number of trees were damaged:

By storm	98
By vehicles	73
By building operations	21
By vandals	52

ACTIVITIES IN CENTRAL PARK FOR THE YEAR 1927:

TREES

Pruned	6,791
Sprayed for insects, scale and fungi	53,837
Planted	2,445
Cultivated	29,654
Mulched with manure	12,218
Removed dead and dangerous trees	931
Transplanted, large trees.....	76
Scraped and cleaned wounds	50
Staked trees newly planted	837
Binders put on trees for protection	776
Fertilized with bone-meal and other fertilizer.....	8,264
Cleaned off egg masses	7,717

SHRUBS

Pruned	27,663
Sprayed for insect pests	75,563
Planted in plantations	984
Cultivated	62,600
Mulched with manure	25,181
Removed dead and unsightly shrubs	1,507
Transplanted large size shrubs	737
Cleaned shrubs in plantations of weeds	9,103
Fertilized with stable manure.....	3,101

HEDGES

Trimmed and shaped	1,035
Herbaceous Flower Beds	76
Beds cultivated and planted with perennials to the amount of.....	39,946
Perennials transplanted in nursery	46,816

REHABILITATION OF CENTRAL PARK.

As previously stated, the Forestry Bureau received a large amount of fertilizer, top soil and spray material and additional men, chargeable against the fund of \$91,567.33, part of which was appropriated for treating the trees in Central Park. These extra men were engaged in the work of fertilizing, pruning, cultivating and spraying the trees. Following is a list of the work accomplished:

Fertilized by the boring process and feeding with commercial fertilizer, trees over 24-inch caliper	2,000 trees
Fertilizing trees under 24-inch caliper of stem with same material and process	6,264 trees
Fertilizing and mulching trees under this size.....	12,218 trees
Trees pruned in Central Park	6,791 trees
Shrubs pruned in Central Park	27,663 shrubs
Shrubs fertilized in Central Park	25,181 shrubs
Tree roots covered with soil	1,000
Due to the purchase of two additional spraying machines we were able to show 50% more trees sprayed.	
Trees sprayed in Central Park	53,837 trees
Shrubs sprayed in Central Park	75,563 shrubs

The material used during the progress of this work:

Cow manure in cubic yards	1,500
Garden loam in cubic yards	5,000
Bone meal in tons	50
Sheep manure in tons	50
Decomposed stable manure from 97th Street Yard pit, cubic yards..	2,000

CONTRACT, REMOVING DEAD TREES CENTRAL PARK.

There was also a contract awarded for felling dead trees, pulling stumps, and disposing of same.

Number of dead trees felled	322
Number of stumps pulled	587

The following herbaceous plants were grown in 79th Street Greenhouse, Central Park, and planted out in beds, in the following parks:

Central Park	39,946
Battery Park—Sweet William	860
Battery Park—Salvias	320
City Hall Park—Ivy	1,940
Carl Schurz Park—Sweet William	400
Mitchell Square Park—Sweet William.....	300
Montefiore Park—Sweet William	400
Montefiore Park—Chrysanthemums	100
Park Avenue Plots—Polygonums	1,050
Riverside Park—Sweet William	225
Riverside Park—Salvias	100
Saint Gabriel's Park—Sweet William	375
Tompkins Square Park—Sweet William	800
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Total planted—Central Park	39,946
Park Avenue Plots and small Parks	6,870
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	46,816

Perennials grown during the year in the 79th Street Nursery and still on hand:

Sweet William	10,000
Ivy cuttings	12,000
Ivy plants in pots	4,375
Phlox subulata	2,000
Delphinium Privet, etc.	3,103
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Total	31,478

ACTIVITIES IN SMALL PARKS, OTHER THAN CENTRAL PARK.

TREES.

KIND OF WORK	NUMBER
Pruned trees	1,827
Removed trees	864
Sprayed trees	17,603
Planted small trees	967
Cultivated small trees	5,449
Repaired cavities	3
Cleaned of wounds	187
Fertilized and mulched	4,076

SHRUBS.

Pruned shrubs	7,583
Removed dead shrubs	934
Sprayed shrubs	27,259

Planted shrubs	765
Transplanted and cleaned shrubs	613
Fertilized and mulched	5,405
Cultivated	10,292

PERENNIALS.

Planted English Ivy	1,940
Planted Tulip Bulbs	8,500
Transplanted Ivy	1,000
Cultivated large Perennial beds	17

STREET ACTIVITIES, INCLUDING BROADWAY AND PARK AVENUE PLOTS.

KIND OF WORK	NUMBER
Pruned trees	1,507
Pruned shrubs	653
Pruned vines	4,657
Removed trees	547
Removed shrubs	125
Removed vines	283
Sprayed trees	13,263
Cleaned trees of egg masses	1,322
Cleaned shrubs	5,987
Planted trees	353
Planted shrubs	55
Planted vines	1,070
Transplanted trees	12
Mulched trees	2,032
Mulched vines on Park Avenue	2,510
Fertilized trees	259
Binders on trees	135
Cultivated trees	2,602
Cultivated beds	3
Staked trees	633
Erect and repair tree guards	19
Remove tubs from Park Avenue plots	18
Tieing up vines on Park Avenue plots	6,550

MISCELLANEOUS WORK	DAYS
Cleaned lawns on Broadway and Park Avenue Plots	1,412
Taking census of trees	14
Watering trees, lawns, etc.	41
Supervision of planting contract (Harlem River Driveway)	23
Restoration of Lawns, Broadway and Park Avenue Plots	508
Removal of snow from cross-walks	125
Fertilize lawns, clean vines and shrubs, Park Avenue	16
Repaired cavities, tree guards and removed stakes on trees	9

SUMMARY OF PARK ACTIVITIES.

KIND OF WORK	NUMBER
Pruned trees	8,618
Pruned shrubs	35,246
Pruned hedges (trimming and shaping) (feet)	2,065
Removed trees	1,795
Removed shrubs	2,446
Removed herbaceous plants from Isham Greenhouse for trans- planting	25,600
Sprayed trees	71,440
Sprayed shrubs	102,822
Planted trees	3,412
Planted shrubs	1,749
Planted ivy	1,940
Planted tulips	22,500
Planted beds	96
Transplanted trees	91
Transplanted shrubs	850
Heeled in at nurseries (trees)	322
Mulched trees	16,130
Mulched shrubs	30,486
Mulched beds	96
Fertilized trees with commerical fertilizer	8,528
Fertilized shrubs	3,201
Cultivated trees	35,103
Cultivated shrubs	72,892
Cultivated beds	96
Cleaned trees (cavities and wounds)	50
Cleaned trees of egg masses	7,904
Cleaned shrubs	9,603
Cleaned beds	96
Removed dead trees from nurseries	246
Removed trees for transplanting	1,181
Staked trees	1,106
Repaired binders on trees	1,138

BUREAU OF RECREATION

PURPOSES

The ultimate object of the Bureau of Recreation is to provide clean and wholesome recreation for the child, youth and adult in order that their leisure hours may be assets to them and to the City of New York. This aim is attained by planning activities which will hold their interest and make them better physically, mentally and morally.

Character building is a very important aim of the Bureau of Recreation. For the park playground, it can be said that it offers to the children of New York the priceless gift of a place

to play where they can have fresh air, sunshine and outdoor exercise of which they are so sorely in need. The trees and lawns about some of our playgrounds and athletic fields have a soothing and healing effects on the minds of the children and adults using them.

Experience is offered to the child in an animated, stimulating, miniature society, which presents many of the situations one encounters later in adult life. The playground develops the cooperator, the competitor, the rival, the leader, the follower, the friend. The game fosters loyalty to one's fellows, to one's team, and to one's playground. It accustoms one to obey the captain and to work for the good of the whole rather than for one's self. It develops facility in concerted action. There is a quickening of sense perceptions and the child not only learns to be alert, but he learns the value of alertness and inhibition.

In being required to abide by the rules of the game under circumstances which sorely try the temper, one acquires self-control. In short, it can be said that the children of New York City are better mentally, morally and physically as a result of attending our park playgrounds. The well known Psychologist, E. D. Angell, well describes the value of play when he says, "Play is an education and it is an education that gives to the young pupil strength, health, alertness, aggressiveness, sympathy, friendship and courage, and better than all, it paves the way for a deeper morality that would come in no other way."

"Recreation for All" has been the motto of the Bureau of Recreation, and all facilities were used to their maximum capacity during the past year. Our gymnasiums and field houses have been crowded at night with neighborhood clubs indulging in wholesome forms of recreation. Mothers' clubs also had their meetings and parties wherever a field house was connected with the playground.

FACILITIES

The Bureau of Recreation has under its supervision 25 park playgrounds and 9 public gymnasiums open the year round, 15 additional summer playgrounds, two tennis fields (44 courts), 6 fields (Central Park for general recreation), 3 recreation piers, 16 athletic fields and 28 baseball diamonds.

ACTIVITIES AND PROGRAM OF WORK

The activities throughout the year and the program of work includes: baseball, basketball, soccer, football, tennis, handball, volley ball, swimming, skating, hockey, captain ball, punch ball, athletic meets, swimming meets, tournaments, club work, social gatherings, moving pictures, concerts, celebration of July 4th, and other holidays, excursions, boat rides, roller-skating contests, marble-shooting contests, coasting, ice-skating, Winter Sports Carnival, exhibitions by experts in sport lines, baseball league for men, cooperation with all recreational agencies, cooperation with the Mayor's Committee on Municipal Athletic Activities.

PLAYGROUND ORGANIZATION

As far as possible, the plan of self government was worked out in all of our playgrounds. The children were invited to join sanitary and health squads, the captains of which were called "Health Commissioners." A monitorial system also proved very popular and relieved a great deal of the strain of constant supervision on the part of the playground director. After consultation with the Assistant Supervisors and Field Staff it was decided that each Playground Director should make out a definite program which could be faithfully followed throughout the season. Each Director was required to make provision in his program for the following activities:

BOYS' ACTIVITIES

BASEBALL—INTER-PLAYGROUND TOURNAMENT AND INTRA-PLAYGROUND LEAGUE.

This League organized within each playground proved most successful and popular with the smaller boys. Each playground was represented by at least 8 teams.

BASKETBALL & RELATED GAMES.

Overhead Pass Combination—Pass Ball—Three-Two-One, etc.



A SKETCH OF HECKSCHER PLAYGROUND WITHOUT EQUIPMENT

ATHLETICS.

Two athletic events were held each day. The children were given points and prizes were awarded to those having the highest number of points at the end of the season.

NOVELTY EVENTS.

Elephant Walk, Penny Placing, Nose & Ear Tag, Blind Boxing, Chicken Fight, Hand Wrestling, etc.

QUIET GAMES.

Checker Games proved most popular and quiet games will function from now on in all outdoor playgrounds. The innovation proved most successful.

PLAYGROUND EQUIPMENT.

Gymnastic Work, Slides, Swings, Jungle Gym, See-saws.

SOCCER & ASSOCIATION FOOTBALL.

GIRLS' ACTIVITIES

DANCING—National and Folk.

QUIET GAMES—Checkers-Dominoes-Parchesi.

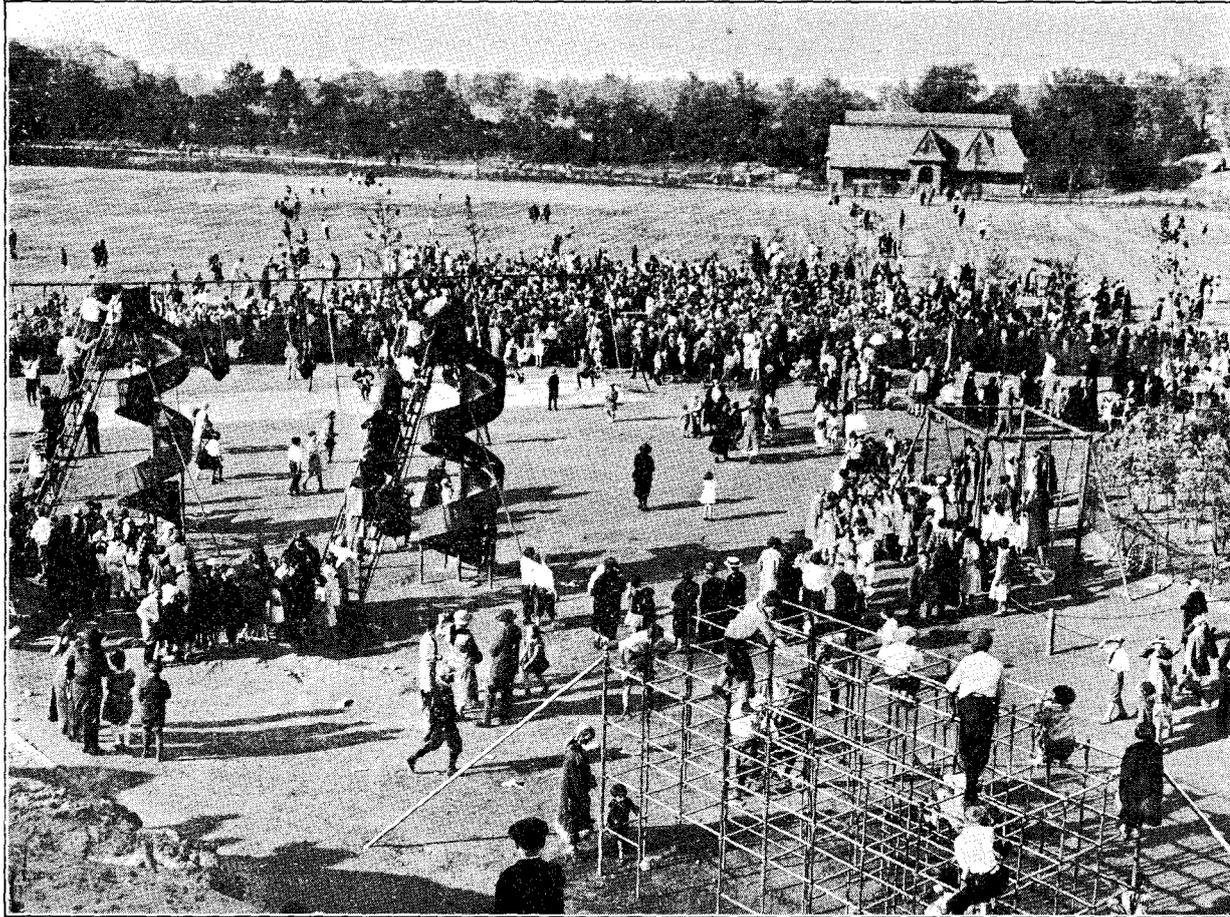
STORY TELLING.

HANDICRAFT.

PLAYGROUND EQUIPMENT.

ATHLETICS..

In the matter of athletics for girls, it was agreed that those athletic activities which prepare for life by developing the girls mentally, morally and physically are good. Girls should have good lungs, a good digestion and a good heart, and activities for girls were selected which were interesting and which would bring results. Leadership, courage, self reliance, good judgment and will power were aims in girls' athletics as well as the athletic activities for the boys. Some of the athletic activities for the girls were: All Up Relay, Pass Ball Relay, Short Dashes, Basketball, Throw for Distance, Relay Races, Punch Ball.



"A BUSY DAY AT HECKSCHER PLAYGROUND"

PLAYGROUND EQUIPMENT FOR GIRLS.

Swings, Slide, Bagatelle Board, Balancing Beam, Rope Skipping, Club Work.

KINDERGARTEN CHILDREN.

Free Play, Swings, Hammocks, Marching, Quiet Games, Blocks, Scrap Books, Kindergarten Games, Singing Games, Story Period, Handiwork.

GYMNASIUM ORGANIZATION

Realizing that the gymnasium should be a social factor and a place where harmonious development of the body can be obtained, emphasis was placed on club formation and the broader aims of physical education. No effort was made on the part of gymnasium directors to produce prodigies of strength or to enable men to perform difficult feats, but an effort was made to organize the boys and young men using the gymnasium into clubs, to interest them in different forms of athletics and gymnastics and to give to each individual using the gymnasium an opportunity to obtain a harmonious development. The creed of our gymnasiums was that each person using them should be trust-worthy, loyal, helpful, friendly, courteous, respectful, cheerful, brave and clean of mind and body. These were the laws of conduct and they were insisted upon by all directors. An effort was made to accommodate not only neighborhood clubs and individuals, but also all individuals and industrial groups employed in the neighborhood of the gymnasium. The activities in the gymnasium included: Basketball, Volley Ball, Boxing, Wrestling, Track Activities, Dancing, Heavy and Light Apparatus Work, Club Meetings, etc. Emphasis was placed on informal work and although no experiment was carried out the Director believed that harmonious development could just as well be obtained through informal as formal work. Tournaments and point contests were held at different times during the year to discover the best basketball teams and the best athletes. The locations of our public gymnasiums are:

East 54th Street near First Avenue.
West 28th Street near Ninth Avenue.

West 59th Street near Tenth Avenue.
Carmine Street near Clarkson Street.
Rutger Place near Jefferson Street
Cherry and Oliver Streets.
134th Street near Lenox Avenue.
Hamilton Fish—Houston and Pitt Streets.
John Jay—77th Street and East River.

PLAYGROUND TOURNAMENTS AND CONTESTS

BASEBALL

Baseball, our national game, was more popular than ever before with the boys of the park playgrounds. Each playground organized its own baseball league and league games were held every afternoon at three o'clock. Club organization was necessary and emphasis was placed on loyalty to the team and playground. A loyal following was always found cheering their team to victory. A Round Robin Inter-playground Baseball Tournament was also organized for boys 5' 2" in height. Hundreds of children often travelled with their team and evidence of friendly rivalry and good sportsmanship was always apparent. The boys were taught to fight hard to the end of each game and many victories were won in the 9th inning. QUEENSBORO won the title of Manhattan Champions with JASPER OVAL second and HAMILTON FISH third.

BASKETBALL.

The skill and accuracy required in Basketball appeals not only to the large boy but also to the small boy. Wherever possible Basketball Leagues were organized within the playground and a definite schedule was posted. An inter-playground tournament was organized for boys 5' 2" in height.

HANDBALL.

Handball is becoming more and more popular every day. Here the emphasis is placed on intra-playground tournaments in as much as it was impossible to arrange an inter-playground tournament because many of the playgrounds were not equipped with handball courts. Wherever possible, however, the large stone pavilions in our smaller parks were used for this purpose.

It is hoped that during the coming year it will be possible to have additional courts constructed in all of our playgrounds.

MARBLE-SHOOTING CONTESTS

Marble-shooting reached the peak of its popularity with the boys of the park playgrounds last year. Contests were held weekly in all park playgrounds and a championship was planned to bring out the best marble-shooters in New York City. This took place at City Hall Park and Mayor James J. Walker was an interested spectator. After the contest, Mayor Walker congratulated the winner, Edward Martin of John Jay Park Playground.

TENNIS.

Having issued 8,156 tennis permits at \$1.00 per permit little need be said of the popularity of the 28 tennis courts at Central Park and 16 at Fort Washington Park. The attendance records showed an average attendance of 1,500 on Saturdays and Sundays at Central Park and an average of 800 at Fort Washington Park. None of the players were permitted to play longer than two hours, so great was the demand. Tournaments were arranged for men, women, boys and girls, singles and doubles and the entries totaled about 1,500. The winners of the tournament were as follows:

CENTRAL PARK TENNIS CHAMPIONSHIP.

July, August and September, 1927.

MEN—SENIOR SINGLES

William T. Smith.
Mike Saunders.
Julius Daniels.

WOMEN—SENIOR SINGLES

Norma Taubele.
Helen Germain.
Maude Remy.

MEN—SENIOR DOUBLES

Julius Daniels.
J Gleiber.
Ralph Newman
Frank d'Aulby
Eric Brown
Donald McFadden.

WOMEN—SENIOR DOUBLES

Maude Remy.
Matilda Jacobs.
Helen Germain.
Ann Radin.
Betty Fish.
Lillian Lind.

MEN—JUNIOR SINGLES

Raymond Stone.
Alexander Jablow.
Reggin Wier.

WOMEN—JUNIOR SINGLES

Ann Radin.
Florence Mathanson.
Ann Greenspan.

MEN—JUNIOR DOUBLES

Jack Tavelin
Sam Friedman.
Herbert Beeley.
Raymond Stone.
A. Leavitt.
S. Blauner.

BOYS—SINGLES

Albert Levitt.
Milton Greene.
M. Robert.

INTERBOROUGH—CITY TENNIS CHAMPIONSHIPS—CENTRAL PARK.

Saturday and Sunday, October 15th and 16th.

MEN—SENIOR SINGLES

William T. Smith, Manhattan.
Maurice Perlow, Bronx.

MEN—SENIOR DOUBLES

Maurice Perlow and Gene Berger,
Bronx.
Jack Bleiber, Brooklyn; Sol.
Kaufman, Manhattan.

CHALLENGE GAMES.

Bronx and Manhattan.

MEN—JUNIOR SINGLES

Raymond Stone, Manhattan.
J. Battari, Bronx.

WOMEN—SENIOR SINGLES

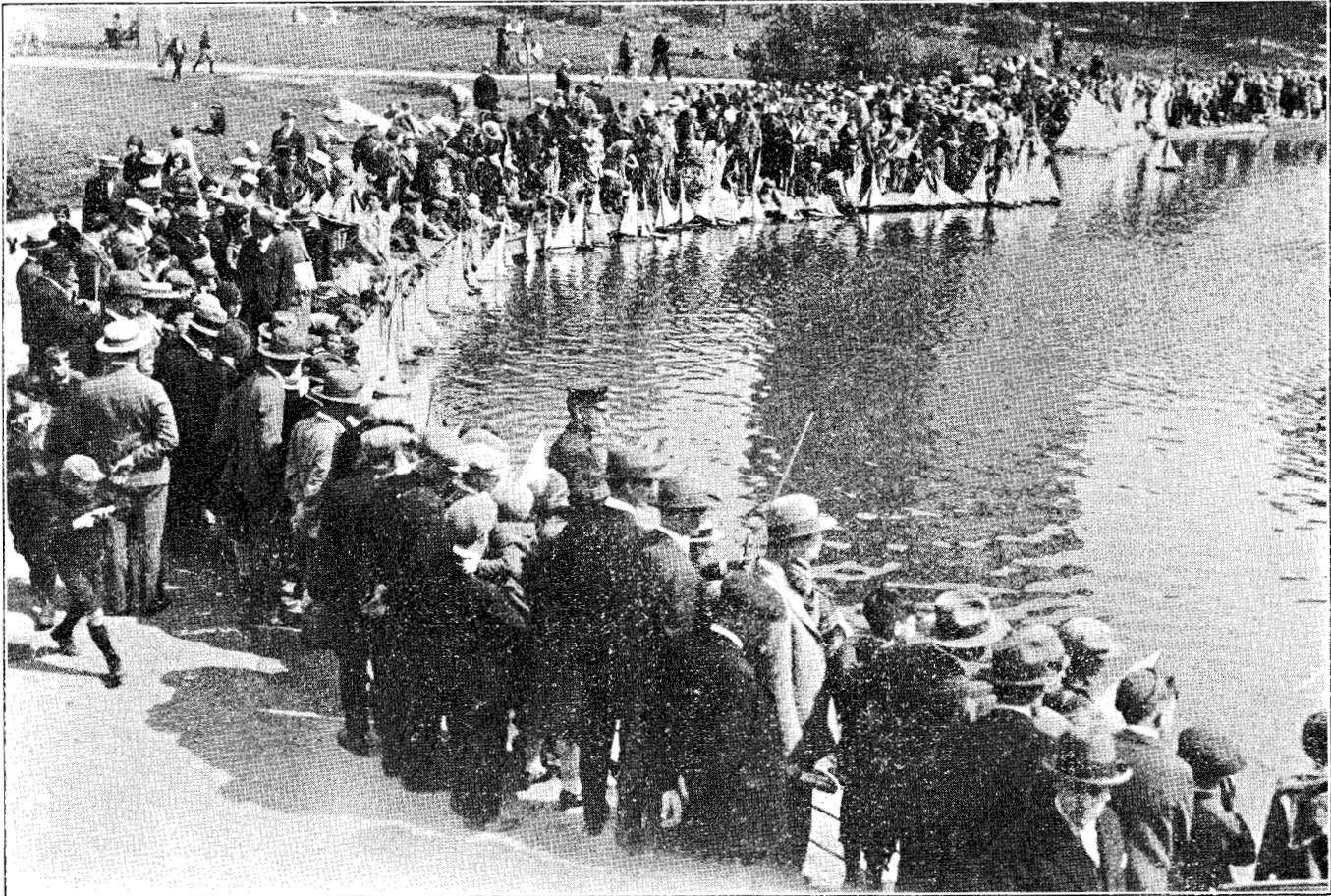
Norma Taubele, Manhattan.
J. Plato, Bronx.

ATHLETIC MEETS.

Athletic meets were held regularly in all park playgrounds. Points were given for first, second and third places and these were tallied at the end of the season to discover the best athletes of the playground. The program of a weekly athletic meet included such events as potato races, relay races, 50 yard dash, obstacle races, flag races, sack races, roller-skating contests, running broad jump, high jump, etc.

MINIATURE SAIL BOAT CONTEST.

A Children's Miniature Sail Boat Contest was held at the Conservatory Lake, 72nd Street, Central Park, in May. The boy and girl from Park Avenue rubbed elbows with the boy and



CHILDREN'S SAILBOAT CONTEST
Conservatory Lake, Central Park, May, 1927.

girl from the East Side. Equal excitement made them brothers and sisters as they hopped around praying that their boats would catch an advantageous wind or avoid collision. Walter Borner, 8, of 143 East 58th Street, in his jubilation at the good progress of his ship, taller than he, fell into the lake. He was rescued in short order with nothing more serious than a wetting, and his sail boat won second place in its class. Prizes consisted of model sailboats, silver cups and silver and bronze medals were distributed by Supreme Court Justice Mahoney. The winners, who included two little girls, were:

15-inch Sailboats—

1. Eileen Ayre, 8, 49 East 78th Street.
2. Bertha Koukol, 5, 225 25th Street, Jackson Heights.
3. Billy Wood, 12, 1388 Lexington Avenue.

25-inch Sailboats—

1. George Stickler, 13, 500 West End Avenue.
2. William J. Jolly, 13, 266 West 115th Street.
3. Julian Trevers, 2, 995 Fifth Avenue.

40-inch Sailboats—

1. James Mackey, 6, 231 East 74th Street.
2. Kenneth Grumwald, 12, 1315 Merriman Avenue, Bronx.
3. Eugene Solomon, 7, 1800 Seventh Avenue.

55-inch Sailboats—

1. Alexander Barker, 8, 120 East 79th Street.
3. Gerald Donnolly, 12, Hastings-on-Hudson, N. Y.

70-inch Class—

1. Ernest Amitim, 15, 1042 Lexington Avenue.
2. Walter Borner, 8, 143 East 58th Street.
3. Frank Hastava, 11, 409 East 70th Street.

Home-made Boats—

1. Robert Nage, 14, 319 West 42d Street.
2. Billy Morse, 13, 740 West End Avenue.

Motorboat Handicap—

1. David Kirkbridge, 840 Park Avenue.
2. Richard Rost, 1447 Third Avenue.
3. Arthur Weaver, 2 Caldwell Avenue, Maspeth, L. I.

CANOE REGATTA.

Another innovation conducted by the Bureau of Recreation was the Canoe Regatta conducted at the 72nd Street Lake. This Regatta was witnessed by approximately 5,000 persons and there would have been a larger attendance if the weather had been better.

Among the clubs competing were the Washington Canoe Club, Island Canoe Club, Riverside Canoe Association, Yonkers

Canoe Club, Philadelphia Canoe Club, Pendleton Canoe Club. The point trophy was donated by Sir Thomas Lipton and was won by the Washington Canoe Club.

MINIATURE AIRPLANE CONTEST.

A miniature airplane contest was held during July at the Sheep Meadow, Central Park, and was attended by approximately 2,000 persons. As a result of the interest and enthusiasm displayed, the Playground Directors decided to conduct miniature airplane contests in all of our park playgrounds.

HARMONICA CONTEST.

Realizing the value of music and the fact that our playgrounds are not equipped with pianos, at a conference of our Playground Directors it was decided to conduct an Annual Harmonica Contest. The Harmonica is a very cheap musical instrument. As a result of a survey it was found that many of the boys already had harmonicas and were quite expert in playing them.

Harmonicas were donated by the Hohner Company and their cooperation was requested in sponsoring the contest. They were very glad to cooperate in donating musical instruments to the winners of the contest.

The final contest was held on the Band Stand of The Mall, Central Park, in which approximately 250 children competed. Prominent musicians acted as Judges and there was an attendance of approximately 3,000 persons.

CHILDREN'S DAY—JUNE 18TH.

After many conferences with persons interested in recreation it was decided that June 18th should be designated as Children's Day and that an effort should be made to focus attention on the needs of the children and the play facilities provided by the City of New York. The various business concerns throughout the country cooperated to make this Children's Day a success and donated prizes to the winners from the respective playgrounds.

At Five Points Park Playground a very successful celebration was held and a miniature "Spirit of St. Louis" with a 13 month old girl in the cockpit started a juvenile riot of enthusiasm. The baby in the plan was Rose Dibiasi of 375 Broome Street and she won the first prize cup for the best decorated float in the Baby Parade. There were 80 contestants. At Hamilton Fish Park Playground a Miniature Circus was conducted. The program consisted of a Parade of Animals, Freaks, Clowns, etc. The characters included a Ringmaster, Elephant, Ostrich, Wild-man, Bears, Acrobats, Mr. and Mrs. Tom Thumb, Horse, Giraffe, Siamese Twins, Tall Man, Monkey and Dancers. All costumes were designed and made by the Playground Director in charge.

Exercises were held in all of the park playgrounds of Manhattan and included folk dancing, athletic contests, games and speeches by prominent persons, together with the presentation of toys donated by the various concerns throughout the country for the children.

JULY 4TH CELEBRATION.

Independence Day was celebrated in all of our parks and playgrounds. Athletic Meets and Band Concerts were held throughout the City. The total number competing was 35,000. Seventeen hundred officials volunteered their services and every athletic club cooperated to make the affair a success. Spirited competition featured all the meets and it can safely be said that the youngsters showed as much enthusiasm and interest winning prizes as they did in the days of old, when the day was celebrated with dangerous fire-works and life and limb was in danger.

One thousand sets of prizes, three to a set, were offered in competition making three thousand individual prizes awarded for the athletes. These prizes were offered for the athletic events, folk dancing, festivals, and patriotic pageants which combined to provide the day's activities. The program of the Greater City was under the jurisdiction of the Department of Parks, Manhattan.

TWILIGHT BASEBALL LEAGUE.

Another interesting activity conducted by the Bureau of

Recreation was the Twilight Baseball League which was held during the Spring and Summer months, between the hours of 5 and 8 P. M. Teams from the business houses and mercantile organizations were permitted to compete in the Championship, in addition to neighborhood teams. The final game was played at Jasper Oval July 9th.

RIVERDALES—Thomas Jefferson Park Playground.. 6

VILLAGERS—Hudson Park Playground..... 5

SWIMMING MEET—CENTRAL PARK.

For the first time in the history of the Department of Parks a swimming meet was conducted at the large lake, 72nd Street, Central Park on July 10th. The portion of the lake used was sterilized and every sanitary precaution was taken before the meet was actually conducted.

Inspections and tests of the water were made by the Department of Health. The Daily News sponsored this swimming meet and donated all the prizes. Cooperation was also received from the various Swimming Associations and the meet was sanctioned by the Amateur Athletic Union.

HORSE SHOE PITCHING CONTEST.

Horse Shoe Pitching is becoming very popular and every day one can see young men pitching horse shoes at Jasper Oval, 136th Street and Convent Avenue. Considerable skill is displayed by the young men in this section of the City and an Annual Horse Shoe Pitching Contest is held for them.

JACKS CONTEST.

Emphasis was placed during the past summer on quiet games for children. The Playground Directors find that the children do not like to play active games on a hot summer's day but would rather play some quiet game. Accordingly, tournaments and contests were conducted in all of the quiet games, such as checkers and jacks. A special feature was made of the Jack Contest and considerable interest was shown by the girls of the respective playgrounds. It was amusing to note the skill that some of the girls showed in picking up the jacks.

At Carmansville Park Playground the mothers took a special interest in the contest and held a Jack Contest for the mothers of the neighborhood. The rules of the contest and the winners of the final contest follow:

RULES FOR JACK CONTEST.

1. Games to be played with 10 jacks and a medium-size rubber ball.
2. One scramble. Must be made with one hand.
3. Touch jack is a miss.
4. Top jack is a miss.
5. One jack on top of two jacks is a miss.
6. Drop jack is a miss.
7. Jack left in hand after making scramble is a miss.
8. Ball hitting jack is a miss.
9. Ball must be caught in one hand.
10. Ball may not be caught against part of person.

Josephine Landt, 13, 90 East End Avenue, representing Carl Schurz Park Playground, won the championship in the finals played with the best players of Manhattan, Brooklyn and the Bronx. Second place went to Rose Weiner, 13, 416 East 3rd Street, representing East Third Recreation Pier and third place went to Veronica Tarti, 13, 126 Bush Street, representing Red Hook Park Playground, Brooklyn.

ROLLER-SKATING CONTEST.

Owing to the number of street accidents as a result of roller-skating, an effort was made to interest the boys and girls and get them to roller skate in our public parks and playgrounds.

Roller-skating was permitted on the Mall, Central Park and the final championships were held during October. The winners from the respective playgrounds competed in these championships and the five Boroughs were represented. Elizabeth Lyna, Gravesend Park Playground, Brooklyn, the smallest contestant, won the 100 yard race for girls, leading from start to finish. The 220 yard race for girls was the closest race of the day, Helen Hendry from St. Catherine's Park Playground, Manhattan, won in the last few feet. In the boys 120 yard race, the first three were so close that the judges had a hard time in picking John Landicena, Lindley Park, Brooklyn, as the winner. To the winners of first, second and third places in each event were

awarded solid gold, sterling silver and bronze medals donated by the "World" and a pair of Winslow steel roller skates given by the Samuel Winslow Skate Company.

PUSHMOBILE AND SCOOTER CONTEST.

Another Fall activity was the Pushmobile and Scooter Contest held in all of our park playgrounds. An effort was made to have the children make their own scooters and pushmobiles, and special prizes were given to the winners in the home made type race. The "World" also cooperated with the Bureau of Recreation in conducting these events, and a very successful final contest was held on The Mall, Central Park, during October. Music was provided for this occasion.

SOCCER FOOTBALL.

Every season has its particular sports and Soccer Tournaments are conducted in all of our park playgrounds where there are sufficient facilities during the months of October and November.

Permission is also given to the Public Schools Athletic League to conduct their Soccer Tournament in some of our Park Playgrounds.

SILVER SKATES DERBY AND METROPOLITAN SKATING CHAMPIONSHIPS.

For the past three years the "Daily News" has requested the Bureau of Recreation to conduct the Silver Skates Derby. This Department in turn received cooperation from the Middle Atlantic Skating Association, New York Skating Club, Winter Sports Club, as a result of which leading speed skaters of the country participated in the Silver Skates Derby.

"The New York Times" stated that approximately 25,000 persons attended the Carnival. Music was provided and a good afternoon's entertainment was given to those present. Exhibitions of Figure skating, pair skating, and waltzing, together with barrel jumping were given.

Owing to the fact that we did not have sufficient cold weather we were unable to conduct the Metropolitan Skating

Championships. However, this is one of our Annual Winter Sports Carnivals and always attracts considerable interest and attention, in view of the fact that the Championship for the Metropolitan District is at stake.

MOTION PICTURES.

Realizing the value of motion pictures as a source of education as well as recreation, the Bureau of Recreation has cooperated with a number of agencies engaged in social welfare work in many of our small parks and recreation piers.

Permits were issued to the Hudson Guild, 436 West 27th Street, the Bureau of Health Education, Department of Health, 505 Pearl Street and the New York Edison Company (Educational Extension Bureau), 393 Seventh Avenue, to conduct these pictures which were shown throughout the Borough of Manhattan and supervised by the Field Staff of this Bureau.

In many instances band concerts were scheduled in connection with the exhibitions of motion pictures and furnished good wholesome and educational entertainment to thousands of spectators, young and old, throughout the summer season.

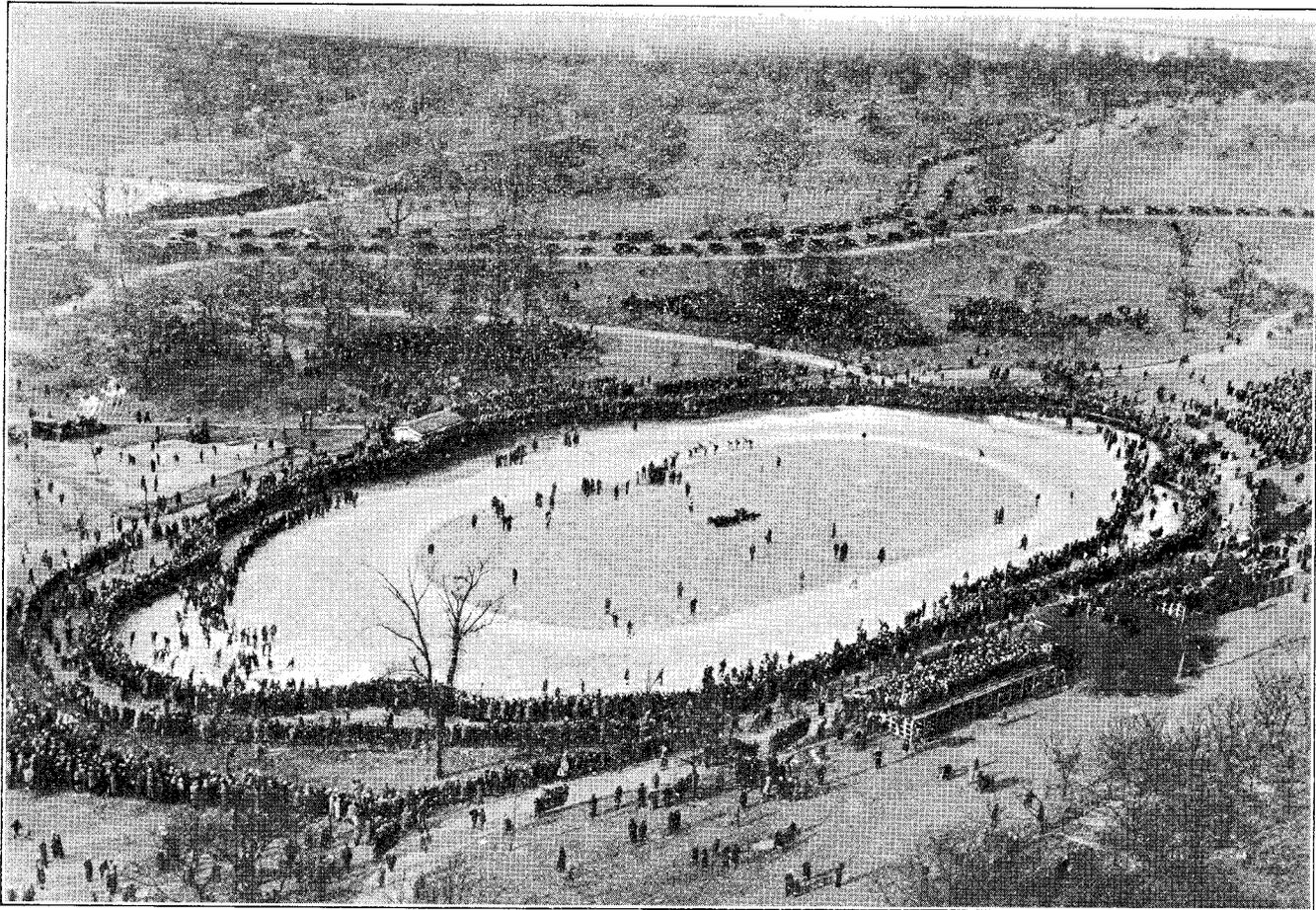
COOPERATION WITH OUTSIDE AGENCIES.

Some of the organizations that this Department has been able to assist and cooperate with are:

Public Schools Athletic League, Metropolitan Skating Association, Amateur Athletic Union, various preparatory and high schools, United Neighborhood Houses, Inc., City Recreation Committee, Community Councils, Woman's City Club, Russell Sage Foundation, Playground and Recreation Association of America, Parks and Playgrounds Association, Public, Private and Parochial Schools, Boy's Federation, Boy Scouts and the leading newspapers and publications throughout the City together with the Mayor's Committee on Municipal Athletic Activities.

CHILDREN'S HOLIDAY FESTIVAL.

Owing to the number of poor children in New York City and the fact that the Playground Directors report each year that there are any number of cases that are not reached by any



A WINTER SPORTS CARNIVAL
Conservatory Lake, Central Park, January, 1927.

charitable agency or settlement, the Children's Holiday Festival was planned to be held at the New Palm Garden on December 28th. An entertainment was given by the talented children of the respective park playgrounds.

The Philanthropic merchants throughout the City donated sufficient fruit, candy and toys so that each child was well provided. The program of this Festival which was attended by 1500 children follows:

ALL CHILDREN FROM THE PLAYGROUNDS ASSEMBLE.

Selections "Christmas Carols"

QUEEN OF HEARTS

"The Queen of Hearts, she made some tarts
 All on a summer's day;
 The Knave of Hearts, he stole those tarts,
 And took them all away.
 The King of Hearts called for those tarts
 And best the Knave full sore;
 The Knave of Hearts brought back those tarts
 And vowed he'd steal no more."

Scene One Royal Kitchen
 Scene Two Royal Banquet Hall
 Scene Three The Forest of the King
 Scene Four Audience Room—Castle

CHARACTERS

Queen of Hearts Mount Morris Park Playground
 King of Hearts Mount Morris Park Playground
 Knave of Hearts Hamilton Place Park Playground
 Maid of Hearts Mount Morris Park Playground
 Captain of the Guards Mount Morris Park Playground
 The King's Guards Mount Morris Park Playground
 The Heralds Hamilton Place Park Playground
 The Hunter Hamilton Place Park Playground

DANCES

The Minuet Five Points Park Playground
 Rondo Waltz Hamilton Fish Park Playground

The Fairies Yorkville, Carmansville, DeWitt Clinton
and Hamilton Place Park Playgrounds
Bow and Arrow Hamilton Fish Park Playground

CIRCUS

Parade Animals, Freaks, Clowns, etc

INTRODUCTION OF CHARACTERS:

(Children of Hamilton Place Park Playground)

Mr. and Mrs. Tom Thumb	Ringmaster
Siamese Twins	Elephant
Giraffe	Ostrich
Horse	Wild-Man
Clowns	Tall Man
Bears	Monkey Dancers
Acrobats	

Acrobats Hamilton Fish, Hamilton Place and
Carmansville Park Playgrounds
Glog Dance Carmansville Park Playground
Toe Dance DeWitt Clinton Park Playground
Song and Dance Five Points Park Playgrounds
Toe Ballet Hamilton Fish, DeWitt Clinton and
Mount Morris Park Playgrounds
Dance St. Gabriel's Park Playground
Song Five Points Park Playground
Song and Dance St. Catherine's Park Playground
The Flappers DeWitt Clinton, Mount Morris and
Hamilton Fish Park Playgrounds
Song Carmansville Park Playground

Distribution of Candy, Toys, Fruit and Crackers—*By Santa Claus.*

RETURN OF CHILDREN TO PLAYGROUNDS.

RECREATIONAL PROGRAM.

ATHLETICS (Boys and Girls)	LEAGUE AND TOURNAMENTS
Active Games	Baseball (small boys)
Gymnastic Games	Baseball (men)
Swimming	Basketball
Skating	Volley Ball
Track and Field	Hand Ball
Boxing	Tennis
Wrestling	Horse-shoe Pitching
Coasting	Marble shooting
Folk Dancing	Jack contests
Esthetic Dancing	Soccer
National Dancing.	Checkers.

QUIET GAMES AND ACTIVITIES

- Checkers
- Dominoes
- Parchesi
- Bagatelle Board
- Story Telling
- Handicraft
- Kindergarten activities
- Swings
- See-saws
- Slides.

CLUBS

- Athletic
- Civic
- Camp-fire
- Community Scouts
- Dramatic
- Glee
- Handicraft
- Junior Police
- Military
- Orchestral
- Philanthropic
- Social
- Mothers' Clubs.

FESTIVALS AND SPECIAL OCCASIONS

- Concerts
- Motion Pictures
- Pageants
- Exhibitions of athletic skill
- Festivals
- Parties
- Bazaars
- May Day on the Green
- Get-together Parties for Municipal Employees.

ENTERTAINMENTS

- Ice Skating Carnivals
- Roller Skating Carnivals
- Athletic Meets
- July 4th Celebrations
- Christmas Festivals
- Baby Parades
- Safety Day Exercises
- Open Meetings
- Water Carnivals.

EQUIPMENT.

- PLAYGROUNDS—Swings, Slides, See-saws, Jungle-Gym, Balancing Beam, Hammocks, Blocks and small units of play equipment.
- GYMNASIUMS—All units of light and heavy apparatus.

RECOMMENDATION FOR IMPROVEMENTS AND DEVELOPMENT OF PLOTS (EXISTING PLAYGROUNDS) FOR RECREATIONAL PURPOSES.

COLUMBIA PARK PLAYGROUND—Baxter and Worth Streets—
Field House (approximately) \$1,200

JAY HOOD WRIGHT PARK PLAYGROUND—173d Street and Ft. Washington Avenue.

One large lawn for small children.

Proposed equipment—

3 slides	\$240	
2 see-saws	120	
3 baby swings	240	
1 large swing frame	90	
Development of plot—grading, etc.	1,000	
Water connections—drinking fountain	500	
		\$2,190
		\$2,190

MT. MORRIS PARK PLAYGROUND—120th Street and Madison Avenue—

Development of East Side of park for recreational purposes \$60,000
 (This amount to be provided in the event that the Corporate Stock request of \$100,000 (item No. 20) \$60,000 for development of playground and \$40,000 for restoration of park proper, is denied by the Board of Estimate and Apportionment (request now pending.)

WATERGATE PARK PLAYGROUND—(Annunciation Park)—134th

Street and Amsterdam Avenue (property of Department of Water Supply, Gas and Electricity)—
 Building of Retaining Wall, Grading and Water connections. \$15,000

CARL SCHURZ PARK PLAYGROUND—86th Street and East River—

Enlarging playground
 Enlarge, regrade and drain playground; build pavilion and retaining wall and erect fencing around adjoining plots.
 (This amount to be provided in the event that the Corporation Stock request of \$23,000 (Item No. 5) for the above work is denied by the Board of Estimate and Apportionment (request now pending)..... \$23,000

MARKET AND HENRY STREETS—

To be developed as playground for small children.		
Shrubbery	\$200	
Benches and Kindergarten Swings	300	
Fence	800	
Water connections	200	
		\$1,500
		\$1,500

ST. NICHOLAS TERRACE at 130th Street—

To be developed as playground (at present not developed as playground) \$40,000

HUDSON PARK PLAYGROUND—Clarkson and Hudson Streets—

Construction of a swimming pool enclosed in building, the roof of which should be used for playground purposes.
 (Request was made by the Borough President's Department but was denied.)
 This building would be located on Park Property and should be under the jurisdiction of the Bureau of Recreation, Department of Parks.
 Estimated cost \$50,000

THOMAS JEFFERSON PARK PLAYGROUND—114th Street and East River—	
Wading Pool to be located within girl's playground (same type as now at Tompkins Square)	10,000
HAMILTON FISH PARK PLAYGROUND—Houston and Pitt Streets—	
Wading Pool	10,000
DEWITT CLINTON PARK PLAYGROUND—54th Street and 11th Avenue	
Small wading pool with showers within children's playground	3,000
Repair of pergola building to be used in conjunction with Bureau of School Farms	30,000
ST. NICHOLAS PARK at 140th Street—	
Small wading pool (same as type at Cherry and Market Streets)	1,000
HAMILTON PLACE—140th Street and Hamilton Place—	
Handball Court	300
SEWARD PARK PLAYGROUND—Canal and Jefferson Streets—	
Wading Pool (same as type recommended for DeWitt Clinton)	3,000
YORKVILLE PARK PLAYGROUND—101st Street and Second Avenue—	
Small wading pool (same as type at Cherry and Market Streets)	1,000
129TH STREET RECREATION PIER—North River—	
Enclose pier with portable glass partitions so that the same can be used during the winter months for indoor gymnasium. Also installation of heating plant	15,000
COLONIAL PARK PLAYGROUND—150th Street and Bradhurst Avenue	
To be enlarged and provision made for a girls' and boys' playground with shelter house	30,000
FT. WASHINGTON POINT—173d Street and North River—	
Outdoor swimming pool with lockers and showers.....	50,000
TENNIS COURTS at 173d Street and Ft. Washington Park—	
(12) additional tennis courts	6,000
CORLEARS HOOK—Corlears Hook and Jackson Street—	
Level and grade baseball diamond.....	2,000
TOMPKINS SQUARE—10th Street and Avenue A—	
Playground for boys to be enlarged and running track provided together with combination Comfort Station, Band Stand and Field House	45,000

ADMINISTRATION

SUPERVISOR OF RECREATION

1

ASSISTANT SUPERVISOR—Male
1

ASSISTANT SUPERVISOR—Female
1

FIELD STAFF—Male
3

FIELD STAFF—Female
2

PLAYGROUND DIRECTOR—Male
20

PLAYGROUND DIRECTOR—Female
24

Temporary—Summer Season
PLAYGROUND DIRECTOR—Male
59

Temporary—Summer Season
PLAYGROUND DIRECTOR—Female
72

FINANCIAL STATEMENT

Salaries—Permanent Force	\$78,903.00
Salaries—Temporary Force	41,760.00
Recreational Equipment	10,000.00
Recreational Supplies	500.00
Medical Supplies	125.00
Total Appropriation	\$131,288.00

PARK PLAYGROUNDS, GYMNASIUMS AND RECREATION PIERS LOCATIONS—AREA AND ATTENDANCE DURING JANUARY, JULY AND AUGUST—1927

Playgrounds	Acreage	January	July	August
Battery—State Street and Battery Place.....	0.850	.....	14,450	13,150
*Carl Schurz—86th Street and East River	0.250	2,465	25,625	24,615
*Carmansville—152d St. and Amsterdam Ave.	0.142	5,395	24,000	22,950
*Chelsea—28th Street and 9th Avenue.....	3.103	8,330	57,750	58,650
*Coleman—Cherry and Market Streets	0.392	3,390	41,700	34,200
*Colonial—150th Street and Bradhurst Avenue..	1.11	4,425	9,020	10,300
*Columbus—Baxter and Worth Streets	2.568	.....	10,175	13,275
*Corlears Hook—Corlears Hook and Jackson Street	0.500	5,550	12,175	18,275
*DeWitt Clinton—54th Street and 11th Avenue	8.455	4,235	24,025	24,400
*Downing Street—Near Bleecker Street	0.173	4,200	15,405	17,250
*East 17th Street—Near East Fiver.....	1.037	1,925	11,250	12,600
Ft. Washington Pt.—175th Street and North River	2.	.....	2,555	6,185
*Hamilton Fish—Houston and Pitt Streets.....	3.160	15,975	61,470	57,400
*Hamilton Place—140th St. and Hamilton Pl.	0.811	2,660	10,840	9,300
*Heckscher—64th Street and Central Park.....	7.	3,585	391,000	306,300
Highbright—169th Street and Amsterdam Ave.	..1.000	.....	9,040	11,330

Playgrounds	Acreage	January	July	August
Highbridge—177 Street and Amsterdam Ave.	0.500	.....	9,695	9,860
*Hudson—Clarkson and Hudson Streets	1.665	10,310	56,425	52,700
*Jasper Oval—137th Street and Convent Avenue	4.379	2,050	7,575	6,275
Isham—Isham Street and Seaman Avenue.....	.333	.....	10,410	9,115
*John Jay—77th Street and East River.....	3.009	5,665	16,225	17,500
Morningside—114th St. and Morningside Park	0.250	.....	13,885	14,575
Morningside—123d St. and Morningside Park	0.250	.....	7,325	7,050
Mt. Morris—120th Street and Madison Avenue	1.10	.....	16,950	15,830
Queensboro—59th Street and East River.....	1,239	.....	13,475	12,680
Riverside—75th Street and Riverside Park.....	.2	.....	6,945	8,320
Riverside—96th Street and Riverside Park.....	1.	.....	21,600	17,500
Reservoir Oval—175th St. and Amsterdam Ave.	.850	.....	.....	.....
Rutger Slip—At South Street	0.453	.....	2,355	2,520
*St. Catherine's—67th Street and 1st Avenue....	0.142	9,130	23,595	21,980
*St. Gabriel's—35th Street and 2d Avenue	2.924	8,600	18,600	17,420
*Seward—Canal and Jefferson Streets	3.301	9,475	63,550	51,000
Seaman Avenue and Isham Street (Ball Field)	1.50	.....	5,575	5,275
*Thos. Jefferson—114th Street and East River	4.120	9,850	33,126	31,770
*Tompkins Square—10th Street and Avenue A	1.250	32,550	52,475	165,550
*Watergate—135th Street and Convent Avenue	1.670	2,440	7,815	8,075
*West 59th Street—Near 10th Avenue	0.579	2,985	16,785	18,225
*Yorkville—101st Street near 2d Avenue.....	0.846	8,850	19,150	17,375
189th St. and Amsterdam Avenue .....	.25	.....	.....	2,600
Tennis Courts—93d Street and Central Park (28 courts) .....	.....	.....	37,425	24,450
Tennis Courts—173d Street and Ft. Washington Park (16 courts)	2.7	.....	8,935	8,625
Cherry Hill—72d Street, Central Park (May parties and Special activities) .....	.....	.....	700	1,000
East Green—72d Street off 5th Avenue.....	5.23	.....	12,475	4,585
Sheep Meadow—66th Street off West Drive	21.108	.....	13,670	11,785
Gilhooley Lawn—83d Street off Central Park West	3.3	.....	700	690
Circle Lawn—106th Street Central Park	1.102	.....	600	450
North Meadow—100th Street and West Drive	30.459	.....	12,915	5,000

Gymnasiums	January	July	August
*Carmine Street—Near Varick Street	2,425	1,650	2,660
*Cherry and Oliver Street	2,205	5,665	4,300
*East 54th Street near 1st Avenue	3,500	5,085	5,240
*Rutger Place near Jefferson Street	7,860	2,355	2,520
*West 28th Street near 9th Avenue	4,575	1,115	3,055
*134th Street near Lenox Avenue	3,365	1,500	1,620
*Hamilton Fish—Houston and Pitt Streets	6,740	.....	.....
*West 59th Street near 10th Avenue	3,230	.....	.....
*John Jay—77th Street and East River	1,115	.....	.....

Recreation Piers

Barrow Street—North River .....	.....	3,930	2,750
East 3d Street—East River .....	.....	12,620	13,950
West 129th Street—North River .....	.....	9,160	7,525
Market Street—East River (under course of recon- struction) .....	.....	.....	.....

* Designates centers open the year 'round.

BUREAU OF MAINTENANCE.

COMFORT STATIONS.

The Department maintains forty-eight comfort stations for men, thirty-seven single tour and eleven double tour.

There are forty-four comfort stations for women, thirty single tour and fourteen double tour.

The Department maintains four bath houses for both men and women.

NEW COMFORT STATIONS.

During the year 1927, a comfort station for men and women was opened in Carl Schurz Park and a comfort station for men and women is under construction in Washington Square Park.

BUREAU OF MAINTENANCE AND OPERATION.

Laboring Force:

- 1 General Foreman.
- 3 District Foremen.
- 21 Park Foremen.
- 343 Laborers all year 'round (365 summer months).
- 4 Stablemen.
- 1 Supervisor of Attendants (Female).
- 68 Attendants (Female).
- 1 Caretaker (Female).
- 1 Caretaker (Male).
- 8 Watchmen.
- 20 Drivers.
- 19 Auto Enginemen.
- 1 Foreman of Greenhouses.
- 16 Gardeners, assigned to Greenhouses.
- 25 Gardeners, Forestry Bureau.
- 22 Climbers and Pruners.
- 1 Foreman of Mechanics.
- 10 Keepers.
- 69 Mechanics.
- 1 Supervisor of Attendants (Male).
- 21 Attendants (Male).

CARE OF LAWNS.

Due to the poor soil conditions in Manhattan park areas and the continuously crowded use of all park territory, the proper maintenance of lawns is one of the most difficult problems in the administration of the parks of New York. Carelessness and

lack of respect for public property on the part of many persons using the parks, as well as an insufficient police force, caused our lawns to deteriorate to such an extent that a thorough reseeded became necessary throughout all the parks in the Borough of Manhattan.

The areas were spread with stable manure, which was plowed under in the autumn and seeded with corn, peas and rye, which in turn were plowed under in the spring. The ground was then harrowed and raked, lime used where required and seed sown.

To give many of the newly seeded areas an opportunity to become thoroughly established, temporary six-foot wire mesh fences were erected.

All the small lawn areas where the grass had become weak and deteriorated were spaded and seeded. Lawns in comparatively good or fair condition were maintained and improved by putting on top dressing and well rotted stable manure in the early winter, or were treated with commercial fertilizer in the spring. The manure was gathered from the department stables at 97th Street, Central Park; a large riding academy, and from armories in the vicinity of Central Park.

During the year 1927, the Department purchased 1,232 tons of fresh manure and 4,792 tons of rotted manure which were distributed on the lawns and plantations throughout the parks in the Borough of Manhattan.

Forty-five thousand square feet of sod were laid along the borders of the drives and lawns in Central Park, Riverside Park, Bryant Park, Bowling Green Park, Seventh Avenue Plots, and over many other areas.

DRIVES AND BRIDLE PATHS.

The drives and bridle paths in Central Park were spiked with a road roller and resurfaced with a layer of fresh gravel. At many points where the constant addition of new gravel had raised the grade of the path, the surplus gravel was removed and the surface brought to proper grade. These drives have been kept in as good condition as was possible with the small amount of money available for laborers and repairs.

CONSERVATORIES, CENTRAL PARK.

Many interesting specimens of plants have been added to the collection in the Central Park Conservatories. The greenhouses are open daily from 10.00 a. m. to 4.00 p. m. Several floral exhibitions were held and were largely attended.

The exhibition of Easter flowers in the spring and of chrysanthemums and orchids in the fall afforded much pleasure.

The Park Department had exhibits at the Flower Show at the Grand Central Palace for which awards were received.

Flower beds were maintained in City Hall, Madison Square, Stuyvesant Square, Riverside and Mount Morris Parks. The largest of these displays were in City Hall Park and at the Grand Army Plaza, 59th Street and Fifth Avenue.

SKATING.

Skate houses were erected in Central Park, at the large lake, 72nd Street, and at the Harlem Mere, 110th Street, for use during the season of 1927 and 1928.

Platforms, stands and poles were erected for the Championship Canoe Race held June 19, 1927.

Diving platforms were also erected for use at the Water Carnival held at the 72nd Street Lake, on July 6, 1927.

CONCERTS.

During the concert season, temporary bandstands and seats, and the necessary electric lighting were installed in parks that are not provided with permanent stands.

A large number of festivals and celebrations were held in the parks during the year which required extra work for the Labor and Mechanical Forces.

GARAGE.

The equipment for maintaining the work throughout the

Department of Parks in the Borough of Manhattan consists of:

- 1 ¾-Ton Truck.
- 1 1-Ton Truck.
- 4 1½-Ton Trucks.
- 3 2-Ton Trucks.
- 2 3-Ton Trucks.
- 2 Ford Bus Bodies.

MECHANICAL FORCE.

The mechanical force of the department was employed largely in small jobbing repairs necessary to keep the buildings, structures and equipment in good condition. Work orders were issued covering the work of this office.

Playground structures and apparatus were kept in condition; for use throughout the season and new supplies of jumping rope, swings, etc., were made at the Department work shop for use in the playgrounds.

BUILDING REPAIRS.

Overhauling, repairing and painting interior and exterior of menagerie buildings, Central Park.

Dairy Restaurant—exterior painted.

Carousel—repaired roof and painted same.

Casino—women's comfort station, painted interior.

Mineral Springs Cottage—painted Interior.

79th St. Yard—built garage for storing spraying machine.

Conservatory Lake Cottage—women's comfort station, painted interior and exterior.

Tompkins Sq. Park Shelter House—painted interior.

Shepherds Quarters—repaired and painted.

Jumel Mansion—repaired and painted exterior.

Mount Morris Park—women's comfort station, repaired and interior painted.

Carl Schurz Park—men's comfort station repaired and interior painted.

West 59th Street Gymnasium—interior repaired and painted.

Seward Park School Farm—painted interior and exterior.

Planting of Allen Street plots—blue print furnished by the Borough President's office, four drinking fountains erected.

Necessary plumbing repairs to all comfort stations and baths.

Repairs to stoves, stovepipes, boilers and all heating apparatus.

Repairs to cement drinking fountains as required throughout the various parks.

New rustic benches were purchased and placed at 59th Street and 6th Avenue entrances.

New cement incinerators for burning papers were purchased and placed in Central Park.

New wire incinerators for burning papers were purchased.

In addition to the above work orders, there are a number of standing orders which take care of all work in certain sections such as Park Avenue Plots, Seventh Avenue Plots, Broadway Plots, etc.

FENCES.

Iron fences around the Broadway plots, from 60th to 122nd streets were repaired.

Park Avenue Plots, 34th to 40th streets, 59th to 96th streets. Seventh Avenue Plots from 110th to 153rd streets required the daily attention of department iron workers, as these fences are constantly being damaged by automobiles and horse drawn vehicles.

Iron rail and picket fences were erected and painted in various parks.

Repairs made to all bridges in Central Park.

97th Street stable—general cleaning and kalsomining.

Isham Park Greenhouses—interior and exterior repaired and painted.

Repairs were made to water supply lines and new lines laid where required throughout the parks.

RECREATION PIERS.

The department maintains the following recreation piers during the summer for a period of seventy days: Barrow Street Pier, East Third Street Pier and West 129th Street Pier, for which the following force is necessary:

12 Male Attendants.
6 Female Attendants.
1 Foreman.

With our limited laboring force we have to maintain 97,031 acres of lawns, cut grass, etc., clean comfort stations, keep in repair tools, shelter houses, gymnasium buildings, keep bridle paths in condition for daily use and erect the swings in playgrounds every day.

During the year 1927 money was appropriated for the employment of 75 laborers for a period of five months for the restoration of Central Park.

Blowers or force draught systems were installed in several of our heating plants. The installation of this system showed a saving of \$9,000 during the year, owing to the fact that the heating plants were operated by using Buckwheat Coal.

This installation was made in the following parks:

Carl Schurz Park.	Thomas Jefferson Park.	Shops.
DeWitt Clinton Park.	Hamilton Fish Park.	Garages.
Seward Park.	Central Park.	Greenhouses.

MENAGERIE.

Donations to the Central Park Menagerie during the year were as follows:

1 Canary.	1 Ring Tail Monkey.
2 Grass Parakeets.	1 Bald Head Eagle.
1 Ring Tail.	1 Macaw.
4 Canaries.	1 Green Parrot.
2 Opossoms.	1 Green Parrot.
5 Pheasants.	1 Yellow Head Parrot.
2 Macaws; 1 Engnanra.	1 Canary.

- | | |
|-----------------------|-----------------------------|
| 1 Indian Parrot. | 1 Parakeet. |
| 1 India Canary. | 1 Esquimaux Dog. |
| 1 Phytton Snake. | 1 Green Parrot. |
| 1 Bull Bison, 1 pair. | 1 Chicken Hawk. |
| 1 Ring Tail. | 2 Ring Tail Cock Pheasants. |
| 1 Gold Finch. | 1 Red Tail Hawk. |

The following animals were boarded at the Menagerie during the year 1927 :

- 1 Lion, property of Mr. Delmars.
- 2 Elephants at \$1.00 per day each.
- 1 Seal, property of Ellis Joseph.
- 1 Young Camel, property of Mr. O. W. Holton.
- 1 Chimpanzee, property of Mr. David Mayer, N. Y. Hospital.
- 3 Elephants, property of Ellis Joseph, \$1.00 per day.
- 2 Zebra, Ellis Joseph on August 24, 1927.

The following sales were made during the yaer 1927 :

1 Owl to Mr. W. K. Lesser, 103 Fulton Street N. Y. C. for....	\$10.00
2 Reindeer to Mrs. H. E. Burnett, Milford, for	100.00
1 Young Pig.....	7.00
1 Young Pig to John Jarvis, 30 Rutlandt Avenue, Kearney, N. J., for	7.00
1 Pig to Frank Voska, Farmingdale.	
1 Young Pig to Mr. Mayer.	
6 Pigs to Bon Nelson Reed.	

BUREAU OF ENGINEERING.

CENTRAL PARK.

The rock cuts in the Transverse Roads, particularly in the 97th Street Transverse Road, have been for years a menace to pedestrian and vehicular traffic through the dropping of loose fragments of rock upon the sidewalks and roadway pavements. Repeated requests for funds necessary for the correction of this condition have been unavailing until last year, when a small appropriation was granted for this purpose. Under a contract for facing the rock cuts with reinforced concrete, after the removal of loose masses to afford a safe anchorage for the concrete, the cuts in the 97th Street road have been already faced and the other roads will be similarly treated this year.

The quantities of the work performed were as follows:

- 240 cubic yards of rock removed.
- 802 cubic yards of reinforced concrete wall.

The asphalt walk pavement around the Arsenal, after more

than twenty years of service, including trucking, for which it was not intended, became broken, disintegrated, depressed and quite unserviceable. The whole area, including the narrow roadway leading in from the 65th Street Transverse Road, was excavated, new concrete curb was laid and a new asphalt pavement on a substantial concrete foundation was laid.

The quantities of work done, as shown in the final payment, were:

308.50 linear feet of concrete curb.
297.60 cubic yards of concrete foundation.
16,470.00 square feet of asphalt surface.

A section of the walk north of the Arsenal was undermined and washed out by the heavy rains during the summer. The concrete foundation and curb were restored by departmental labor and the wearing surface by an open market order. The quantities were:

20 cubic yards of concrete foundation.
60 linear feet of concrete curb.
1,008 square feet of asphalt pavement.

A new concrete drinking hydrant with the necessary water and drainage connections was installed near the West 72nd Street entrance to the park.

The Department of Water Supply, Gas and Electricity made several new connections to the Central Park water system during the year. This work was laid out by the Water Department in conference with this bureau and the execution of the work in the field was inspected by our representatives.

Drawing preliminary sketches for a new Menagerie building in Central Park.

A contract was awarded to complete the interior of the Park Board and record rooms on the third floor of the northerly wing of the Arsenal building, according to the plans and specifications prepared by this office.

Due to the poor condition of the roofs of the southern and northern wings of the Arsenal building, a contract was awarded to replace the old roofing material with new, according to the specifications prepared by the office.

At the Arsenal comfort station the heating was impaired by the poor condition of the furnace, which was beyond repair, and a contract was awarded to replace it with a new one, according to the specifications prepared by this office.

In order to install additional lighting fixtures in the bandstand at the Mall to increase the illumination, a contract was awarded for the installation of wiring and fixtures, according to the drawing and specifications.

For the purpose of reaching fixtures when necessary in the bandstand at the Mall, a collapsible ladder was necessary for which a contract was awarded to deliver such ladder according to the plans and specifications.

Drawings were prepared for the Maintenance Bureau to construct an enclosure under Sheds at 79th Street Storage Yards to house four spraying machines.

The dire need of garage space for storing six small cars in the yard of the repair shops, 86th Street Transverse Road, made it necessary to enclose two bays of the shed for which drawings and specifications were prepared.

A contract was awarded to replace the collapsed steel flue between boilers and chimney in basement with a new brick flue constructed according to drawings and specifications prepared by this office for the Greenhouses, Central Park.

Contracts were awarded to replace two defective boilers which were beyond repair, with new ones, according to specifications prepared by this office for the Greenhouses, Central Park.

RIVERSIDE PARK AND DRIVE.

A dangerous condition on Riverside Drive at 97th Street, where the roadway pavement on the westerly side of the drive showed an abrupt change in alignment at the point where the discontinued bridle path from 97th to 120th Street begins, was corrected during the year by removing the southerly end of the grass plot separating the roadway and bridle path and relaying the curb on the westerly side, to a long, sweeping curve and widening the roadway pavement to the new curb line. The construction changes in the drainage system and a considerable elevation of the westerly sidewalk.

The quantities of work done follow:

- 100 cubic yards of excavation.
- 2 receiving basins relocated.
- 393 linear feet of cement curbing.
- 70 cubic yards of concrete.
- 270 square yards of asphalt roadway pavement.
- 2,802 square feet of asphalt walk pavement.

The roadway pavement of Riverside Drive between 72nd and 129th Streets, laid in 1913 and 1914 and for many years subjected to the heavy traffic of busses, is greatly in need of repairing. Shortage of funds has prevented any but the most meager repairs at this location. During the year dangerous holes and settlements were concreted and repaved.

The following are the quantities of concrete and asphalt surface placed.

- Concrete, 34 cubic yards.
- Asphalt surface, 215.6 square yards.

The cement walk pavement around Grant's Tomb has been, for years, in great need of renewal, but until 1927 no funds were allowed to cover the cost of the work. The funds were provided and the work was completed during the year.

The following schedule shows the character and extent of the work:

- 1,019 cubic yards excavation of old walk.
- 240 linear feet of granite steps reset.
- 25,300 square feet of double thick water-proofed cement walk.
- 27,280 square feet of single layer cement walk.
- All granite coping repointed.

A contract was let in 1926 for the furnishing and installation on Riverside Drive from 135th to 155th Street of 100 permanent benches of artificial granite with wooden slat seats and backs.

The work was begun in 1926, but was not completed until March, 1927.

The Tennessee Marble Monument erected in Riverside Park at 116th Street by the Woman's Health Protective Association with a drinking fountain as its chief motive and presented to the City in 1910, has been for several years in an unserviceable and



RIVERSIDE PARK
New Concrete Benches 142—143rd Streets



RIVERSIDE PARK
New Pavement of Grant's Tomb

dilapidated condition. During 1927 the water and drain connections were restored, the displaced and sunken stonework was reset, anchored and cleaned.

The Soldiers' and Sailors' Monument, a white marble structure in Riverside Park at 89th Street, was struck by lightning during the storm on August 1st, 1927 and large sections of the marble slabs on the roof were hurled to the ground, crashing through the brick and marble pavement at the base of the Monument. With the aid of rigging and ladders, installed at our request by the Department of Plant and Structures, measurements were taken and estimates prepared covering the reparation of the damage.

Plans and specifications for the work were also prepared and were submitted to the Board of Estimate for approval.

Preliminary sketches for bridges over extension of Riverside Drive were drawn.

Preliminary sketches for temporary wooden bridge for access to playground at 115th Street were drawn.

HARLEM RIVER DRIVEWAY
and
HIGH BRIDGE PARK.

During the year, the last remaining unguarded stretches of the Speedway bulkhead wall were surrounded by artificial granite balustrades.

The amount of work done was:

391 linear feet of granite coping reset.
3,947 linear feet of artificial granite coping furnished and erected complete.

This completes about 8,000 linear feet of this balustrade, work upon which has been prosecuted during the past thirteen years from time to time as funds were made available.

The walks of the Harlem River Driveway, a large proportion of which had never been repaired since laid, about thirty-two years ago, were repaved with asphalt during the year. Some of the old walks were of gravel, some of asphalt on concrete, and a few sections where no walks had heretofore existed, were paved.

The work done embraced:

1,777 cubic yards of excavation.
2,446 cubic yards of concrete.
214,854 square feet of asphalt.

A new concrete drinking hydrant with water and drain connections was installed in High Bridge Park at 171st Street.

MISCELLANEOUS.

At the American Museum of Natural History the cement walk at the lower entrance on the 77th Street side of the building was regraded and repaved, and a long-standing trouble due to poor draining to the north and east of the Museum was corrected by enlarging old basins, building new basins, and laying some agricultural tile drains.

At the Hamilton Place Playground the old broken bluestone flag sidewalks on the south, east and north sides of the block were taken up and a new rock asphalt walk was laid in place of same.

In addition to this work, the ground around the field-house and comfort station was graded and paved with cement walk pavement and new cement gutters with the necessary basins and drain pipes were installed.

CARL SCHURZ PARK.

A contract was awarded to reconstruct the New York Museum known as the Gracie Mansion to its original appearance and also the interior renovation according to the plans and specifications prepared by this office.

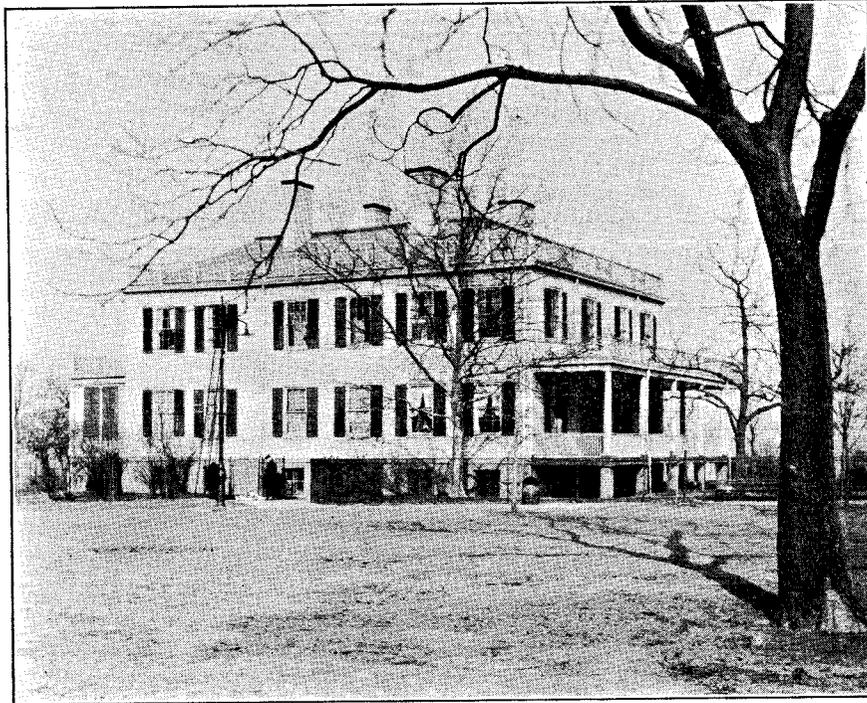
A contract was awarded to erect a comfort station and pavilion to be located on the esplanade between East 84th Street and East 86th Street, according to the plans and specifications prepared by this office.

The lay-out of the walks around Gracie Mansion in Carl Schurz Park was changed and the new walks were paved with asphalt.

The vault lights over the underground comfort station in Madison Square Park had caused much trouble from leaking during rains and from breakage of the glass bulls-eyes.



CARL SCHURZ PARK—NEW COMFORT STATION



CARL SCHURZ PARK
Gracie Mansion

The old vault lights were removed bodily and new frames with the glass set in flexible cement were installed and have given perfect satisfaction.

About 20,400 square feet of defective walk pavement in Chelsea and Colonial Parks were repaved with asphalt on concrete.

THOMAS JEFFERSON PARK.

In order to heat water for bath purposes, two old boilers which were beyond repair in the boiler room under the pavilion, were replaced with two new ones, equipped according to the specifications prepared by this office.

Inspiration Point—(Chittenden Avenue and Riverside Drive).—A contract was awarded to install eleven concrete benches in Shelter which is now under construction according to plans and specifications prepared by this office.

WASHINGTON SQUARE PARK.

A contract was awarded to erect a comfort station for men and women, which is now under construction. It is being built according to plans and specifications prepared by this office.

NEW YORK AQUARIUM—BATTERY PARK.

It was necessary to lower all waste, hot and cold water piping below the ceiling on the second floor for which an order was issued and the work performed under the jurisdiction of this office.

The plastered ceiling of the office on the main floor was in a dangerous condition and it was necessary to award a contract to replace it with a new plastered ceiling which was completed according to the specifications prepared by this department.

NEW YORK PUBLIC LIBRARY.

A contract was awarded for narrowing the sidewalk on the north side of West 40th Street from Fifth Avenue to Bryant Park, complying with the City Ordinances. The work was

completed according to the plans and specifications prepared by this office.

A contract was awarded for replacing the area sidewalk doors with grating to comply with the requests of the Highway Department. The work is under construction according to the specifications prepared by this office.

A contract was awarded to make changes in the fresh air intakes to conform with the narrowing of the sidewalk according to the specifications and is now under construction.

A contract was awarded to replace the old waterproofing over engine room with new and was completed according to the specification prepared by this department.

AMERICAN MUSEUM OF NATURAL HISTORY.

An order was issued for painting necessary to complete certain panels in the interior of the School Service building.

A contract was awarded for steel cases used for storage, costing \$24,000.

A contract was awarded for erecting a platform under the Maxwell Statue in the Exhibition Hall-School Service building, constructed of concrete and marble trimming, costing \$3,485.

A contract was awarded for additional steam heat in the School Service building in stairwell, Cost \$1,250.

A contract was awarded for the construction of a new Incinerator and Smoke Stack and was completed for \$5,863.

A contract was awarded for constructing Motion Picture Booths in School Service building and was completed for \$5,740.

A contract was awarded for the erection of a Dome in the Boreal Hall which is now under construction and when completed will cost \$8,953.

A contract was awarded for steel shelving required for storage in attic and store room and completed for the sum of \$5,490.

In addition to the work of preparing specifications and working drawings for each of the separate construction works above enumerated, the Engineering force laid out the work, inspected it, measured it from time to time and prepared certificates for payment vouchers.

The force was also engaged in making surveys, preliminary estimates of cost, plans and specifications for such other construction works as were begun early in 1927.

The Bureau drew up permits for all construction works in parks performed by other departments, or by public service corporations, plumbers or other persons and inspected the work done under the permits.

The filling which was carried on along the waterfront of the North River from 72nd Street to the Harlem Ship Canal, under the supervision of the Dock Department, with materials excavated from the new rapid transit subways under the contracts of the Board of Transportation, required the constant attention of the bureau and necessitated numerous surveys, staking out of lines, and such inspection as was expedient.

(See also report of Consulting Engineer.)

The routine work of measurement of sods, mould, manure and other materials purchased under contract for the use of the department, and the tabulation of bids received by the Park Board for all boroughs was performed by the Bureau.

CONSULTING ENGINEER

RIVERSIDE PARK.

The idea of creating a park along this hillside slope originated some sixty-three years ago and was described in a pamphlet published by William R. Martin. In 1866, Andrew H. Green introduced a bill in the Legislature creating Riverside Park. This bill became a law in 1867.

In 1924, former Comptroller Charles L. Craig, presented a plan for the improvement of Riverside Park to the Board of Estimate and Apportionment. This plan was approved in principle the same year. No further action was taken however until last year.

A plan for the improvement of Riverside Park (72nd to 129th Streets, a distance of approximately 15,200 linear feet), was completed and presented to the Board of Estimate and Apportionment on July 12th, 1927.

A Committee of Engineers for the West Side Improvement

appointed by Mayor Walker, determined a line called the "Compromise Line," which lies approximately 250 feet outshore from the westerly right-of-way line of the New York Central Railroad, as being the practical limit for proper filling operations.

In 1925, it was found that the material taken from excavations for the new subways might be used to add many acres of land to the riverfront and in addition would effect a great saving to the city by providing a convenient dump for the subway contractors. In accordance with the statement of Colonel J. R. Slattery, Deputy Chief Engineer, Board of Transportation, in the fourth quarterly issue of the 1926 Municipal Engineers' Journal, the city is saving several millions of dollars by permitting the excavated material to be used for extending the land along the North River. By an amendment to the Laws of 1894, the Park Department was permitted to extend the park to the "bulkhead line" established by the War Department in 1890.

The Committee of Engineers for the West Side Improvement at their conference deemed it inadvisable to adhere to the 1868 "bulkhead line" but found it impractical to extend Riverside Park to the 1890 line established by the War Department, owing to the great depth of the water at this distance out in the river and the difficulty in securing the great amount of fill that would be required. The Landscape Architect of the Park Board, at a conference with this Committee, suggested that a bulkhead line be established and adopted approximately midway between the 1868 and 1890 bulkhead lines to be known as the "Compromise Line." By filling in this area approximately 81.96 acres of new park land will be created.

An area of approximately sixty acres of new park land has already been made and this is conservatively valued at \$210,000 an acre, or a total of approximately \$12,600,000.00. Filling yet remains to be done at the following locations:

1. Between 103rd and 119th Streets, an average distance of fifty feet more to be filled in to the compromise bulkhead.
2. Areas at 79th and 96th Streets under Dock Department jurisdiction.

3. In front of Columbia Yacht Club, 85th to 87th Streets, approximately one hundred feet to the compromise line.

A copy of the plan for the improvement of Riverside Park from 72nd to 129th Streets, submitted to the Board of Estimate and Apportionment, on July 12, 1927, is appended.

The plan is of tremendous interest to every west side property owner and dweller, as well as to every motorist of the five boroughs, and provides for the completion of Riverside Park to the water's edge. The main features involved are:

1. A 25' wide promenade or esplanade along the waterfront from 72nd Street to 129th Street.

2. A new driveway constructed as a roof over the right-of-way of the New York Central Railroad. The driveway is approximately parallel to the present Riverside Drive, and will be known as Riverside Drive West.

3. The removal from the entire area of all garbage dumps, coal pockets, piers and other unsightly objects.

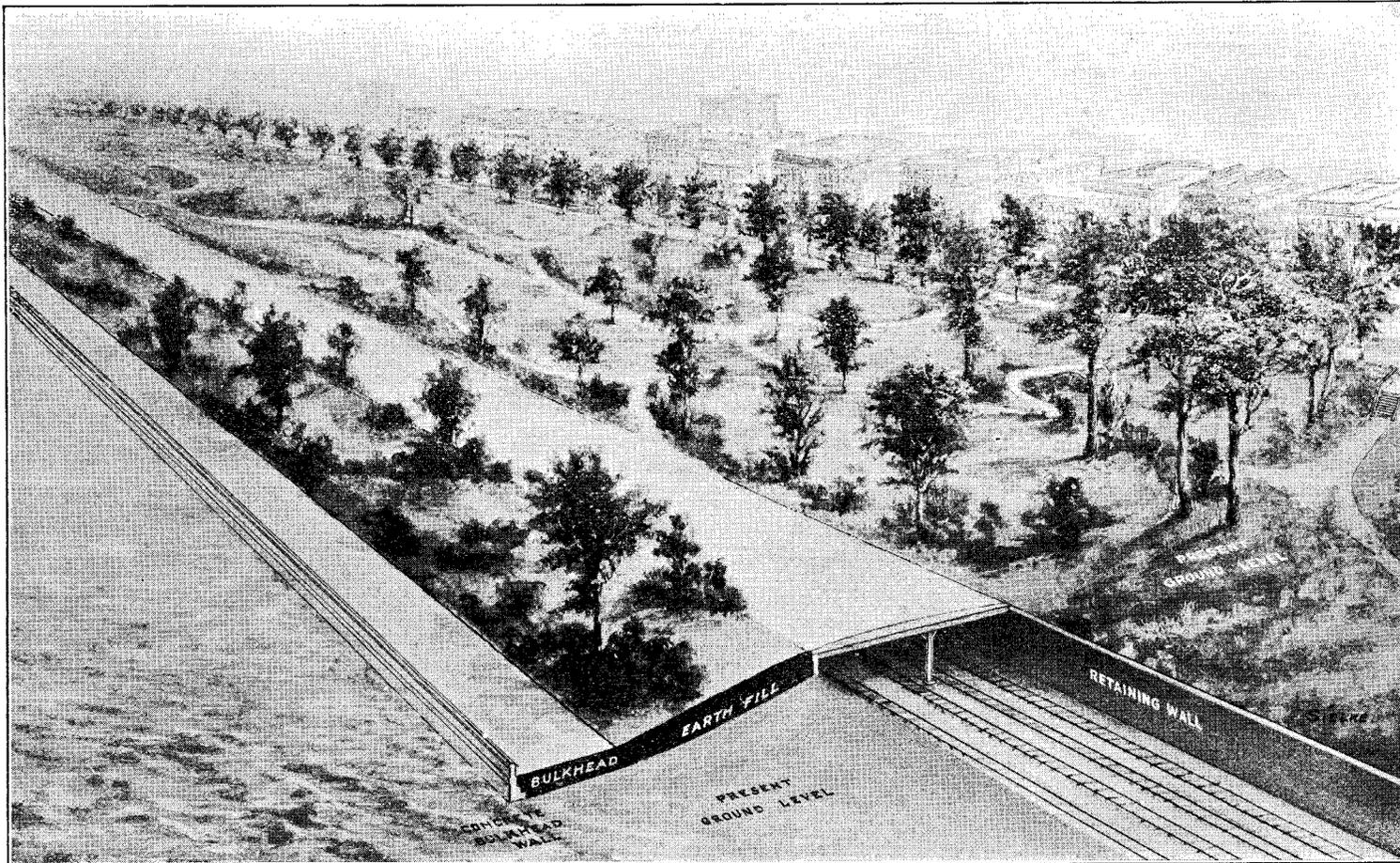
4. The landscaping of the entire area of the park lands between the sea-wall and the new driveway and the restoration of the present park.

Thirty-two acres of land will be used exclusively for recreational facilities, of which twelve acres will be for children only. The plans provide for children's playgrounds and playfields between 74th and 76th streets, 80th and 82nd streets, 94th and 95th streets, 98th and 100th streets, 105th and 109th streets and 119th and 121st streets.

Forty-eight tennis courts will be provided. Sixteen courts at 76th to 78th streets, sixteen courts at 91st to 94th streets and twelve courts at 117th to 119th streets.

There will also be a concert grove at 102nd Street, where concerts will be arranged for music lovers.

Much of the preliminary work has already been done and the entire plan may be completed within two years time. The



CROSS SECTION THROUGH RIVERSIDE PARK — LOOKING NORTH

construction of the bulkhead wall and sea-wall, to be built by the Dock Department offers no serious engineering problems. The fill is of such heavy material, practically all mica schist rock, that the bulkhead wall can be built upon it after proper time has been allowed for settlement. The roofing over the railroad tracks is looked upon as a reasonably simple matter. This will end, for all time, the intolerable noise and smoke nuisance connected with the operation of freight trains along the river's edge from 72nd to 129th streets.

It is estimated that the cost of the improvement (not including sea-wall and roofing over the tracks), will be approximately two and one half million dollars. Under a resolution passed by the Board of Estimate and Apportionment in October, 1924, the cost, which is to be borne by city-wide assessment, is small considering what the city is gaining.

A great amount of study was given to the problem as to the safest way for pedestrians to cross the new driveway. Tunnels were suggested and carefully considered but the average person has an aversion to walking through a dimly lighted tunnel, and it is believed that tunnels would be inadvisable both from a sanitary as well as moral standpoint, particularly in the park and at night. It was decided that all objections would probably be overcome by using a rustic type of bridge for the pedestrians to cross.

The development of Riverside Park will create a new north and south thoroughfare in a congested area. The new driveway along the banks of the Hudson will rival the present driveway, and, being nearer the water, will, without doubt, prove more attractive. A large fresh water swimming pool will be provided from 72nd to 74th streets.

The plans call for a driveway over the New York Central tracks to within 700 feet of St. Claire Place, at which point the drive separates, one part extending to the east and the other to the west of the New York Central Railroad right-of-way and then connecting at grade on St. Claire Place. The driveway will later be continued north over the railway tracks and the grade connections made by ramps connecting to 129th Street.

A very careful study has been made of the effect of the driveway upon traffic conditions. A new roadway will thus be

opened from Fort Lee Ferry on the north, reaching without a break to 72nd Street on the south. Vehicular traffic in this section is seriously congested at present, since the whole volume of traffic is confined to Riverside Drive, and at the southern end of the thoroughfare is forced through 72nd Street into Broadway. Here it divides, a portion going south and adding to the congestion at 65th Street and Broadway and again at Columbus Circle, while the other portion moving eastward through Central Park adds to the congestion later on in Fifth and Park Avenues.

It is believed that the situation will be greatly relieved by the new roadways and their approaches. The traffic bound south for points below 72nd Street, will use the new driveway. The north bound traffic in turn, which originates south of 72nd Street, will naturally follow the line of least resistance and use the new Riverside Drive West. The new traffic routes thus opened will have great value to the city.

Riverside Park is in the heart of the city. It will be of direct benefit to an immense population after the work is completed. It will enlarge and beautify a great park which is one of the city's show places. The new Riverside Park is certain to be one of the most popular resorts in the city.

It may further be added that in the planning of the park the recommendations of the Mayor's West Side Improvement Engineering Committee have been considered.

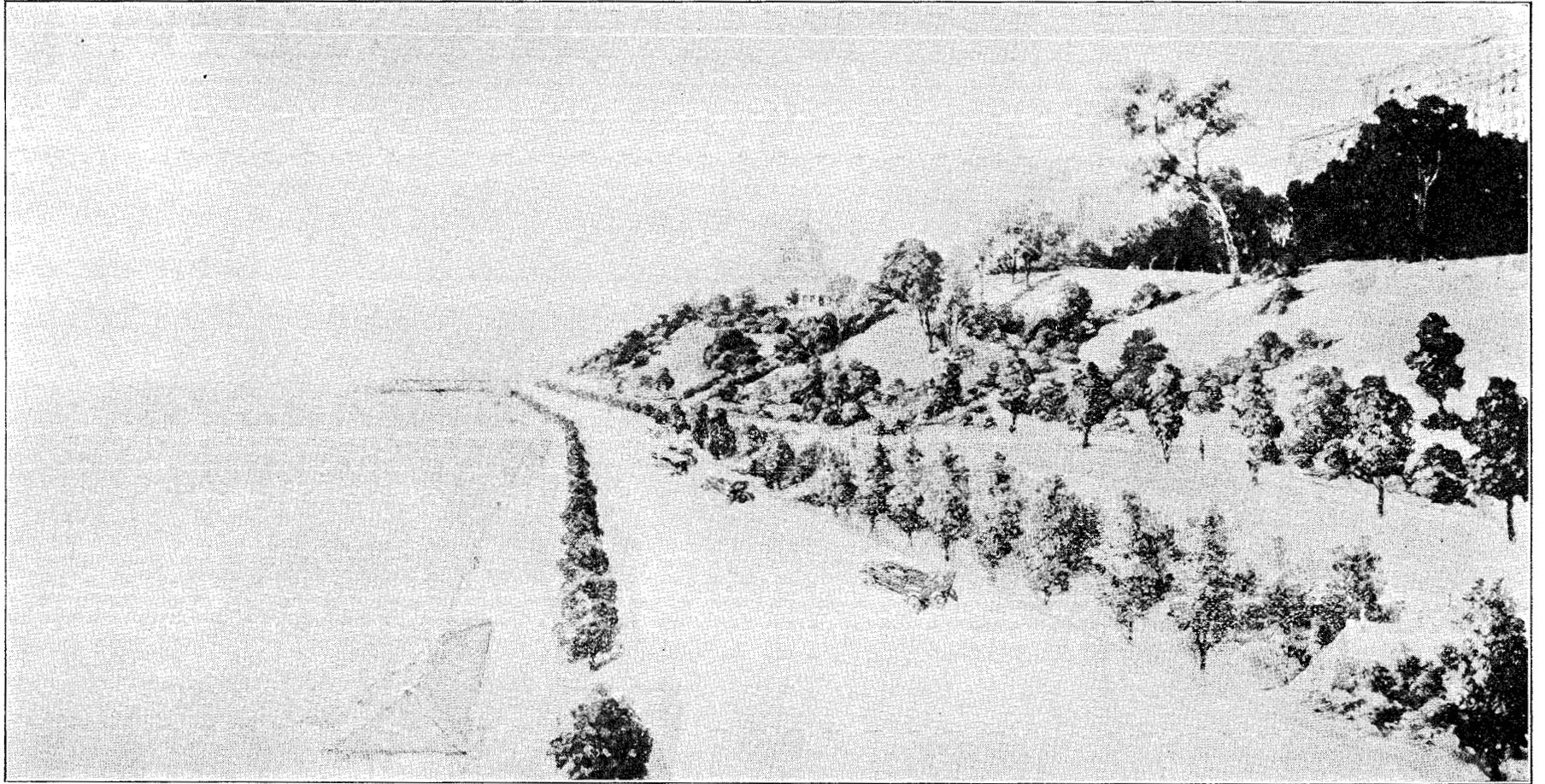
FORT WASHINGTON PARK.

That section extending from 173rd to 178th streets (approximately 1300' long) along the Hudson River is being extended to the bulkhead line. The Department of Parks has given permission to the Board of Transportation's contractors to dump the excavated material taken from the subways. The fill is to extend approximately 250' west of the westerly right-of-way line of the New York Central Railroad and at the present time the fill has been carried to within 100' of the bulkhead line, and approximately six acres of new park land has been made.

When the work of filling has been completed it is intended to landscape the new areas to fit in with the surrounding territory and park.

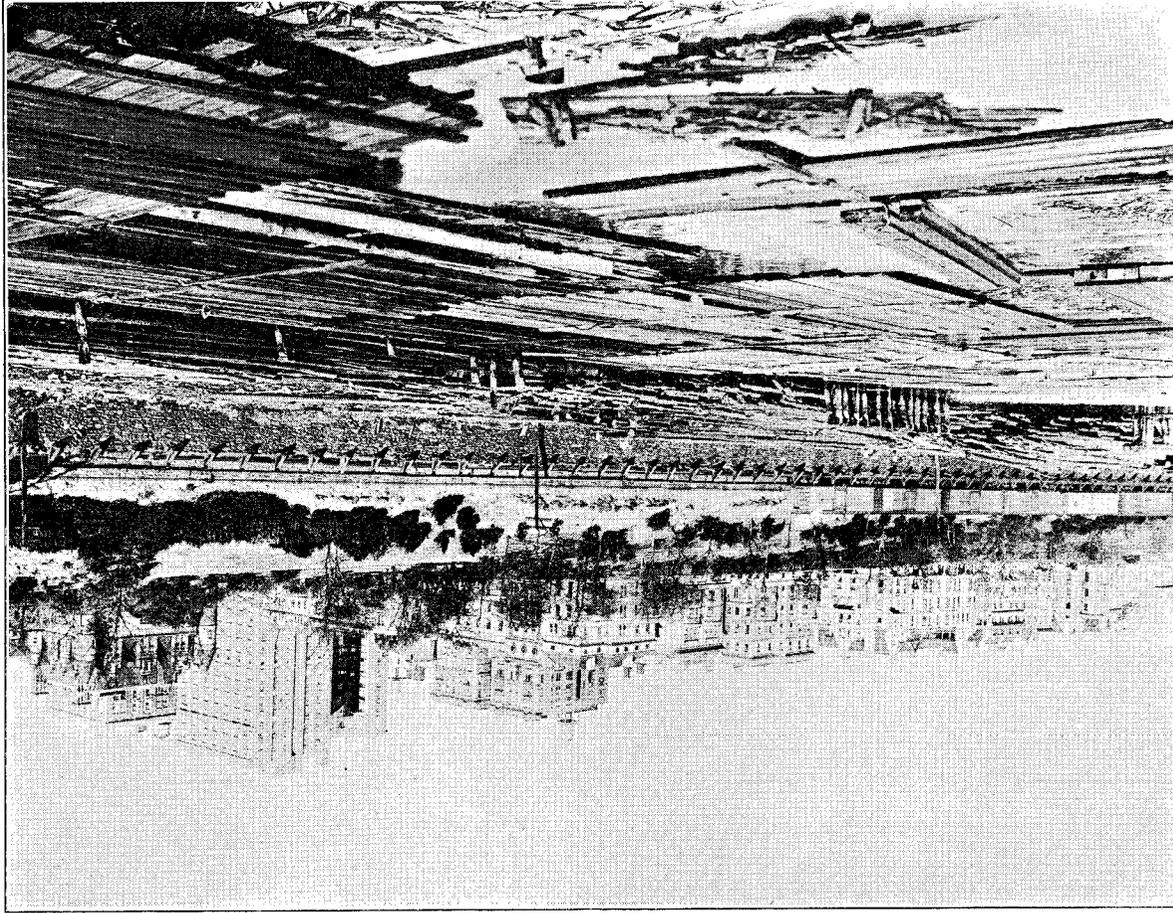


RIVERSIDE PARK, SHOWING EXTENT OF FILLING OPERATIONS
Looking North from 110th Street



RIVERSIDE PARK AS IT WILL LOOK WHEN PROPOSED PLAN HAS BEEN
COMPLETED
Looking North from 118th Street

RIVERSIDE PARK, BEFORE FILLING OPERATIONS STARTED
North from 72nd Street West of Railroad Tracks



On the northerly end of Fort Washington Park, at the north-westerly corner of Riverside Drive and Staff Street, there existed a hollow in which water collected and became stagnant. Protests were received from the Department of Health and citizens in the apartment house facing this hollow, which was approximately 200' x 200' in dimension. The Park Department had considerable difficulty in securing free fill to bring the hollow up to the level of the street. After some time, arrangements were made with the contractor and the area was filled up to the level of Staff Street, considerably improving this section, free of cost to the city.

INWOOD HILL PARK.

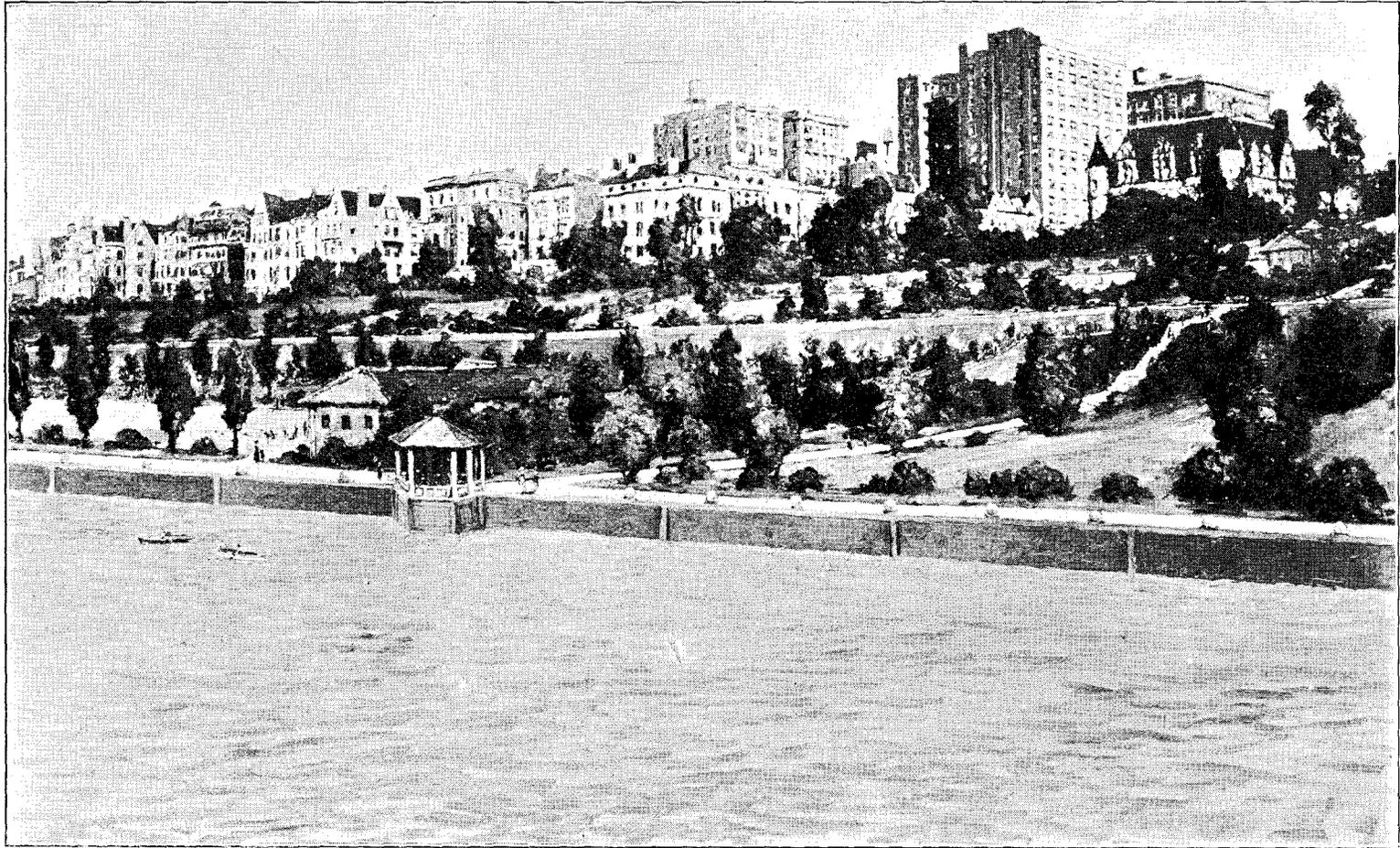
Filling operations have also been under way in Inwood Hill Park extending north from Dyckman Street, to about the centre line of 212th Street and Hudson River, approximately 1400' in length. This fill is to be extended to the bulkhead line. The material for filling in this area was obtained from the subway contractors of the Board of Transportation and extends approximately 185' west of the westerly right-of-way line of the New York Central Railroad. An approximate area of 9.75 acres of new land has been added to the park and at some future time it is intended to lay out the plan for this park area to harmonize with the surrounding park land.

It is estimated that the value of the new made land acquired through dumping operations, together with money saved by providing dumps for subway contractors, amounts to approximately \$17,000,000.00. This work when completed as planned, will tend to enhance the aesthetic beauty of "The Greatest of all Rivers,"—"The Hudson."

BUREAU OF SCHOOL FORMS

Name	Established	Area	Location
DeWitt Clinton	1902	$\frac{3}{4}$ acre	52-54th St. and 12th Ave.
Corlears Hook	1913	$\frac{3}{4}$ acre	Jackson and Cherry Streets
Thos. Jefferson	1911	2 acres	111-114th St., East River
Demonstration	1915	$\frac{1}{8}$ acre	Union Square
Seward Park	1927	$\frac{1}{8}$ acre	Canal and Jefferson Streets

The cost of maintenance and operation of this Bureau was \$10,675.26



RIVERSIDE PARK AS IT WILL LOOK WHEN PROPOSED PLAN HAS BEEN
COMPLETED
Looking North from 72nd Street

Total attendance of each farm:

DeWitt Clinton	89,455
Corlears Hook	39,990
Thomas Jefferson	59,589
Seward Park	6,000

The Bureau of School Farms is in charge of a Head Attendant and five (5) School Farm Attendants.

CENSUS OF PRODUCTS:

The young farmers taking part in the spring and fall harvests were able to secure over:

Radishes	18,000 bunches
Scallions	9,000 bunches
Beets	5,000 bunches
Carrots	6,000 bunches
Lettuce	15,000 heads
Corn	300 dozen
Swiss Chard	20,000 plants

The various crops such as Tobacco, Flax, Hemp, etc., were distributed to neighboring schools for exhibition specimens.

NEW SCHOOL FARM—SEWARD PARK.

A new farm at Seward Park, comprising an area of 100' x 100' was started during the middle of July. After intensive preparation, this farm was planted by equally intensive little farmers on August 2, 1927. At the end of October, the harvest was fittingly celebrated and prizes given to the children for the best efforts. Educational and civic groups attended this harvest and marvelled at the transformation and result.

ADULT DEMONSTRATION GARDEN.

The Bureau of Children's School Farms maintains in Union Square, 14th Street and Fourth Avenue, a garden of about $\frac{1}{8}$ of an acre for demonstration purposes. It is maintained primarily for adults. The garden is visited daily by information seekers. Instruction is given to all on proper planting. In response to popular demand many new additions were made to the Demonstration Garden. New beds were maintained for the propagation of Hedge Plants, Garden Flowers, and care of House Plants.

Data was furnished for the planting of lawns and improvements of home grounds. New Suburbanites find the garden a "Mecca for needed information." A plant of "Poison Ivy" is kept behind a wire enclosure, with a sign—"know it when you see it." Particular stress is emphasized in familiarizing the thousands who visit the Demonstration Garden before going to the country for vacation. They know "it" when they see "it."

THE SOCIOLOGICAL VALUE OF CHILDREN'S GARDENS.

The name "Garden" conveys a different meaning to every mind. The usual conception is a place in which to grow vegetables to supply the household, or flowers to gratify the eye or beautify the landscape. But a garden as a laboratory for every part of the school curriculum, or sanitarium for the restoration of health and exhausted nerves, is just beginning to be understood. The Children's Gardens as conducted by the Department of Parks, with their individual plots and neat little homelike cottages attached to each garden are a sort of hypothesis of home life's problems and farming carried on in the spirit of play.

ACTIVITIES.

The season is divided into two sessions, First, planting in May, harvesting in July. Second, planting before August 1st, harvesting on October 15th.

MEMBERSHIP RULES.

The rules of the Garden are: Honesty, Truthfulness, Justice and Courtesy.

MANAGEMENT AND METHODS.

The systematic method of assigning and planning which has been in practice for twenty-five years has made it possible for the children to do more, and more thorough work in preparing the ground under the expert supervision of the Bureau's force. All the garden work is done entirely by the children. This work includes the preparation of the soil in the spring, spading, raking, planting, cultivating, and for the harvesting season, the preparation and manuring of the ground.

ASSIGNMENT OF PLOTS.

Cooperation with the Public, Parochial and Industrial Schools from which children come in classes on a regular schedule from April 1 to June 30 and from September to December. Upon entering the garden, slips are distributed, giving the procedure for the day, which is governed by weather conditions. During the vacation months the attendance is voluntary, "first come, first served." A bulletin posted in the garden notifies the children of the time for registration. Different days are reserved for boys and girls. Tags bearing their names and plot numbers are given to the children at registration.

PLANTING.

Immediately following the registration, School Farm Attendants take groups of children to the lesson plot, where a model planting lesson is given. Seeds of seven different vegetables are distributed and sown, the furrows covered, and the little plots watered. This operation is continued until the entire garden is planted, which is accomplished by this method in a very short time. After the individual work is finished, other public or special work is assigned to the children.

OBSERVATION PLOTS.

Decorative flower beds are included in the Farm Gardens, consisting of flowers and bedding plants. These are set out with careful arrangement of attractive colors. Other beds are set aside for observation and study. These are planted with Cotton, Tobacco, Wheat, Broom Corn, Flax, Hemp, etc. Such observation plots are usually located near the edge of the School Farm with descriptive signs turned outward to interest the adults of the neighborhood. The local schools are deeply interested in these observation plots.

RAKING AND CARING FOR PATHS.

The care of paths, if properly taught, can be the foundation of good road-making on a larger scale. Each individual plot owner is expected to care for the narrow paths surrounding his

plot, but all of the individual plot owners must give their service toward keeping the wide paths of the garden in order. This teaches the child plot owner the duty of good citizenship and public service. In keeping up to a standard his own property and the property of the community, he acts like a taxpayer in the City or County, who must give money or his services in keeping the community streets or roads in order.

COURTESY EXTENDED.

The courtesy of the gardens is extended to all schools, Public, Parochial and Industrial, as well as to the exceptional child, whether he be deaf, dumb, blind or crippled, in the same manner as the courtesy extended by the Metropolitan Museum of Art and the Museum of Natural History.

VISITING CLASSES.

With the cordial cooperation of the school authorities, the gardens are used as a valuable laboratory, children other than plot owners, coming in groups of four hundred an hour, three hours a day, during September and October, and here opportunity is afforded them to see the sprouted seed, the grown plant, the raw material and the finished product of field and fibre crop.

NATURE STUDY LESSONS.

The nature study lessons consist of the study of insects, vegetables, flowers, field crops, seeds and plant parts.

EFFECT ON ADULTS.

The influence of the gardens extends not only to the child world but to that of adults as well. Children in proper environment, orderly, happy and busy, are of constant interest and surprise to the adults who have known only opposite traits in children.

LITTLE MOTHERS AND FATHERS.

The gardens furnish a wonderful relief to the "Little Mothers and Fathers." These children who have their baby brothers and sisters to care for, keep them happily amused,

letting them pick up stones and sticks, or comfortably seat them in a nearby box or baby carriage instead of carrying the babies in their arms or placing them on a hard door-step in a hot street. The Gardens, while not relieving them from duty enable the older child, at the same time to gain health, strength and pleasure.

INDIVIDUAL OWNERSHIP AND COMMUNITY RESPONSIBILITY.

After the child has been given its individual plot, and impressed with the fact that he is to have no aid in caring for it from his fellow farmers, and that he is to render no aid to them in caring for theirs, unless asked to do so by the person in charge, he is apt to become selfish. To counteract all this, the little farmers engage in community service. A raking drill is instituted at the close of the day, for three reasons; First, the effect upon the child of closing the day's work properly. Second, the physical effect of raking in concert, so exercising every muscle. Third, the individual duty to the community or public service.

CIVIC TRAINING.

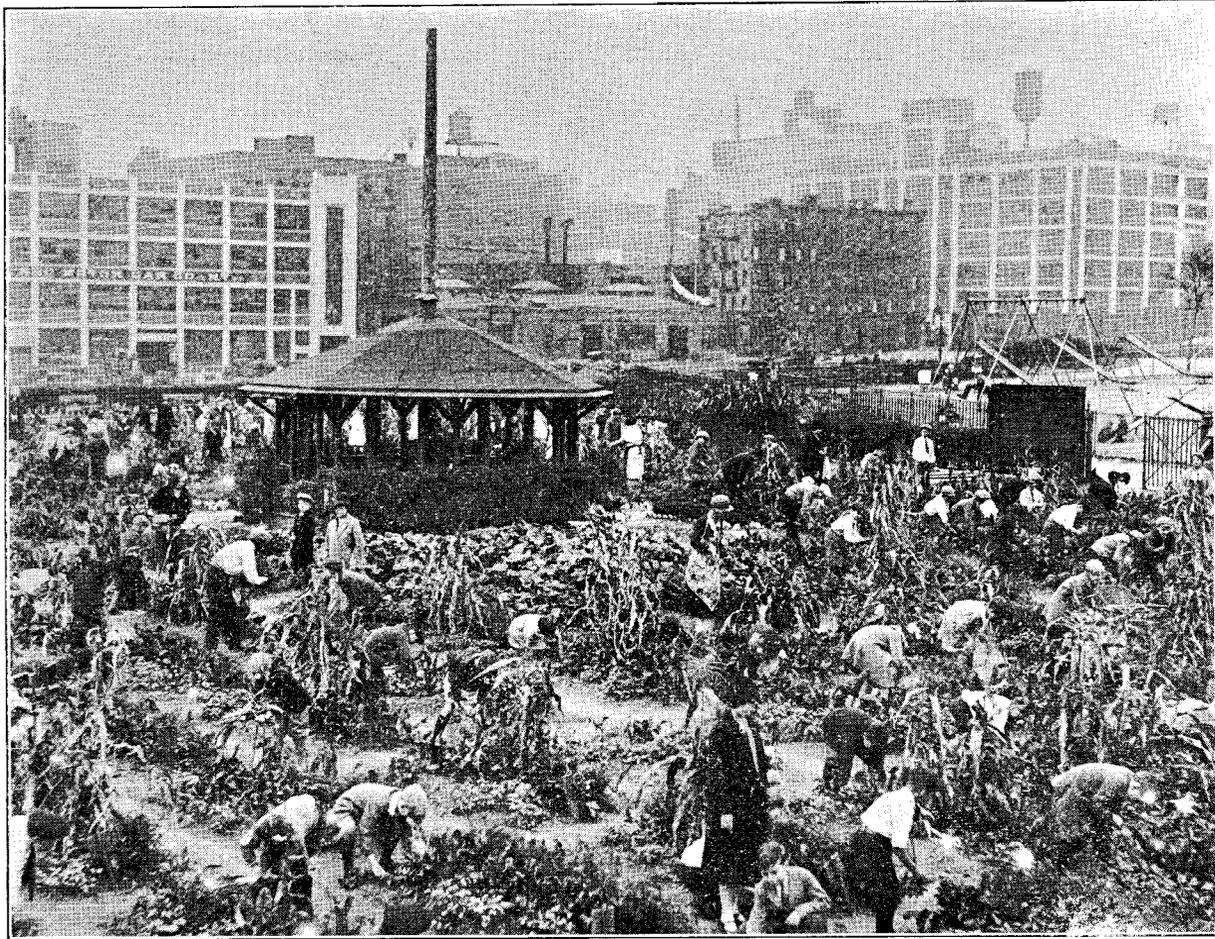
The fundamental reason for establishing these Children's Farms was to teach the private care of public property and remove the adult misunderstanding of children. Effort is also made to impress upon the children that this is the children's world. Its beauty, order and success are dependent upon them, but outside of the garden fence, is the adult world and respect must be paid to adult rights. Individual ownership in a community garden must be the keynote of all instruction.

LECTURES.

In one garden there are accommodations for Lantern Slide Lectures. During the winter 800 children a week visit this hall, where they not only attend these lectures but also repair the garden tools, mend and paint boxes and wheelbarrows.

OPEN AIR CLASSES.

The courtesy of the garden is extended to the Open Air Classes of the Board of Education. The two classes from



DE WITT CLINTON PARK GARDEN, 54th ST. AND 11th AVE.
Children Harvesting Gardens.

Public School No. 102 use the garden at Thomas Jefferson School Farm and the two classes from Public School No. 110 use the Corlears Hook School Farm. These classes use the garden as their class rooms for the entire year. They take part in the garden activities, and the most delicate child can plant a bulb or a flower seed.

SUNDAY WORLD MEDALS AWARDED.

The interest of the children in their 1927 harvest was greatly increased by the incentive of receiving one of the 200 silver and bronze medals donated through the courtesy of the Sunday World. The silver medals for the best individual gardens, and the bronze, in their order of merit.

PLANTS GROWN IN OBSERVATION PLOTS.

Alfafa	Barley	Castor Oil
Broom Corn	Cabbage	Celery
Indian Corn	Clover	Celery Knobs
Kaffir Corn	Cotton	Cow Peas
Field Corn	Endive	Flax
Forestry	Job's Tears	Kale
Lima Beans	Mustard	Oats
Okra	Parsley	Parsnips
Peanuts	Popcorn	Pumpkin
Rhubarb	Rutabaga	Rye
Sage	Squash	Sugar Beet
Thyme	Tobacco	Wheat.

On December 31, 1927 the Bureau of School Farms closed its Twenty-Sixth successful year, and the Demonstration Garden its Twelfth Year.

DEPARTMENT OF PARKS BOROUGH OF MANHATTAN

IMPROVED PARKS—Borough of Manhattan	Area in Acres
Abingdon Square, Eighth Avenue and Hudson Street	0.222
Ahearn Park, Grand Street and East Broadway	0.096
Battery Park, foot of Broadway	19,261
Beach Street Park, Beach Street and West Broadway	0.040
Bowling Green, Broadway and Whitehall Street	0.526
Bryant Park, Sixth Avenue and 42d Street	4,631
Canal Street Park, Canal and West Streets	0.326
Central Park, Fifth to Eighth Avenue, 59th to 110th Street	840.010
Chelsea Park, 27th to 28th Street, Ninth to Tenth Avenue	3.103
Christopher Street Park, Christopher and West 4th Street	0.146

City Hall Park, Broadway and Chambers Street	8.550
Colonial Park, 145th to 155th Street, Bradhurst to Edgecombe Avenue...	12.766
Columbus Park, Mulberry and Bayard Streets	2.568
Cooper Park, Third Avenue and 7th Street	0.225
Corlear's Hook Park, Corlear's and South Streets	7.458
Dante Park, Broadway and 63d Street	0.142
Dewey Square, Triangle at Seventh Avenue and 117th Street	0.074
DeWitt Clinton Park, 52d to 54th Streets, North River	8.455
Donnellon Square, Triangle at St. Nicholas Avenue and 150th Street	0.038
Duane Street Park, Duane and Hudson Streets	0.115
Dyckman House Park, Broadway and 204th Street	0.316
Greeley Square, Sixth Avenue and 32d Street	0.139
Hamilton Fish Park, Houston and Willett Streets	3.610
Hancock Square, St. Nicholas Avenue and 123d Street.....	0.067
Harlem Lane Park, Seventh Avenue and 153d Street	1.000
Herald Square, Sixth Avenue and 35th Street	0.042
Hudson Park, Hudson and Leroy Streets	1.665
Isham Park, Seaman Avenue, 214th Street and Broadway	8.796
Jackson Square, Eighth Avenue and Horatio Street	0.226
John Jay Park, 76th to 78th Street, East River	3.009
Jeannette Park, Coenties Slip and South Street	0.709
Thomas Jefferson Park, 111th Street, First Avenue, 114th Street and Harlem River	15.534
Joan of Arc Park, Riverside Drive, 91st to 95th Street	1.578
Kuyter Park, South approach Third Avenue Bridge	0.298
Lincoln Square, Broadway and 66th Street	0.051
Madison Square, Broadway and 23d Street	6.101
Manhattan Square, Central Park West, 77th Street to 85th Street	17.582
Mitchel Square, Broadway and 166th Street to 168th Street	0.319
Montefiori Park, Broadway and 138th Street	0.340
Morningside Park, 110th Street to 123d Street, between Columbus and Amsterdam Avenues	30.495
Mount Morris Park, Mount Morris to Madison Avenue, 120th to 124th Streets	20.131
John J. Murphy Park, bounded by 17th and 18th Streets, Avenue C and East River	1.037
Park Avenue Parks, Park Avenue, 34th to 38th Streets, and 50th to 96th Street	8.861
Plaza Lafayette, Riverside Drive and West 181st Street	0.092
Riverside Park and Drive, North River, 72d to 129th Street	134.791
Riverside Drive Extension, 135th to 158th Street	24.000
Roger Morris Park, Jumel Terrace, Edgecombe Road, 160th and 162d Streets	1.521
Rutgers Park, Rutgers Slip and South Street	0.453
Ryan Park, Second Avenue and 42d Street	7.180
St. Gabriel's Park, 35th to 36th Streets, First to Second Avenues	2.924
St. Nicholas Park, 130th to 141st Streets, St. Nicholas Avenue to St. Nicholas Terrace	20.219
Schiff Parkway, centre of Delancey Street from Bowery to Essex Street	0.716
Carl Schurz Park, 84th to 89th Streets, East River	10.341
William H. Seward Park, Canal and Jefferson Streets	3.301
Sherman Square, Broadway and 70th Street	0.001
Thomas F. Smith Park, West 23d Street and Eleventh Avenue	1.849
Straus Park, Broadway and 106th Street	0.072
Stuyvesant Park, Rutherford Place and 16th Street	4.229
Tompkins Square, Avenue A and 7th Street	10.152
Union Square, Broadway and 14th Street	3.433
Verdi Square, Triangle at Broadway and 73d Street	0.095
Washington Square, Fifth Avenue and Waverly Place	8.626

	Area in Acres
IMPROVED AND UNNAMED PARKS—Borough of Manhattan	
Triangle at St. Nicholas Avenue and 137th Street	0.038
Triangle at Manhattan Avenue and 114th Street	0.018

Parks, centre of Broadway, 60th to 122 Street	7.306
Parks, centre of Broadway, 135th to 168th Street, total	3.337
Parks, centre of Seventh Avenue 110th Street to Harlem River	1.679
Addition to Riverside Park, 122d Street, Riverside Drive to Claremont Avenue	2.043

Area in
Acres

UNIMPROVED PARKS—Borough of Manhattan

Fort Washington Park, Fort Washington Point, Hudson River	123.850
High Bridge Park, 155th Street to Dyckman Street west of "the Harlem River Driveway," and from 155th to 159th Streets, east of "the Harlem River Driveway" (includes McNally Plaza, 181st Street and Washington Bridge)	103.026
St. Nicholas Park Extensions at 130th and 141st Streets	2.590
Isham Park, 213th Street and Seaman Avenue to Harlem Ship Canal.....	9.797
Park at Inwood Hill	166.00
J. Hood Wright Park, Fort Washington Avenue and 175th Street	6.600

Area in
Acres

UNIMPROVED UNNAMED PARKS—Borough of Manhattan

Extension of Riverside Park, New York Central and Hudson River Railroad to the bulkhead line of Hudson River, 72d to 129th Street	48.215
West of Harlem River Driveway and north of High Bridge Park	50.013
Extension to Corlear's Hook Park, an extension southerly to the pierhead line	2.343
Park, east of Riverside Drive, about 190th Street	3.567
Triangle, 143d Street and Hamilton Place	0.001
Park, east of Riverside Drive, about 169th to 177th Street	1.494

Area in
Acres

LANDS ACQUIRED FOR PLAYGROUNDS—Borough of Manhattan

Playground, West 173d Street, Haven Avenue and Fort Washington Avenue	6.000
Playground, 59th to 60th Streets, west of Amsterdam Avenue	0.579
Coleman Square Playground, Nos. 180 to 184 Cherry Street	0.392
Yorkville Playground, south side 101st Street, between Second and Third Avenues	0.846
Five Points Playground, corner Worth and Baxter Streets	0.187
Carmansville Playground, 151st and 152d Streets, east of Amsterdam Avenue	0.142
St. Catherine Park Playground, west of First Avenue, between 67th and 68th Streets	1.383
Jasper Oval Playground, St. Nicholas Terrace and 136th Street	4.379
Playground, Hamilton Place and 141st Street	0.811
Playground, Market and Henry Street	0.122
Playground, Downing Street to Carmine Street, west of Bleecker Street	0.173

Area in
Acres

LANDS OF OTHER CITY DEPARTMENTS BY THE
DEPARTMENT OF PARKS AS PLAYGROUNDS

Queensboro Bridge Playground, west of Sutton place, 59th to 60th Streets	1.239
Additional Land at Carmansville Playground, 152d Street and Amsterdam Avenue	0.432
Annunciation Park, Amsterdam Avenue and 134th Street	1.670

PARKWAYS, STREETS, AVENUES, ETC., UNDER THE JURISDICTION OF THE DEPARTMENT OF PARKS—Borough of Manhattan	Length in Feet	Width in Feet
Harlem River Driveway	11,562	100 to 150
Morningside Drive	3,538	90
Riverside Drive	17,000	90 to 168
Riverside Drive Extension, 134th to 158th Street.....	6,800	

BUDGET APPROPRIATION—1927

DEPARTMENT OF PARKS, PARK BOARD.

<i>Personal Service—</i>		
1100	Salaries Regular Employees—	
	1. President	\$8,000.00
	2. Commissioner	30,000.00
	3. Secretary	5,500.00
	4. Landscape Architect	5,000.00
	5. Assistant Landscape Architect.....	4,000.00
	Total Personal Service	\$52,500.00
1101	Contingencies	\$225.00
	Total	\$225.00
 <i>Departmental Summary—</i>		
	Total Personal Service	\$52,500.00
	Total Other Than Personal Service	225.00
	Departmental Total	\$52,725.00

DEPARTMENT OF PARKS, MANHATTAN.

<i>Personal Service—</i>		
<i>Salaries Regular Employees—</i>		
1110	Administration—	
	1. Chief Engineer	\$5,775.00
	2. Superintendent of Parks	5,000.00
	3. Secretary to Commissioner	3,500.00
	4. Chief Clerk	3,500.00
	5. Principal Assistant Engineer	3,360.00
	6. Forester	3,500.00
	7. Architect	2,343.00
	8. Transitman	2,645.00
	9. Topographical Draftsman	2,457.00
	10. Rodman	1,914.00
	11. Rodman	1,825.00
	12. Inspector of Masonry	1,800.00
	13. Clerk	2,750.00
	14. Clerk	2,700.00
	15. Clerk	2,650.00
	16. Clerk	2,520.00
	17. Clerk	2,296.00
	18. Clerk	1,694.00
	19. Clerk	1,260.00
	20. Clerk	1,200.00
	21. Stenographer and Typewriter	2,580.00
	22. Stenographer and Typewriter	6,015.00
	23. Messenger	2,150.00
	24. Storekeeper's Helper	1,860.00
	25. Storekeeper's Helper	960.00
	26. Telephone Operator	1,771.00
	27. Automobile Engineman	1,872.00
	28. Attendant	1,716.00
	29. Attendant	1,500.00
	Schedule Total	\$75,113.00

1111	Parks and Boulevards—		
	1. Foreman Mechanic		\$3,060.00
	2. Foreman Gardener		2,520.00
	3. General Foreman		2,520.00
	4. District Park Foreman		2,520.00
	5. District Park Foreman	2 at \$2,280	4,560.00
	6. Park Foreman	19 at 1,872	35,568.00
	7. Park Foreman		1,767.00
	8. Supervisor of Attendants (Male)		2,160.00
	9. Supervisor of Attendants (Female)		1,800.00
	10. Climber and Pruner		2,232.00
	11. Arboriculturist or Gardener		2,200.00
	12. Gardener	3 at 1,872	5,616.00
	13. Automobile Engineman	9 at 1,620	14,580.00
	14. Attendant		1,944.00
	15. Attendant	66 at 1,500	99,000.00
	16. Attendant	2 at 1,270	2,540.00
	17. Messenger		1,500.00
	18. Watchman	5 at 1,445	7,225.00
	19. Watchman	2 at 1,299	2,598.00
	20. Watchman		1,200.00
	Schedule Total		<u>\$197,110.00</u>
1112	Playgrounds and Children's School Farms—		
	1. Supervisor of Recreation		\$4,000.00
	2. Assistant Supervisor of Recreation (Female)		2,760.00
	3. Head School Farm Attendant		1,944.00
	4. Gymnasium Attendant		2,150.00
	5. Gymnasium Attendant	3 at \$1,823	5,469.00
	6. Gymnasium Attendant		1,708.00
	7. Gymnasium Attendant		1,586.00
	8. Gymnasium Attendant		1,560.00
	9. Gymnasium Attendant	11 at 1,537	16,907.00
	10. Gymnasium Attendant	6 at 960	5,760.00
	11. Playground Attendant	2 at 1,610	3,220.00
	12. Playground Attendant	19 at 1,537	29,203.00
	13. Playground Attendant	4 at 960	3,840.00
	14. School Farm Attendant	4 at 1,478	5,912.00
	15. School Farm Attendant		960.00
	Schedule Total		<u>\$86,979.00</u>
1113	Menagerie—		
	1. Keeper of Menagerie		\$2,040.00
	2. Keeper of Menagerie		2,016.00
	3. Keeper of Menagerie	2 at \$1,823	3,646.00
	4. Keeper of Menagerie	2 at 1,700	3,400.00
	5. Keeper of Menagerie	2 at 1,600	3,200.00
	6. Keeper of Menagerie	2 at 1,500	3,000.00
	Schedule Total		<u>\$17,302.00</u>
1114	Dyckman House and Junel Mansion—		
	1. Curator		\$1,823.00
	2. Attendant		1,270.00
	3. Caretaker (Male)		1,200.00
	4. Caretaker (Female)		1,100.00
	Schedule Total		<u>\$5,393.00</u>

1115 Salaries Temporary Employees—
 1. Attendantat \$1,500 (116 months) \$14,500.00

1116 Wages Regular Employees—
 1. Laborer1 at \$5.50 a day (365 days) \$2,007.50
 2. Attendant1 at \$5 a day (365 days) 1,825.00

Schedule Total \$3,832.50

1117 Wages Temporary Employees—
 Parks and Boulevards—

1. Bricklayerat \$12 a day (276 days) \$3,312.00
 2. Plumberat \$11 a day (1,104 days) 12,144.00
 3. Housesmithat \$10.50 a day (1,104 days) 11,592.00
 4. Carpenterat \$10.50 a day (4,968 days) 52,164.00
 5. Carriage Painterat \$10 a day (552 days) 5,520.00
 6. Painter (Letterer)at \$10 a day (552 days) 5,520.00
 7. Painterat \$10 a day (3,864 days) 38,640.00
 8. Tinsmithat \$10 a day (416 days) 4,160.00
 9. Blacksmithat \$9.50 a day (552 days) 5,244.00
 10. Electrician at \$9.50 a day (302 days) 2,869.00
 11. Horseshoer (Fireman)at \$9.50 a day (276 days) 2,622.00
 12. Machinist at \$9.50 a day (365 days) 3,467.50
 13. Pipefitter at \$9.50 a day (276 days) 2,622.00
 14. Wheelwright at \$9.50 a day (552 days) 5,244.00
 15. Harnessmaker at \$8.40 a day (276 days) 2,318.40
 16. Cement Masonat \$8 a day (276 days) 2,208.00
 17. Mason at \$8 a day (276 days) 2,208.00
 18. Rigger at \$8 a day (276 days) 2,208.00
 19. Machinist's Helper at \$7.50 a day (1,400 days) 10,500.00
 20. Blacksmith's Helperat \$7 a day (1,104 days) 7,728.00
 21. Licensed Firemanat \$7 a day (2,340 days) 16,380.00
 22. Park Foremanat \$6.50 a day (70 days) 455.00
 23. Climber and Prunerat \$6 a day (6,514 days) 39,084.00
 24. Gardener at \$6 a day (12,077 days) 72,462.00
 25. Plumber's Helperat \$6 a day (578 days) 3,468.00
 26. Automobile Enginemanat \$5.50 a day (3,020 days) 16,610.00
 27. Driverat \$5.50 a day (7,003 days) 38,516.50
 28. Stableman at \$5.50 a day (1,460 days) 8,030.00
 29. Laborer at \$5.50 a day (102,113 days) 561,621.50
 30. Attendant at \$5 a day (7,693 days) 38,465.00
 31. Attendant (Male or Female)at \$5 a day (500 days) 2,500.00
 32. Cleaner (Female) at \$4.25 a day (604 days) 2,567.00

Schedule Total \$982,449.00

1118 Restoration of Parks—

1. Gardener at \$6 a day (1,380 days) \$8,280.00
 2. Driver at \$5.50 a day (91 days) 500.50
 3. Laborerat \$5.50 a day (1,836 days) 10,098.00

Schedule Total \$18,878.50

1119 Maintenance of Riverside Drive, 158th Street to
 Dyckman Street—

1. Park Foremanat \$6.50 a day (312 days) \$2,028.00
 2. Gardener at \$6 a day (550 days) 3,300.00
 3. Laborer at \$5.50 a day (2,750 days) 15,125.00

Schedule Total \$20,453.00

(The work of maintaining the park areas along this Drive, within the street limits mentioned, is to be performed by and under the supervision of the Park Department, and vouchers for disbursements of appropriations within this Code are to be prepared by the Park Department and endorsed by the President, Borough of Manhattan, the jurisdiction of the Drive remaining under the latter.)

1120	Playgrounds and Children's School Farms—	
	1. Gymnasium Attendant (Male), at \$4 a day (4,605 days)	\$18,420.00
	2. Playground Attendant (Female), at \$4 a day (5,835 days)	23,340.00
	3. School Farm Attendant at \$4 a day (945 days)	3,780.00
	Schedule Total	<u>\$45,540.00</u>
	Total Personal Service	<u>\$1,467,550.90</u>

1121	Forage and Veterinary Supplies	\$23,000.00
1122	Fuel Supplies	18,210.00
1123	Office Supplies	2,500.00
1124	Medical and Surgical Supplies	125.00
1125	Motor Vehicle Supplies	6,800.00
1126	Cleaning and Disinfecting Supplies	1,300.00
1127	Recreation Supplies	500.00
1128	Botanical and Agricultural Supplies	18,000.00
1129	General Plant Supplies	4,000.00
1130	Office Equipment	200.00
1131	Motor Vehicle Equipment	10,000.00
1132	Recreational Equipment	10,000.00
1133	General Plant Equipment	13,000.00
1134	Live Stock	900.00
1135	General Plant Materials	35,000.00
1136	Repairs to Roadways and Pavements	1,200.00
1137	Repairs to Walks	3,000.00
1138	Other Repairs	12,400.00
1139	Motor Vehicle Repairs	600.00
1140	Shoing and Boarding Horses, Including Veterinary Service.....	1,100.00
1141	Carfare	1,400.00
1142	Telephone Service	2,750.00
1143	General Plant Service.....	900.00
1144	Music	36,768.00
1145	Contingencies	200.00
	Total	<u>\$203,853.00</u>

Departmental Summary—		
	Total Personal Service	\$1,467,550.90
	Total Other Than Personal Service	203,853.00
	Departmental Total	<u>\$1,671,403.90</u>

GRANT'S TOMB.

1180	Contract or Open Order Service	<u>\$7,000.00</u>
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NEW YORK PUBLIC LIBRARY BUILDING.

Contract or Open Order Service—		
1186	General Maintenance	\$60,000.00
1187	Special Repairs	27,500.00
Departmental Total		<u>\$87,500.00</u>

METROPOLITAN MUSEUM OF ART.

<i>Personal Service—</i>		
1190	Salaries Regular Employees—	
	1. Director	\$11,000.00
	2. Assistant Director and Curator of Dec- orative Art	7,500.00
	3. Secretary to Director	2,280.00
	4. Director's Assistant	2,220.00
	5. Secretary of the Museum.....	6,500.00
	6. Assistant to the Secretary	1,820.00
	7. Curator of Paintings	4,350.00
	8. Assistant	1,512.00
	9. Helper, First Grade	1,753.00
	10. Assistant Curator of Classical Art.....	3,750.00
	11. Assistant	1,512.00
	12. Assistant (9 months)	987.75
	13. Helper, First Grade	1,753.00
	14. Curator of Egyptian Art	6,000.00
	15. Assistant Curator	2,640.00
	16. Assistant	1,600.00
	17. Special Helper	2,133.00
	18. Helper, First Grade	1,753.00
	19. Associate Curator of Decorative Art ...	3,250.00
	20. Assistant Curator	5,280.00
	21. Associate Curator	2,220.00
	22. Assistant	1,200.00
	23. Assistant	1,697.00
	24. Stenographer	1,500.00
	25. Assistant	1,500.00
	26. Helper, Second Grade.....	1,647.00
	27. Seamstress	1,200.00
	28. Curator of Arms and Armor.....	6,000.00
	29. Assistant Curator	2,040.00
	30. Assistant	1,708.00
	31. Armorer (half time)	1,320.00
	32. Helper, Second Grade	1,647.00
	33. Curator of Far Eastern Art	6,000.00
	34. Helper, Second Grade	1,647.00
	35. Curator of Prints	6,000.00
	36. Assistant Curator	1,823.00
	37. Assistant	1,244.00
	38. Literary Editor of Publications	3,250.00
	39. Filing Clerk	1,720.00
	40. Assistant	1,823.00
	41. Assistant in Charge of Publicity	1,860.00
	42. Helper	1,600.00
	43. Clerk of Publications	1,708.00
	44. Assistant Clerk of Publications	1,171.00
	45. Office Boy	750.00
	46. Mail Carrier	1,444.00
	47. Head Cataloguer	2,640.00
	48. Cataloguer	1,500.00
	49. Assistant	1,500.00

50.	Assistant in Charge of Information and Sales Desk		1,982.00
51.	Assistant		1,647.00
52.	Assistant	2 at 1,244	2,488.00
53.	Assistant in Charge of Lending Collection		1,697.00
54.	Assistant		1,000.00
55.	Associate in Industrial Art		2,640.00
56.	Instructor	2 at 2,640	5,280.00
57.	Instructor		2,040.00
58.	Stenographer		1,370.00
59.	Assistant Treasurer		5,000.00
60.	Examiner		3,250.00
61.	Bookkeeper		2,040.00
62.	Clerk		1,586.00
63.	Clerk	2 at 1,200	2,400.00
64.	Clerk	3 at 1,200	3,600.00
65.	Stenographer	2 at 1,370	2,740.00
66.	Librarian		4,500.00
67.	Assistant Librarian		1,800.00
68.	Assistant in Library		1,500.00
69.	Assistant in Library		1,317.00
70.	Assistant in Library		1,200.00
71.	Assistant in Library		900.00
72.	Copyist	2 at 1,200	2,400.00
73.	Assistant in Charge of Collection of Photographs		1,982.00
74.	Assistant		1,317.00
75.	Assistant		1,200.00
76.	Helper, Second Grade		1,647.00
77.	Cataloguer		1,500.00
78.	Stenographer		1,370.00
79.	Registrar		4,500.00
80.	Clerk		2,220.00
81.	Clerk		920.00
82.	Stenographer		1,370.00
83.	Helper, Second Grade	2 at 1,647	3,294.00
84.	Packer		2,133.00
85.	Helper, Second Grade		1,525.00
87.	Assistant Superintendent		4,000.00
88.	Assistant Superintendent		2,640.00
89.	Clerk		900.00
90.	Office Boy		600.00
91.	Receiving Clerk		2,220.00
92.	Draftsman		2,640.00
93.	Clerk in Charge of Stockroom		1,982.00
94.	Clerk in Stockroom		1,464.00
95.	Photographer in Charge		2,640.00
96.	Assistant		2,040.00
97.	Maker of Lantern Slides		2,040.00
98.	Accession Clerk and Mounter		1,572.00
99.	Printer		1,464.00
100.	Printer's Assistant		1,171.00
101.	Printer's Assistant		780.00
102.	Printer's Assistant		720.00
103.	Printer; Foreman		2,280.00
104.	Pressman	2 at 1,514	3,028.00
105.	Compositor		1,525.00
106.	Assistant Electrician		2,022.00
107.	Assistant Electrician		1,500.00
108.	Helper		992.00
109.	Clerk in Office		800.00
110.	Stationary Engineer		2,400.00
111.	Engineer's Helper		1,647.00
112.	Stationary Engineer	3 for 200 days each	3,300.00

113.	Fireman		1,579.00
114.	Fireman	4 at 1,082	4,328.00
115.	Laborer		1,484.00
116.	Laborer		1,019.00
117.	Repairer and Mounter		2,400.00
118.	Helper, First Grade		1,753.00
119.	Helper, Second Grade		1,647.00
120.	Moulder of Casts		2,400.00
121.	Assistant Moulder		1,532.00
122.	Letterer		2,280.00
123.	Letterer		1,586.00
124.	Gilder		1,697.00
125.	Gilder		1,572.00
126.	Roofer		1,836.00
127.	Roofer's Helper	2 at 1,572	3,144.00
128.	Reserve Squad (Chief Attendant)		1,767.00
129.	Chief Attendant	9 at 1,697	15,273.00
130.	First Class Attendant	16 at 1,545	24,720.00
131.	Attendant ....(157 positions) \$1,211 to \$1,444, inclusive		200,263.00
132.	Attendant in Charge of Copy Room		833.00
133.	Attendant, Check Room		735.00
134.	Elevator Attendant	5 at 1,141	5,705.00
135.	Doorkeeper		1,572.00
136.	Matron	2 at 1,071	2,142.00
137.	Porter		1,141.00
138.	Chief Watchman	2 at 1,697	3,394.00
139.	Foreman, Night Force		1,545.00
140.	Watchman	6 at 1,381	8,286.00
141.	Watchman	16 at 1,255	20,080.00
142.	Helper, Second Grade		1,647.00
143.	Telephone Operator		1,697.00
144.	Telephone Operator		1,400.00
145.	Special Patrolman		1,141.00

Schedule Total \$588,272.75

Tax Levy Allowance \$264,700.00

Museum Funds 323,572.75

1191 Salaries Temporary Employees—

1. Carpenter, Painter, etc. \$110,000.00

Tax Levy Allowance \$45,000.00

Museum Funds 65,000.00

Total Personal Service \$698,272.75

Tax Levy Allowance \$309,700.00

Museum Funds 388,572.75

1192 Expenses for Other Than Personal Service—

1.	Fuel Supplies	\$24,000.00
2.	Office Supplies	4,000.00
3.	Laundry, Cleaning and Disinfecting Supplies.....	3,600.00
4.	General Plant Supplies	3,750.00
5.	Wearing Apparel	2,500.00
6.	Office Equipment	3,400.00
7.	General Plant Equipment	15,000.00
8.	Building Materials	9,000.00
9.	General Plant Materials	7,000.00

10. Repairs and Replacements	10,000.00
11. Telephone Service	1,500.00
12. Light, Heat and Power	24,500.00
13. Contingencies	3,000.00
Total	<u>\$111,250.00</u>

Departmental Summary—

Total Personal Service	\$698,272.75
Tax Levy Allowance	\$309,700.00
Museum Funds	388,572.75
Total Other Than Personal Service	<u>\$111,250.00</u>
Departmental Total	<u>\$809,522.75</u>
Tax Levy Allowance	\$420,950.00
Museum Funds	388,572.75

NEW YORK ZOOLOGICAL SOCIETY, NEW YORK AQUARIUM.

Personal Service—

1195 Salaries Regular Employees—		
1. Director		\$5,500.00
2. Secretary and Aquarist		2,160.00
3. Aquarist		2,400.00
4. Clerk		2,000.00
5. Telephone Operator		1,141.00
6. Foreman		1,823.00
7. Engineer		2,400.00
8. Engineer	2 at \$1,896	3,792.00
9. Fireman	3 at 1,561	4,683.00
10. Collector		1,561.00
11. Attendant	10 at 1,561	15,610.00
12. Attendant		1,439.00
13. Attendant		1,317.00
14. Attendant		800.00
15. Filterman	2 at 1,561	3,122.00
Total Personal Service		<u>\$49,748.00</u>

1196 Supplies—

1. Forage and Veterinary Supplies	\$3,250.00
2. Fuel Supplies	6,750.00
3. Office Supplies	180.00
4. Laundry, Cleaning and Disinfecting Supplies	250.00
5. Refrigerating Supplies	200.00
6. General Plant Supplies	650.00

1197 Equipment—

1. Wearing Apparel	300.00
2. Office Equipment	350.00
3. General Plant Equipment	1,200.00
General Plant Materials	800.00

1199 Contract or Open Order Service—

1. Repairs and Replacements	900.00
2. Telephone Service	250.00

3.	Expressage and Cartage	250.00
1200	Contingencies	150.00
	Total	<u>\$15,480.00</u>

Departmental Summary—

Total Personal Service	\$49,748.00
Total Other Than Personal Service	15,480.00
Departmental Total	<u>\$65,228.00</u>

AMERICAN MUSEUM OF NATURAL HISTORY.

Personal Service—
1205 Salaries Regular Employees—
Administration—

1.	Director	\$8,500.00
2.	Executive Secretary	5,750.00
3.	Bursar	5,000.00
4.	Registrar	4,500.00
5.	Superintendent of Buildings.....	3,300.00
6.	Chief Bookkeeper	3,350.00
7.	Stenographer	2,400.00
8.	Proofreader	2,280.00
9.	Stenographer	2,040.00
10.	Stenographer	1,920.00
11.	Curator of Geology	4,850.00
12.	Associate Curator	3,500.00
13.	Curator of Mineralogy	4,500.00
14.	Assistant	1,683.00
15.	Curator of Ornithology	5,000.00
16.	Associate Curator	3,500.00
17.	Associate Curator	2,640.00
18.	Associate Curator	2,400.00
19.	Assistant	2 at \$1,537 3,074.00
20.	Stenographer	2,088.00
21.	Stenographer	1,823.00
22.	Curator of Vertebrate Paleontology.....	5,000.00
23.	Associate Curator	2 at 3,500 7,000.00
24.	Messenger	780.00
25.	Curator of Anthropology	5,000.00
26.	Curator of Ethnology	4,750.00
27.	Assistant	1,537.00
28.	Stenographer	2,040.00
29.	Stenographer	1,464.00
30.	Curator of Ichthyology	3,200.00
31.	Stenographer	1,464.00
32.	Curator of Herpetology.....	4,250.00
33.	Assistant	1,464.00
34.	Curator of Lower Invertebrates	3,500.00
35.	Curator of Entomology	4,700.00
36.	Assistant in Coleoptera	2,112.00
37.	Assistant Lepidoptera	1,920.00
38.	Assistant	1,464.00
39.	Assistant	1,537.00
40.	Stenographer	1,464.00
41.	Curator of Library	5,000.00
42.	Assistant Librarian	2,640.00
43.	Assistant	1,332.00
44.	Reference Librarian	1,944.00

45.	Cataloguer		1,610.00
46.	Assistant		1,537.00
Public Education—			
47.	Associate Curator of Public Education....	2 at 3,500	7,000.00
48.	Assistant Curator		2,160.00
49.	Secretary		1,872.00
50.	Photo Librarian		1,464.00
51.	Assistant Photo Librarian		1,464.00
52.	Motion Picture Operator		1,500.00
53.	Information Clerk		1,500.00
54.	Stenographer		1,464.00
55.	Messenger	2 at 900	1,800.00
56.	Assistant		1,229.00
57.	Chauffeur		2,040.00
58.	Chauffeur	4 at 1,464	5,856.00
Preparation and Exhibition—			
59.	Assistant		1,537.00
Printing—			
60.	Foreman Printer		2,970.00
61.	Compositor	2 at 1,830	3,660.00
62.	Pressman		1,896.00
63.	Pressman		1,634.00
64.	Binder		1,141.00
Heating and Lighting—			
65.	Chief Engineer		4,100.00
66.	Assistant Engineer		3,085.00
67.	Assistant Engineer		2,310.00
68.	Assistant Engineer	2 at 2,174	4,348.00
69.	Fireman	4 at 1,860	7,440.00
70.	Coalpasser		1,788.00
71.	Coalpasser	3 at 1,708	5,124.00
72.	Foreman Electrician		2,460.00
73.	Electrician		1,994.00
74.	Motor Electrician		1,994.00
75.	Electrician		920.00
76.	Plumber		1,860.00
77.	Machinist		1,860.00
Repairs and Installation—			
78.	Chief of Construction		4,100.00
79.	Foreman Carpenter		2,313.00
80.	Foreman Painter		2,313.00
81.	Foreman Mason		2,313.00
82.	Foreman Machinist		2,544.00
83.	Carpenter	3 at 2,140	6,420.00
84.	Painter		2,140.00
85.	Mason		1,817.00
86.	Roofer	2 at 2,140	4,280.00
87.	Machinist		2,140.00
88.	Machinist's Helper		1,716.00
89.	Assistant		1,263.00
Miscellaneous—			
90.	Purchasing Agent		2,400.00
91.	Assistant Purchasing Agent		1,767.00
92.	Storekeeper		1,739.00
93.	Storerroom Boy		920.00

94. Office Assistant		2,160.00
95. Payroll Clerk, Bookkeeper	2 at 1,561	3,122.00
96. Bookkeeper		1,920.00
97. Billing Clerk		1,405.00
98. Office Assistant		1,610.00
99. Bank Messenger		1,537.00
100. Property Clerk		1,823.00
101. Shipping Clerk	2 at 1,610	3,220.00
102. Stenographer	4 at 1,464	5,856.00
103. Messenger		1,064.00
104. Messenger	2 at 780	1,560.00
105. Telephone Operator		1,659.00
106. Telephone Operator		1,200.00
107. Information Clerk		1,683.00
108. Custodian		2,016.00
109. Assistant Custodian		1,781.00
110. Sergeant		1,697.00
111. Sergeant	4 at 1,610	6,440.00
112. Elevator Attendant	3 at 1,537	4,611.00
113. Elevator Attendant		1,288.00
114. Attendant and Cleaner		1,610.00
115. Attendant and Cleaner	40 at 1,537	61,480.00
116. Attendant and Cleaner	5 at 1,428	7,140.00
117. Attendant and Cleaner	6 at 1,376	8,256.00
118. Attendant and Cleaner	31 at 1,288	39,928.00
119. Motor Truck Operator		1,537.00
120. Attendant, Men's Room		1,537.00
121. Matron	4 at 1,234	4,936.00
122. Watchman		1,683.00
123. Watchman	7 at 1,537	10,759.00
124. Watchman		1,376.00
125. Watchman	4 at 1,288	5,152.00
Total Personal Service		\$457,508.00
Tax Levy Allowance		\$352,280.00
Museum Funds		105,228.00

1206 Expenses for Other Than Personal Service—

1. Fuel Supplies	\$24,750.00	
2. Office Supplies	9,700.00	
3. Laundry, Cleaning and Disinfecting Supplies	3,000.00	
4. Motor Vehicle Supplies	1,750.00	
5. General Plant Supplies	4,500.00	
6. Wearing Apparel	2,500.00	
7. Office Equipment	1,000.00	
8. General Plant Equipment.....	1,200.00	
9. General Plant Materials.....	13,250.00	
10. Repairs and Replacements	4,000.00	
11. Telephone Service	2,300.00	
12. Fixed Charges and Contributions	7,500.00	
Total		\$75,450.00
Tax Levy Allowance		\$58,095.00
Museum Funds		17,355.00

Departmental Summary—

Total Personal Service	\$457,508.00
Tax Levy Allowance	\$352,280.00
Museum Funds	105,228.00
Total Other Than Personal Service	\$75,450.00
Tax Levy Allowance	\$58,095.00
Museum Funds	17,355.00
Departmental Total	\$532,958.00
Tax Levy Allowance	\$410,375.00
Museum Funds	122,583.00

BUREAU OF AUDIT.

STATEMENT OF THE CONDITION AS AT THE CLOSE OF BUSINESS
DECEMBER 31, 1927, OF ALL APPROPRIATION ACCOUNTS
FOR THE CURRENT YEAR.

Code No.	Title of Account.	Appropriations as Adjusted	Total Expenditures & Liabilities	Unencumbered Balances
1927	Accounts Other Than Personal Service.			
1101	Park Board, Contingencies	\$225.00	\$225.00	.....
1121	Forage and Veterinary Supplies.....	29,000.00	28,738.77	\$261.23
1122	Fuel Supplies	18,210.00	17,819.81	390.19
1123	Office Supplies	2,500.00	2,063.62	436.38
1124	Medical and Surgical Supplies	125.00	108.65	16.35
1125	Motor Vehicle Supplies	6,200.00	5,825.54	374.46
1126	Cleaning and Disinfecting Supplies.....	1,300.00	1,288.44	11.56
1127	Recreation Supplies	500.00	496.77	3.23
1128	Botanical and Agricultural Supplies	18,840.00	18,819.48	20.52
1129	General Plant Supplies	7,804.00	7,426.21	377.79
1130	Office Equipment	150.00	115.79	34.21
1131	Motor Vehicle Equipment	10,000.00	9,904.13	95.87
1132	Recreational Equipment	10,000.00	9,987.37	12.63
1133	General Plant Equipment	11,005.20	10,804.32	200.88
1134	Live Stock	845.20	845.20	.....
1135	General Plant Materials	35,000.00	34,865.67	134.33
1136	Repairs to Roadways and Pavements..	1,199.60	1,199.60	.....
1137	Repairs to Walks	3,000.00	2,783.00	217.00
1138	Other Repairs	8,596.00	8,292.35	303.65
1139	Motor Vehicle Repairs	600.00	597.19	2.81
1140	Shoeing and Boarding of Horses, In- cluding Veterinary Service	1,100.00	1,100.00	.....
1141	Carfare	1,400.00	1,295.03	104.97
1142	Telephone Service	2,750.00	2,750.00	.....
1143	General Plant Service	900.00	811.76	88.24
1144	Music	35,768.00	35,768.00	.....
1145	Contingencies	200.00	194.52	5.48
1180	Grant's Tomb—Contract or Open Order Service	7,000.00	7,000.00	.....
1186	N. Y. Public Library—General Main- tenance	60,000.00	60,000.00	.....
1187	N. Y. Public Library—Special Repairs	27,500.00	27,500.00	.....
1190	Metropolitan Museum of Art—Personal Service	264,700.00	264,700.00	.....
1191	Metropolitan Museum of Art—Personal Service	45,000.00	45,000.00	.....
1192	Metropolitan Museum of Art—Other than Personal Service	111,250.00	111,250.00	.....
1195	N. Y. Aquarium—Personal Service.....	49,710.00	49,709.85	.15
1196	N. Y. Aquarium—Supplies	11,512.35	11,495.73	16.62
1197	N. Y. Aquarium—Equipment	1,655.65	1,655.65	.....
1198	N. Y. Aquarium—Materials	800.00	800.00	.....
1199	N. Y. Aquarium—Contract or Open Order Service	1,400.00	1,393.63	6.37
1200	N. Y. Aquarium—Contingencies	150.00	150.00	.....
1205	American Museum of Natural History —Personal Service	352,280.00	352,026.29	253.71
1206	American Museum of Natural History —Other than Personal Service	58,095.00	58,095.00	.....
	Total	\$1,198,271.00	\$1,194,902.37	\$3,368.63

PERSONAL SERVICE.

Code No. 1927	Title of Account.	Appropriations As Adjusted	Expenditures	Unexpended Balance
1100	Salaries, Regular Employees, Park Board	\$52,493.33	\$52,493.22	\$.11
1110	Salaries, Regular Employees, Administration	75,870.58	75,848.42	22.16
1111	Salaries, Regular Employees, Parks and Boulevards	201,228.33	201,058.55	169.78
1112	Salaries, Regular Employees—Playgrounds and Children's School Farms	89,355.31	89,355.31	.....
1113	Salaries, Regular Employees, Menagerie	18,243.33	18,243.33	.....
1114	Salaries, Regular Employees, Dyckman House and Jumel Mansion.....	5,682.71	5,682.71	.....
1115	Salaries, Temporary Employees—Attendants	14,500.00	14,497.14	2.86
1116	Wages, Regular Employees, Jumel Mansion	3,827.00	3,821.50	5.50
1117	Wages, Temporary Employees—Parks and Boulevards	983,852.40	976,853.33	6,999.07
1118	Wages, Temporary Employees—Restoration of Parks	18,878.50	18,878.50	.....
1119	Wages, Temporary Employees—Maintenance of Riverside Drive, 158th Street to Dyckman Street	20,453.00	19,647.93	805.07
1120	Wages, Temporary Employees, Playgrounds and Children's School Farms	45,540.00	45,540.00	.....
	Total	<u>\$1,529,924.49</u>	<u>\$1,521,919.94</u>	<u>\$8,004.55</u>
	Appropriations, 1927	<u>\$2,728,195.49</u>		
	Expended, 1927		\$2,716,822.31	
	Unexpended Balance		11,373.18	
	Grand Total	<u>\$2,728,195.49</u>	<u>\$2,728,195.49</u>	

CITY OF NEW YORK.

DEPARTMENT OF PARKS, BOROUGH OF MANHATTAN.

STATEMENT OF THE CONDITION OF CORPORATE STOCK, SPECIAL
REVENUE BONDS AND TAX NOTE ACCOUNTS, AS AT
DECEMBER 31, 1927.

Code No. C.D.P.	Title of Accounts.	Unexpended Balances, Jan. 1, 1927	Total Expendi- tures	Unexpended Balances
3G	American Museum of Natural History, Construction and Equipment of Southeast wing and Court Building	\$106,530.65	\$50,042.85	\$56,487.80
3H	American Museum of Natural History, Plumbing, Heating, Ventilating and Electric Work and Fixtures	4,043.68	472.50	3,571.18
3J	American Museum of Natural History, Furniture and Equipment....	1,928.30	714.68	1,213.44
3L	American Museum of Natural History, Construction and Equipment of School Service Building	16,123.96	9,017.85	7,106.11
3M	American Museum of Natural History, Construction of intercommunicating passageways	5,319.00	3,400.00	1,919.00
3P	American Museum of Natural History, Improvement to existing building	10,000.00	.....	10,000.00
3Q	American Museum of Natural History, additional equipment for existing building	20,000.00	5,745.74	14,254.26
3S	American Museum of Natural History, General construction work in existing buildings	16,972.11	10,089.19	6,882.92
3T	American Museum of Natural History, Equipping School Service Building	111,174.90	99,962.94	11,211.96
	Construction of an additional story to Aquarium Building in Battery Park	1,219.70	.....	1,219.70
4B	Plumbing, heating and interior equipment for additional story to Aquarium Building in Battery Park	2,771.00	1,457.88	1,313.12
11B	Resurfacing West Drive System south of 102d Street and Construction of Permanent Pavement on Gravel Drives, Central Park	2,273.42	2,273.42	.....
61A	Metropolitan Museum of Art, Completion and Equipment of Extension "H"	480.00	.....	480.00

SPECIAL REVENUE BOND ACCOUNTS.

Metropolitan Museum of Art, Completion of South Wing (Additions "J" and "K") interior construction and finish	292.02	280.75	11.27
Metropolitan Museum of Art, Completion of South Wing (Additions "J" and "K," exhibition cases, furniture and equipment and the replacement of equipment transferred to South Wing (Additions "J" and "K") from other parts of the Museum Building	30,073.78	30,038.12	35.66
Metropolitan Museum of Art, Construction of cases	3,532.67	3,532.67	.....
Total	<u>\$332,735.19</u>	<u>\$217,028.77</u>	<u>\$115,706.42</u>

Code No. R.D.P.	Title of Accounts.	Unexpended Balances, Jan. 1, 1927	Authori- zations during 1927	Expendi- tures	Unex- pended Balances
23G	Renewing and relocating Smoke Stack on American Museum of Natural History	\$251.40	.....	\$251.40	.....
24	Making General Repairs to Gracie Mansion in Carl Schurz Park	12,515.36	.....	11,989.00	\$526.36
24A	Care of Riverside Drive from 158th Street to Dyckman Street, Personal Service....	578.00	.....	578.00	.....
25	Making Repairs to and waterproofing the Soldiers' and Sailors' Monument in Riverside Park, 189th Street, Manhattan .....	.....	\$25,000.00	.....	25,000.00
	Total	<u>\$13,344.76</u>	<u>\$25,000.00</u>	<u>\$12,818.40</u>	<u>\$25,526.36</u>

TAX NOTE FUNDS.

Code No. N.D.P.	Title of Accounts.	Unexpended Balances, Jan. 1, 1927	Authori- zations during 1927	Expendi- tures	Unex- pended Balances
3F	American Museum of Natural History, Improvement and Equipment	\$1,616.50	.....	.....	\$1,616.50
3R	American Museum of Natural History, Cases and Plant Equipment	54,371.14	.....	\$34,608.99	19,762.15
3V	American Museum of Natural History, Purchase of Folding Chairs .....	.....	3,964.10	.....	\$3,964.10
4C	Completion of Reconstruction of Aquarium Building, Battery Park	13,708.69	.....	12,553.15	1,155.54
39G2	Repaving Walks in Central and City Parks	125.86	.....	.....	125.86
39G3	Paving and Repaving Walks in City Parks	16,871.20	.....	9,583.32	7,287.88
39M	Construction of Driveway in Central Park from where 6th Avenue now ends at 59th Street to Existing Centrally Located Park Drive	2,029.22	.....	2,014.13	15.09
48D	Change in Roadway of Riverside Drive from 96th to 98th Streets	4,000.00	.....	3,887.60	112.40
75D	Laying New Walks, Surfacing and Sodding Lawns and otherwise improving Harlem River Driveway and High Bridge Park	58,601.36	.....	57,307.77	1,293.59
75E	Improving of High Bridge Park Playground, 175th Street and Amsterdam Avenue	17,440.00	.....	.....	17,440.00
75F	Harlem River Driveway and High Bridge Park, construction of bulkhead, balustrade, walks and general improvements	94,623.62	.....	88,847.16	5,776.46
99	Construction and Equipment of two Comfort Stations, laying of asphalt walks, sewer connection and all work incidental thereto, adjacent to the bandstand on the Mall in Central Park....	3,837.97	.....	3,263.41	574.56
99A	Reconstructing Bridle Path in Central Park	750.74	.....	.....	750.74
99B	Central Park, reconstruction and improvement of the portion lying between 59th and 65th Streets	12,121.49	.....	11,437.48	684.01
99C	Completion of Quarters in Arsenal Building for use of Park Board	4,000.00	.....	3,060.00	940.00
102	Developing and Improving Inwood Hill and Fort Washington Parks	228.17	.....	.....	228.17
102A	Construction and improvement of Fort Washington, Inwood Hill and Isham Parks	46,595.92	.....	34,438.72	12,157.20

Code No. N.D.P.	Title of Accounts.	Unexpended Balances, Jan. 1, 1927	Authori- zations during 1927	Expendi- tures	Unex- pended Balances
103	Improvement of Parks located at Hamilton Place, between West 140th Street and West 141st Street as a model playground, including equipment	5,665.22	.....	5,015.98	649.24
105	Construction and Equipment of a Comfort Station, Washington Square Park	35,000.00	.....	7,564.71	27,435.29
106	Repaving Walks of Riverside Park, 135th to 158th Streets	10,266.32	.....	4,351.58	5,914.74
107	Improvement of Centre Park Plots on Broadway, between West 137th and West 138th Streets, West 147th and West 148th Streets, West 151st and West 152d Streets and West 166th and West 167th Streets	395.15	.....	.....	395.15
108	Building and installing permanent benches along Riverside Drive and 135th Street and from 165th Street to Dyckman Street and in Shelter House at Inspiration Point	16,221.60	.....	7,400.00	8,821.60
109	Planting Trees in various Parks	1,644.72	.....	1,163.51	481.21
110	Erection and Equipment of Comfort Station in Carl Schurz Park	24,890.84	.....	24,331.31	559.53
112	Reconstructing Pavement and Coping surrounding Grant's Tomb .....	.....	30,000.00	20,115.33	9,884.67
113	Construction of Retaining Walls along Transverse Roads of Central Park .....	.....	17,000.00	5,632.72	11,367.28
113A	Rehabilitation of Central Park .....	.....	95,617.33	86,203.61	9,413.72
113B	Removal of dead trees in Central Park .....	.....	40,367.20	37,103.00	3,264.20
113C	Special Engineering and Landscaping Services to make complete survey of Central Park, in connection with its rehabilitation .....	.....	5,000.00	3,000.00	2,000.00
114	Setting back vaults at N. Y. Public Library, Bryant Park, in connection with widening of West 40th Street .....	.....	12,500.00	10,875.00	1,625.00
	Total	\$425,005.73	\$204,448.63	\$473,758.48	\$155,695.88

FINANCIAL STATEMENT.

REVENUES—1927.

Fees for Privileges	\$82,009.89
Fees for Motion Pictures	132.00
Fees for Lawn Tennis Permits.....	8,137.00
Inspection Fees	52.00
Damage to Departmental Property (Collections)	1,214.00
Zoological Garden Fund (Collections)	1,945.93
Interest on Bank Deposits	119.20
Deposits for Tree Planting	650.00
Deposits for Street Openings, etc.	1,650.00
Fees for Overhead Sheds	48.00
Fees for Vaults	292.00
Fees for Deposit of Fill	2,000.00
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Total Collections—Year 1927	\$98,250.02
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Amount remitted to Chamberlain, City of New York.....	\$98,250.02
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DEPOSITS ON HAND.

On Account of Employees' Badges—			
On Hand December 31, 1926	\$980.65		
Receipts	19.50		
	<hr/>	\$1,000.15	
Refunds		15.85	
		<hr/>	\$984.30
On Hand December 31, 1927			
On Account of Attendants' Badges—			
On Hand December 31, 1926	\$64.50		
Refunds .....	.40		
	<hr/>		
On Hand December 31, 1927			64.10
On Account of Foreman's Badges—			
On Hand December 31, 1926	\$44.00		
Receipts	1.25	\$45.25	
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Refunds		1.25	
		<hr/>	
On Hand December 31, 1927			44.00
On Account of License Tags—			
On Hand December 31, 1926	\$290.00		
On Hand December 31, 1927			290.00
			<hr/>
Total on Deposit December 31, 1927			\$1,382.40
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