

Yet to the people of Buffalo as a body, the matter of the parkway is one of really trifling consequence compared with that of the park. The explanation of the more active interest apparent in the parkway, we understand to be this:—

The value of real estate in the southern outskirts of the city is much less than in the northern outskirts. The degree in which it is so, is largely due to the fact that between these southern outskirts and the main body of the city, there is a district so crossed by railroads, creeks, canals and swamps, that communication across it by ordinary street conveyances can only be had in a way which, to those who have not become habituated to it, is frightfully perilous, besides being extremely tedious and disagreeable. At times, even such communication as has been thus characterized, is impossible because of floods.

If a single road could be made which by sufficient causeways and bridges on almost any line would provide good, safe passage across this intermediate district, all property over a large space to the southward of it would be greatly benefited. But as the law stands, the cost of making such a road would not be distributed among all, or even any large number, of those to be thus specially benefited but would be concentrated upon the owners of property abutting upon it. If, however, a road of precisely the same character were to be made with a purpose more especially of giving general access to a park, and which was, therefore, to be classed as a parkway, according to a precedent established when the North Park was laid out, one-half its cost would be defrayed by general taxation. The nature of the great interest felt in this possible element of the Park project and the manner in which conflicts of interest have occurred in respect to the possible routes for a parkway is easily seen.

It is generally recognized that when the cost of any important public improvement is too great to be borne by those more immediately interested, it must be borne, in a greater or less degree according to circumstances, by the larger community interested less directly. Thus most public improvements within a city are to be roughly divided into the two classes of local and general affairs.

Large public parks have been generally regarded as institutions of the latter class. In our opinion rightly so. Accordingly we have not advised that, because there is already a park at the north end, in undertaking a new park for the city of Buffalo, a place should be found for it at the south end. We have recommended a site at the south end because an advantage can there be secured, that cannot be had in any other place—an advantage which will inure to the benefit of all the people of the city, the people of the north as well as of the south. A part of the advantage consists of the command from it of an unobstructed and unobstructable view of the great free expanse of Lake Erie; part in the comparative economy with which certain unusual and interesting types of refreshing rural landscape can be provided in it; and part in the circumstance that passage can be had to it by boat and rail in a few minutes, at small cost, from three populous quarters of the city. These we hold to be controlling considerations. The consideration that it will benefit the real estate of a section of the city that has been enormously injured by the building of railroads, and that, although it has been taxed for the construction of the North Park, receives comparatively little benefit from it, is a matter for congratulation, but it is not a reason that should be allowed much weight in the selection of the site.

But now the question comes: — Does the same rule apply to the location of parkways?

The parkways stretching out from the North Park may be taken as a sufficient illustration of what, in this discussion, is to be understood by the term parkways. They plainly serve, not simply as branches or outworks of the park with which they connect but as a part of the general street system of the city. Streets of similar character much used for pleasure driving and as public promenades, having no connection with a park, are to be found in many of our cities. Euclid street in Cleveland is a notable example. Why, then, should it be expected in Buffalo that the Park Commissioners will take the duty of laying out this particular class of streets? The answer to this question is that the Park Commissioners have the duty of providing for the wants of the people in respect to open air refreshment. With this duty they have to choose ground for a park which because of natural circumstances is adapted to the purpose. But suppose such ground to be so situated that access to it for the greater part of the people of a city by existing streets would be inconvenient, fatiguing and unpleasant to that degree that it would hardly be compensated by the refreshment that they would obtain while in the park. In that case it becomes the duty of a Park Commission to consider and advise the city what improvement of its street system may desirably be undertaken in order to make the proposed park more valuable to its entire people. Out of this duty grows that class of public streets properly called parkways.

If this reasoning is sound, parkways are not to be dealt with on the principle that they are local affairs any more than the parks with which they connect. They are to be laid out primarily even with less regard for people who are to live in

quarters of the city near the park than for those at a distance, because the fatigue and inconvenience of an approach to the park independently of any new ways to it would be of much less consequence to those living near it than to the main body of citizens.

If any to whom this question is of special importance entertain the idea, as some appearing before you have seemed to do, that in the laying out of the Northern Parkways a different view from that here expressed was taken, they are mistaken.

The site of the North Park was chosen as that in which, better, beyond question, than any other not much further from the city, a park of high character as a whole could be made within certain limits of expenditure. At the moment its advantages in this respect were seen, certain disadvantages were also seen. There was no moderately direct and agreeable way by which the great body of people of the city would be able to get to it. The lack of any such way was especially obvious from those quarters of the city on the east and west, toward which the city was most rapidly growing. There was no way, and no prospect of a way of getting to the Park, either from these quarters or from its existing centre of population by boat or rail. This consideration led to an incorporation with the scheme of the Park, of a system of special approaches to it. The suggestion of it came from no one locally interested. It came from no citizen of Buffalo, but from the professional designers consulted, and knowledge of it was first had by the gentlemen with whom the project of the park originated, at a meeting held at the house of the present President of your Board, in the hearing of the Mayor, of the Common Council and of representatives of the press, specially invited to attend.

The routes suggested for these parkways were chosen solely with the purpose of providing the most convenient, practicable access to the park, from points likely to be central to the greatest number of the people, and they were laid down between the two ends of the park and those points, as directly as they could be with due regard to existing improvements, and to plans before substantially determined of streets, sewers, and other public conveniences. There were no formidable difficulties in the way of taking the courses theoretically the best for the purpose. The land to be passed over was high and dry. There were no railroads to be crossed, no canals, no streams or morasses. There were no serious difficulties of sewerage or drainage to be dealt with.*

The question of special approaches to the South Park will be a very different one. In a report addressed to you in April, 1887, we pointed out, for example, the serious objections that, having regard to the general and lasting interests of the city, appeared to each of the several routes for a parkway that had then already been urged in rivalry upon you. The most important of these objections was that, in each case, a number of costly constructions would be required for passing railroads, yet that no confidence could be had that what should be done for this purpose would long be of public value. No confidence, indeed, that any constructions you might make would not, before many years, stand much in the

* A change was made in the line on the east side by the Legislature, to meet the wishes of people living, as we are told, from a mile to two miles away from the park. Mr. Vaux and I thought the change undesirable, but did not consider that it antagonized the motives of our design. The prolongation of Fillmore Avenue by a grade crossing over railroad tracks, was no part of our plan, and there is no propriety in calling it a parkway.

way of measures of even greater public importance than the park and parkway schemes, such as a consolidation of the railroad approaches to the city, and such as a comprehensive drainage system for the Thirteenth ward.

We then gave it as our opinion that, until the city was prepared to at least fix upon the general principles of a comprehensive plan for laying out streets and determining grades with special reference to difficulties of crossing lines of railway and to difficulties of sewerage and drainage, the lines and grades of a costly parkway could not be wisely determined.

Since then, steps have been taken looking toward a comprehensive plan of the character suggested, the state and city governments, the railroad corporations and committees of citizens having co-operated in procuring a report of a Board of Civil Engineers of which your City Engineer and Assistant City Engineer were members, which report advises various measures bearing upon that end.

Before considering in what way this proposed scheme affects the parkway problem, the question may be considered whether the essential object which gives your Commission occasion to debate the subject is to be best accomplished, as has hitherto been assumed in all discussion of it, by a road extending from the South Park to Fillmore Avenue?

As to this question, those who have any knowledge of local topography, after a little study of the map, will be satisfied of three things:

First, that on a moderately direct course from the park to a point north of the railroads on Fillmore Avenue, the difficulty and cost of passing railroads otherwise than on grade would be greater than on any course materially further to the westward.

Second, that for the great body of the people of the city, probably nine-tenths of all at present, and a large majority of all for fifty years to come, an approach from their dwellings to the South Park by way of Fillmore Avenue would be less direct than an approach on any course that could be well laid down to the westward of it.

Third, that having regard to incidental benefits to the land owners of the 13th ward as a body, a broad and convenient highway passing clear of railroads, through the central parts of the ward towards the central parts of the city, would be of much more value than such a road passing from the park toward the eastern outskirts of the city.

These points in the matter being recognized, let it now be considered how the arrangements proposed by the Board of Engineers affect the question.

With regard to the region that would be crossed by any moderately direct road between Fillmore Avenue and the South Park, the Engineers say that a separation of grades of streets and railroad tracks within it must be anticipated as a necessity of the more or less distant future, but is not immediately necessary.

"At many points the separation of grade can be effected," they observe, "by raising the tracks and taking sags therein. At other points the streets should be depressed and the tracks be left undisturbed; at other points both the streets should be depressed and the track raised." In the terms thus quoted, it will be seen that they regard the question as a specially complicated one, a plan for the settlement of which cannot at this time be profitably worked out.

But with regard to the district further west, the Engineers say that "there is evident necessity for speedy action." They accordingly present, with reference to this region, more definite propositions, and although their report does not, in the case of every present railroad crossing, state precisely how the desired end would be accomplished, it does appear that from the heart of the city nearly as far east and south as the crossing of the creek by Abbott's Corners Road they think necessary and practicable, and they advise an immediate treaty between the city and the railroads, as the result of which there will speedily be a system of city streets passing over or under railroads, throughout the district.

The negotiation in detail of such a treaty is understood to have been several months in progress, and we have been hoping that it would be concluded before the necessity of further reporting to you on the parkway question should arrive.

Without waiting further for it, we may reasonably assume that an arrangement will, sooner or later, be settled upon, under which it will be practicable to pass by a not excessively indirect or cramped way, clear of railroads, from the heart of the city to a point near the crossing of the creek by Abbott's Corners Road, and that this will be done quite irrespective of the park question.*

If then, what you, as Park Commissioners, want is to make sure of a good road by which a carriage can be driven to the South Park from a point on an average nearest to the homes

* While this report is passing through the press, it is announced that the negotiations have failed. The fact makes the Engineer's Report no less significant as to what is desirable and, with more or less delay, probable. It is impossible that its leading principle should not be adopted. The present state of things cannot long be endurable.

of your entire population, you need only consider what lies in the way of it between the place named and one of the entrances of the park.

Before proceeding, however, to work out a plan for such a road, a clear understanding should be secured of the advantages of access by rail to the South Park which are already essentially provided, not only for those dwelling near the heart of the city, but to those dwelling in quarters far to the east and west of it, toward which there is now the most rapid and sure progress of house building.

Especially it should be realized that one steam railroad line from the eastern quarter connects with another from the western quarter, at a point which is but ten minutes' walk from the centre of population of the whole city; that there are several lines of street railroad from intermediate districts, by which the same point can be approached, and that from this converging point there is a line of steam railroad leading in a nearly straight line to the nearest point at which the South Park can be entered. This advantage, added to those of access to be provided by steamboat, makes directness and amplitude of approach to the South Park by ordinary carriages a matter of no pressing importance to the people of any part of the city. Make the best approaches for carriages that you possibly can, even with lavish outlay; even make a number of them radiating from the South Park to all quarters of the city and it would be extremely unlikely that a tenth part of those resorting to the South Park for recreation would make any use of them.

What you as Park Commissioners, acting impartially in behalf of all those who may wish to drive to and from the

South Park, can reasonably suggest to the city, we believe to be this:—

That from the point on the southern border of the district within which the city may be expected, as the outcome of movements now in progress, to speedily provide for streets clear of railroad tracks, one broad thoroughfare should also be speedily provided by which the remaining obstacles would be bridged to a safe passage from the central parts of the city, not only for pleasure carriages going to the South Park, but for all ordinary street traffic between the central parts of the city and the country to the southeastward of the point of departure.

As to the plan and courses of this thoroughfare we advise that it be given the general character of Fillmore Avenue; that its breadth be nowhere less than ninety nor more than a hundred and twenty feet; that its centre line shall follow the centre lines of Abbott's Corners Road, Triangle Street, White's Corners Road and Ridge Road to the entrance to the park at Hamburg turnpike shown on our design-map.

Among the reasons favoring this proposition are these:—
By no other route less indirect would the borders of the road, for years to come, be as pleasing. By no other, less indirect, would the difficulty of drainage and of forming a good road bed be as little important. By no other, less indirect, would as many dwellings of the people of the Thirteenth Ward be closely approached. By no other would a common artery of travel be provided equally central to the Ward, or which by lateral branches would as well accommodate the larger number of the people of the Ward not living directly upon it. By no other is the co-operation of the abutting property-owners in the construction of a permanent roadway as likely to be obtained.

The reason for proposing so wide a margin of breadth in the thoroughfare, is that a wise discretion may be exercised by your Commission in adjusting lines for wheelways, gutters, planted borders and sidewalks to certain of the existing trees already irregularly planted along the sides of the present roads, some within, some without the fence lines.

It is understood that the owners of land adjoining the present roads proposed to be followed, are willing to enter into an agreement under which the city would acquire the land needed for the operation without cost.

In our opinion, a parkway better adapted than such an one as we have thus advised to serve the general interests of the whole body of the people of the city, cannot at present be discreetly laid out in connection with the South Park. At the same time it is our opinion that no other route for a parkway, would incidentally as soon and as much benefit the whole body, on an average, of the residents and land owners of the Thirteenth Ward.

This is all that we have to advise in respect to approaches to the South Park, to be so soon put under construction that early consideration should be given to legislation with respect to them.

But we cannot think that in recommending legislation for this measure, the duty of your Commission in respect to the question of parkways will be fully done.

On one of its margins Buffalo is beginning to be built out upon a flat region with no constant drainage outlets; often water-soaked to the surface; more or less swampy and at times completely overflowed. The tendency to build in this

direction has greatly increased of late years. It will be much accelerated by the intended improvements to be made by the city in co-operation with the railroads and by the development of the grand commercial undertaking, now far advanced, of the Lehigh Valley Railroad Company. Foundries, factories, storerooms, coal docks, lumber yards, shipyards, and the like will be established, and not far from them, nor long afterwards, there will be dwellings for those employed in them and shops for supplying their domestic wants. As long as such progress of building continues without the adoption of comprehensive, systematic, scientific measures for providing drainage and sewerage outlets; for determining the courses and grades of streets, and for the regulation of building upon and between them with reference to drainage and sewerage, another great evil will be growing upon the city; an evil that like the present railroad evil will in time become intolerable. It will be brought to an end, if not sooner, when the whole city is in mourning and its business suspended because of disease of which this region will have been the propagating ground. The longer the task of fixing upon, at least, a skeleton scheme of preventive measures is put off, the more difficult it will be to plan them, the more difficult to secure the adoption of a plan, and the greater the cost both to citizens personally and to the city as a whole, of carrying it out. The necessary cost of soon preparing a plan under which there will be the minimum of evil and the minimum of inconvenience attending the growth of the city southward, is infinitesimal compared with the cost that will result from a long delay in preparing, adopting and enforcing it.

The cost of carrying it out is another matter. If not too long delayed, the plan once adopted, the carrying out of the City's part in it would not necessarily proceed faster than its

building of streets and sewers upon incomprehensive, im-provident, scrappy and time-serving plans. The value of the comprehensive plan and of regulations requiring conformity to it, would be that citizens would be prevented by it from proceeding individually to build, in a manner which would add egregiously to the cost of the work which the city would ultimately have to do.

Under these circumstances your Commission ought not to proceed upon the assumption that the city will for many years neglect to provide that such progress as may occur in building over the low country, shall be upon a well considered and provident system.

In devising the skeleton lines and grades of such a system one of two ways must be had in view for discharging drains and sewers. The surface of the land as it stands is much too low for suitable outlets into the creek or the lake. To obtain outlets there must either be a large filling to bring up the grades of all streets, and the lower floors of houses must be set several feet above the present surface, or the whole region must be defended from overflows by a levee, and its sewerage and drainage be removed by pumping in the well-known manner adopted by the cities of Holland. Between these two methods that one must be expected to be adopted which on the whole will be least costly.

With reference to this question of comparative cost your City Engineer has, during the last summer, at our request, made surveys and calculations, with results stated in passages from a communication to us which we here quote :—

“After a careful survey of the Thirteenth Ward relative to a permanent plan of development of that part of the city,

for drainage and shore protection, I would advise a general system of diking, rather than raising the level of the land by expensive filling. The difference in cost between these two plans is so great that diking and interior pumping recom-mends itself. My plan would be to dike the northerly and westerly boundaries of the ward, running along the westerly boundary on the lake and on the northerly portion from the lake running along the line of the B. C. R. R. improvements. By this plan it would be necessary to establish one or two pumping stations to carry the street and house drainage to sewer outlets, provided or to be provided, at a higher ele-vation.

“To raise the present surface of the lowlands of the ward to a height (*minimum to an extreme degree*) of three feet would cost \$1,050,000. To build dikes on the north and west sides of the ward and establish pump stations would cost \$355,750. So far as street and house drainage is concerned, local, the cost will be about the same in both cases. I feel that the city or the owners of lands in the Thirteenth Ward should not adopt the plan of filling in order to obtain natural drainage, as artificial, by means of diking and pumping is so much cheaper.

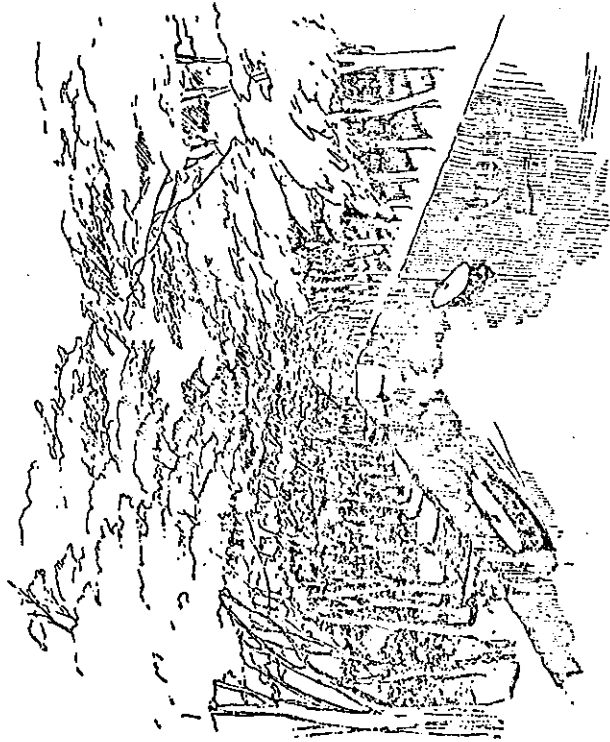
(Signed)

“GEO. E. MANN,

“Engineer.”

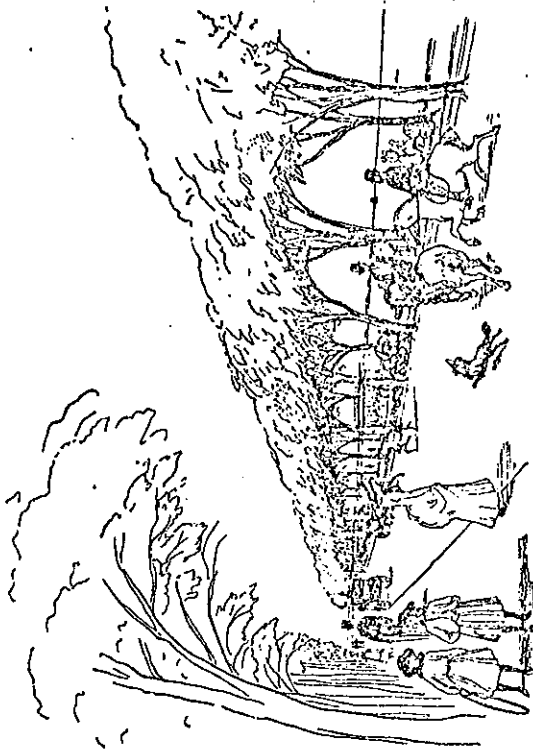
The line of the dyke or levee had in view by Mr. Mann, would vary little from the old line of the Hamburg turnpike from the point where it crosses the Lehigh Valley Company's ship canal to the point where, in our plan, it enters the South Park. The levee already made by the Lehigh Valley Company would form a part of it, and the other part would be of similar construction. The short levee along the lake

shore that we have proposed as a necessity of the park, would also form a part of it. The Hamburg turnpike abreast of the Lehigh Valley property, is now carried on the company's embankment. Make the levee broad enough, and you will have upon it a site for a parkway continuous to the South Park, from the street had in view in the report of the Board of Engineers, between the heart of the city and the north end of the Hamburg turnpike.



To obtain a part of the material required, the least costly process would be that used by the Lehigh Valley Company, namely, to dredge a canal on the eastern side of the line of road, and form the levee of the material (a stiff clay), that would be excavated, lifted and carried to the place by the steam power of the dredge boat. Plantations having been grown on the borders of the canal, there would, by this process, have been prepared a pleasant water-avenue, providing

a direct inside passage for boats between the park and the lower wharves of Buffalo Creek. The western slope of the levee would be everywhere washed by the waters of the lake, and in passing along the parkway upon it, the full expanse of the lake, clear to the horizon, would be open to view. It would thus form a superb promenade, and as it would be



crossed by no streets, but be bordered by a belt of wood on one side and by the lake on the other, it would in effect bring the park a mile and a half nearer the city; that is to say, within two miles of the City Hall.

At some time not so dimly in the future that consideration of the wants of the city when it arrives should now be indefinitely put off, more direct and spacious parkways than we have thus far suggested will certainly be desirable east of the railroads. It would plainly be prudent, also, for the city to acquire one or more sites for local recreation grounds—

spaces, say, of from five to twenty acres—in the eastern part of Ward Thirteen.

Here is a region within the city limits as at present defined, over which suburban building is already advancing, in spite of the barbarity of a great number of deadly grade railroad crossings, within which no provision has as yet been made for a single open space. In an area of half the same extent of the more compact part of the city there have been provided eight open places and local pleasure grounds. Get the better of the railroad difficulty; get a suitable street plan, and there will soon be a large population here.

We have found two sites upon either of which, after proper drainage arrangements for the eastern part of the Thirteenth Ward have been determined, could at small expense be made better local recreation grounds than any the city now possesses—large enough to give the school children of the district a playground and invalids an airing ground.

With respect to additional parkways, we have to propose three short lines. It is not desirable that they should be formed in advance of a general street plan, because only as the result of comprehensive study of a general street system could their grades or their crossing of railroads be safely determined. But even at this time your Board may well suggest them.

One would supply a more direct approach to the east end of the South Park from the central parts of the city than that which we have advised to be soon constructed by way of White's Corners and the Ridge Roads. Abby Street will form a suitable and probably the best line for this parkway for a distance of a mile and a half from the park. At the point that would then be reached difficulties with railroads begin, which it is not unlikely will disappear before any

general public utility will be served by the parkway. If they should not disappear then, by a slight deviation from a continuous direct line, at a distance of a quarter of a mile junction may be made with the parkway we have advised on the line of Abbott's Corners Road. Thence the way will be clear to the heart of the city.

If a small park should be determined on in the eastern part of Ward Thirteen, at either of the sites to which we have referred as offering advantages for the purpose, a branch from half to three quarters of a mile in length, of the parkway on the line of Abbott's Corners Road would offer direct access to it from the central parts of the city. There would be no railroad crossing needed and the ground is comparatively favorable for its economical construction. Another short branch-parkway will be desirable whenever a bridge shall be thrown over the railroad tracks as contemplated on our plan for the South Park. It would leave the line of the proposed parkway on the White's Corners Road at the junction of Marilla Street and follow the line of Marilla Street to the bridge. The distance is about three quarters of a mile.

Our advice as to each of these short parkway projects is, that an intention to adopt it as a part of the parkway system should be formed and made public, but that further action should be suspended until such time as the preparation of a general street, sewer and drainage system for the Thirteenth Ward shall be determined upon.

As to the proposed local park for the eastern part of the Thirteenth Ward, we recommend that that one of the sites to which we have referred, which can be bought lowest, be acquired for it as soon as practicable, it being probable that if this is not done, the special value of each for the purpose will soon be destroyed. We have examined the picce of

APPENDIX.

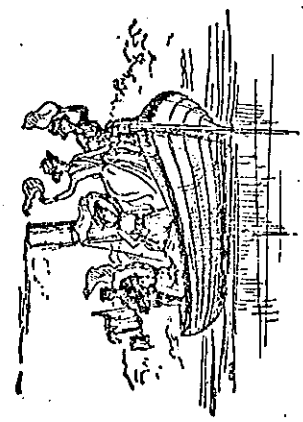
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ground offered to be presented to the city, on condition that it shall be made a park. It is not well adapted to the objects of a local park, and much better sites being available near by, could not be suitably improved except at extravagant cost.

In closing this report, we cannot too strongly express our obligations to your superintendent, Mr. McMillan, for, the zeal he has used and the great personal trouble to which he has willingly been put, in obtaining the local information we have desired, and for the wise counsel we have constantly received from him. More than one important element of our plans originated with him.

Respectfully,

F. L. & J. C. OLMSTED,
Landscape Architects.



PARTICULARS OF PRELIMINARY ESTIMATE FOR CONSTRUCTION OF PROPOSED SOUTH PARK.

Excavation, 520,000 cubic yards, at 30 cents,.....	\$156,000.00
Graveling shores,.....	7,500.00
Graveling Athletic Ground,.....	2,500.00
Road making, 63,000 square yards, at \$1.00,.....	63,000.00
Road gutters, 12,000 linear feet, at 60 cents,.....	7,200.00
Road curbing, 12,000 linear feet, at 50 cents,.....	6,000.00
Walk making, 65,000 square yards, at 50 cents,.....	32,500.00
Catch basins, 28 at \$50.00,.....	1,400.00
Drain pipe, 3,000 linear feet, 6 inch, at 35 cents laid,...	1,050.00
Drain pipe, 2,200 linear feet, 8 inch, at 50 cents laid,...	1,100.00
Drain pipe, 5,800 linear feet, 12 inch, at 75 cents laid,...	4,350.00
Conduit supplying bathing pool, 600 linear feet, at \$2.00 laid,.....	1,200.00
Water pipes, 10,600 linear feet, 4 inch, at 45 cents laid,	4,770.00
Water pipes, 5500 linear feet, 1½ inch, at 30 cents laid,	1,650.00
Pump, tank, windmill, etc.,.....	3,000.00
Hydrants, 6 at \$50.00,.....	300.00
Water troughs, 2 at \$150.00,.....	300.00
Drinking fountains, 20 at \$25.00,.....	500.00
Bathing house and shelter,.....	25,000.00
Administration buildings,.....	17,000.00
Picnic refectory,.....	20,000.00
Athletic refectory,.....	5,000.00
Large boat house,.....	2,000.00

(17)

Small boat houses, 5 at \$1,000.00,.....	5,000.00
Piers and dredging,.....	50,000.00
Bridge under Hamburg turnpike,.....	15,000.00
Foot bridges, 4 at \$1,000.00,.....	4,000.00
Lock, haven bulkheads, floats, etc.,.....	12,816.00
Protecting shores, 500 feet, at \$15.00,.....	7,500.00
Cultivating, including finishing grading, manuring, trenching, raking, seeding, rolling, etc., borders along shores and walks and patches too small for plow, 24 acres, at \$600.00,.....	14,400.00
Cultivating, where it can be done by plow and harrow, 100 acres, at \$200.00,.....	20,000.00
Planting street and other good sized trees, 500, at \$2.00, Planting, elsewhere,.....	1,000.00
Fencing, 13,200 linear feet, at 50 cents,.....	15,000.00
Electric lighting and police signal system,.....	6,600.00
Outfit, (implements, etc.).....	13,000.00
Water supply conduit from Cazenovia Creek,.....	10,000.00
Gate house and weir,.....	24,000.00
Engineering and contingencies, ten per cent.,.....	2,000.00
Total,.....	\$620,000.00

B.

AREAS, DISTANCES AND MEASUREMENTS.

Area of park proper, including one walk and one planting space of street bounding park on north, the street along the eastern bound- ary, and the lane on the southern boundary from Hamburg turnpike to the shore,....	242 acres
Area of Rifle Range,.....	85 "
Area of The Green,.....	20 "
Area of Athletic Ground,.....	2.3 "
Area of large picnic island,.....	20.3 "
Area of three smaller picnic islands,.....	5.8 "

Area of bathing beaches,.....	6. acres
Area of buildings,.....	2. "
Area of drives,.....	13. "
Area of walks,.....	13.5 "
Area of upland not included in items above,...	74.6 "
Area of sedge land,.....	3.5 "
Area of bathing pool,.....	2.5 "
Area of other water,.....	78.5 "
Area of peaty ground to be excavated,.....	75. "
Length of drives in park,.....	1.6 miles
Length of walks in park,.....	7.8 "
Length of centre line of main channel,.....	2.1 "
Length of round trip of boats,.....	3.9 "
Length of shore line, main land,.....	4.2 "
Length of same, including planted islands,.....	8. "
Length of water mains,.....	10,600 feet
Length of water branch pipes,.....	5,500 "
Length of drains to catch basins,.....	11,000 "
Length of water supply conduit from Cazenovia Creek,.....	11,600 "
Length of main pier,.....	800 "
Length of running track,.....	1/4 mile
Length of shore parkway north of park,.....	2 miles
Distance from City Hall to Park by shore park- way,.....	4 miles
Distance by parkway on line of Abby street,...	4.6 "
Distance by parkway on line of Abbott's Corners, White's Corners and Ridge Roads,.....	8 "
Amount of rough excavation not including outer haven nor conduit,.....	520,000 cubic yards

1875.

AREA OF PARK LANDS.

	Acres.	Acres.	Acres.
Park Lake,	46½		
Park Lands bordering the Lake,	74½		
"Water Park" (all west of the Stone Arch),	121¼		
Park Meadow (all inside of Circuit Drive),	122		
Park Lands bordering on the Meadow,	107¼		
"Meadow Park" (all east of the Stone Arch),	229¼		
Total area of the Main Park,	350½		
Parade Ground (all inside Circuit walk),	19½		
Parade Lands (exclusive of Parade Ground),	36½		
Total area of the Parade Park,	55½		
Front Play Green,	7½		
Front Terrace Concourse,	3½		
Front, exclusive of Green and Concourse,	20½		
Total area of the Front Park,	31½		
Niagara Square,	5		
Prospect Hill Parks,	7½		
North Street Circle,	4½		
Bidwell Square,	5½		
Chapin Square,	5		
Soldier's Place,	8½		
Agassiz Place,	4½		
Total area of Small Parks,	40½		

	Acres.	Acres.
Humboldt Parkway, 9,405 ft. long,	43½	
Bidwell Parkway, 2,323 ft. long,	10½	
Chapin Parkway, 1,904 ft. long,	8½	
Lincoln Parkway, 1,695 ft. long,	7½	
Total area of the Parkways (each 200 feet wide),	70½	
Fillmore Avenue, 11,097 ft. long,	25½	
The Avenue, 6,277 ft. long,	15½	
Porter Avenue, { 3,480 ft. x 100 } { 975 ft. x 50 }	9½	
Total area of the Avenues (each 100 feet wide),	50	
Total area of all the Park Lands,	598½	

DISTANCES FROM SEVERAL LEADING POINTS TO AND THROUGH THE PARKS, ETC.

	Feet.	Miles.
Niagara Square to Parade Refectory, by Genesee street,	12,300 or 2½	
Niagara Square to Front entrance by Court and Sixth streets,	7,000 or 1½	
Niagara Square to Park entrance by Delaware street, etc.,	17,520 or 3½	
Foot of North street to Front Terrace by Porter avenue,	5,300 or 1	
Front entrance to Park entrance by the Park roads,	15,800 or 3	
Lincoln Parkway entrance to Delaware street Stone Arch,	3,450 or ¾	

Stone Arch around Meadow and back to Arch,	10,000 or 1½
Lincoln Parkway to Agassiz Place by Northeast Meadow Drive,	10,935 or 2
Agassiz Place entrance to Parade Refectory by Humboldt Parkway,	12,000 or 2½
Parade Refectory to Park Boat-house by South Drive of Park,	18,300 or 3½
Front Terrace to Park Boat-house by the Park roads,	17,450 or 3½
Front Terrace to Parade Refectory by North Drive of Park,	40,000 or 7½
Niagara Square to Park by Delaware street, etc., through Park by North Meadow Drive, and through Humboldt Parkway Parade and Genesee street back to Niagara Square,	52,800 or 10

FINANCIAL STATEMENT, 1869 TO 1885.

IMPROVEMENT FUND.

	Receipts.	Expenditures.
1870	\$350,000.00	\$339,778.07
1871	159,106.40	169,976.16
1872	104,459.83	110,278.96
1873	103,620.27	105,354.92
1874	128,690.14	127,543.99
1875	201,874.00	201,580.70
1876	130,992.35	132,426.63
1877	1,234.49	1,056.89
1878	11,096.47	9,879.21
1879	2,027.26	4,227.28
1880	1,400.00	219.40
1881	1,700.00	2,855.44
1882	2,450.00	817.44
1883	4,883.41	6,466.13
1884	4,222.21
	<u>\$1,207,776.83</u>	<u>\$1,203,461.12</u>

1878—Insurance moneys deposited in bank....\$ 39,975.12

Interest on same..... 326.43

Total receipts.....\$1,248,078.38

1878-79—Insurance moneys disbursed through bank..... \$ 40,301.55

Total expenditures.....\$1,243,762.67

Balance in treasury, December 31, 1884.....\$ 4,315.71

MAINTENANCE FUND.

	Receipts.	Expenditures.
1871	\$ 8,519.45	\$ 5,926.60
1872	13,500.00	15,477.87
1873	13,000.00	15,068.27
1874	16,300.00	16,240.45
1875	18,000.00	18,590.40
1876	26,530.65	25,524.90
1877	31,664.25	31,615.07
1878	20,000.00	19,949.92
1879	20,000.00	19,990.47
1880	22,000.00	21,955.88
1881	30,500.00	30,424.77
1882	37,371.00	37,364.95
1883	42,300.00	42,299.24
1884	62,000.00	61,993.89
Total	<u>\$362,285.35</u>	<u>\$361,425.06</u>

The total receipts for improvement were obtained from the following separate sources:

From the issue of City bonds.....	\$1,195,000.00
From Common Council appropriations.....	38,840.91
From insurance on Parade House.....	49,975.12
For rents and sundry sales.....	31,446.91
From Sinking Fund for purchase of Park bonds.....	5,000.00

Total receipts for improvements.....\$1,320,262.94

The expenditures may be divided under the two heads of Land and Improvements.

For land.....\$376,673.91

For improvements..... 959,273.32

Total expenditures.....\$1,315,947.23

Balance in treasury Dec. 31, 1884..... 4,315.71

APPENDIX I.

AREA, LENGTH OF DRIVES IN USE, AND COST
OF CONSTRUCTION OF EACH PARK, PARKWAY
AND PLACE TO JANUARY 1, 1885

	Acres.	Lineal Feet of Drives.	Cost of Lands and Improve- ments.
The Park.....	350½	18,000	\$653,700
The Parade.....	56	5,500	163,000
The Front.....	31½	2,000	115,000
Prospect Place.....	7½
Total.....	<u>445½</u>	<u>25,500</u>	<u>\$931,700</u>
Fillmore Avenue.....	25½	11,100	\$127,000
Humboldt Parkway.....	43¼	16,600	62,500
Agassiz Place.....	4¼	450	3,300
Total.....	<u>73</u>	<u>28,150</u>	<u>\$192,800</u>
Porter Avenue.....	8	3,500	\$47,000
Richmond Avenue.....	15½	6,000	22,250
Bidwell Parkway.....	10¾	4,650	21,800
Chapin Parkway.....	8¾	3,800	22,600
Lincoln Parkway.....	7¾	1,700	21,400
Bidwell Place.....	5½	1,750	6,000
Chapin Place.....	5	1,700	11,600
Soldiers' Place.....	8¾	2,000	12,800
The Circle.....	4½	1,000	21,400
Fort Porter Bank.....	4	1,900	4,500
Total.....	<u>78½</u>	<u>28,000</u>	<u>\$191,350</u>
Total in Parks.....	445½	25,500	\$931,700
Total in East Side Ap- proaches.....	73	28,150	192,800
Total in West Side Ap- proaches.....	78½	28,000	191,350
Grand Total.....	597	81,650	\$1,315,850

APPENDIX II.

APPROXIMATE DISTANCES OF THE PARK FROM

SENECA STREET, ETC.

	Fet.
Seneca Street, by Fillmore Avenue, the Parade House and Humboldt Parkway to Ledgewood Gate, near the Rock Ledges	23,500
Seneca Street, by Front Avenue, the Lake View House, Massachusetts Street and West Side Approaches to City Gate near the Boat-house	24,000
Seneca Street, by Jefferson St., to Ledgewood Gate,	20,000
Seneca Street, by Michigan St., to Ledgewood Gate,	20,000
Seneca Street, by Main Street horse-car line, to City Gate	21,000
Seneca Street, by Delaware Avenue and Parkways, to City Gate	19,000
Seneca Street, by Fillmore Avenue, to Parade House,	11,600
Seneca Street, by Front Avenue to Lake View House,	9,250
Parade House, by Humboldt Parkway, to Ledgewood Gate	12,000
Lake View House, by Massachusetts St., to City Gate,	14,750
Lake View House, by Porter Avenue and Parkways, to City Gate	16,300
Lake View House, by Massachusetts Street, to Boat-house	15,300
Parade House, by Humboldt Parkway, etc., to Boat-house	18,300
Parade House, by Park Boat-house to Lake View House	33,600
Parade House, by Best and North Streets, to Lake View House	17,500
City Gate, by South Meadow Drive of Park, to Ledgewood Gate	6,900
City Gate, by Northeast Meadow Drive of Park, to Ledgewood Gate	10,900
Circuit Drive around the Park Meadow	6,800
City Gate, around Meadow and back to City Gate,	16,900

APPENDIX III.

DIVISIONS AND DIMENSIONS OF THE PARKS, PARKWAYS AND PLACES.

	Acres.	Acres.
Park Lake or Gala Water	46½	
Water Border	75	
Water Park (west of Delaware ave.),	12½	
The Meadow (including Deer Paddock), 150 Meadow Border	79	
Meadow Park (east of Delaware ave.),	229	
The Park	350½	
Parade Green	20	
Parade House Plaza	4	
Parade Border	32	
The Parade	56	
Front Play Green	7½	
Terrace Concourse	3½	
Front Border and Fort Porter Bank,	24½	
The Front	35½	
Prospect Place (two adjacent blks. each),	594 ft. X 281 ft.	
Bidwell Place (Square)	510 ft. X 465 ft.	
Chapin Place (Square)	500 ft. X 420 ft.	
Soldiers' Place (Circle)	700 ft. in diameter.	
Agassiz Place (Circle)	490 ft. in diameter.	
The Circle	500 ft. in diameter.	
Humboldt Parkway	9,405 ft. X 200 ft.	
Lincoln Parkway	1,695 ft. X 200 ft.	
Bidwell Parkway	2,323 ft. X 200 ft.	
Chapin Parkway	1,904 ft. X 200 ft.	
Fillmore Avenue	11,997 ft. X 100 ft.	
Richmond Avenue	6,022 ft. X 100 ft.	
Porter Avenue	3,500 ft. X 100 ft.	
Porter Avenue	975 ft. X 50 ft.	

APPENDIX.

DIVISIONS AND DIMENSIONS OF THE PARKS, PARKWAYS AND MINOR PLACES.

	Acres.	Acres.
Gala Water (Park Lake).....	46½	
Water Border.....	86½	
Water Park (west of Delaware ave).	133	
The Meadow (inside circuit drive)...	122	
Meadow Border (outside circuit drive)	107	
Meadow Park (east of Delaware ave)	229	
The Park.....		362
Parade Green.....	20	
Parade House Plaza.....	4	
Parade Border.....	32	
The Parade.....		56
Front Play Green.....	7½	
Terrace Concourse.....	3½	
Front Border and Sheridan Terracé...	24½	
New Lands (west of Canal).....	12½	
The Front.....		48
Total area of (3) Parks.....		466

PARK APPROACHES.

Humboldt Parkway.....	9,405 ft.x200 ft.
Lincoln Parkway.....	1,965 ft.x200 ft.
Bidwell Parkway.....	2,323 ft.x200 ft.
Chapin Parkway.....	1,904 ft.x200 ft.
Fillmore avenue.....	11,097 ft.x100 ft.
Richmond avenue.....	6,022 ft.x100 ft.

Porter avenue.....	3,500 ft.x100 ft.
Porter avenue.....	1,800 ft.x 50 ft.
Jewett avenue.....	2,136 ft.x 70 ft.
Total area of Park approaches	124 acres.

MINOR PLACES.

Prospect Place (two squares each).....	594 ft.x281 ft.
Bidwell Place (Square).....	510 ft.x465 ft.
Chapin Place (Square).....	500 ft.x420 ft.
Soldier's Place (Circle).....	700 ft. in diameter.
Aggrassiz Place (Circle).....	490 ft. in diameter.
The Circle.....	500 ft. in diameter.
The Bank.....	300 ft. in diameter.
Niagara Square.....	460 ft.x460 ft.
The Terrace (two plots).....	{ 460 ft.x 60 ft. 500 ft.x 60 ft.
Day's Place.....	670 ft.x 90 ft.
Johnson Place.....	487 ft.x 94 ft.
Wadsworth Place.....	300 ft.x 87 ft.
Lafayette Square.....	200 ft.x160 ft.
Masten Place.....	580 ft.x580 ft.
Porter Square, Niagara and Parish sts..	364 ft.x198 ft.
Market Square, Niagara and Amherst streets, (two plots each).....	198 ft. x33 ft.
Heacock Place, Abbot and White's Corners Roads, about.....	150 ft.x150 ft.
Bennett Place.....	365 ft.x290 ft.
Total area of Minor Places.....	57½ acres.

**DIVISION AND DIMENSIONS OF THE
PARKS, PARKWAYS AND
MINOR PLACES.**

	Acres.	Acres.	Acres.
Gala Water (Delaware Park Lake)	46½		
Water Border	89½		
Water Park (west of Delaware Avenue)	136		
The Meadow (inside circuit drive)	122		
Meadow Border (outside circuit drive)	107		
Meadow Park (east of Delaware Avenue)	229		
Delaware Park		365	
Humboldt Park		56	
The Front		48	
South Park		155	
Cazenovia Park		106	
Riverside Park		37	
Lakeview Park		94.76	
Total area of (7) parks		\$61.76	

PARK APPROACHES.

Humboldt Parkway	9,405 feet x 200 feet
Lincoln Parkway	1,965 " x 200 "
Bidwell Parkway	2,323 " x 200 "
Chapin Parkway	1,914 " x 200 "
Fillmore Avenue	11,097 " x 100 "
Richmond Avenue	6,922 " x 100 "
Porter Avenue	4,750 " x 100 "
Jewett Avenue	2,036 " x 70 "
Front Avenue	8,350 " x 99 "
Massachusetts Avenue	5,631 " x 66 "
Niagara St. from Hertel Ave. to City Line	6,999 " x 99 "
Scajaquada Parkway, south side	3,000 " x 300 "
Southside Parkway	11,600 " x 150 "
Red Jacket Parkway	1,500 " x 100 "
North Scajaquada Parkway	3,000 " x 200 "
Kenilworth Parkway	1,500 " x 60 "
Elmwood, between Scajaquada Creek and North Scajaquada Parkway	800 " x 66 "
Total area of park approaches	251.03 acres.

MINOR PLACES.

Prospect Place (two squares), each	59½ feet x 281 feet
Colonial Circle	510 " x 465 "
Gates Circle	500 " x 200 "
South Parkway Circle, at City Line	500 " in diameter
Lanigan Park	300 " x 208 feet
Soldiers' Place (circle)	700 " in diameter
Agassiz Place (circle)	490 " " "
The Circle, Porter and Richmond Avenues	500 " " "
The Bank, Massachusetts and Front Aves.	300 " " "
Niagara Square	465 feet x 460 feet
The Terrace (two plats)	460 " x 60 "
	500 " " "
Best Street (square)	156 " x 160 "
Ferry Street (circle)	300 " in diameter
Day's Park	670 " x 90 feet
Johnson Place	487 " x 94 "
Arlington Place	300 " x 87 "
Lafayette Square	200 " x 160 "
Maston Place	580 " x 550 "
Porter Square, Niagara and Parish Streets	364 " x 198 "
Market Square, Niagara and Amherst Streets (two plats)	198 " x 33 "
	198 " x 33 "
Heacock Place, Abbott's and White's Corners Road, about	350 " x 350 "
Bennett Place	365 " x 290 "
Woodside Circle, Southside Parkway	500 " in diameter
Humboldt Parkway and Scajaquada Creek (two plats)	468 " x 5 feet
	330 " x 60 "
	350 " x 202 "
Seneca Indian Park	1,162 " x 250 "
Hennepin Park	413 " x 244 "
Willert Park	600 " x 600 "
Palonia Park	210 " x 600 "
Sperry Park	19.2 acres
Schiller Park	
Total area of minor places	114.06 acres.
Total area of seven parks	861.76 acres
" " " park approaches	251.03 "
" " " minor places	114.06 "
" " " 30 Triangles	2.25 "
Total	1,229.10

Excerpts from Two Annual Reports Showing Levels of Employment

1875

Month.	Foreman.	Mechanics.	Laborers.	Teamsters.	Total.
January, . . .	9	2	164	32	207
February, . . .	8	2	105	12	127
March, . . .	0	0	10	0	10
April, . . .	7	1	94	14	116
May, . . .	15	3	267	50	335
June, . . .	16	15	321	55	407
July, . . .	16	10	319	70	415
August, . . .	16	20	279	64	379
September, . . .	14	40	163	68	285
October, . . .	6	22	39	9	76
November, . . .	6	16	50	6	78
December, . . .	2	13	8	2	25

Daily average for the year, 205.

The largest number employed on any one day, 475.

Besides these an average of 30 men (mostly mechanics) have been engaged daily on work done by contract.

1898

SCHEDULE—EMPLOYMENT OF MEN.

1898.	General Maintenance Delaware Park and Small Parks, Lincoln, Chapin and Biddle Parkways and one-half of Humboldt Parkway.	Constructive Work.	Keepers, Watchmen, Scrubwomen and Stable Men.	Delaware Park Green- houses.	Zoological Garden.	Front Park, Richmond, Porter and Front Aves.	Humboldt Park, Fillmore Ave. and one-half Hum- boldt Parkway.	Cazenovia Park, South Side and Red Jacket Parkways.	South Park.	Botanical Garden.	Stony Point and Nursery.
January	13	1	13	3	2	7	7	5	—	7	2
February	17	1	14	4	2	7	8	4	—	6	1
March	65	1	14	8	2	14	21	4	—	9	3
April	41	64	15	10	2	17	58	7	7	11	3
May	50	8	20	8	2	33	37	21	20	13	5
June	77	14	20	8	2	17	24	23	23	14	5
July	70	16	21	8	2	25	13	16	16	15	4
August	75	29	27	9	3	18	17	15	22	15	3
September	58	23	28	8	3	18	32	12	18	14	3
October	29	23	25	6	3	13	13	4	16	15	3
November	9	9	16	5	3	4	4	2	1	14	2
December	10	6	12	5	3	5	9	3	—	11	1
Average per Month.....	43	16	19	7	2 5-12	15	20	10	10	12	3

SURVEY OF BUFFALO'S OLMSTED PARKS SUMMER 1979
FOR NATIONAL REGISTER OF HISTORIC PLACES NOMINATION

List of Key Staff Personnel and Terms 1870-1915

<u>NAME</u>	<u>POSITION</u>	<u>TERMS</u>
George Kent Radford	Engineer in Chief	1870-1873
William McMillan	Superintendent of Planting General Superintendent	1870-1873 1874-1897
John L. Brothers	also Auditor & Paymaster General Superintendent Superintendent	1894-1902 1898 1903-1908
John T. Cowell	Director of Botanic Garden & Superintendent of South Park	1896-1914
Frank Thompson	Zoological Curator	1896-1898
John L. Graves	Superintendent	1899-1902
Dr. F.A. Crandell	Zoological Curator	1899-1915
David A. Seymour	Auditor & Paymaster Superintendent	1903-1908 1909-1915
Harry B. Filer	Forester	1908-1915

This information was compiled from the Annual Reports of the Buffalo Park Commissioners, 1870-1915. Employees may have continued beyond 1915, but records are not available at this time.

PARK COMMISSIONERS 1869-1915

(Chap. 165, Laws, 1869, passed April 14th) Twelve Commissioners

1869-1872

Pascal P. Pratt, President
Wm. F. Rogers, Ex-officio
Dexter P. Rumsey
John Greiner, Jr.
Lewis P. Dayton
Joseph Warren
Edwin T. Evans
Sherman S. Jewett
Richard Fiach
James Mooney
John Cronyn
Dennis Bowen
William Dorsheimer

Dennis Bowen
John Greiner
Sherman S. Jewett
DeWitt C. Weed
Michael Mesmer

1874-1875

Pascal P. Pratt, President
Lewis P. Dayton, Ex-officio
Dennis Bowen
Edward Bennett
William Dorsheimer
Edwin T. Evans
Joseph L. Fairchild
DeWitt C. Weed
Sherman S. Jewett
Patrick Smith
Joseph Bork
Britain Holmes
Cooley S. Chapin
Michael Mesmer
Daniel D. Hartnett
Augustus F. Fuchs

1872-1873

Law amended, May 9, 1872—15 Com'rs)
Pascal P. Pratt, President
Alexander T. Brush, Ex-officio
Edward Bennett
Britain Holmes
Cooley S. Chapin
Edwin T. Evans
Patrick Smith
John L. Alberger
Dennis Bowen
John Greiner
Sherman S. Jewett
Michael Mesmer
DeWitt C. Weed

1873-1874

Pascal P. Pratt, President
Lewis P. Dayton, Ex-officio
Edward Bennett
Britain Holmes
Cooley S. Chapin
Edwin T. Evans
Patrick Smith
John L. Alberger

1876-1877

Pascal P. Pratt, President
Philip Becker, Ex-officio
Dennis Bowen
Edwin T. Evans
Sherman S. Jewett
Edward Bennett
Cooley S. Chapin
Patrick Smith
Joseph L. Fairchild
Michael Mesmer
Augustus Fuchs
George Urban
James R. Smith
Hiram Exstein
James H. Metcalfe
Frank Perew

1877

Sherman S. Jewett, President
Philip Becker, Ex-officio
Michael Mesmer
Hiram Exstein
Patrick Smith
James R. Smith
George Urban
Abraham Altman
Cyrus Clarke
George Clinton
F. Augustus Georger
Britain Holmes
John G. Larnger
Michael Nellany
T. F. Rochester, M. D.

1878

Pascal P. Pratt, President
Solomon Scheu, Ex-officio
Edwin T. Evans
Sherman S. Jewett
Edward Bennett
Cooley S. Chapin
Patrick Smith
Joseph L. Fairchild

Michael Mesmer
Augustus Fuchs
George Urban
James R. Smith
Hiram Exstein
James H. Metcalfe
Frank Perew
F. Augustus Georger

1878-1879

Sherman S. Jewett, President
Solomon Scheu, Ex-officio
Edward Bennett
Patrick Smith
Joseph L. Fairchild
Michael Mesmer
Asher P. Nichols
Augustus Fuchs
George Urban
James R. Smith
Hiram Exstein
James H. Metcalfe
F. Augustus Georger
George W. Clinton
Cyrus Clarke
Michael Nellany

1880-1881

Sherman S. Jewett, President
Alexander Brush, Ex-officio
Edward Bennett
Patrick Smith
Cyrus Clarke
George W. Clinton
Hiram Exstein
James R. Smith
George Urban
F. Augustus Georger
Michael Mesmer
Michael Nellany
John G. Larnger
Abraham Altman
Britain Holmes
Thomas F. Rochester

1882

Sherman S. Jewett, President
 Grover Cleveland, Ex-officio
 Edward Bennett
 Cyrus Clarke
 Hiram Exstein
 F. Augustus Georger
 Britain Holmes
 John G. Langner
 Michael Nellany
 James R. Smith
 Michael Mesmer
 George Urban
 Thomas F. Rochester
 Abraham Altman
 George W. Clinton
 Bronson C. Rumsey

1883

Sherman S. Jewett, President
 John B. Manning, Ex-officio
 Edward Bennett
 Augustus Fuchs
 Britain Holmes
 Henry C. Persch
 James R. Smith
 Cyrus Clarke
 John F. Moulton
 Thomas F. Rochester
 George Urban
 George Clinton
 Paul Goembel
 Michael Nellany
 Bronson C. Rumsey
 F. Augustus Georger

1883-1884

Sherman S. Jewett, President
 Jonathan Scoville, Ex-officio
 Edward Bennett
 Cyrus Clarke
 Augustus Fuchs
 F. A. Georger
 Paul Goembel

John C. Graves

Britain Holmes
 John F. Moulton
 Michael Nellany
 Henry C. Persch
 Thomas F. Rochester
 Bronson C. Rumsey
 James R. Smith
 George Urban

1884-1885

Sherman S. Jewett, President
 Jonathan Scoville, Ex-officio
 James Ash
 Edward Bennett
 August Fuchs
 Paul Goembel
 John C. Graves
 William Hengerer
 Britain Holmes
 James Mooney
 John F. Moulton
 Michael Nellany
 Bronson C. Rumsey
 Solomon Scheu
 James R. Smith
 George Urban

1885-1886

Sherman S. Jewett, President
 Philip Becker, Ex-officio
 Bronson C. Rumsey
 William Hengerer
 George Urban
 Britain Holmes
 James R. Smith
 Edward Bennett
 Augustus Fuchs
 Paul Goembel
 John F. Moulton
 Michael Nellany
 John C. Graves
 Solomon Scheu
 James Mooney
 James Ash

1886-1887

Sherman S. Jewett, President
 Philip Becker, Ex-officio
 Bronson C. Rumsey
 Edward Bennett
 Britain Holmes
 Solomon Scheu
 James R. Smith
 William Hengerer
 James Mooney
 Michael Nellany
 Augustus Fuchs
 Paul Goembel
 John C. Graves
 John F. Moulton
 John Mayer
 Fred L. Danforth

1887-1888

Sherman S. Jewett, President
 Philip Becker, Ex-officio
 Bronson C. Rumsey
 Edward Bennett
 Britain Holmes
 Solomon Scheu
 James R. Smith
 William Hengerer
 James Mooney
 Michael Nellany
 Augustus Fuchs
 Paul Goembel
 John C. Graves
 John F. Moulton
 John Mayer
 Fred L. Danforth

1888-1889

Sherman S. Jewett, President
 Philip Becker, Ex-officio
 Edward Bennett
 Fred L. Danforth
 Augustus Fuchs
 Paul Goembel
 William Hengerer

Britain Holmes

John Mayer
 James Mooney
 Michael Nellany
 N. W. Ransom
 Bronson C. Rumsey
 Solomon Scheu
 James R. Smith

1889

Sherman S. Jewett, President
 Philip Becker, Ex-officio
 Fred L. Danforth
 Jacob Dold
 John C. Graves
 Britain Holmes
 William Hengerer
 Jacob Hasselbeck
 James Mooney
 John Mayer
 Michael Nellany
 N. W. Ransom
 James Roberts
 B. C. Rumsey
 James R. Smith
 Louis Zittel

1889-1890

Sherman S. Jewett, President
 Charles F. Bishop, Ex-officio
 Fred L. Danforth
 Jacob Dold
 John C. Graves
 Britain Holmes
 William Hengerer
 Jacob Hasselbeck
 James Mooney
 John Mayer
 Michael Nellany
 N. W. Ransom
 James A. Roberts
 D. C. Rumsey
 James R. Smith
 Louis Zittel

1890-1891

Sherman S. Jewett, President
Charles F. Bishop, Ex-officio
John C. Graves
Jacob Hasselbeck
William Hengerer
Britain Holmes
John Mayer
James Mooney
Michael Nellany
Daniel O'Day
Norman W. Ransom
James A. Roberts
Bronson C. Rumsey
Augustus F. Scheu
James K. Smith
Louis Zittel

1891-1892

Sherman S. Jewett, President
Charles F. Bishop, Ex-officio
John C. Graves
Jacob Hasselbeck
William Hengerer
Britain Holmes
John Mayer
Norman E. Mack
Michael Nellany
Daniel O'Day
Norman W. Ransom
James A. Roberts
Bronson C. Rumsey
Augustus F. Scheu
James R. Smith
Louis Zittel

1892-1893

Sherman S. Jewett, President
Charles F. Bishop, Ex-officio
David F. Day
John C. Graves
Britain Holmes
William Hengerer
Jacob Hasselbeck

John Hughes

Norman E. Mack
Michael Nellany
Bronson C. Rumsey
Norman W. Ransom
James A. Roberts
Augustus F. Scheu
Louis Zittel
Henry Zipp

1893-1894

Sherman S. Jewett, President
Charles F. Bishop, Ex-officio
David F. Day
John C. Graves
Britain Holmes
William Hengerer
Jacob Hasselbeck
John Hughes
J. Adam Lantz
Norman E. Mack
Michael Nellany
Bronson C. Rumsey
Norman W. Ransom
John A. Weyand
Louis Zittel
Henry Zipp

1894-1895

Sherman S. Jewett, President
Edgar B. Jewett, Ex-officio
David F. Day
John C. Graves
John Guenther
William Hengerer
Britain Holmes
John Hughes
F. C. M. Lantz
Norman E. Mack
Michael Nellany
Norman W. Ransom
Bronson C. Rumsey
John A. Weyand
Henry Zipp
Louis Zittel

1895-1896

Sherman S. Jewett, President
Edgar B. Jewett, Ex-officio
David F. Day
John C. Graves
John Guenther
William Hengerer
Britain Holmes
John Hughes
George B. Hayes
Norman E. Mack
Michael Nellany
Norman W. Ransom
Bronson C. Rumsey
Ottomar Reinecke
John A. Weyand
Louis Zittel

1896-1897

Sherman S. Jewett, President
Edgar B. Jewett, Ex-officio
David F. Day
John C. Graves
John Guenther
Britain Holmes
William Hengerer
John Hughes
Robert M. Harding
Richard Hammond
Bronson C. Rumsey
Norman W. Ransom
Ottomar Reinecke
William S. Wicks
Nathan Wolff
Louis Zittel

1897-1898

William Hengerer, President
Conrad Diehl, Ex-officio
William J. Connors
David F. Day
John Guenther
Robert M. Harding
Britain Holmes
John Hughes

Charles R. Huntley
Andrew Langdon
Ottomar Reinecke
Bronson C. Rumsey
James Sweeney
William S. Wicks
Nathan Wolff
Louis Zittel

1898-1899

John Hughes, President
Conrad Diehl, Ex-officio
William J. Connors
David F. Day
John Guenther
Robert M. Harding
August Hager
Charles R. Huntley
Andrew Langdon
Ottomar Reinecke
James Sweeney
William P. Taylor
William S. Wicks
Nathan Wolff
Cornelius C. Wykoff
Louis Zittel

1899-1900

John Hughes, President
Robt. M. Harding, Vice-President
Conrad Diehl, Ex-officio
William J. Connors
David F. Day
Harry H. Guenther
August Hager
Charles R. Huntley
Andrew Langdon
Ottomar Reinecke
James Sweeney
William P. Taylor
William S. Wicks
Nathan Wolff
Cornelius C. Wykoff
Louis Zittel

1900-1901

John Hughes, President
Robt. M. Harding, Vice-President
Conrad Diehl, Ex-officio
John G. Cloak
William J. Connors
Henry H. Guenther
August Hager
Charles R. Huntley
William F. Kasting
Andrew Langdon
James Macbeth
Ottomar Reinecke
James Sweeney
William P. Taylor
Nathan Wolff
Cornelius C. Wykoff

1903-1904

William Hengerer, President
Erastus C. Knight, Ex-officio
George C. Ginther
Frank H. Goodyear
William A. Joyce
Charles Mosier

1904-1905

William Hengerer, President
Erastus C. Knight, Ex-officio
George C. Ginther
William A. Joyce
Charles Mosier
Horace A. Noble

1901-1902

John Hughes, President
Matthew D. Mann, Vice-President
Erastus C. Knight, Ex-officio
John G. Cloak
William J. Connors
Henry H. Guenther
Robert M. Harding
William F. Kasting
Andrew Langdon
James Macbeth
Ottomar Reinecke
James Sweeney
William P. Taylor
Ignatz Woepfel
Nathan Wolff
Cornelius C. Wykoff

1905-1906

William A. Joyce, President
James N. Adam, Ex-officio
George C. Ginther
Charles Mosier
Horace A. Noble
Maurice M. Wall

1906-1907

George C. Ginther, President
James N. Adam, Ex-officio
Thomas B. Lockwood
Charles Mosier
Horace A. Noble
Maurice M. Wall

1902-1903

Chap. 19, Sec. 1 (amending Chap. 105, Sec. 308, Laws, 1891) passed Feb. 7, 1902, making Board of Five Commissioners. Mayor, Ex-officio.
William Hengerer, President
Erastus C. Knight, Ex-officio
George C. Ginther
Frank H. Goodyear
William A. Joyce
Charles Mosier

1907-1908

Charles Mosier, President
James N. Adam, Ex-officio
Thomas B. Lockwood
Harold G. Meadows
Horace Noble
Maurice M. Wall

1908-1909

Horace A. Noble, President
James N. Adam, Ex-officio
Thomas B. Lockwood
Charles Mosier
William F. Kasting
Maurice M. Wall

1909-1910

Maurice M. Wall, President
Louis P. Fuhrmann, Ex-officio
Thomas B. Lockwood
Charles Mosier
William F. Kasting
Nathan Wolff

1910-1911

Thomas B. Lockwood, President
Louis P. Fuhrmann, Ex-officio
William F. Kasting
Charles Mosier
Nathan Wolff
George C. Gintner

1911-1912

William F. Kasting, President
Louis P. Fuhrmann, Ex-officio
George C. Ginther
Thomas B. Lockwood

Charles Mosier
Nathan Wolff

1912-1913

Charles Mosier, President
Louis P. Fuhrmann, Ex-officio
Nathan Wolff
George C. Ginther
Thomas B. Lockwood
William F. Kasting

1913-1914

Nathan Wolff, President
Louis P. Fuhrmann, Ex-officio
George C. Ginther
Thomas B. Lockwood
Robert W. Pomeroy
George J. Meyer

1914-1915

George C. Ginther, President
Louis P. Fuhrmann, Ex-officio
Thomas B. Lockwood
Robert W. Pomeroy
George J. Meyer
Nathan Wolff
David Gunsburg

APPENDIX E

1. Contents of Appendix E.....100
2. List of Trees, Shrubs, Etc., In The Nursery, Second Annual.....101-104
Report - 1872
3. List of the Different Kinds of Trees, Shrubs and Vines on
The Park, Seventh Annual Report - 1877.....105-109
4. Planting List for Delaware Park and Albright Art Gallery,
Olmsted Brothers, Landscape Architects, Dec. 16, 1903.....110-111
5. Planting List for Riverside Park, Olmsted Brothers,
Landscape Architects, April 10, 1898.....112-119

LIST OF TREES, SHRUBS, ETC., IN NURSERIES.

Order of Family.	Common Name.	Tree, Shrub or Vine.	No.
Crowfoot.	Blue Clematis,	Vine,	6
"	Vine Bower Clematis,	"	12
Magnolia.	Cucumber Tree,	Tree,	91
"	Great-leaved Magnolia,	"	5
"	Umbrella Magnolia,	"	10
"	Chinese Magnolia,	"	4
"	Soulangé's Chinese Magnolia,	"	4
"	Tulip Tree,	"	2185
"	Norbert's Magnolia,	"	5
Barberry.	Common Barberry,	Shrub,	100
"	Purple-leaved Barberry,	"	178
"	Holly-leaved Mahonia,	"	28
St. John's Wort.	Shrubby St. John's Wort,	"	24
Tamarisk.	French Tamarisk,	"	596
Mallow.	Sh'by Althæa or Rose of Sharon,	"	783
Linden.	Basswood,	Tree,	791
"	White Linden,	"	20
"	European Linden,	"	60
Rue.	Hop Tree,	"	50
Cashew.	Venetian Sumac,	Shrub,	60
"	Purple Fringe, or Smoke Bush,	"	
"	Staghorn Sumac,	"	50
Vine.	Sterile Vine,	Vine,	25
"	Variegated Cissus,	"	25
"	Virginia Creeper,	"	100
Buckthorn.	New Jersey Tea,	Shrub,	25
	Climbing Bitter Sweet,	Vine,	25
	Burning Bush,	Shrub,	28
	Variegated Creep'g Euonymus,	Vine,	12
	Chinese Kolreuteria,	Tree,	35
Soapberry,	Common Horse Chestnut,	"	100
"	Double Flowering Chestnut,	"	5
"	Sycamore Maple,	"	250
"	Norway Maple,	"	371
"	Red Colchicum Maple,	"	25
"	Montpelier Maple,	"	25
"	Large-leaved Maple,	"	12
"	Sugar Maple,	"	679
"	White, or Silver Maple,	"	339
"	English Field Maple,	"	93
"	Ash-leaved Maple,	"	250
Pulse,	English Laburnum,	"	10
"	Scotch Laburnum,	"	10
"	False Indigo,	Shrub,	10
"	Clammy Locust,	"	5
"	Chinese Wistaria,	Vine,	50
"	Virgilia Yellow Wood,	Tree,	245
"	Japan Sophora,	"	20
"	Redbud, or Judas Tree,	Shrub,	50
"	Kentucky Coffee Tree,	Tree,	48
"	Besson's Acacia,	"	5
"	Honey Locust,	"	46
"	Moss Acacia,	"	15
Rose.	Dwarf Flowering Almond,	Shrub,	21
"	Large Flowering Almond,	"	25
"	Bird Cherry,	Tree,	60
"	Double Flowering Plum,	"	50
"	Mahaleb Cherry,	Shrub,	5
"	Nine-bark Spiroea,	"	670
"	Hardhack Spiroea,	"	120
"	Common Meadow Sweet,	"	600
"	Red Flowering Meadow Sweet,	"	300
"	Cluster Flowering Spiroea,	"	480

DECIDUOUS.

Order of Family.	Common Name.	Tree, Shrub or Vine.	No.	Order of Family.	Common Name.	Tree, Shrub or Vine.	No.
Rose,	Fortune's Spiraea,	Shrub,	40	Honeysuckle.	English Woodbine,	Vine,	12
"	Siberian Spiraea,	"	39	"	Yellow Honeysuckle,	"	12
"	White Flowering Spiraea,	"	340	"	Japan	"	50
"	Hawthorn-leaved Spiraea,	"	32	"	Hall's new	"	12
"	Reeve's Spiraea,	"	385	"	Chinese	"	50
"	Plum leaved Spiraea,	"	50	"	Tartarian	Shrub,	500
"	Rowan-leaved Spiraea,	"	25	"	English Fly	"	80
"	Elm-leaved Spiraea,	"	69	"	Ledebour's	"	25
"	Japan Kerria,	"	125	"	Bush	"	100
"	Shrubby Cinquefoil,	"	20	"	Frag't Japan Bush Honeys'kle,	"	120
"	Purple Flowering Raspberry,	"	20	"	High Bush Cranberry,	"	52
"	Scarlet Thorn,	"	23	"	Snow Ball,	"	31
"	Christ Thorn,	"	6	"	Weigela,	"	889
"	Chinese Flowering Apple,	"	20	"	Wayfaring Tree,	"	63
"	Siberian Crab,	"	5	"	Yellow-leaved Elder,	"	40
"	Mountain Ash,	"	41	"	Cut-leaved Elder,	"	200
"	Oak-leaved Mountain Ash,	"	49	"	Variogated-leaved Elder,	"	48
"	Japan Quince,	"	85	Heath.	Rhododendron,	"	33
Saxifrage,	Missouri Currant,	"	132	Bignonia.	Trumpet Creeper,	Vine,	100
"	Red Flowering Currant,	"	99	"	Bunge's Catalpa,	Shrub,	10
"	Scentless Mock Orange,	"	445	"	Syringa-leaved Catalpa,	Tree,	10
"	Broad-leaved Mock Orange,	"	534	"	Koempfer's Catalpa,	"	25
"	Graceful Deutzia,	"	28	Figwort.	Chinese Pawlonia,	"	10
"	Rough-barked Deutzia,	"	640	Vervain.	French Mulberry,	Shrub,	50
"	Garden Hydrangea,	"	50	Night Shade.	Barbary Box Thorn,	Vine,	700
"	Wild Hydrangea,	"	50	Dogbane.	Periwinkle,	"	12
"	Oak-leaved Hydrangea,	"	13	Milkweed.	Greecian Silk,	"	50
Witch Hazel.	Sweet Gum, Bilsted Tree,	Tree,	100	Olive.	Green-stemmed Forsythia,	Shrub,	860
Ginseng.	Hercules Club,	"	94	"	Slender Forsythia,	"	22
"	English Ivy,	Vine,	36	"	Common Lilac,	"	50
"	Cornelian Cherry,	Tree,	159	"	Persian Lilac,	"	30
"	Variogated Cornelian Cherry,	Shrub,	10	"	Common Privet,	"	212
"	European Red Osier,	"	370	"	California Privet,	"	764
"	Wild Red Osier,	"	600	"	Flowering Ash,	Tree,	8
Honeysuckle.	Snowberry,	"	180	"	Weeping Ash,	"	7
"	Coral Berry,	"	500	"	White Ash,	"	306
"	Trumpet Honeysuckle,	Vine,	12	Laurel.	Sassafras,	"	100

Order of Family.	Common Name.	Tree, Shrub or Vine.	No.
Oleaster.	Silver Berry,	Shrub,	50
"	Wild Olive,	"	50
"	Sea Buckthorn,	"	47
Spurge,	Tree Box,	"	5
Nettle,	Wych, or Scotch Elm,	Tree,	38
"	English Elm,	"	1024
"	Huntington Elm,	"	10
"	Purple-leaved Elm,	"	10
"	White Elm,	"	993
"	Hackberry,	"	20
Fig.	White Mulberry,	"	25
Plane.	Oriental Plane,	"	110
Walnut.	Butternut,	"	25
"	Black Walnut,	"	12
"	English Walnut,	"	12
"	Hickory,	"	402
Oak.	English Oak,	"	100
"	Turkey Oak.	"	10
"	White Oak,	"	250
"	Pyramidal Oak,	"	8
"	Scarlet Oak,	"	250
"	Spanish Chestnut,	"	50
"	Purple Beech,	"	50
"	Green Beech,	"	22
"	Weeping Beech,	"	33
"	Purple Filbert,	Shrub,	105
"	Hop Hornbeam,	Tree,	264
"	Hornbeam Blue Beech,	"	264
Birch.	Sweet, or Cherry Birch,	"	43
"	European White Birch,	"	40
"	Cut-leaved Birch,	"	99
"	European Alder,	"	60
Willow.	Purple Willow,	Shrub,	150
"	Weeping Kilmarnock Willow,	"	10
"	New American Willow,	"	10
"	Shining Willow,	"	3280
"	Rosemary-leaved Willow,	"	350
Order of Family.	Common Name.	Tree, Shrub or Vine.	No.
Willow.	White Poplar,	Tree,	10
"	Weeping Poplar,	"	12
"	Lombardy Poplar,	"	25
"	Cottonwood Poplar,	"	12
"	Balsam Poplar,	"	25
Total Deciduous Trees,			11,050
"	Shrubs,		17,502
"	Vines,		1,301
Total,			29,853
Alders, Dogwood, and other shrubs taken from swamps and woods,			5,000
			34,853
	EVERGREENS.		
Pine.	Austrian Pine,	Tree,	495
"	Scotch Pine,	"	477
"	Ayacahuite Pine,	"	2
"	Dwarf Mountain Pine,	"	16
"	Jeffrey's	"	10
"	Japan	"	10
"	White	"	356
"	Himalayan	"	1
"	Swiss Stone,	"	43
"	White Spruce,	"	177
Pine (Abies)	Norway Spruce,	"	952
"	Himalayan Spruce,	"	12
"	Menzies'	"	19
"	Eastern	"	44
"	Gregory's	"	30
"	Hemlock	"	485
"	Douglass'	"	10
Pine (Picea)	Balsam Fir,	"	10
"	Hudson's Bay Fir,	"	6
"	Cephalonian Silver Fir,	"	10
"	Noble	"	10
"	Nordman's	"	50

GRAND TOTAL.

Deciduous Trees, Shrubs and Vines, 34,853
 Evergreens, 4,600
39,453

Order of Family.	Common Name.	Tree, Shrub or Vine.	No.
Pine (Picea)	Cilician Fir,	Tree,	8
"	Siberian "	"	10
Larix.	European Larch,	"	254
"	Weeping Larch,	"	3
"	Kompfer's False Larch,	"	5
"	Giant Redwood Larch,	"	5
Cypress.	Southern deciduous Cypress,	"	10
"	Japan Retinispora,	"	53
"	Lawson's Cypress,	"	28
"	Nootka Sound Cypress,	"	5
"	American Arbor Vitre,	"	294
"	Siberian " "	"	99
"	Parsons' " "	"	20
"	Heath-leav'd " "	"	8
"	Tom Thumb " "	"	8
"	Plicate " "	"	32
"	Nepal " "	"	25
"	Common Juniper,	"	16
"	Irish " "	"	4
"	Caucasian " "	"	10
"	Savin " "	"	49
"	Tamarisk-leaved Savin,	"	11
"	Red Cedar,	"	118
"	Glaucous Red Cedar,	"	49
"	Libro-cedrus decurrens,	"	12
"	Chinese Juniper,	"	2
"	Scaled Juniper,	"	10
Yew.	Japan Yew,	"	37
"	English Yew,	"	17
"	Horizontal Yew,	"	33
"	Compact Yew,	"	27
"	Variegated Yew,	"	34
"	Fortune's Cephalotaxus,	"	50
"	Yellow-fringed Yew,	"	8
"	Japan Podocarpus,	"	12
"	Maiden Hair Tree,	"	10
Total Evergreens,			<u>4,600</u>

APPENDIX.

A LIST OF THE DIFFERENT KINDS OF TREES, SHRUBS AND VINES ON THE PARK.

CLASS I.—ANGIOSPERMOUS PLANTS.

A. FLOWERS POLYPETALOUS.

No.	Family.	Botanical Name	Common Name.	No.	Family.	Botanical Name.	Common Name.
1	Magnolia,	Magnolia acuminata L.	Cucumber Tree.	24	Cashew,	Rhus var. laciniata, Hort.	Cut-leaved Sumach.
2	"	" macrophylla, Mchx.	Great-leaved Magnolia.	25	"	" typhina L.	Staghorn Sumach.
3	"	" tripetala, L.	Umbrella Tree.	26	"	Toxicodendron, L.	Poison Ivy.
4	"	" Yulan, Hort.	Chinese Magnolia.	27	Vine,	Vitis Labrusca, L.	Fox Grape.
5	"	Liriodendron Tulipifera L.	Tulip Tree.	28	"	" var. hybrida, Hort.	Native Vineyard Grape.
6	Berberis	Berberis vulgaris, L.	Common Berberry.	29	"	" astivalis, Mchx.	Summer Grape.
7	"	" var. atropurpureus, Hort.	Purple-leaved Berberry.	30	"	" cordifolia, Mchx.	Frost Grape.
8	"	" duicis Hort.	Sweet-fruited Berberry.	31	"	Cissus heterophylla, Thunb.	Variogated Cissus.
9	"	Mahonia Aquifolium, Nutt.	Holly-leaved Mahonia.	32	"	Ampelopsis quinquefolia, Mchx.	Virginian Creeper.
10	"	" Japonica, Sieb.	Japan Mahonia.	33	"	" bipinnata, Torr.	Pepper Vine.
11	"	Akebia quinata, Thunb.	Five-fingered Akebia.	34	Buckthorn,	Rhamnus catharticus L.	Common Buckthorn.
12	St. John's Wort.	Hypericum Kalmianum, L.	Kalm's St. John's Wort	35	"	Ceanothus Americanus, L.	New Jersey Tea.
13	Tamarisk,	Tamarix Gallica, L.	French Tamarisk	36	Staff Tree,	Celastrus Scandens, L.	Climbing Bitter-sweet.
14	Mallow,	Hibiscus Syriacus, L.	Shrubby Althea.	37	"	Euonymus Europæus, L.	European Spindle Tree.
15	Linden,	Tilia Europea, Mill.	European Linden.	38	"	" atropurpureus, L.	Burning Bush
16	"	" var. alba, Hort.	White-leaved Linden.	39	Soapberry	Æsculus Hippocastanum, L.	Common Horse Chestnut.
17	"	" var. rubra, Hort.	Red-twigged Linden.	40	"	" var. flore pleno, Hort.	Double-flowering Chestnut.
18	"	" Americana, L.	Basswood.	41	"	" glabra, Wild.	Ohio Buckeye.
19	"	" heterophylla, Vent.	White Linden.	42	"	" flava, Ait.	Yellow Buckeye.
20	Rue,	Ptelea trifoliata, L.	Hop Tree.	43	"	Pavia macrostachya, Mchx.	Small Buckeye.
21	Quassia,	Allantus glandulosus, Desf.	Ailanthus.	44	"	Koileuteria paniculata, Laxm.	Koileuteria.
22	Cashew,	Rhus Cotinus, L.	Sicilian Sumach.	45	Maple,	Acer Pseudo-Platanus, L.	Sycamore Maple.
23	"	" glabra, L.	Smooth Sumach.	46	"	" var. purpureum, Hort.	Purple-leaved Sycamore.
				47	"	" Platanooides, L.	Norway Maple.
				48	"	" var. Lobelii, Hort.	Lobel's Maple.
				49	"	" var. laciniatum.	Eagle's Claw Maple.
				50	"	" Cotichicum rubrum, Hort.	Red Colchicum Maple.
				51	"	" saccharinum, L.	Sugar Maple.
				52	"	" nigrum, Tor. et Gray.	Black Sugar Maple.
				53	"	" campestre, L.	English Maple.
				54	"	" dasycarpum Ehrh.	Silver Maple.
				55	"	" Pennsylvanicum.	Striped Maple.
				56	"	" rubrum, L.	Red Maple.
				57	"	Negundo aceroides, Mxrch	Ash-leaved Maple.
				58	Pulse,	Laburnum vulgare, Gris.	Common Laburnum.
				59	"	" alpinum, Mill.	Scotch Laburnum.
				60	"	Spartium Scoparium, L.	Scotch Broom.
				61	"	Amorpha fruticosa, L.	False Indigo
				62	"	Caragana arborescens, Lam.	Siberian Pea Tree.
				63	"	Colutea arborescens, L.	Bladder Senna
				64	"	Robinia Pseudacacia, L.	Yellow Locust
				65	"	" var. inermis, Hort.	Parasol Acacia.
				66	"	" var. Bessoniana, Hort.	Besson's Dwarf Acacia.
				67	"	" hispida, L.	Rose Acacia.

No.	Family.	Botanical Name.	Common Name.	No.	Family.	Botanical Name.	Common Name.
68	Pulse,	<i>Robinia viscosa</i> , Vent.	Clammy Locust.	112	Rose,	<i>Rubus strigosus</i> , Mchx.	Wild Red Raspberry.
69	"	<i>Wistaria Sinensis</i> D. C.	Chinese Wistaria	113	"	" <i>occidentalis</i> , L.	Black Raspberry.
70	"	" <i>frutescens</i> , L.	American Wistaria.	114	"	" <i>villosus</i> , Ait.	Common Blackberry.
71	"	<i>Cladrastis tinctoria</i> , Raf.	Yellow-wood.	115	"	<i>Potentilla fruticosa</i> , L.	Shrubby Cinquefoil.
72	"	<i>Sophora Japonica</i> , L.	Japan Sophora.	116	"	<i>Kerria Japonica</i> , D. C.	Japan Corchorus.
73	"	<i>Cercis Canadensis</i> , Willd.	American Redbud.	117	"	" <i>var. variegata</i> , Hort.	Variegated Corchorus.
74	"	" <i>Chinensis</i> , Bge.	Chinese Redbud.	118	"	<i>Spiraea Billardi</i> , Hort.	Billard's Spirea.
75	"	<i>Gleditschia triacanthos</i> , L.	Honey Locust.	119	"	" <i>callosa</i> , Thunb.	Fortune's Spirea.
76	"	<i>Gymnacladus Canadensis</i> , Lam.	Kentucky Coffee Tree.	120	"	" <i>var. alba</i> , Hort.	Fortune's Dwarf White Spirea.
77	Plum,	<i>Amygdalus nana</i> L.	Double-flowering Almond.	121	"	" <i>chamaedrifolia</i> , L.	Germander-leaved Spirea
78	"	<i>Persica vulgaris</i> fl. pl., Hort.	Double-flowering Peach.	122	"	" <i>cratægifolia</i> , L. K.	Hawhorn-leaved Spirea
79	"	" <i>fol. pur.</i> , Hort.	Blood-leaved Peach.	123	"	" <i>Douglasii</i> , Hort.	Douglas' Spirea.
80	"	<i>Armeniaca vulgaris</i> , Lam.	Apricot.	124	"	" <i>Fontenaysii</i> , Hort.	Fontenay's Spirea.
81	"	<i>Prunus Sinensis</i> fl. pl., Hort.	Double-flowering Plum.	125	"	" <i>laevigata</i> , L.	Smooth-leaved Spirea.
82	"	" <i>var. triloba</i> , Lind	Rose-flowering Plum.	126	"	" <i>macrophylla</i> , Hort.	Large-leaved Spirea.
83	"	" <i>Americana</i> , Marsh.	Wild Red and Yellow Plum.	127	"	" <i>Niconderti</i> , Hort.	Nicondert's Spirea.
84	"	" <i>domestica</i> , L.	Garden Plum.	128	"	" <i>opulifolia</i> , L.	Nine-bark.
85	"	" <i>Cerasus</i> , L.	Wild Red Cherry.	129	"	" <i>var. aurea</i> , Hort.	Yellow Nine-bark.
86	"	" <i>Pennsylvanica</i> , L.	Wild Red Cherry.	130	"	" <i>prunifolia</i> , S. et Z.	Plum-leaved Spirea.
87	"	" <i>Mahaleb</i> , L.	Mahaleb Cherry.	131	"	" <i>Reevesiana</i> , Lindl.	Reeves' Spirea.
88	"	" <i>Padus</i> , D. C.	European Bird Cherry.	132	"	" <i>var. fl. pl.</i> , Hort.	Reeves' Dbl. flowering Spirea.
89	"	" <i>serotina</i> , Ehrh.	Wild Black Cherry.	133	"	" <i>var. robusta</i> , Hort.	Reeves' Robust Spirea.
90	"	" <i>Virginiana</i> , L.	Choke Cherry.	134	"	" <i>salicifolia</i> , L.	Common Meadow Sweet.
91	Pear,	<i>Pyrus arbutifolia</i> , L.	Common Chokeberry.	135	"	" <i>var. rosea</i> , Hort.	Rose-flowered Meadow Sweet.
92	"	" <i>Malus</i> , L.	Apple Tacc.	136	"	" <i>sorbifolia</i> , L.	Mountain-Ash leaved Spirea.
93	"	" <i>coronaria</i> , L.	Garland Crab Apple.	137	"	" <i>Thunbergii</i> , Bl.	Thunberg's Spirea.
94	"	" <i>prunifolia</i> , Willd.	Siberian Crab Apple.	138	"	" <i>tomentosa</i> , L.	Hardhack.
95	"	" <i>spectabilis</i> , Ait.	Chinese Flowering Apple.	139	"	" <i>ulmifolia</i> , Scop.	Elm-leaved Spirea.
96	"	<i>Sorbus Americana</i> , Willd.	American Mountain Ash.	140	Calycanthus,	<i>Calycanthus floridus</i> , L.	Carolina Allspice.
97	"	" <i>aucuparia</i> , L.	European Rowan Tree	141	Saxifrage,	<i>Philadelphus coronarius</i> , L.	Garland Mock Orange.
98	"	" <i>var. quercifolia</i> , Hort.	Oak leaved Rowan Tree.	142	"	" <i>var. nanus</i> , Mill.	Dwarf Mock Orange.
99	"	<i>Amelanchier</i> Can. Tor., et Gray.	June Berry.	143	"	" <i>var. Zeyheri</i> , Sch.	Zeyher's Philadelphus.
100	"	" <i>var. Botryapium</i> , D. C.	Service Berry.	144	"	" <i>speciosus</i> , Schr.	Showy-flowering Philadelphus.
101	"	<i>Cydonia Japonica</i> , Pers.	Japan Quince.	145	"	" <i>Gordonianus</i> , L.	Gordon's Philadelphus.
102	"	" <i>var. rosea</i> , Hort.	Blush Japan Quince.	146	"	" <i>cordatus</i> , Hort.	Heart-leaved Philadelphus.
103	"	<i>Crataegus tomentosa</i> , L.	Black or Pear Thorn.	147	"	" <i>pubescens</i> , Hort.	Hoary-leaved Philadelphus.
104	"	" <i>coccinea</i> , L.	White or Scarlet-fruited Thorn.	148	"	<i>Deutzia crenata</i> , S. et Z.	Crenate-leaved Deutzia.
105	"	" <i>Oxyacantha</i> , L.	English Hawthorn.	149	"	" <i>var. fl. pl.</i> , Hort.	Double-flowering Deutzia.
106	"	" <i>var. rosea</i> , Hort.	Red Hawthorn.	150	"	" <i>scabra</i> , Hort.	Rough-leaved Deutzia.
107	"	" <i>Pyracantha</i> , Pers.	Evergreen Thorn.	151	"	" <i>gracilis</i> , S. et L.	Slender-branched Deutzia.
108	Rose,	<i>Rosa Carolina</i> , L.	Swamp Rose.	152	"	<i>Hydrangea arborescens</i> , L.	Wild Hydrangea.
109	"	" <i>rubiginosa</i> , L.	Sweet Brier.	153	"	" <i>nivea</i> , Mchx.	Snowy Hydrangea.
110	"	" <i>setigera</i> , Michx.	Prairie Rose.	154	"	" <i>paniculata</i> , Sieb.	Japan Hydrangea.
111	"	<i>Rubus odoratus</i> , L.	Purple-flowering Raspberry.	155	"	<i>Ribes nigrum</i> , L.	Black Currant.

No.	Family.	Botanical Name.	Common Name.
156	Saxifrage.	<i>Ribes sanguineum</i> , Pursh.	Red-flowering Currant.
157	"	" <i>Gordonianum</i> , Lam.	Gord's Currant.
158	"	" <i>aureum</i> , Pursh.	Missouri Currant.
159	"	" <i>floridum</i> , L.	Wild Black "
160	"	" <i>rubrum</i> , L.	Wild Red "
161	"	" <i>Cynosbati</i> , L.	Wild Gooseberry.
162	"	" <i>rotundifolium</i> , Mchx.	Smooth Wild Gooseberry.
163	Witch Hazel.	<i>Hamamelis Virginica</i> , L.	Witch Hazel.
164	Ginseng.	<i>Aralia Spinosa</i> , L.	Hercules Club.
165	"	" <i>Japonica</i> , Thunb.	Japan Angelica Tree.
166	"	<i>Hedera Helix</i> , L.	English Ivy.
167	Dogwood.	<i>Cornus florida</i> , L.	Flowering Dogwood.
168	"	" <i>alternifolia</i> , L.	Alternate-leaved "
169	"	" <i>paniculata</i> , L'Her.	Panicked "
170	"	" <i>sericea</i> , L.	Silky "
171	"	" <i>sanguinea</i> , L.	Red "
172	"	" <i>stolonifera</i> , Mchx.	Red Osier "
173	"	" <i>mas</i> , L.	Cornelian Cherry.
174	"	" <i>var. fol. var.</i> , Hort.	Varietated-leaved Cornel.
B. FLOWERS MONOPETALOUS.			
175	Honeysuckle	<i>Lonicera Periclymenum</i> , L.	English Woodbine.
176	"	" <i>sempervirens</i> , Ait	Trumpet Honeysuckle.
177	"	" <i>var. flava</i> , Sims.	Yellow Trumpet "
178	"	" <i>Belgicum</i> , Hort.	Dutch Fragrant "
179	"	" <i>brachypoda</i> , D. C.	Japan "
180	"	" <i>var. aurea retic.</i> , Hort.	Gold-leaved Japan "
181	"	" <i>Chinensis</i> , Hort.	Chinese "
182	"	" <i>var. Halleana</i> , Hort.	Hall's Chinese "
183	"	" <i>Tartarica</i> , L.	Tartarian "
184	"	" <i>var. rubra</i> , Hort.	Red flowering "
185	"	" <i>var. fragrantissima</i> , Paxt.	Autumn flowering "
186	"	" <i>var. grandifolia</i> , Hort.	Pink flowering "
187	"	" <i>Ledebourii</i> , Esch.	Ledebouri "
188	"	" <i>Xylosteum</i> , L.	English Fly "
189	"	" <i>ciliata</i> , Muhl.	Early Fly "
190	"	" <i>trifida</i> , Moench,	Bush "
191	"	" (<i>Weigelia</i>) <i>rosea</i> , Lindl.	Rose flowering Weigelia.
192	"	" <i>var. alba</i> , Hort.	Blush "
193	"	" <i>amabilis</i> , Carr.	Lovely "
194	"	" <i>var. fol. var.</i> , Hort.	Varietated-leaved "
195	"	" <i>var. hortensis nivea</i> , S. et Z.	White "
196	Honeysuckle	<i>Diervilla</i> , <i>var. Isoline</i> , Hort.	Blush flowering Weigelia.
197	"	" <i>var. nana fol. var.</i> , Hort.	Dwarf variegated "
198	"	<i>Symphoricarpos vulgaris</i> , Mchx.	Coral Berry.
199	"	" <i>racemosus</i> , Mchx.	Snow "
200	"	<i>Viburnum Lantana</i> , L.	Wayfaring Tree.
201	"	" <i>lantanaoides</i> , Mchx.	Hobble Bush.
202	"	" <i>Lentago</i> , L.	Sheep Berry.
203	"	" <i>pyrifolium</i> , poir.	Peartree-leaved Viburnum.
204	"	" <i>nudum</i> , L.	Witherod.
205	"	" <i>prunifolium</i> , L.	Black Haw.
206	"	" <i>dentatum</i> , L.	Arrow Wood.
207	"	" <i>rugosum</i> , Hort.	Rough-leaved Viburnum.
208	"	" <i>acerifolium</i> , L.	Maple-leaved Viburnum.
209	"	" <i>Nepalensis</i> , Hort.	Nepal Viburnum.
210	"	" <i>Opulus</i> , L.	Snowball.
211	"	" <i>Oxycoccus</i> , Pursh.	Highbush Cranberry.
212	"	<i>Sambucus Canadensis</i> , L.	Common Elder.
213	"	" <i>pubens</i> , Mchx.	Redberried Elder.
214	"	" <i>nigra</i> , L.	European Elder.
215	"	" <i>var. laciniata</i> , Mill.	Cutleaved Elder.
216	"	" <i>racemosa</i> , L.	European Redberried Elder.
217	"	" <i>var. fol. var.</i> , Hort.	Varietated-leaved Elder.
218	"	" <i>var. aurea</i> , Hort.	Gold-leaved Elder.
219	"	" <i>var. laciniata</i> , Hort.	Cutleaved Red Elder.
220	Heath,	<i>Rhododendron maximum</i> , L.	Wild Rosebay.
221	"	" <i>hybridum</i> , Hort.	Garden Rosebay.
222	"	<i>Azalea viscosa</i> , L.	Clammy Azalea.
223	"	" <i>nudiflora</i> , L.	Purple Azalea.
224	"	" <i>Pontica</i> , L.	Ghent Azalea.
225	"	<i>Kalmia latifolia</i> , L.	Mountain Laurel.
226	"	" <i>glauca</i> , Ait.	Pale Laurel.
227	"	<i>Cassandra calyculata</i> , Don.	Leather Leaf.
228	"	<i>Ledum latifolium</i> , Ait.	Labrador Tea
229	"	<i>Vaccinium corymbosum</i> , L.	Swamp Blueberry.
230	"	" <i>stamineum</i> , L.	Deerberry
231	"	<i>Clethra alnifolia</i> , L.	Sweet Pepperbush.
232	Holly,	<i>Ilex verticillata</i> , L.	Winter Berry.
233	Storax,	<i>Halesia tetraptera</i> , L.	Snowdrop Tree.
234	Madder,	<i>Cephalanthus occidentalis</i> , L.	Button Bush.
235	Bignonia,	<i>Tecoma radicans</i> , Juss.	Trumpet Creeper.
236	"	<i>Catalpa bignonioides</i> , Walt	Indian Bean Tree.
237	"	" <i>Kumpferi</i> .	Kumpfer's Catalpa.
238	"	" <i>Bungei</i> , C. C. Mey	Bunge's Catalpa
239	Figwort,	<i>Paulownia imperialis</i> , Sieb.	Paulownia.

No.	Family	Botanical Name.	Common Name.	No.	Family	Botanical Name.	Common Name.
240	Vervain	Callicarpa Americana, L.	French Mulberry.	280	Oleaster,	Elaeagnus argentea, Pursh.	Silverberry.
241	Milkweed,	Periploca Graeca, L.	Virginia Silk	281	Spurge,	Buxus sempervirens, L.	Tree Box.
242	Nightshade,	Solanum Dulcamara, L.	Bittersweet.	282	Elm,	Ulmus campestris, L.	English Elm.
243	"	Lycium Europaeum, L.	European Boxthorn,	283	"	var. purpurea, Hort.	Purple-leaved Elm.
244	Olive,	Forsythia viridissima, Lindl.	Green-stemmed Golden Bell.	284	"	montana, Bauh.	Scotch Elm.
245	"	" suspensa, Thunb.	Weeping Golden Bell.	285	"	var. suberosa, Moench,	Cork Elm.
246	"	" Fortunii.	Fortune's Golden Bell	286	"	var. superba, Hort.	Blandford Elm.
247	"	Syringa vulgaris, L.	Common Lilac.	287	"	var. Huntingdon, Hort.	Huntingdon Elm.
248	"	" var. alba, Hort.	White Lilac.	288	"	Americana, L.	White Elm.
249	"	" Persica, L.	Persian Lilac.	289	"	fulva, Mchx.	Red Elm.
250	"	" var. alba, Hort.	White Persian Lilac.	290	"	Celtis occidentalis, L.	Hackberry.
251	"	" Josikaea Jacq.	Hungarian Lilac.	291	Fig,	Morus alba, L.	White Mulberry.
252	"	" Emodi, Wall.	Himalayan Lilac.	292	"	rubra, L.	Red Mulberry.
253	"	Ligustrum vulgare, L.	Common Privet.	293	"	Maclura aurantiaca, Nutt.	Osage Orange.
254	"	" lucidum, Ait.	Chinese Privet.	294	Plane Tree,	Platanus occidentalis, L.	Western Plane.
254	"	Chionanthus Virginica, L.	Fringe Tree.	295	"	" orientalis, L.	Eastern Plane.
255	"	Fraxinus Ornus, L.	Flowering Ash.	296	Walnut,	Juglans nigra L.	Black Walnut.
256	"			297	"	" cinerea, L.	Butternut.
C. FLOWERS APETALOUS.							
257	Olive.	Fraxinus excelsior, L.	English Ash.	298	"	Carya alba, Nutt.	Shelbark Hickory.
258	"	var. pendula, Hort.	Weeping Ash.	299	"	" amara, Nutt.	Bitternut Hickory.
259	"	var. salicifolia, Hort.	Willow-leaved Ash.	300	Oak,	Quercus Robur, L.	English Oak.
260	"	var. heterophylla, Vahl.	Single-leaved Ash.	301	"	" Cerris, L.	Turkey Oak.
261	"	Americana, L.	White Ash.	302	"	alba, L.	White Oak.
262	"	var. juglandifolia, Hort.	Walnut-leaved Ash.	303	"	macrocarpa, Mchx.	Burr Oak.
263	"	var. aucubifolia, Hort.	Aucuba-leaved Ash.	304	"	discolor, Mchx.	Swamp White Oak.
264	"	var. rufa, Hort.	Single-leaved Ash.	305	"	coccinea, Wang.	Scarlet Oak.
265	"	pubescens Lam.	Red Ash.	306	"	rubra, L.	Red Oak.
266	"	sambucifolia, Lam.	Black Ash	07	"	tinctoria, Bart.	Black Oak.
267	Ranunculus.	Clematis coerulea, Lindl.	Blue Clematis.	308	"	palustris, Willd.	Pin Oak.
268	"	" Viticella, Moench.	Vine Bower Clematis.	309	"	Prinus, L.	Chestnut Oak.
269	"	Virginiana, L.	Virgin's Bower Clematis.	310	"	Castanea vesca, L.	Spanish Chestnut.
270	Witch Hazel.	Liquidambar styraciflua, L.	Sweet Gum.	311	"	var. Americana Don.	American Chestnut.
271	Dogwood,	Nyssa multiflora, Wang.	Sour Gum.	312	"	Fagus ferruginea, Ait.	American Beech.
272	Laurel,	Sassafras officinale, Nees	Sassafras.	313	"	sylvatica, L.	European Beech.
273	"	Benzoin odoriferum, Nees.	Spice Bush.	314	"	var. purpurea, Hort.	European Purple Beech.
274	Mezerium,	Daphne Mezereum, L.	Mezerium.	315	"	var. pendula, Hort.	European Weeping Beech.
275	"	Dirca palustris, L.	Leatherwood.	316	"	var. asplenifolia, Hort.	European Fern-leaved Beech.
276	Oleaster,	Hippophae Rhamnoides, L.	Sallowthorn.	317	"	Corylus Americana, Walt.	American Hazelnut.
277	"	Shepherdia Canadensis, Nutt.	Canadian Sheperdia.	318	"	" avellana, Willd.	European Hazelnut.
278	"	" argentea, Nutt.	Buffalo Berry.	319	"	var. purpurea, Hort.	Purple Fülbert.
279	"	Elaeagnus hortensis, Pursh.	Wild Olive.	320	"	Carpinus Betulus, L.	European Hornbeam.
				321	"	" Americana, Mchx.	American Hornbeam.
				322	"	Ostrya Virginica, Willd.	Hop Hornbeam.
				323	Birch,	Betula lenta, L.	Sweet or Cherry Birch.

No.	Family.	Botanical Name.	Common Name.	No.	Family.	Botanical Name.	Common Name.
324	Birch,	<i>Betula lutea</i> , Mchx.	Yellow Birch.	360	Pine,	<i>Pinus Cembra</i> , L.	Swiss Stone Pine.
325	"	" <i>papyracea</i> , Ait.	Canoe Birch.	361	"	" <i>Ayacahuite</i> , Ehr.	Ayacahuite Pine.
326	"	" <i>alba</i> , L.	European White Birch.	362	"	" <i>Strobus</i> , L.	White Pine.
327	"	" <i>var. laciniata</i> , Hort.	Cut-leaved White Birch.	363	"	" <i>var. nana</i> , Hort.	Dwarf White Pine.
328	"	<i>Alnus incana</i> , Willd.	Hoary Alder.	364	"	<i>Picea balsamea</i> , Loud.	Balsam Fir.
329	"	" <i>serrulata</i> , Ait.	Smooth Alder.	365	"	" <i>Hudsonica</i> , Knight.	Hudson's Bay Fir.
330	"	" <i>glutinosa</i> , L.	European Alder.	366	"	" <i>Cephalonica</i> , Loud.	Cephalonian Silver Fir.
331	"	" <i>var. laciniata</i> , Hort.	Cut-leaved Alder.	367	"	" <i>Nordmanniana</i> , Loud.	Nordmann's Silver Fir.
332	Willow,	<i>Salix Babyloica</i> , L.	Weeping Willow.	368	"	" <i>Pichta</i> , Loud.	Siberian Silver Fir.
333	"	" <i>alba</i> , L.	White Willow.	369	"	" <i>firma</i> , Sieb.	Japan Silver Fir.
334	"	" <i>var. vitellina</i> , L.	Gold-barked Willow.	370	"	<i>Abies Canadensis</i> , Mchx.	Hemlock Spruce.
335	"	" <i>nigra</i> , Marsh.	Black Willow.	371	"	" <i>alba</i> , Mchx.	White Spruce.
336	"	" <i>humilis</i> , Marsh.	Low Bush Willow.	372	"	" <i>nigra</i> , Poir.	Black Spruce.
337	"	" <i>viminalis</i> , L.	Basket Willow.	373	"	" <i>excelsa</i> , D. C.	Norway Spruce.
338	"	" <i>longifolia</i> , Muhl.	Long-leaved Willow.	374	"	" <i>var. conica</i> , Hort.	Dwarf Norway Spruce.
339	"	" <i>linearis</i> , Forbes.	Narrow-leaved Willow.	375	"	" <i>var. Gregoriana</i> , Hort.	Gregory's Dwarf Spruce.
340	"	" <i>rosmarinifolia</i> , Pursh.	Rosemary Willow.	376	"	" <i>Douglasii</i> , Lindl.	Douglas' Spruce.
341	"	" <i>purpurea</i> , Koch.	Purple Willow.	377	"	" <i>orientalis</i> , Poir.	Oriental Spruce.
342	"	" <i>lucida</i> , Muhl.	Shining Willow.	378	"	<i>Larix Americana</i> , Mchx.	American Larch.
343	"	" <i>caprea</i> , L.	Goat Willow.	379	"	" <i>Europaea</i> , D. C.	European Larch.
344	"	" <i>var. pendula</i> , Hort.	Kilmarnock Willow.	380	"	" <i>var. pendula</i> , Lodd.	Weeping Larch.
345	"	" <i>tremula pendula</i> , Hort.	Abele, or White Poplar.	381	"	<i>Pseudo-Larix Kumpferi</i> , Gordon.	Kumpfer's False Larch.
346	"	" <i>tremula pendula</i> , Hort.	Weeping Poplar.	382	Cypress,	<i>Juniperis communis</i> , L.	Common Juniper.
347	"	" <i>tremuloides</i> , Mchx.	American Aspen.	383	"	" <i>Hibernica</i> , Hort.	Irish Juniper.
348	"	" <i>grandidentata</i> , Mchx.	Great-toothed Aspen.	384	"	" <i>suecica</i> , Mill.	Sweedish Juniper.
349	"	" <i>nigra</i> , L.	Italian Poplar.	385	"	" <i>Sinensis</i> , L.	Chinese Juniper.
350	"	" <i>fastigiata</i> , Desf.	Lombardy Poplar.	386	"	" <i>Virginiana</i> , L.	Red Cedar.
351	"	" <i>monilifera</i> , Ait.	Cottonwood.	387	"	" <i>var. glauca</i> , Lodd.	Grey-leaved Red Cedar.
352	"	" <i>angulata</i> , Ait.	Cottonwood.	388	"	" <i>squamata</i> , Don.	Scaly-leaved Juniper.
353	"	" <i>balsamifera</i> , L.	Balsam Poplar.	389	"	" <i>repens</i> .	Carpet Juniper.
				390	"	<i>Retinospora obtusa</i> , Sieb.	Blunt-leaved Retinospora.
				391	"	" <i>pisifera</i> , Sieb.	Pea-fruited "
				392	"	" <i>var. aurea</i> , Fort.	Gold-leaved "
				393	"	<i>Thuja occidentalis</i> , L.	White Cedar.
				394	"	" <i>var. Siberica</i> , Hort.	Siberian Arborvitae.
				395	"	" <i>var. ericoides</i> , Hort.	Heath leaved "
				396	"	" <i>plicata</i> , Hort.	Nec's plicate "
				397	"	<i>Biota Nepalensis</i> , Endl.	Nepaul "
				398	"	" <i>orientalis</i> , Endl.	Chinese "
				399	"	" <i>orientalis aurea</i> , Hort.	Gold-leaved "
				400	"	<i>Cupressus Lawsoniana</i> , Murray.	Lawson's Cypress.
				401	"	<i>Taxodium distichum</i> , Richard.	Swamp Cypress
				402	Yew,	<i>Taxus adpressa</i> , Carr.	Japan Yew.
				403	Yew,	<i>Taxus, baccata</i> , Thunb.	English Yew.
				404	"	" <i>var. stricta</i> , Hort.	Erect Yew.
				405	"	" <i>var. aurea</i> , Hort.	Gold-leaved Yew.
				406	"	" <i>var. Dovastoni</i> , Hort.	Weeping Yew.
				407	"	" <i>Canadensis</i> , Lodd.	Ground Hemlock.
				408	"	<i>Salisburia adiantifolia</i> , Smith.	Maiden-Hair Tree.

CLASS II — GYMNOSPERMOUS PLANTS.

354	Pine,	<i>Pinus Austriaca</i> , Hoss.	Austrian Pine.
355	"	" <i>Laricio</i> , Endl.	Corsican Pine.
356	"	" <i>Mugho</i> , Bank	Mugho Pine.
357	"	" <i>Massoniana</i> , Sieb.	Japan Pine.
358	"	" <i>sylvestris</i> , L.	Scotch Pine.
359	"	" <i>Jeffreyi</i> , Hort.	Jeffrey's Pine.

SURVEY OF BUFFALO'S OLMSTED PARKS SUMMER 1979
FOR NATIONAL REGISTER OF HISTORIC PLACES NOMINATION

PLANTING LIST FOR CITY OF BUFFALO,
DELAWARE PARK & ALBRIGHT ART GALLERY.

Olmsted Brothers,
Landscape Architects,

16th Dec. 1903

1. 1 1/2' apart, 43 plants, *Pinus mugho*, Dwarf Pine
2. 2 1/2' apart, 4 plants, *Cornus sanguinea*, European Red Dogwood
3. 3 plants, *Quercus rubra*, Red Oak
5. 118 plants, *Euonymus radicans*, Evergreen Creeper
7. 1' apart, 145 plants, *Viburnum opulus nana*, Dwarf Snowball
10. 1 1/2' apart, 15 plants, *Yucca filamentosa*, Adam's Needle
11. 1 bed, 15 plants, 2' apart,
Pinus mugho, Dwarf Pine, 10 plants
Cornus sanguinea, European Red Dogwood, 5 plants
13. 4 beds, 65 plants, 3' apart,
Viburnum cassinoides, Witherod, 25 plants
Pyrus japonica, Japan Quince, 40 plants
14. 5 beds, 336 plants, 1' apart,
Euonymus obovatus, Trailing Euonymus, 60 plants
Iberis sempervirens, Candytuft, 100 plants
Vinca minor, Periwinkle, 175 plants
15. 10 beds, 335 plants, 2' apart,
Calycanthus floridus, Sweet Shrub, 60 plants
Dirca palustris, Leatherwood, 75 plants
Pinus mugho, Dwarf Pine, 40 plants
Euonymus obovatus, Trailing Euonymus, 60 plants
Vinca minor, Periwinkle, 100 plants
16. 2 beds, 25 plants, 2 1/2' apart,
Ribes Sanguineum, Crimson flowered Currant, 10 plants
Xanthorrhiza apiifolia, Yellow root, 15 plants
18. 18 beds, 473 plants, 1 1/2' apart,
Yucca Filamentosa, Adam's Needle, 60 plants

PLANTING LIST FOR CITY OF BUFFALO,
DELAWARE PARK & ALBRIGHT ART GALLERY.

18. *Taxus canadensis*, Ground Hemlock, 100 plants
Diervilla sessilifolia, Mountain bush Honeysuckle, 50 plants
Pachysandra terminalis, Japan Spurge, 75 plants
Euonymus obovatus, Trailing Euonymus, 63 plants
Vinca minor, Periwinkle, 100 plants
19. 6 beds, 91 plants, 2 1/2' apart,
Diervilla sessilifolia, Mountain Bush Honeysuckle, 20 plants
Ribes sanguineum, Red Flowering Currant, 14 plants
Serberis thunbergii, Thunberg's Barberry, 15 plants
Symphoricarpos vulgaris, Indian Currant, 20 plants
Vinca minor, Periwinkle, 25 plants
20. 5 beds, 70 plants, 3' apart
Viburnum lantana, Wayfaring tree, 10 plants
Euonymus alata, Cork-bark Euonymus, 10 plants
Celastrus articulatus, Japan Staff Tree, 25 plants
Viburnum cassinoides, Witherod, 10 plants
Philadelphus gordonianus, Gordon's Mock Orange, 15 plants
21. *Acer rubrum fastigiata*, Columbian Red Maple, 6 plants
23. 5 beds, 97 plants, 3 1/2' apart,
Ligustrum vulgare, Common Privet, 20 plants
Thuja occidentalis globiosa, Globe arbor vitae, 10 plants
Calycanthus floridus, Sweet Shrub, 20 plants
Berberis vulgaris, Common Barberry, 17 plants
Symphoricarpos vulgaris, Indian Currant, 30 plants
26. 4 beds, 10 plants, 1' apart,
Euonymus obovatus, Trailing Euonymus, 21 plants
Taxus canadensis, Ground Hemlock, 40 plants
Vinca minor, Periwinkle, 40 plants
27. 5 beds, 113 plants, 3' apart
Cydonia japonica, Japan Quince, 23 plants
Viburnum cassinoides, Witherod, 30 plants
Symphoricarpos vulgaris, Indian Currant, 40 plants
Viburnum lantana, Wayfaring tree, 20 plants
28. *Juniperus virginiana*, Red Cedar, 38 plants
35. *Berberis thunbergii*, 1' apart, Thunberg's Barberry

SURVEY OF BUFFALO'S OLMSTED PARKS SUMMER 1979
FOR NATIONAL REGISTER OF HISTORIC PLACES NOMINATION

RIVERSIDE PARK, BUFFALO, N.Y.

LIST TO ACCOMPANY PLANTING STUDY

Olmsted Brothers,
Landscape Architects,

Brookline, Massachusetts
April 10th, 1898

1. 13 beds, 158 plants, 4' apart,
Cornus stolonifera, Michx., Red-stemmed Dogwood
2. 1 bed, 28 plants, 5' apart,
Corylus rostrata, Ait., Beaked Hazel, 14 plants
Corylus americana, Walt, Hazel, 14 plants
3. 2 beds, 31 plants, 3 1/2' apart,
Berberis vulgaris, L., Barberry, 31 plants
4. 4 beds, 121 plants, 3' apart,
Ilex verticillata, Gray, Winterberry, 121 plants
5. 17 beds, 890 plants, 4' apart,
Berberis vulgaris, B., Common Berry, 150 plants
Viburnum cassinoides, L., Withe Rod, 100 plants
Viburnum prunifolium, L., Black Haw, 100 plants
Vaccinium corymbosum, L., Highbush Blue berry, 140 plants
Cornus paniculata, L'Her., Panicked Cornel, 200 plants
6. 12 beds, 621 plants, 5' apart,
Hydrangea arborescens, L., Tree Hydrangea, 150 plants
Cornus stolonifera, Michx., Red-stemmed Osier, 45 plants
Cornus mas, L., Cornelian Cherry, 125 plants
Zanthoxylum americana, Prickly Ash, 51 plants (Mill.)
Viburnum lentago, L., Sheepberry, 50 plants
Lindera benzoin, Blume., Spicebush, 150 plants
Vaccinium corymbosum, L., Highbush Blueberry, 50 plants
7. 7 beds, 271 plants, 7' apart,
Carpinus caroliniana, Walt., Hornbean, 30 plants
Betula lenta, L., Cherry Birch, 30 plants
Cornus florida, L., Flowering Dogwood, 88 plants
Viburnum lantana, L., European Wayfaring Tree, 80 plants
Amelanchier canadensis, (Torr. & Gray) Service-berry, 20 plants
Crataegus crus-galli, L., Cockspur Thorn, 25 plants
Crataegus cordata, Ait., Washington Thorn, 15 plants
Celastrus scandens, L., Bitter-sweet, 20 plants
Viburnum lentago, L., Sheep-berry, 20 plants

RIVERSIDE PARK, BUFFALO, N.Y.

LIST TO ACCOMPANY PLANTING STUDY

8. 28 beds, 952 plants, 2' apart,
Calycanthus floridus, L., Strawberry Bush, 300 plants
Clethra alnifolia, L., Sweet Pepperbush, 250 plants
Ilex glabra, Gray, Inkberry, 152 plants
Pyrus arbutifolia, L.f., Chokeberry, 150 plants
Andromeda ligustrina, Muhl., Andromeda, 100 plants
9. 18 beds, 1368 plants, 3' apart,
Ceanothus americana, L., New Jersey Tea, 200 plants
Symphoricarpos vulgaris, Michx., Indian Currant, 150 plants
Clethra alnifolia, L., Sweet Pepperbush, 100 plants
Diervilla trifida, Moench, Bush Honeysuckle, 200 plants
Evonymus obovatus, Nutt., Dwarf Strawberry Bush, 168 plants
Gaylussacia resinosa, Torr. & Gary, Black Huckleberry, 100 plants
Vaccinium vacillana, Soland, Low Blueberry, 100 plants
Viburnum acerifolium, L., Arrowwood, 200 plants
Andromeda resinosa, L., Andromeda, 150 plants
10. 7 beds, 171 plants, 2 1/2' apart,
Andromeda mariana, Jacq., Staggerbush, 71 plants
Leucothoe catesbaei, A. Gray, Leucothoe, 100 plants
11. 4 beds, 68 plants, 2 1/2' apart,
Leucothoe catesbaei, A. Gray, Leucothoe
12. 6 beds, 57 plants, 6' apart,
Sambucus canadensis, L., Common Elder
13. 1 bed, 330 plants, 1 1/2' apart,
Anemone pennsylvanica, Wood Anemone, 200 plants
Anemone nemorosa, L., Wind Flower, 130 plants
14. 18 beds, 212 plants, 4' apart, 213 plants,
Celastrus scandens, L., Bitter-sweet
15. 3 beds, 119 plants, 3' apart,
Zanthorrhiza apiifolia, L. Her., Yellow-root, 119 plants
16. 2 beds, 129 plants, 5' apart,
Hamamelis virginica, L., Witch Hazel, 20 plants
Viburnum lantana, L., Sheepberry, 20 plants
Acer spicatum, L., Mountain Maple, 20 plants
Ligustrum vulgare, L., Common Privet, 29 plants
Viburnum dentatum, L., Arrowwood, 40 plants
17. 4 beds, 43 plants, 5' apart,
Hamamelis virginica, L., Witch Hazel, 43 plants

RIVERSIDE PARK, BUFFALO, N.Y.

LIST TO ACCOMPANY PLANTING STUDY

18. 16 beds, 449 plants, 2' apart,
Clethra ainifolia, L., Sweet Pepperbush, 449 plants
19. 2 beds, 23 plants, 3' apart,
Andromeda ligustrina, Muhl., Andromeda, 23 plants
20. 10 beds, 148 plants, 3' apart,
Berberis thunbergii, D.C., Thunberg's Barberry, 148 plants
21. 7 beds, 89 plants, 3 1/2' apart,
Cydonia japonica, Pers., Japan Quince, 69 plants
22. 2 beds, 15 plants, 3' apart,
Spiraea thunbergii, Sieb. & Zucc., Thunberg's Spiraea, 15 plants
23. 5 beds, 72 plants, 2 1/1' apart,
Symphoricarpos vulgaris, (Michx.) Indian Currant, 72 plants
24. 23 beds, 385 plants, 3 1/3' apart,
Berberis thunbergii, D.C., Thunberg's Barberry, 150 plants
Cydonia japonica, Pers., Japan Quince, 150 plants
Lycium barbarum, L., Matrimony Vine, 85 plants
25. 4' apart, 42 plants,
Ampelopsis quinquefolia, (Michx.) Woodbine
26. 51 beds, 1710 plants, 4' apart
Cornus stolonifera, Michx., Red Osier, 310 plants
Viburnum dentatum, L., Arrowwood, 200 plants
Pyrus arbutifolia, L.F., Chokeberry, 500 plants
Berberis vulgaris, L., Common Barberry, 200 plants
Clethra ainifolia, L., Sweet Pepperbush, 200 plants
Cephalanthus occidentalis, L., Button-bush, 300 plants
27. 25 beds, 975 plants, 2' apart,
Myrica gale, L., Bayberry, 125 plants
Ceanothus americana, L., New Jersey Tea, 300 plants
Myrica asplenifolia, L., Sweet Fern, 100 plants
Rosa blanda, Ait., Early Wild Rose, 150 plants
Clethra ainifolia, L.f., Sweet Pepperbush, 100 plants
Rosa nitida, Willd., Glossy Rose, 150 plants
Lycium barbarum, L., 150 plants

RIVERSIDE PARK, BUFFALO, N.Y.

LIST TO ACCOMPANY PLANTING STUDY

28. 9 beds, 370 plants, 3' apart,
Prunus maritima, Wang., Beach Plum, 200 plants
Prunus pumila, L., Sand Cherry, 170 plants
29. 4 beds, 171 plants, 6' apart,
Ptelea trifoliata, L., Hop Tree, 50 plants
Cornus mas, L., Cornelian Cherry, 21 plants
Zanthoxylum americana, Mill, Prickly Ash, 100 plants
30. Acer saccharinum, Wang., Sugar Maple, 1 plant
31. Acer platanoides, L., Norway Maple, 1 plant
32. Fraxinus americanus, L., American Ash, 2 plants
33. Platanus occidentalis, L., Sycamore, 5 plants
34. Quercus velutina, Lam., Black Oak, 8 plants
35. Quercus rubra, L., Red Oak, 68 plants
36. Tsuga canadensis, Carr., Hemlock, 16 plants
37. Betula rubra, Michx., River Birch, 6 plants
38. Quercus palustris, Moench, Pin Oak, 38 plants
39. Acer rubrum, L., Red Purple, 65 plants
40. 3 beds, 43 plants, 4' apart,
Forsythia fortuneii, Hort., Fortune's Golden Bell
41. Clematis paniculata, Thunb., Clematis, 1 plant
42. Wistaria chinensis, D.C., Chinese Wistaria, 20 plants
43. 3 beds, 38 plants, 3' apart,
Viburnum acerifolium, L., Dockmackie, 15 plants
Andromeda racemosa, L., Andromeda, 10 plants
Andromeda mariana, Jacq., Staggerbush, 13 plants
44. 7 beds, 120 plants, 2' apart,
Azalea viscosum, L., Clammy Azalea, 80 plants
Azalea nudiflorum, L., Swamp Azalea, 40 plants
45. 2 beds, 53 plants, 2 1/3' apart, 53 plants,
Rhus aromatica, L., Fragrant Sumac