

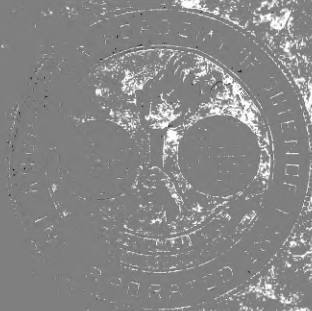
PROCEEDINGS OF THE BUREAU OF THE ACADEMY OF SCIENCES
OF THE GARDEN

PLANTS OF MONROE COUNTY, NEW YORK
AND ADJACENT TERRITORY
WITH A SUPPLEMENTARY LIST

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PLANTS OF MONROE COUNTY, NEW YORK, AND
ADJACENT TERRITORY.

SECOND SUPPLEMENTARY LIST.

BY FLORENCE BECKWITH, MARY E. MACAULEY AND
MILTON S. BAXTER,

Committee of the Botanical Section.

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EXPLANATION.

In 1896 the Botanical Section of the Rochester Academy of Science published its first list of the "Plants of Monroe County, New York, and Adjacent Territory," the result of labors extending over many years.

In May, 1910, a "Supplementary List" was published covering the same territory, adding 225 new species and giving about one hundred new stations for plants which were considered rare or scarce. Since the issuing of the second list so many new species have been discovered by the members of the Section, and so many new stations for rare and scarce plants disclosed, that the publication of another Supplementary List has been deemed advisable. This list has been compiled from the records of the Section, and only such plants are included as have been identified by experts, and of which specimens are available for verification in the collections

of the Academy and of the Park Commission at Rochester, in the State Herbarium at Albany, the National Herbarium at Washington, or in private collections of the members. Our acknowledgments are due to the State Botanist and to several members of the staff of the National Herbarium for their kindness in the identification of species.

In Rochester and vicinity many trees remarkable for size, beauty of form or rarity are to be found. Mr. John Dunbar, Assistant Superintendent of Parks, whose knowledge of the trees of the region is widespread and thorough, kindly consented to describe some of the most noteworthy specimens and give their locations.

Mr. Fred S. Boughton, a member of the Botanical Section, has devoted several years of study to the Hymenomycetæ of Rochester and some of the adjoining towns, and the results of his labors are given in a list following that of the flowering plants. Mr. Boughton is a close and indefatigable student, and his labors have been recognized by having his name given to two new species which he discovered, one in the Adirondacks and the other in Monroe county: *Lactarius Boughtonii* Pk. and *Hypholoma Boughtonii* Pk.

TERRITORY INCLUDED.

The territory included covers the same area as the lists of 1896 and 1910, comprising the whole of Monroe county and parts of Genesee, Livingston, Ontario, Orleans and Wayne counties, being in general the lower drainage basin of the Genesee river, with that of Irondequoit creek and smaller streams upon the lake border. Localities in Ontario county which had not been thoroughly explored previously, have within the last two years been visited many times by our members, and, in consequence, a number of new species and several new stations for rare and scarce plants have been added to our list.

INTRODUCTION OF SPECIES.

The number of introduced species is increasing rapidly every year. Many of these introductions are western plants and are found along the railroad tracks, which have been quite regularly patrolled by some of our members every season.

In the summer of 1909 several species of plants foreign to our flora were found at Highland Park, in the southern part of the city. These plants were growing on newly seeded portions of the park. The grass seed used in sowing these places had been purchased from several different dealers and then mixed, so it was impossible to trace its origin, but the new species were mostly western plants.

The same stock of grass seed was used for seeding the slopes of the Cobb's Hill reservoir, then lately completed, and the following year a large number of new species of plants were found thriving vigorously in this new home. Through the kindness of Mr. C. C. Laney, Superintendent of Parks, these new plants were allowed to grow unmolested, and they increased in number and variety until 36 species foreign to our district had been found around the reservoir and at Highland Park.

After a few years it became impracticable to allow the grass on the slopes of the reservoir to remain uncut. For at least three or four years mowers have been regularly run over the ground and the plants have had to try to hold their own and make their way as best they could. It speaks well for their sturdiness and persistence that the majority of them have retained their hold and still survive. During the summer of 1916 representatives of nearly all the new species were found growing in more or less vigor, although, as a result of their being so frequently decapitated, many of them have not been allowed to blossom and so have not increased in abundance. Occasionally some in a favored location, close to a protecting tree or shrub, or on the steep sides of the reservoir where they have escaped the sharp teeth of the mowers, still not only survive but bloom quite freely. As it seems unlikely that any of them will ever become pernicious weeds, it is hoped that no particular pains will be taken to eradicate them, and that they will be allowed to live and thrive, for it adds interest to our flora to have these far western plants domesticated here.

The following list gives the names of these foreign species, all of them determined by the State Botanist, and all represented in the herbarium of the Academy, or the State herbarium, or in the collections of the members of the Botanical Section:

- Stipa comata* Trin. & Rup.
Bouteloua oligostachya (Nutt.) Torr.
Hordeum jubatum L.
Atriplex rosea L.
Chrysothamnus pinifolius Greene
Oenothera pallida Lindl.
Verbena bracteosa Michx.
Grindelia squarrosa (Pursh) Dunal
 " " var. *nuda* A. Gray
Chrysothamnus pinifolius Greene
Gutierrezia Sarothrae Britton & Rusby
Sideranthus gracilis (Nutt.) Rydb.
Aster multiflorus Ait.
Machaeranthera tanacetifolia (H. B. K.) Nees
 " *pulverulenta* (Nutt.) Greene
Gymnolomia multiflora (Nutt.) Benth. & Hook.
Helianthus petiolaris Nutt.
Lychnis alba Mill.
Lobularia maritima (L.) Desv.
Sisymbrium Sophia L.
Anthyllis vulneraria L.
Erodium cicutarium L.
Bidens tenuisecta A. Gray
Chaenactis stevioides Hook. & Arn.
Dyssodia papposa (Vent.) Hitch.
Artemisia dracunculoides Pursh
 " *glauca* Pall.
 " *filifolia* Torr.
 " *frigida* Willd.
 " *biennis* Willd.
 " *gnaphaloides* Nutt.
 " *trifida* Nutt.
 " *carruthi* Wood
Senecio eremophilus Rich.
Carduus crispus L.
Lygodesmia exigua A. Gray

Epilobium hirsutum L. was first found on the tracks of the New York Central railroad near Bergen in 1913. In 1914 it was found in a swamp two or three miles north of Scottsville; in 1915 in the southern part of the village of Scottsville; in 1916 in Rochester, Mendon and various other places, showing how rapidly new plants are disseminated.

A number of plants which were noted as rare or scarce in our previous lists, are now reported from various stations. Notably among these is *Serapias Helleborine* L. [*Epipactis Helleborine* Gray.] In our list of 1896 one station was given for it, the third reported in the State. In the Supplementary List, published in 1910, five new stations were reported, but it was still considered scarce. In the present list four more stations are given, and, in fact, it is being found in so many places that we are beginning to consider it almost common.

Sisymbrium altissimum L., first given in our list of 1910, has become so plentiful as to be considered pestiferous.

NEW SPECIES.

In the Seventh Edition of Gray's Botany many genera have been entirely revised, resulting in the addition of numerous species. This has afforded an opportunity for the critical study of several of our common genera, and has shown that in our territory a large percentage of the new species are present. This is notably the case in the genus *Viola*, to which 11 new species have been added, and to the genus *Antennaria*, which now includes 8 species, instead of the single one of our former list. Other genera, to a less degree, have also been studied with like results, and it is believed that continued investigation will show the presence of many species not yet included in our lists.

The studies on *Crataegus*, *Carya* and *Malus* have been continued by Messrs. Dunbar, Slavin, Brown, Baxter and Dewing, and many species from this locality have been described by Dr. Sargent. References to the original publications are given with the species. Twenty-three new species of *Crataegus* and nine new *Carya* are given in the present list.

REDISCOVERY OF SPECIES.

In our list of 1896 a number of species were noted which had not been reported for several years. Some of these have since been rediscovered. *Gentiana puberula* Michx. was found at Bushnell's Basin in 1914, only to have the station entirely destroyed before another year. *Buchnera Americana* L. has been found in two localities. *Spiraea tomentosa* L. has been discovered in Simpson's woods. *Abies balsamea* Mill. was found at Springwater and Gulick, Ontario county. Although these are not in all cases the original stations, it shows that the species noted are still to be found within our territory, and it is possible that others which have not been reported of late years will be brought to light by the persistent search of our botanists.

NOTEWORTHY TREES IN ROCHESTER AND VICINITY.

BY JOHN DUNBAR.

During the past sixty to seventy years the city of Rochester has been an important nursery center. A number of progressive nurserymen introduced many trees from various foreign sources to be tested in their grounds and sold to customers if they proved to be sufficiently hardy. The firm of Ellwanger & Barry did a great deal of work, at great expense, in introducing, testing and distributing many interesting trees from various parts of the world, and many of these are now to be seen in the City of Rochester and vicinity.

The Valley of the Genesee in the vicinity of Rochester is particularly adapted, through favorable climatic conditions, for growing many of the hardy trees of the north temperate zone. For example, the Chinese Magnolias, and hybrids derived from these Magnolias, grow with remarkable success in Rochester and vicinity. Perhaps there is no other city in the northeastern United States where these Magnolias grow any more freely. *Paulownia imperialis*, Sieb. & Zucc., from China and Japan, is well known to be a tender tree and fails in many parts of the northern United States, but it succeeds very well in Rochester.

The purpose of this paper is to record some of the most notable foreign trees in Rochester and vicinity, and a few of the most prominent of the native trees. The circumference of the trees has been ascertained four feet from the base, unless otherwise stated. The heights of all the trees has been estimated, and as this is a matter of judgment, without correct measurement, these heights are to be taken as approximately correct.

Ginkgo biloba Linn., the Maidenhair Tree, has been planted liberally throughout the city. The largest individual grows at No. 455 Lake Avenue. This is the old home of the late James Whitney. The circumference is 8.1 feet, and the height is 60 feet. Judging by its appearance, it might have been planted sixty years since. On the Ellwanger & Barry grounds near the office, on Mt. Hope Avenue, there is a Maidenhair Tree with a circumference at three feet above the base of 6.5 feet, and the height is 55 feet. On what used to be the nursery grounds of the late T. B. Yale & Son at the Winton Road near the canal bridge a Maidenhair Tree with a girth of 5.2 feet, and a height of 65 feet, shows a greater height than the other two on account of proximity, perhaps, to other trees. The Maidenhair Tree has not been found in a wild state but has been planted extensively in Japan and China for hundreds of years.

Pinus excelsa Wall, the Bhotan Pine from the Himalayas, grows on the grounds of Mrs. Gilman Perkins, No. 421 East Avenue. This is a handsome species of white pine. The drooping leaves are six to eight inches long. It is 4.2 feet in circumference and 40 feet high, and is the largest individual in Rochester and vicinity.

Pinus ponderosa Dougl. the Bull Pine, native from British Columbia to Mexico, Nebraska and Texas, attains considerable size in this city. In the Ellwanger & Barry nursery grounds, on Mt. Hope Avenue near the office there are two trees which measure respectively in circumference 6.9 and 5.8 feet; the larger is 65 feet and the smaller 60 feet in height. At No. 455 Lake Avenue a healthy individual of *Pinus ponderosa* measures 6.5 feet in circumference and is 55 feet tall.

Abies Nordmaniana Spach. from the Black sea regions is one of the noblest of the firs and it does remarkably well in Rochester. One of the best examples grows on the grounds of the Ellwanger &

Barry vineyard, Highland Avenue at the bottom of the south slope. It measures 4.9 feet in circumference, and is 75 feet in height. As far as can be ascertained it was planted with a number of other trees by the late George Ellwanger about sixty years ago.

Abies Picca Lindl. (*A. pectinata* DC.) the Silver Fir from the mountains of central and southern Europe, is a fir with a somewhat tender reputation. A fine individual grows on the east side of the Winton Road near the canal bridge, and south of the bridge. The circumference is 6.5 feet, and the height is 75 feet. The adjoining land where this tree stands was at one time an important nursery owned by T. B. Yale & Son. It has been abandoned for many years and is now built up. This fir and a number of other important trees were planted by T. B. Yale & Son about 1858 to 1860 as nearly as can be ascertained.

Sequoia Wellingtonia Seem., the famous Big Tree of California, was introduced by Ellwanger & Barry from California in 1864. The seed came across the continent by pony express in a snuff box. Thousands of seedlings were raised by Ellwanger & Barry, and mostly sold in Europe. A group of five trees, from these seedlings, now stands near the office on Mt. Hope Avenue. They vary considerably in size. The largest is 7.9 feet in circumference, and the height is 55 feet. What is probably one of the same group of seedlings stands on the old T. B. Yale & Son nursery grounds on the Winton Road, but it shows signs of failing health. It is 6.5 feet in circumference, and 50 feet in height.

It is surprising to see on the old T. B. Yale & Son nursery grounds a healthy individual of *Libocedrus decurrens* Torr., the Incense Cedar of the Pacific Coast. It is 2.5 feet in circumference, and is 35 feet tall. It is the only individual of any considerable size in Rochester and vicinity.

Chamaecyparis Lawsoniana Parl., commonly known as Lawson's Cypress, is represented by a good healthy individual on the grounds of the Ellwanger & Barry vineyard, at the bottom of the south slope of the hill. It shows a peculiarly swollen base. The circumference is 4.9 feet and the height 40 feet. As far as can be ascertained this is the only individual growing in Rochester and vicinity, with the

exception of a few small plants growing in the conifer collection in the public parks. It is a matter of much surprise for many horticulturists to see this beautiful tree doing so well so far north. It is native from Oregon to California.

Juglans regia Linn., the Persian Walnut, commonly known under the name of English Walnut, has been considerably planted in the city and vicinity, and it bears crops of nuts quite freely. The largest individual tree in Rochester and vicinity grows in the village of Greece, on the Ridge Road, and on the side of the road. The circumference is 7.6 feet, and the height 45 feet. An interesting hybrid walnut grows at No. 1210 Culver Road, at the home of Miss Mary A. Booth. Her father, the late Dr. C. M. Booth, procured a nut from a Persian Walnut tree, growing at that time at the east end of Garson Avenue, and planted it at the rear of his house, about forty years ago. When this tree began to bear nuts it was observed they differed from the parent considerably. It was further noticed that the leaves, buds and bark of the tree were intermediate between the Butternut and English Walnut, and it consequently proved to be a hybrid between the two. This was explained by the proximity of a Butternut to the Persian Walnut from which Dr. Booth procured the nut. By a mere accident Dr. Booth happened to take the nut in which the pistil of the flower had been cross pollinated by the Butternut. The girth is 8.5 feet, the height 50 feet, and the spread of branches 75 feet. An orchard of Persian Walnuts, consisting of about eight acres, has been established on the farm of L. S. Thompson, East Avon, and was planted thirty-one years since. This orchard has received considerable attention from the Bureau of Plant Industry, Washington, D. C.

Populus nigra variety *betulifolia* Torr. is a poplar of much interest. Michaux found this poplar growing on the banks of the Hudson River and believing it to be a native American poplar, gave it the name of *Populus Hudsonica*. Pursh again found it growing in 1814 somewhere on the shores of Lake Ontario, and named it *Populus betulifolia*. The date of its introduction from Europe is unknown, but it is known to be a form of *Populus nigra* Linn. It does not seem to have perpetuated itself to any extent in this country, and the large individual in front of the Rochester Trade School at Ex-

position Park is the only one known in Rochester and vicinity. It is a large well shaped individual, and has a girth of 9.4 feet and is 80 feet in height.

Quercus cerris Linn., the Turkey Oak, is represented by a good sized individual on the east side of the Rochester Trade School and on the opposite side of the road at Exposition Park. It is the largest specimen in the city or vicinity. The circumference is 5 feet, and the height 40 feet. It is a native of Southeast Europe and West Asia. An interesting hybrid oak grows in Maplewood Park on Maplewood Avenue on the west side of the road and a short distance from Driving Park Avenue. It is a cross between *Quercus alba* Linn. and *Quercus platanoides* Sudw. The girth is 10.6 feet, and the height 70 feet. There are many splendid examples of the native oaks in the vicinity of Rochester, but there does not seem to be any sufficiently notable to indicate in this paper.

The European elms are well represented in the city of Rochester, where they have been extensively planted. On what used to be the estate of the late Samuel Wilder at the corner of East Avenue and Oxford Street, an immense individual of *Ulmus campestris* Smith, is in perfect health. This is the common elm of the roadsides in England, and is known as the English Elm. Its circumference is 14.3 feet, and the height by actual measurement is 101.72 feet. This tree was planted in 1850. Another good sized English Elm stands at No. 219 Alexander Street. The girth is 9.9 feet, and the height is 75 feet. *Ulmus Hollandica* variety *vegeta* Rehdr., always known under the name of Huntington Elm, has been planted to some extent in the city. There are four good examples at the southeast corner of Goodman Street and Highland Avenue. Their girths are respectively 9.1, 8.1, 7.1 and 7.1 feet. Two of the tallest are 80 feet in height. The Huntington Elm was first known at Huntington, England, in the middle of the 18th century. It is believed to be a hybrid between *Ulmus glabra* Huds. and *Ulmus nitens* Monch. *Ulmus nitens* Monch. sometimes known under the name of the Smooth Elm, is represented by a good individual at the east end of Avenue B about one hundred feet from the bank of the river, and on the south side of the Avenue. The girth is 7.2 feet, and the height 60 feet. *Ulmus nitens* is a common tree in the south of Eng-

land and ranges from Central Europe to northeastern Asia. *Ulmus Hollandica* variety *superba* Rehd. is a very graceful elm, and a very large example grows on the edge of the lawn in front of the Ellwanger & Barry office on Mt. Hope Avenue. The circumference is 18.35 feet, and the height is 70 feet. It is said to have been planted not over sixty years since. This is an extraordinary girth for a tree to attain in that time. At five feet from the ground it breaks into seven large boles, and has an enormous spread.

There are numerous splendid examples of the American Elm, *Ulmus Americana* Linn., in the vicinity of Rochester, and throughout the Genesee Valley. We will call attention to four individuals that are somewhat notable. In the grove in Genesee Valley Park there is a very large American Elm with a wide spreading head, and in perfect health. The circumference is 16.8 feet, and the height is perhaps 100 feet. A good example of the vase form of the American Elm grows on the Latta Road about one mile west of Charlotte. The girth is 12.3 feet, and the height is 90 feet. A fine individual of the umbrella type of American Elm grows on the state highway about two miles east of the village of Avon. The circumference is 16.2 feet, and the estimated height is 110 feet. On the farm of Mr. W. G. Markham, two miles north of Avon there is now the lingering remnant of the "Markham Elm". This was a landmark in its day. All that remains of the tree is a large limb from the north side of the base and this is supported by a stout brace. This elm was first seen and attracted the attention in 1764 of William Markham who was a soldier in the colonial army and the great grandfather of the present William G. Markham. It was at that time a tree of extraordinary size. It is stated that during this known period of its history in four Markham generations no perceptible change was observed in its size. In the spring of 1893 the north side of the tree was blown down. Mr. Markham had this sawed across, and he counted three hundred and seventy-five rings. From the portion beyond which he counted, there was a large decayed area towards the center of the tree which he estimated proportionately, and he felt confident this elm had lived about six hundred years. The trunk was 45 feet in circumference three feet above the base, and at noon the shade of the branches extended over one acre. From

all reliable accounts this tree was a most phenomenal elm. It is said to have been of a distinctly pendulous form, with the branches drooping like a Babylonian Willow.

Toxylon pomiferum Raf., the Osage Orange, which before the advent of wire fences, was an extremely popular hedge plant, is a native of Kansas and Texas. It is quite hardy as far north as Massachusetts. An individual grows at the corner of Merchants Road and Culver Road, on the south side, and this appears to be the only tree of any size in the city and vicinity. The circumference is 7 feet, and the height 45 feet.

Magnolia acuminata Linn., the Cucumber Tree, grows native from Western New York to Alabama. It is found growing in a wild state in the town of Parma, at Fishers, Ontario county, and at Portage Falls, on the Genesee River. At No. 455 Lake Avenue, a good individual stands, of which the girth is 6.6 feet, and the height 55 feet. On the grounds of H. B. Graves, No. 344 West Avenue there is a well developed Cucumber Tree with a circumference of 6.2 feet and a height of 55 feet. A number of interesting trees were planted at the home now owned by H. B. Graves, and adjoining lots, by the late Captain Giles Kitts, between forty to fifty years since, as nearly as can be ascertained, including the magnolia referred to. Near the Ellwanger & Barry office on Mt. Hope Avenue there is a healthy individual of *Magnolia macrophylla* Michx. the Large-leaved Cucumber Tree. At the base of the stem the girth is four feet, and the height is 25 feet. This magnolia is mostly confined to the southern states in a native condition. The Chinese species and hybrid magnolias are abundantly planted throughout the city. The most notable example is the line of Chinese hybrid Magnolias along the center line of Oxford Street, south of Park Avenue. The oldest of these magnolias were planted over forty years since, by the late H. E. Hooker, who had an important nursery business on these lands at this time. The hybrid known under the name of *speciosa* was the one mostly planted. At the south end, additional plantings have been made since that time. These Magnolias attract the attention of many horticulturists who visit the city.

There are good examples of *Liriodendron tulipifera* Linn., the Tulip Tree, around the city. Some remarkably good individuals are

found growing in Livingston Park. The largest grows at No. 5 Livingston Park. The girth is 8.3 feet, and the height is 80 feet.

Asimina triloba Adans., the Papaw, is a rare native shrub or small tree. The only known station in the vicinity of Rochester where it grows wild is on the Budlong farm in the town of Greece north of the Ridge Road. There is a thick colony of arborescent shrubs, which annually bear quantities of fruit. There is a similar native colony of the Papaw growing near Brockport.

A great deal of work has been done by members of the Park Department, and the Botanical Section of the Academy of Science during the past seventeen years in studying and investigating the genus *Crataegus* (American Hawthorn) in the vicinity of Rochester, Western New York and elsewhere, in collaboration with Dr. C. S. Sargent, the Director of the Arnold Arboretum, Harvard University. Many new species were discovered. One of the most interesting of the new arborescent species was named after the late George Ellwanger: *Crataegus Ellwangeriana* Sargent. The type plant stands at the west end of the grass walk in the Ellwanger & Barry Nurseries on Mt. Hope Avenue. Mr. Ellwanger said a few years before his death that he remembered this hawthorn very well fifty years ago, and he did not observe any perceptible increase in its size during that time. If no increase was noticed in this hawthorn in a period extending over sixty years, it surely must be of considerable age, and must have started on its life history long before it was seen by a white man. The circumference is 3.7 feet and the height 25 feet.

Gymnocladus Canadensis K. Koch., the Kentucky Coffee Tree, has been planted to some extent in the city. A well balanced tree grows on the grounds of H. B. Graves with a girth of 4 feet, and a height of 40 feet. At the corner of Bay Street and Culver Road on the grounds of the old McGonegal home there is a Kentucky Coffee Tree with a remarkably wide spreading head. The girth is 4.6 feet, and the height 38 feet. A large Kentucky Coffee Tree grows at No. 174 South Goodman Street in front of the house. The circumference is 5.5 feet, and the height 50 feet. Another large Kentucky Coffee Tree grows on the grounds of the Homeopathic Hospital on Alexander Street, the girth is 5.5 feet, and the height 55.8 feet.

Sophora Japonica Linn., the Japanese Pagoda Tree, is a native of China, and is planted considerably in this country. A tree of considerable size grows inside the fence at No. 88 University Avenue. The circumference is 7.4 feet, and the height 45 feet.

Cladrastis lutea K. Koch., the Yellow Wood, is a native of Kentucky, Tennessee, Alabama, and North Carolina. It has been planted sparingly around the city. The largest individual grows on the grounds of Ellwanger & Barry near the office. It branches at the base into five large boles, and the largest bole measures 6.5 feet in girth. It is 60 feet in height.

Acer campestre Linn., the English Field Maple, is not a rare tree in Rochester. Perhaps the largest individual grows at No. 360 West Avenue and is one of the trees planted by the late Captain Giles Kitts. The branches spread from the ground and it perhaps has a spread of forty feet. The circumference was not ascertained but it may be 9 feet in circumference at the base; the height is forty feet. *Acer cappadocicum* Gled. (*Acer lactum* C. A. Mey) a very beautiful maple native from the Orient to the Himalayas, is represented by a fine healthy individual in front of the home of A. M. Lindsay, No. 973 East Avenue. At three feet from the base it measures 7.2 feet. At this point it branches into a wide spreading head. It is 50.36 feet in height by actual measurement. This seems to be the only tree of any considerable size in the city and vicinity. *Acer opalus* Mill. (*Acer Italum* Lauth.) is native from the Orient to the Himalayas. There is a good sized individual growing on Mt. Hope Avenue on the land added to Highland Park, on what used to be the Warner estate. This tree is about two hundred feet northeast of the stone cottage. The circumference is 6.2 feet, the height is 35 feet. This is the only known example of this species in the city of Rochester. *Acer macrophyllum* Pursh, the Large-leaved Maple from Oregon and adjoining regions, is unquestionably a tender tree in the north. A splendid individual with a wide spreading head grew on the old nursery grounds of T. B. Yale & Son on the Winton Road, and was one of the group of interesting trees planted by this firm previously alluded to. Most unfortunately it was cut down three or four years since to make room for a dwelling house. No measurements were ever taken of this maple, but it probably was

feet in circumference and had a height of at least 45 feet. This perhaps was the only example of the Large-leaved Maple in Western New York of any size. The only large individual the writer has seen in the northeastern United States, is on the estate of Paul Dana, Glen Cove, Long Island.

Aesculus turbinata Blume., a handsome Horse-Chestnut from North China and Japan, is represented by a healthy individual in the Ellwanger & Barry nurseries, at the east end of the grass walk which runs directly east from the office on Mt. Hope Avenue towards South Avenue. This is said to be the largest tree of this species known in cultivation in this country. The circumference is 5.5 feet two feet above the base and the height 35 feet. As an ornamental tree this species is handsomer than *Aesculus hippocastanum* Linn. in its foliage. There is an interesting collection of trees of the hybrids and varieties of the Pavia section of *Aesculus* adjacent to, and east of *Aesculus turbinata*. Perhaps no better can be seen in this country.

Tilia petiolaris DC., usually known as the Weeping Linden is a singularly handsome tree. A number of trees have been planted through the city. The largest appears to be at No. 7 Livingston Park. The circumference is 8.3 feet, the height is 60 feet. It is believed to have been planted over fifty years. This Linden is said to have been first observed on the streets of Odessa, Russia, and all the trees in cultivation are said to have originated from this tree. All the trees in cultivation are budded or grafted. The writer at one time sowed a large quantity of the seeds of this linden and out of several thousand seeds only a few germinated. These seedlings showed great diversity, and none of them was the same as the parent. This seems to prove it to be a hybrid.

There are a few trees of *Paulownia imperialis* Sieb. & Zucc. in the city. What seems to be the best individual grows at the home of John M. Thayer, No. 66 James Street. It was planted twenty-seven years ago. The girth is 6.7 feet, and the height by actual measurement 55 feet. It is a native of China and possibly of Japan.

Catalpa speciosa Engelm., the Western Catalpa, has become noted of late years as a timber tree, useful for different purposes. It has been planted considerably in the city and vicinity. It does not

appear to have been much planted fifty or sixty years ago. There are two large trees in front of the home of Mrs. Charles T. Depuy, No. 1075 East Avenue. The girth of the larger is 8.3 feet and the smaller 7.6 feet. The height by actual measurement is 64 feet. A well balanced Western Catalpa stands on Highland Avenue in front of the Ellwanger & Barry vineyard, and is one of the numerous trees planted there by the late George Ellwanger at least sixty years since. The circumference is 8.1 feet and the height is 60 feet.

STATISTICS.

There have been added to our list since 1910, the following :

Species and varieties native to the Monroe Flora,	121
Species and varieties introduced to the Monroe Flora,	56

Total number of species and varieties,	177
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New localities are given for 132 species and varieties noted as rare or scarce in the lists of 1896 and 1910.

The total number of species and varieties reported in the Plants of Monroe County and Adjacent Territory, including the lists of 1896, 1910 and the present one is 1761.

THE CATALOGUE.

EXPLANATION OF THE PLAN.

Authorities.—In arrangement and nomenclature this list follows the seventh edition of Gray's Manual of Botany, except for the Crataegus, in which Dr. Charles S. Sargent, Director of the Arnold Arboretum, is accepted as authority.

Typography and Reference Marks.—Each species, variety or marked form regarded as an established member of our flora is given a catalogue number. Those without number are not considered as fully established.

Heavy-faced type indicates species believed to be indigenous. Names of introduced species are printed in capitals, as are also the common or popular names.

The name of a discoverer of a plant new to our district, or of a new locality for a rare or scarce plant, is given in Italics.

In the present list the genera are given the same number as in the previous lists. New genera are inserted in their proper order, and, to prevent confusion, are lettered, as 34a, etc. Where new stations are given for rare or scarce plants, the number given in the previous lists is retained.

The list of 1910 closed with the number 1584. All numbers beyond that in this Second Supplementary List denote new species and varieties.



PTERIDOPHYTA.

POLYPODIACEÆ.

500. *PHEGOPTERIS* Fee. BEECH FERN.
1327. **P. polypodioides** Fee.
Brigg's Gully, Reynold's Gulf, Hemlock Lake, Honeoye Lake, *M. S. Baxter* and *J. Laird*.
499. *CAMPTOSORUS* Link.
1326. **C. rhizophyllus** Link. WALKING FERN.
Five Corners, Rush, *M. S. Baxter*; Penfield, *W. Streeter*, *M. S. Baxter*.
501. *ASPIDIUM* Swartz.
1585. **A. marginale** × **goldianum** Dowell. (comb. nov.)
Perinton, *M. S. Baxter*. A single plant.
1335. **A. Boottii** Tuckerm.
Sullivans, *E. P. Killip*.
503. *ONOCLEA* L.
1586. **O. sensibilis** L. var. **OBTUSILOBATA** (Schkuhr.) Torr.
Moist pastures, Greece, *D. M. White*.

LYCOPODIACEÆ.

508. *LYCOPODIUM* L. CLUB MOSS.
1587. **L. annotinum** L.
Gulick, *J. Laird*.

SELAGINELLACEÆ.

509. *SELAGINELLA* Beauv.
1584. **S. apus** (L) Spring.
Morganville, Genesee Co., *M. S. Baxter*.

SPERMATOPHYTA.

PINACEÆ.

488. *ABIES* Link.
1302. **A. balsamea** Mill. BALSAM FIR.
Gulick, Ontario Co., *M. S. Baxter*, *J. Laird*. Common.

NAJADACEÆ.

431. *NAJAS* L.
1588. **N. marina** L.
Held's Cove, Irondequoit Bay, *E. P. Killip*.

ALISMACEÆ.

426. *SAGITTARIA* L. ARROW-HEAD.

1589. **S. arifolia** Nutt.
Held's Cove, Irondequoit Bay, *M. S. Baxter*.

GRAMINEÆ.

442. *PASPALUM* L.

1590. **P. Muhlenbergii** Nash.
Bushnells Basin, Fishers and Victor, *M. S. Baxter*. Occasional.

443. *PANICUM* L.

1591. **P. boreale** Nash.
Irondequoit, *M. S. Baxter*. Scarce.
1592. **P. spretum** Schultes.
Irondequoit, *M. S. Baxter*. Rare.
1593. **P. Lindheimeri** Nash.
Bergen swamp, *Dr. C. H. Peck*.
1594. **P. implicatum** Scribn.
Irondequoit, *M. S. Baxter*; Mendon, *E. P. Killip*. Scarce.
1595. **P. Scribnerianum** Nash.
Irondequoit, *M. S. Baxter*; Mendon, *E. P. Killip*. Scarce.
1596. **P. Boseii** Poir.
Canandaigua, *Mrs. E. P. Gardner*.

444. *SETARIA* Beauv.

1207. **S. italica** (L.) Beauv.
Along railroad, Golah, *E. P. Killip*.
1597. **S. virescens**.
Mendon, *E. P. Killip*.

450. *PHALARIS* L. CANARY GRASS.

1215. **P. arundinacea** L.
Adams Basin, *E. P. Killip*.
1217. **A. odoratum** L.
Bog near Round Pond, Manitou, *E. P. Killip*.

452. *HIEROCHLOE* R. Br. HOLY GRASS.

1218. **H. odorata** Wahl. [*H. borealis* R. & S.]
Sullivans, *M. S. Baxter*; Mendon, *M. E. Woodams* & *W. A. Matthews*. Local.

453a. *STIPA* L. FEATHER GRASS.

1598. **S. comata** Trin. & Rup.
Cobbs Hill Reservoir, *M. S. Baxter*.

- 453b. *ARISTIDA* L.
1599. **A. oligantha** Michx.
Along Penn. R. R., near Avon, *M. S. Baxter*.
455. *MUHLENBERGIA* Schreb.
1600. **M. foliosa** Trin.
Railroad tracks, Charlotte Dock, *M. S. Baxter*.
1224. **M. racemosa** (Michx.) BSP. [*M. glomerata* Trin.]
Woolstons swamp, *M. S. Baxter*.
459. *SPOROBOLUS* R. Br. DROP-SEED.
1234. **S. cryptandrus** Gray.
Forest Lawn, *John Dunbar*.
465. *HOLCUS* L.
1244. **H. LANATUS** L. VELVET GRASS.
Meadows, East Avenue, Rochester, *C. Vollertsen*.
470. *BOUTELOUA* Lag. GRAMA GRASS.
1601. **B. oligostachya** (Nutt.) Torr.
Cobbs Hill Reservoir, *Florence Beckwith*.
472. *PHRAGMITES* Trin. REED.
1253. **P. communis** Trin.
Round Pond, Manitou, *E. P. Killip*.
- 472a. *TRIDENS* R. & S.
1602. **T. flavus** Hitch.
Bushnells Basin, *M. S. Baxter*; Atlantic Ave. Dugway, *G. H. Chadwick*.
474. *ERAGROSTIS* Beauv.
1258. **E. Purshii** Schrad.
Waste lots, Rochester, *D. M. White*.
- 475a. *CYNOSURUS* L. DOG'S-TAIL GRASS.
1603. **C. CRISTATUS** L.
Lawns, East Ave., *C. Vollertsen*. Apparently well established.
476. *POA* L. MEADOW GRASS.
1267. **P. debilis** Torr.
Mendon, *M. S. Baxter*.
477. *GLYCERIA* R. Br. MANNA GRASS.
1604. **G. canadensis** Trin.
Bushnells Basin, *M. S. Baxter*. Rare.
1271. **G. pallida** Trin.
Irondequoit, *M. S. Baxter*.

478. *FESTUCA* L. FESCUE GRASS.

1605. *F. ELATIOR* ARUNDINACEÆ Celak.
Wet meadow, Brighton, *John Dunbar, M. S. Baxter.*

479. *BROMUS* L.

1286. *B. TECTORUM* L.
Fields, East Rochester, *E. P. Killip.*

1280. *B. Kalmii* Gray
Sullivans, *E. P. Killip.*

482. *HORDEUM* L. BARLEY.

1292. *H. jubatum* L.
Pittsford, *F. S. Boughton*; N. Y. C. R. R. tracks, Penfield, *M. S. Baxter*; Cobbs Hill Reservoir, *Florence Beckwith*; Braddocks Bay, *E. P. Killip.*

CYPERACEÆ.

432. *CYPERUS* L.

1606. *C. Engelmanni* Steud.
Bushnells Basin, *M. S. Baxter.* Rare.

434. *ELEOCHARIS* R. BR. SPIKE RUSH.

1061. *E. rostellata* Torr.
Sullivans, *M. S. Baxter*; Mendon, *E. P. Killip.*

435. *SCIRPUS* L. BULRUSH.

1607. *S. planifolius* Muhl.
Sullivans, *M. S. Baxter.* Rare.

1067. *S. caespitosus* L.
Sullivans, *M. S. Baxter.*

1608. *S. occidentalis* Chase.
Canandaigua, *Miss E. C. Webster*; Manitou, *E. P. Killip.*

1609. *S. atrocinctus* Fernald.
Adams Basin, *E. P. Killip.*

436. *ERIOPHORUM* L. COTTON GRASS.

1610. *E. tenellum* Nutt.
Mud Pond, Wayne Co., *E. P. Killip.*

439. *SCLERIA* Berg.

1087. *S. triglomerata* Michx.
Mud Pond, Wayne Co., *E. P. Killip.*

440. *CAREX* L. SEDGE.

1611. *C. atlantica* Bailey.
Bog near Round Pond, Manitou, *E. P. Killip.*

1612. *C. stellulata* Geed. var. *angustata* Carey.
Mendon, *M. S. Baxter.* Scarce.

1613. **C. brunnescens** Poir.
Sullivans, *M. S. Baxter*. Rare.
1180. **C. trisperma** Dewey.
Manitou, *E. P. Killip*.
1614. **C. vulpinoidea** Mich. x **comosa** Boott.
Mendon Ponds, *M. S. Baxter*. One plant.
1615. **C. setacea** Dewey var. **ambigua** (Barratt) Fernald.
Adams Basin, *E. P. Killip*.
1616. **C. pallescens** L.
Woolstons, Penfield, *E. P. Killip*.
1617. **C. laxiflora** Lam. var. **blanda** (Dewey) Boott.
Mendon, *E. P. Killip*.
1618. **C. grisea** Wahl. var. **rigida** Bailey.
Sullivans, *M. S. Baxter*.
1108. **C. lanuginosa** Michx. [*C. filiformis* L. var. *latifolia* Boeckl.]
Woolstons, Manitou, Mud Pond, *E. P. Killip*.
1619. **C. squarrosa** L.
Golah, *C. Vollertsen*.
1566. **C. Schweinitzii** Dewey.
Sandbar near Forest Lawn, *V. Dewing & M. S. Baxter*.
1098. **C. Tuckermanni** Dewey.
Penfield, *M. S. Baxter*.
1620. **C. Leersia**.
Egypt, Mud Pond, *E. P. Killip*.
1621. **C. disperma**.
Bergen swamp, *E. P. Killip*.

PONTEDERIACEÆ.

412. *HETERANTHERA* R. & P. MUD PLANTAIN.

993. **H. dubia** (Jacq.) MacM. [*H. graminea* Vahl.]
Mendon, *W. A. Matthews*.

LILIACEÆ.

410. *ZYGADENUS* Michx.

991. **Z. chloranthus** Richards. [*Z. elegans* Pursh.]
Sullivans, *Miss A. B. Suydam*.

409. *VERATRUM* L.

990. **V. viride** Ait.
Perry, *Florence Beckwith*.

400. *CLINTONIA* Raf.

974. **C. borealis** Raf.
Sullivans, *W. H. Bailey & Dr. W. A. Windell*; Gullick Swamp, *Baxter & Laird*.
399. *DISPORUM* Salisb.
973. **D. lanuginosum** Benth. & Hook.
Lux woods, Pittsford, *F. S. Boughton*; Mendon, *W. A. Matthews*.
391. *SMILAX* L. GREEN BRIAR.
1622. **S. rotundifolia** L. var. *QUADRANGULARIS* Wood.
Native in Seneca Park, *B. H. Slavin*.

ORCHIDACEÆ.

386. *HABENARIA* Willd.

941. **H. dilatata** Gray.
Mud Pond, Wayne Co., *M. S. Baxter*.
943. **H. orbiculata** Torr.
Honeoye Lake, *W. A. Matthews*.
381. *SERAPIAS* L. (*EPIPACTIS* Haller.)
931. **S. Helleborine** L.
Golah. Common. East Shore, Irondequoit Bay, *Killip & Woodams*; Rattlesnake Point, *D. M. White*; Hamlin, *Miss Beckwith*.
379. *SPIRANTHES* Rich. LADIES' TRESSES.
925. **S. lucida** Ames. [*S. latifolia* Torr.]
Egypt, *Dr. L. R. Cornman*; Greece, *Miss A. B. Suydam*.
926. **S. Romanzoffiana** Cham.
Sullivans, *M. S. Baxter*.
377. *CORALLORRHIZA* R. Br. CORAL ROOT.
920. **C. trifida** Chatelain [*C. innata* R. Br.]
Gullick, *J. Laird*.
921. **C. odontorhiza** Nutt.
Bushnells Basin, *Mrs. Helen Rockwell*; Perinton, *M. S. Baxter*; Springwater, Livingston Co., *Baxter & Laird*; Woolstons, *M. Woodams*.
373. *LIPARIS* Rich. TWAYBLADE.
915. **L. liliifolia** Rich.
Bullhead Pond, Perinton, *Miss A. B. Suydam*.
916. **L. Loeselii** (L). Richard.
Barrett farm, Pittsford, *E. P. Killip*.
376. *APLECTRUM* Torr. PUTTY-ROOT.
919. **A. hyemale** Nutt.
Riga, *Florence Beckwith*.

SALICACEÆ.

366. *SALIX* L. WILLOW.

886. **S. serissima** Fern.
Spencerport, *M. S. Barter*.
1623. **S. cordata** var. MYRICOIDES (Muhl) Carey.
Shore of Lake Ontario near Braddocks Point, *E. P. Killip*.

JUGLANDACEÆ.

356. *CARYA* Nutt. HICKORY.

1624. **C. ovata** var. **fraxinifolia** Sarg.
Type, Conesus and Mount Morris, *John Dunbar*; Rochester and Macedon, *B. H. Slavin*. Trees and Shrubs, Vol. 2, p. 207.
1625. **C. ovata** var. **Nuttallii** Sarg.
Canandaigua, *B. H. Slavin*. Trees and Shrubs, Vol. 2, p. 207.
1626. **C. Laneyi** Sarg. (A hybrid of **C. ovata** x **C. cordiformis**).
Type, Riverside Cemetery, *H. B. Brown, John Dunbar, C. S. Sargent*. Rare. Trees and Shrubs, Vol. 2, p. 196.
1627. **C. porcina** var. **acuta** Sarg.
Type, Seneca Park, *B. H. Slavin*; Mendon, *C. C. Lancy, R. E. Horsey*. Scarce. Trees and Shrubs, Vol. 2, p. 200.
1628. **C. megacarpa** Sarg.
Type, Seneca Park, *B. H. Slavin*; Highland Park, *R. E. Horsey*. Rare. Trees and Shrubs, Vol. 2, p. 201.
1629. **C. ovalis** Sarg.
Mount Morris and Rochester, *John Dunbar* and *R. E. Horsey*. Rare. Trees and Shrubs, Vol. 2, p. 207.
1630. **C. ovalis** var. **obcordata** Sarg.
Maplewood Park, *C. C. Lancy*. Frequent. Trees and Shrubs, Vol. 2, p. 208.
1631. **C. ovalis** var. **obovalis** Sarg.
Rochester, *John Dunbar*. Scarce. Trees and Shrubs, Vol. 2, p. 209.
1632. **C. ovalis** var. **odorata** Sarg.
Rochester, *John Dunbar*; Conesus Lake, *B. H. Slavin* and *R. E. Horsey*. Common. Trees and Shrubs, Vol. 2, p. 207.

BETULACEÆ.

359. *ALNUS* Hill. ALDER.

865. **A. rugosa** Spreng. [*A. serrulata* Willd.]
Durand Park, *John Dunbar, B. H. Slavin*. Scarce.

URTICACEÆ.

345. *ULMUS* L. ELM.
 837. **U. racemosa** Thomas. CORKY ELM.
 Bergen, *M. S. Baxter*.
 346. *CELTIS* L. HACKBERRY.
 838. **C. occidentalis** L.
 Reed's Swamp, near Scottsville, *M. S. Baxter*.
 350. *URTICA* L. NETTLE.
 1633. **U. CHAMAEDRYOIDES** Pursh.
 Lawn, University Ave., *Florence Beckwith*.

CHENOPODIACEÆ.

- 326b. *KOCHIA* Roth.
 1545. **K. SCOPARIA** Schrad.
 Becoming common throughout the city.
 327. *CHENOPODIUM* L. PIGWEED.
 1548. **C. AMBROSIODES** L.
 South Clinton Street, *C. Vollertsen*; Lake Ave., *F. Beckwith*.
 1546. **C. VULVARIA** L. [*C. foetidum* Lamk.]
 South Avenue, *M. S. Baxter*.
 783. **C. URBICUM** L.
 Railroad weed, East Rochester, *M. S. Baxter*.
 328. *ATRIPLEX* L.
 1634. **A. ROSEA** L. Cobbs Hill Reservoir, *Florence Beckwith*.

AMARANTHACEÆ.

326. *AMARANTHUS* [Tourn.] L.
 781. **A. blitoides** Wats.
 Wendt farm, Barnards, *E. P. Killip*.

ILLECEBRACEÆ.

- 325b. *SCLERANTHUS* L.
 1543. **S. ANNUUS** L.
 Shore of Lake Ontario, Town of Hamlin, *Florence Beckwith*.
 325c. *ANYCHIA* Michx. FORKED CHICKWEED.
 1635. **A. canadensis** (L.) BSP.
 Dry ravines, Naples, *M. S. Baxter*; Seneca Point, Canandaigua Lake,
Mrs. E. P. Gardner; Scottsville, *Florence Beckwith*.

CARYOPHYLLACEÆ.

60. *SPERGULA* L. PEARLWORT.
130. *S. ARVENSIS* L.
Hamlin, *Miss Beckwith*; Barnards, *E. P. Killip*.
56. *ARENARIA* L. SANDWORT.
122. *A. lateriflora* L.
Sullivans, *Mrs. L. R. Cornman*.
55. *LYCHNIS* L.
119. *L. CORONARIA* Desv. MULLEIN PINK.
Canandaigua, *Mrs. E. P. Gardner*.
1636. *L. FLOS-CUCULI* L. RAGGED ROBIN.
Meadows, East Ave., *C. Vollertsen*.
1378. *L. ALBA* Mill. [*L. vespertina* Sibth.]
Cobbs Hill Reservoir, *Miss Beckwith*.
54. *SILENE* L. CATCHFLY.
1377. *S. DICHOTOMA* Ehrh.
Wheatland, near Scottsville, *Florence Beckwith*.
113. *S. LATIFOLIA* Britton & Rendle [*S. cucubalus* Weible.] BLADDER
CAMPION.
Becoming common.
116. *S. ARMERIA* L. SWEET WILLIAM CATCHFLY.
Vacant lots, Rochester, *D. M. White*.

RANUNCULACEÆ.

6. *RANUNCULUS* L. BUTTERCUP.
13. *R. delphinifolius* Torr. [*R. multifidus* Pursh.]
Golah, *M. S. Baxter*, and *M. Woodams*.
15. *R. Flammula* L. var. *reptans* (L.) Mey.
Long Point, Sodus Bay, *E. P. Killip*.
8. *TROLLIUS* L. GLOBEFLOWER.
27. *T. laxus* Salisb.
Gulick Swamp, *Baxter & Laird*.
12. *ACTAEA* L. BANE BERRY.
1637. *A. rubra* (Ait) Willd. forma *NEGLECTA* Robinson, with white berries
on long slender green pedicels.
Woolstons, *E. P. Killip*.
13. *HYDRASTIS* Ellis.
33. *H. canadensis* L. GOLDEN SEAL.
Allens Creek, Brighton, *Lewis S. Gannett*; Golah, *M. S. Baxter*;
Sullivans, *F. Boughton*.

BERBERIDACEÆ.

20. *JEFFERSONIA* B. S. Barton. TWINLEAF.40. *J. diphylla* Pers.Culvert 79a, near Fishers, *J. Laird*; Riga, *M. S. Baxter*; The Gulf, Genesee Co., *Mrs. John Dennis*; Mendon, *W. A. Matthews*.

PAPAVERACEÆ.

28a. *ARGEMONE* L. PRICKLY POPPY.1638. *A. MEXICANA* L.Vacant lot, *C. Vollertsen*.

FUMARIACEÆ.

29. *ADLUMIA* Raf. CLIMBING FUMITORY.53. *A. fungosa* (Ait.) Greene. [*A. cirrhosa* Raf.]Lake shore about one mile east of Devil's Nose, *Florence Beckwith*; one mile east of mouth of Sandy Creek, *M. S. Baxter*; Mumford, *Miss Nellie Hynes*.

CRUCIFERÆ.

34b. *LOBULARIA* Desv.1639. *L. MARITIMA* (L.) Desv. SWEET ALYSSUM.Cobbs Hill Reservoir, *Florence Beckwith*; Highland Ave., *E. P. Killip*.35. *ALYSSUM* L.68. *A. ALYSSOIDES* L. [*A. calycinum* L.]Charlotte, *J. Laird*.44. *THLASPI* L. PENNY CRESS.85. *T. ARVENSE* L.Pittsford, *F. Boughton*; Float Bridge, *Mrs. Helen Rockwell*; vacant lots, *D. M. White*.45. *LEPIDIUM* [Tourn.] L.89. *L. CAMPESTRE* (L.) R. Br.West Bergen, *E. P. Killip*.36. *CAMELINA* Crantz. FALSE FLAX.69. *C. SATIVA* Crantz.City streets, *C. Vollertsen*.1640. *C. MICROCARPA* Andrz.Canandaigua, *Miss E. C. Webster*.36a. *NESLIA* Desv. BALL MUSTARD.1641. *N. PANICULATA* Desv.Greece, *George Arnold*.

42. *BRASSICA* L. MUSTARD.
1642. *B. CAMPESTRIS* L.
Scottsville, *Florence Beckwith*.
- 42b. *CONRINGIA* Link. HARE'S-EAR MUSTARD.
1366. *C. ORIENTALIS* Link.
West Shore railroad tracks, Pittsford, *F. Boughton*.
- 42c. *ALLIARIA* Adans. GARLIC MUSTARD.
1643. **A. officinalis** Andrz.
Highland Ave., Rochester, *E. P. Killip*.
41. *SISYMBRIUM* L. HEDGE MUSTARD.
1364. *S. ALTISSIMUM* L. TUMBLE MUSTARD.
Has become common throughout the city and vicinity.
81. *S. THALIANUM* (L.) J. Gay.
Vacant lots, Rochester, *F. Beckwith*.
39. *HESPERIS* L. ROCKET.
78. *H. MATRONALIS* L.
Brighton, *J. Laird*.
37. *RADICULA* [Dill.] Hill. [*NASTURTIIUM* R. Br.]
74. **R. aquatica** (Eat.) Robinson. [*Nasturtium lacustre* Gray.]
Sodus Bay, *E. P. Killip*.
33. *CARDAMINE* [Tourn.] L.
62. **C. pratensis** L.
Mendon, *W. A. Matthews*.
34. *ARABIS* L.
1361. **A. Drummondii** Gray. [*A. confinis* Wats.]
Canandaigua Lake, *Mrs. E. P. Gardner*.
64. **A. hirsuta** Scop.
Ravine at Buttermilk Falls, *M. S. Baxter*.

SARRACENIACEÆ.

26. *SARRACENIA* L. PITCHER-PLANT.
50. **S. purpurea** L.
Rochester Junction; Sullivans, *Botanical Section*.

SAXIFRAGACEÆ.

127. *MITELLA* L. BISHOP'S CAP.
316. **M. nuda** L.
Sullivans, *Miss A. B. Suydam*.
130. *RIBES* L.
320. **R. rotundifolium** Michx.
Bergen swamp, *E. P. Killip*.

1644. **R. triste** Pall. var. **ALBINERVUM** Fernald.
Bergen, *M. S. Baxter*.

ROSACEÆ.

111. *SPIRÆA* L.

260. **S. tomentosa** L. HARDHACK.
Simpson's Woods, Killip & Woodams, Mrs. John Dennis, Miss A. B. Suydam.

122. *MALUS* S. F. Gray. APPLE.

1645. **M. glaucescens** Rehdr. (Described in Trees and Shrubs 2, 139.)
Type in Maplewood Park, Rochester, *John Dunbar*. Frequent.
1646. **M. fragrans** var. **elongata** Rehdr. (Trees and Shrubs 2, 229.)
Type at Chapinville, Ontario Co., *John Dunbar* and *B. H. Slavin*.

124. *AMELANCHIER* Medic. JUNE BERRY. SHADBUSH.

1647. **A. humilis** Wiegand (Described in Rhodora 14, 141.)
Frequent along banks of Genesee River and elsewhere, *John Dunbar*
1648. **A. stolonifera** Wiegand. (Rhodora 14, 141.)
Occasional, Mendon, *M. S. Baxter*.

123. *CRATAEGUS* L. HAWTHORN. WHITE THORN.

1649. **C. eastmaniana** Sarg. (N. Y. State Mus. Bul. 167, 141, 1912.)
Durand-Eastman Park, *Henry T. Brown*.
1650. **C. pausiacæ** Ashe (Trees and Shrubs 1, 105 t 53.)
Chapinville, *John Dunbar*.
1651. **C. browniæta** Sarg. (N. Y. State Mus. Bul. 167, 78, 1912.)
Common around Hemlock Lake, *H. T. Brown*.
1652. **C. obstipa** Sarg. (N. Y. State Mus. Bul. 167, 80, 1912.)
Near Chapinville, *B. H. Slavin*.
1653. **C. prominens** Sarg. (Ont. Nat. Sci. Bul. 4, 23, 1908.)
Hemlock Lake, *H. T. Brown*.
1654. **C. latiflora** Sarg. (N. Y. State Mus. Bul. 167, 83, 1912.)
Richmond, Livingston Co., *H. T. Brown*.
1655. **C. scitula** Sarg. (N. Y. State Mus. Bul. 167, 84, 1912.)
Chapinville, *B. H. Slavin*.
1656. **C. placiva** Sarg. (N. Y. State Mus. Bul. 122, 46, 1908.)
Belfast, *M. S. Baxter* and *V. Dewing*.
1657. **C. pulehra** Sarg. (N. Y. State Mus. Bul. 122, 42, 1908.)
Chapinville, *B. H. Slavin*.
1658. **C. seclusa** Sarg. (N. Y. State Mus. Bul. 167, 89, 1912.)
Richmond, *H. T. Brown*.

1659. **C. promissa** Sarg. (N. Y. State Mus. Bul. 122, 30, 1908.)
Hemlock Lake, *H. T. Brown*.
1660. **C. congestiflora** Sarg. (N. Y. State Mus. Bul. 122, 144, 1908.)
Castile and Belfast, *Baxter & Dewing*; Palmyra, *B. H. Slavin*.
1661. **C. eruda** Sarg. (N. Y. State Mus. Bul. 122, 54, 1908.)
Hemlock Lake, *H. T. Brown*.
1662. **C. suavis** Sarg. (N. Y. State Mus. Bul. 122, 59, 1908.)
Hemlock Lake, *H. T. Brown*.
1663. **C. conferta** Sarg. (N. Y. State Mus. Bul. 122, 62, 1908.)
Rochester, *John Dunbar*.
1664. **C. vivida** Sarg. (Ont. Nat. Sci. Bul. 4, 47, 1908.)
Chapinville, *B. H. Slavin*.
1665. **C. dayana** Sarg. (N. Y. State Mus. Bul. 122, 66, 1908.)
Hemlock Lake, *H. T. Brown*.
1666. **C. perrara** Sarg. (N. Y. State Mus. Bul. 167, 103, 1912.)
Chapinville, *B. H. Slavin*; Honeoye Lake, *H. T. Brown*.
1667. **C. misella** Sarg. (N. Y. State Mus. Bul. 167, 115, 1912.)
Belfast, *Baxter & Dewing*.
1668. **C. spinifera** Sarg. (N. Y. State Mus. Bul. 122, 118, 1908.)
Canandaigua, *B. H. Slavin*; Hemlock Lake, *H. T. Brown*.
1470. **C. struetilis** Ashe (N. Y. State Mus. Bul. 122, 77, 1908.)
Chapinville, Rochester, Hemlock Lake, *John Dunbar*.
1669. **C. truelenta** Sarg. (N. Y. State Mus. Bul. 167, 118, 1912.)
Belfast, *Baxter & Dewing*.
1670. **C. balkwillii** Sarg. (Ont. Nat. Sci. Bul. 4, 80, 1908.)
Chapinville, *B. H. Slavin*.
1671. **C. sonnenbergensis** Sarg. (N. Y. State Mus. Bul. 167, 120, 1912.)
Canandaigua, *B. H. Slavin*.
118. *POTENTILLA* L. CINQUEFOIL.
279. **P. paradoxa** Nutt. [*P. supina* Gray.]
Long Pond, Braddocks Bay, *Killip & Woodams*.
115. *GEUM* L.
1672. **G. flavum** Bick.
Canandaigua, *Mrs. E. P. Gardner*.
114. *DALIBARDA* Kalm.
269. **D. repens** L.
Gulick Swamp, *Baxter & Laird*.

119. *AGRIMONIA* [Tourn.] L.

1673. **A. striata** Michx.
Mendon, *W. A. Matthews.*

LEGUMINOSÆ.

94a. *ANTHYLLIS* L.

1674. **A. VULNERARIA** L.
Cobbs Hill Reservoir, *Miss M. E. Macaulay* and *Miss F. Beckwith.*

96. *TEPHROSIA* Pers.

212. **T. virginiana** Pers.
Sullivans, *Mrs. John Dennis.*

101. *DESMODIUM* Desv.

230. **D. marilandicum** (L.) DC.
Greece, *E. P. Killip.*

102. *LESPEDEZA* Michx. BUSH CLOVER.

235. **L. capitata** Michx.
Banks of Irondequoit Bay, also S. Goodman St., Rochester, *E. P. Killip.*

103. *VICIA* L. VETCH.

1675. **V. VILLOSA** Roth.
Vacant lot near South Ave., *Mrs. John Dennis.*

OXALIDACEÆ.

72. *OXALIS* L. WOOD SOREL.

1384. **O. Acetosella** L.
Reynolds Gulf, Hemlock Lake, *Baxter & Laird.*

GERANIACEÆ.

70. *GERANIUM* [Tourn.] L.

153. **G. carolinianum** L.
Mendon, *W. A. Matthews.*

EUPHORBIACEÆ.

343. *EUPHORBIA* L.

1676. **E. glyptosperma** Engelm.
Dry sand hills, Point Pleasant, Irondequoit, *Killip & Woodams.*

830. **E. corollata** L.
Bushmells Basin, *M. S. Baxter.* Rare.

CISTACEÆ.

49. *LECHEA* L.

93. **L. villosa** Ell. [*L. major* Michx.]
Victor and Perinton, *M. S. Baxter.* Frequent

94. **L. intermedia** Leg. [*L. minor* L.]
Victor and Perinton, *M. S. Baxter*. Frequent.

VIOLACEÆ.

51. **HYBANTHUS** Jacq. GREEN VIOLET.
109. **H. concolor** (Forster) Spreng. [*Solca concolor* Ging.]
Powder Mills, *F. Boughton*.
50. **VIOLA** L.
1677. **V. nephrophylla** Greene (*V. vagula* Greene.)
West Bergen, *Dr. H. D. House*. Occasional.
1678. **V. latiuscula** Greene.
Swamp road, Victor, *W. A. Matthews*.
1373. **V. incognita** Brainerd.
Sullivans, *E. P. Killip*.
101. **V. rotundifolia** Michx.
Palmer's Glen, Rochester, *F. Boughton*; Densmore Creek, *M. S. Baxter*; Springwater, Livingston Co., *Baxter & Laird*.

LYTHRACEÆ.

138. **LYTHRUM** L.
341. **L. SALICARIA** L.
Palmer's Glen, *E. P. Killip*.

ONAGRACEÆ.

141. **EPILOBIUM** L.
1679. **E. HIRSUTUM** L.
Reeds swamp, north of Scottsville, *M. S. Baxter*; Scottsville, *Florence Beckwith*; Bergen, *Killip & Woodams*; Mendon, *W. A. Matthews*.
1680. **E. densum** Raf.
Golah, *E. P. Killip*.
1483. **E. adenocaulon** Haussk.
Sullivans, *E. P. Killip*.
142. **OENOTHERA** L. EVENING PRIMROSE.
1681. **O. oakesiana** Robins.
Canandaigua, *Mrs. E. P. Gardner*.
1682. **O. muricata** L.
Canandaigua, *Mrs. E. P. Gardner*.
1683. **O. muricata** var. **CANESCENS** Torr. & Gray.
Canandaigua, *Mrs. E. P. Gardner*.
1684. **O. pallida** Lindl. [*Anogra albicaulis* Britton.]
Cobbs Hill Reservoir, *Florence Beckwith*.

349. **O. pumila** L.
Coldwater, *J. Laird*.

143. *GAURA* L.

351. **G. biennis** L.
Golah, *E. P. Killip*.

UMBELLIFERÆ.

164. *SANICULA* L.

1685. **S. canadensis** L.
Canandaigua Lake, *Mrs. E. P. Gardner*.

CORNACEÆ.

166. *CORNUS* L. Dogwood.

1686. **C. Slavini** Rehder.
Type plant in Seneca Park, Rochester, *B. H. Slavini*.

ERICACEÆ.

239. *CHIMAPHILA* Pursh.

606. **C. maculata** Pursh.
Perinton, *Miss A. B. Suydam*.

241. *PYROLA* [Tourn.] L.

1687. **P. incarnata** (Fisch.) Fernald. [*P. uliginosa* Torr.]
Mendon, *W. A. Matthews*.

229. *VACCINIUM* L.

1688. **V. pennsylvanicum** Lam. var. *ANGUSTIFOLIUM* (Ait.) Gray.
Rocky ledges, Leroy, *M. S. Baxter*.

1525. **V. atrocoecum** (Gray) Heller.
Bushnells Basin, *E. P. Killip*.

PRIMULACEÆ.

247. *ANAGALLIS* [Tourn.] L. PIMPERNEL.

1689. **A. arvensis** L. var. *CAERULEA* (Schreb.) Ledeb.
Canandaigua, *Mrs. E. O. Cartwright*.

GENTIANACEÆ.

255. *GENTIANA* L.

642. **G. puberula** Michx.
Bushnells Basin, *F. Boughton* and *Florence Beckwith*. This station has since been destroyed.

257. *BARTONIA* Muhl.

646. **B. virginica** (L.) BSP. [*B. tenella* Muhl.]
Simpson's Woods, *James Bishop*.

ASCLEPIADACEÆ.

253a. *CYNANCHUM* L.

1690. *C. VINCETOXICUM* (L.) Pers.
Dry fields, Highland Ave., *D. M. White*.

CONVOLVULACEÆ.

270. *CONVOLVULVUS* L. BINDWEED.

1691. *C. sepium* L. var. *pubescens* (Gray.) Fernald.
Canandaigua, *Mrs. E. P. Gardner*.

271. *CUSCUTA* L. DODDER.

1692. *C. EPITHYMUM* Murr.
Caledonia, *Florence Beckwith*.

POLEMONIACEÆ.

259a. *POLEMONIUM* L.

1693. *P. reptans* L.
Near Log Pond, Caledonia, *C. Vollertsen* and *Florence Beckwith*.

BORAGINACEÆ.

261. *CYNOGLOSSUM* (Tourn.) L.

654. *C. virginicum* L. WILD COMFREY.
Springwater, Livingston Co., *Matthews & White*.

265a. *ONOSMODIUM* Michx.

1694. *O. hispidissimum* Mack.
Dugan Creek, Livingston Co., *M. S. Baxter*.

VERBENACEÆ.

301. *VERBENA* L.

1695. *V. strieta* Vent.
Irondequoit, *James Bishop*; Pittsford, *F. Boughton*.
1537. *V. bracteosa* Michx.
Highland Park and Cobbs Hill Reservoir, *Florence Beckwith*.

LABIATÆ.

302a. *AJUGA* L. BUGLE WEED.

1696. *A. REPTANS* L.
Canandaigua, *Mrs. E. O. Cartwright*.

303. *TEUCRIUM* L.

1697. *T. occidentale* Gray.
Canandaigua, *Mrs. E. P. Gardner*; Pittsford, *F. Boughton*.

323. *GALEOPSIS* L. HEMP NETTLE.
1698. *G. LADANUM* L. var. *LATIFOLIA* Wallr.
Along West Shore railroad, Pittsford, *F. Boughton*.
322. *LAMIUM* L. DEAD NETTLE.
1699. *L. PURPUREUM* L.
W. A. Mattheus. Common.
- 324a. *SALVIA* L.
1700. *S. NUTANS* L.
Caledonia, *F. Beckwith*. Adventive.
314. *MONARDA* L.
755. *M. clinopodia* L.
The Gulf, *Mrs. John Dennis*; Mendon, *W. A. Mattheus*.
315. *BLEPHILIA* Raf.
1701. *B. hirsuta* (Pursh) Benth.
Buttermilk Falls, *D. M. White*.
308. *PYCNANTHEMUM* Michx.
1539. *P. flexuosum* (Walt.) BSP. [*P. unifolium* Pursh.]
Mendon, *W. A. Mattheus*; Forest Lawn, *Mrs. H. C. Pierce*.
745. *P. virginianum* (L.) Durand & Jackson [*P. lanceolatum* Pursh.]
Woolstons, *Mrs. L. R. Cornman*, *E. P. Killip*.

SOLANACEÆ.

272. *SOLANUM* [Tourn.] L. NIGHTSHADE.
675. *S. carolinense* L.
Two miles south of Sodus, *E. P. Killip*.
277. *HYOSCYAMUS* L.
683. *H. NIGER* L.
Waste places around Rochester, *C. Vollertsen*.

SCROPHULARIACEÆ.

281. *LINARIA* [Tourn.] Hill.
689. *L. canadensis* (L.) Dumont.
Golah, *E. P. Killip*.
1702. *L. MINOR* (L.) Desf.
North Bergen, *Killip & Woodams*, 1913; Stanley, *Baxter & Laird*, 1914.
283. *SCROPHULARIA* L. FIGWORT.
1703. *S. leporella* Bick.
Dugan Creek, Caledonia, *M. S. Baxter*; east side Irondequoit Bay, *D. M. White*.

285. *PENTSTEMON* Mitch.
 695. **P. laevigatus** Solander.
 West Shore railroad tracks, near Bergen, Killip & Woodams.
 289. *VERONICA* L. SPEEDWELL.
 702. **V. virginica** L.
 West Rush, M. S. Baxter; Scottsville, Florence Beckwith.
 293. *PEDICULARIS* L.
 720. **P. lanceolata** Michx. *
 Turk's Hill, Lewis S. Gannett.

PLANTAGINACEÆ.

325. *PLANTAGO* L. PLANTAIN.
 1704. **P. MEDIA** L.
 Canandaigua, Miss E. C. Webster.
 1541. **P. aristata** Michx. [*P. patagonica* var. *aristata* Gray.]
 Woolston road, Perinton, M. S. Baxter.
 1705. **P. virginica** L.
 On dry hillsides, Sullivans, M. S. Baxter. Rare.

RUBIACEÆ.

178. *GALIUM* L. BEDSTRAW.
 421. **G. pilosum** Ait.
 Pittsford, C. Vollertsen.
 1706. **G. SYLVATICUM** L.
 Pittsford, E. P. Killip.
 1707. **G. labradoricum** Wiegand.
 Mud Pond, Wayne Co., E. P. Killip.
 175. *HOUSTONIA* L.
 413. **H. caerulea** L.
 Gulick, Miss A. B. Suydam; Springwater, Livingston Co., Matthews
 & White.

CAPRIFOLIACEÆ.

170. *TRIOSTEUM* L.
 1708. **T. aurantiacum** Bick.
 Canandaigua Lake, Mrs. E. P. Gardner.

VALERIANACEÆ.

179. *VALERIANA* [Tourn.] L.
 430. **V. uliginosa** (T. & G.) Rydb. [*V. sylvatica* Man. ed. 6.]
 Swamp road, Victor, W. A. Matthews.

DIPSACACEÆ.

181a. *KNAUTIA* L.

1709. *K. ARVENSIS* (L.) T. Coulter.
Meadows, East Ave., Rochester, *C. Vollertsen*.

COMPOSITÆ.

183. *EUPATORIUM* [Tourn.] L.

1710. *E. purpureum* L. var. *maculatum* (L.) Darl.
Swamps, Mendon, *E. P. Killip*.
1711. *E. purpureum* L. var. *foliosum* Fernald.
Swamps, Sullivans, *M. S. Baxter*.
1712. *E. perfoliatum* L. var. *TRUNCATUM* Gray.
Greece, *E. P. Killip*; Irondequoit, *D. M. White*.

183a. *GRINDELIA* Willd.

1713. *G. squarrosa* Dunal.
Cobbs Hill Reservoir, *Florence Beckwith*.
1714. *G. squarrosa* Dunal. var. *NUDA* Gray.
Cobbs Hill Reservoir, *Florence Beckwith*.

183b. *CHRYSOTHAMNUS* Nutt.

1715. *C. pinifolia* Greene.
Cobbs Hill Reservoir, *M. S. Baxter*.

183c. *GUTIERREZIA* Lag.

1716. *G. Sarothrae* Britton & Rusby.
Cobbs Hill Reservoir, *Florence Beckwith*.

184. *SOLIDAGO* L.

1717. *S. caesia* L. var. *AXILLARIS* (Pursh) Gray.
M. S. Baxter. Frequent.
1718. *S. caesia* L. var. *PANICULATA* Gray.
M. S. Baxter. Occasional.
1719. *S. hispida* Muhl. Branched form.
Greece, *D. M. White*.
1720. *S. juncea* Ait. var. *SCABRELLA* (T. & G.) Gray.
M. S. Baxter. Occasional.
1721. *S. uniligulata* (DC.) Porter var. *levisipes* Fernald (*Rhodora* 17, 7.)
Bergen swamp, *Dr. C. H. Peck*, 1880.
1722. *S. aspera* Ait.
M. S. Baxter. Common.

184a. *SIDERANTHUS* Sweet.

1723. *S. gracilis* Rydb.
Cobbs Hill Reservoir, *M. S. Baxter*, *Florence Beckwith*.

186. *ASTER* L.467. *A. laevis* L.

A peculiar form of this species with elongated leaves and long narrow panicle, blooming in late October and November, has been found for several years in succession on the Pinnacle Hills by *C. H. Vollertsen*.

1724. *A. Schreberi* Nees.

Seneca Park, *B. H. Slavin*. Occasional.

469. *A. multiflorus* Ait.

Cobbs Hill Reservoir, *Florence Beckwith*.

1725. *A. longifolius* Lam.

Greece, *D. M. White*.

1726. *A. novi-Belgii* L.

Canandaigua, *Mrs. E. P. Gardner*.

1727. *A. tardiflorus* L.

Simpson's woods, *Mrs. John Dennis*.

186a. *MACHAERANTHERA* Nees.1728. *M. tanacetifolia* Nees.

Cobbs Hill Reservoir, *M. S. Baxter*.

1729. *M. pulverulenta* Greene.

Cobbs Hill Reservoir, *F. Beckwith*.

188. *ANTENNARIA* Gaertner. EVERLASTING.1730. *A. Parlinii* Fernald var. *arnoglossa* Greene.

Ogden and Lime Rock, *M. S. Baxter*. Scarce.

1731. *A. canadensis* Greene.

Dry hills, *M. S. Baxter*. Common.

1732. *A. fallax* Greene.

M. S. Baxter. Common.

1733. *A. occidentalis* Greene.

M. S. Baxter. Common.

1734. *A. neodioica* Greene.

Penfield, *M. S. Baxter*. Common.

1735. *A. grandis* (Fernald) House.

M. S. Baxter. Common.

1736. *A. neglecta* Greene.

Penfield, *M. S. Baxter*. Occasional.

1737. *A. petaloidea* Fernald.

M. S. Baxter. Common.

190. *GNAPHALIUM* L.
 1738. **G. purpureum** L.
 Sullivans, *M. S. Baxter*. Rare.
192. *POLYMNIA* L.
 496. **P. canadensis** L.
 Caledonia, *F. Beckwith*; The Gulf, *Botanical Section*.
195. *HELIOPSIS* Pers.
 504. **H. scabra** Dunal.
 Canandaigua, *Mrs. E. P. Gardner*.
- 195a. *GYMNOLOMIA* H.B.K.
 1739. **G. multiflora** B. & H.
 Cobbs Hill Reservoir, *F. Beckwith*.
198. *HELIANTHUS* L.
 1507. **H. petiolaris** Nutt.
 Railroad weed, East Rochester, *M. S. Baxter*; Cobbs Hill Reservoir,
Florence Beckwith; The Gulf, *Dr. L. R. Cornman*.
- 201a. *DYSSODIA* Cav.
 1740. **D. papposa** (Vent.) Hitchc.
 Cobbs Hill Reservoir, *M. S. Baxter*.
- 203a. *MATRICARIA* L. WILD CHAMOMILE.
 1741. *M. CHAMOMILLA* L.
 Waste places around city, *C. Vollertsen*.
1742. *M. SUAVEOLENS* Buch.
 Canandaigua, *Mrs. E. O. Cartwright*.
206. *ARTEMISIA* L.
 529. **A. caudata** Michx.
 Lake Shore, *D. M. White*.
530. **A. canadensis** Michx.
 Waste lot, Rochester, *D. M. White*.
1743. **A. dracunculoides** Pursh.
 Cobbs Hill Reservoir, *F. Beckwith*.
1744. **A. glauca** Pall.
 Cobbs Hill Reservoir, *M. S. Baxter*.
1745. **A. filifolia** Torr.
 Cobbs Hill Reservoir, *F. Beckwith*.
1746. **A. frigida** Willd.
 Cobbs Hill Reservoir, *F. Beckwith*.
532. **A. biennis** Willd.
 Cobbs Hill Reservoir, *M. S. Baxter*; Highland Park, *F. Beckwith*;
 Exchange street, *F. Boughton*.

1747. **A. gnaphaloides** Nutt.
Cobbs Hill Reservoir, *F. Beckwith*.
1748. **A. trifida** Nutt.
Cobbs Hill Reservoir, *F. Beckwith*.
1749. **A. carruthi** Wood.
Cobbs Hill Reservoir, *M. S. Baxter*.
209. *SENECIO* L.
1750. **S. eremophilus** Rich.
Cobbs Hill Reservoir, *F. Beckwith*.
212. *ARCTIUM* L.
542. **A. minus** Bernh. [*A. lappa* L. var. *minus* Gray.]
Several plants with pure white flowers at Garbutt, *F. Beckwith*.
- 212a. *CARDUUS* L.
1751. **C. CRISPUS** L.
Cobbs Hill Reservoir, *Miss M. E. Macaulcy*.
215. *CENTAUREA* L.
1752. **C. NIGRA** L.
West Shore Railroad tracks at Pittsford, *F. Boughton*.
1753. **C. americana** Nutt.
Long Pond, *Killip & Woodams*.
1754. **C. MACULOSA** Lam.
Winton road, Brighton, *C. C. Lancy*.
216. *LAPSANA* L. [LAMPANA HILL.]
552. **L. COMMUNIS** L.
Canandaigua, *Mrs. E. O. Cartwright*.
- 218d. *HYPOCHAERIS* L.
1522. **H. RADICATA** L.
Waste places around city, *C. Vollertsen*; Alexander St., near Prince,
F. Beckwith.
- 218b. *LEONTODON* Banks.
1755. **L. NUDICAULIS** (L.) Banks.
Eastern part of city, *C. Vollertsen*.
- 218c. *PICRIS* L.
1756. **P. HIERACIODES** L.
Cultivated field, Westfall road, Brighton, *C. Vollertsen*.
223. *LACTUCA* L.
1757. **L. SCARIOLA** L. var. **INTEGRATA** Gren. & Godry.
Vacant lots, *M. E. Macaulcy*. Becoming common.

1758. **L. canadensis** L. var. **MONTANA** Britton.
B. R. & P. R. R. near Riverside, *D. M. White*.
220. **CREPIS** L.
1759. **C. CAPILLARIS** (L.) Wallr.
Lawns, Rochester, *M. S. Baxter*.
562. **C. biennis** L.
Canandaigua, *Mrs. E. P. Gardner*.
219. **HIERACIUM** L.
1760. **H. FLORENTINUM** All.
Springwater, *Matthews & White*; Gulick, *M. S. Baxter*.
1761. **H. MURORUM** L.
Canandaigua, *Miss E. C. Webster*.



HYMENOMYCETEA OF ROCHESTER, N. Y., AND VICINITY.

BY FRED S. BOUGHTON.

The following Hymenomycetæ, or fleshy fungi, numbering 319 species and varieties, were collected by the writer in Rochester, Pittsford, Perinton, Mendon and vicinity. References to the reports of Dr. C. H. Peck are given in parentheses.

CLASS FUNGI.

Sub-class BASIDIOMYCETES.

Cohort Hymenomycetes. *Gr.*—a membrane, a fruit-bearing surface;
Gr.—a mushroom.

Family I.—AGARICACEÆ.

Series I.—LEUCOSPORÆ. *Gr.*—white; *Gr.*—seed. White spored.

AMANITA.

(A name given to some esculent fungi by Galen, perhaps from Mount Amanus.)

1. **Amanita phalloides** Fr. (Pk. 1895)—phallus-like Amanita. Woods, Rochester, Bushnells Basin and vicinity, common, deadly poisonous.
2. **A. phalloides**, gray var., same habitat as the last, not common, deadly poisonous.
3. **A. verna** Bull. (Pk. 1895.) A variety of *A. phalloides*, not common, deadly poisonous.
4. **A. spreta** Pk.—hated. Woods, Pittsford, not common, poisonous.
5. **A. muscaria** Linn. (Pk. 1895)—Fly Amanita. Poisonous, common throughout the county. The Germans use the caps, immersed in milk, to kill flies.
6. **A. Caesarea** Scop. (Pk. 1895)—King-like Caesars mushroom. Pittsford. Not common, edible.
7. **A. rubescens** Pers. (Pk. 1895)—reddish Amanita. Seneca Park, Pittsford, Bushnells Basin, common, edible.
8. **A. Frostiana** Pk. Pittsford, not common, poisonous.
9. **A. sp.**—A species new to me. Gray in color, with pileus covered with warts. Woods, Pittsford.
10. **A. pantherina** DC.—Bushnells Basin, not tested.
11. **A. radicata** Pk.—Rochester, not tested.
12. **A. strobiliformis** Vitt.—*Strobilis*, a pine cone. Rochester, edible.

AMANITOPSIS Roze.

Amanita, ophis, resembling.

13. **Amanitopsis vaginata** Roze.—*vagina*, a sheath. Pittsford, not common, edible. Common in the Adirondacks.
14. **A. strangulata** (Fr.) Roze.—choked, from the stuffed stem. Rochester, Pittsford, not common, edible.
15. **A. velosa** Pk.—*velosus*, fleecy. Rochester, Pittsford. Not common; common in the Adirondacks, edible.
16. **A. volvata** Pk.—possessing a volva. Pittsford, not common, edible.
17. **A. nivalis** Grev.—snowy. Rochester, too bitter to eat.

LEPIOTA Fr.

Lepis, a scale.

18. **Lepiota naucinoides** Pk. (Pk. 1895). Woods, fields, roadsides, edible.
19. **L. procera** Scop. (Pk. 1895).—Parasol mushroom. Woods, orchards, common, edible.
20. **L. Americana** Pk. (Pk. 1895). Pittsford, not common, edible.
21. **L. clypeolaria** (Bull.) Fr. (Pk. 1900). Woods, fields and lawns, common, edible.
22. **L. acutesquamosa** Wein.—*acutus*, sharp; *squama*, a scale. Rochester, not common, edible.
23. **L. granulosa** Batsch.—*granosus*, full of grains. Rochester, not common, edible.
24. **L. aspera** Murrill. Mendon, not common, not tested.
25. **L. cepaestipes** Sow.—onion-stemmed Lepiota. Pittsford, not common, edible.

ARMILLARIA Fr.

Armillia, a ring.

26. **Armillaria mellea** Vahl. (Pk. 1895).—honey-colored Armillaria. Around old stumps, common everywhere, edible.
27. **A. mellea** var. **glabra**.—smooth. Bushnell's Basin, edible.

TRICHOLOMA Fr.

Gr.—a hair; a fringe.

28. **Tricholoma personatum** Fr. (Pk. 1895)—wearing a mask, (from its many varieties of colors). Called in England "Blue hats". Woods, common everywhere, edible.
29. **T. russula** Schaeff. (Pk. 1901).—reddish. Seneca Park, Pittsford, Mendon, Bushnell's Basin, edible.

30. **T. gambosum** Fr.—*gambosus*, swelling near the hoof. Woods, Monroe Co., edible.
31. **T. vaccinum** Pers.—*vacca*, a cow. Woods, Monroe Co., edible.
32. **T. album** Schaeff. Pittsford, Bushnells Basin, edible.
33. **T. aurantia** Schaeff. Fr. Pk. Pittsford, edible.
34. **T. transmutans** Pk.—changing. Woods, Pittsford, edible.
35. **T. fumidellum** Pk.—smoky Tricholoma. Woods, Pittsford, edible.
36. **T. columbetta** Fr.—*columba*, a pigeon, (from the color). Woods, Pittsford, edible.
37. **T. subeinerum** Pk.—a new species discovered by the writer in a cellar in Pittsford. Pileus about 2½ inches broad of an ash color, smooth and flat, with broad rounding gills making the pileus look like the half of a ball. Stem three inches high, a little larger than a lead pencil, of the same color as the pileus. Edible, qualities not tested.
38. **T. subsejunctum** Pk.—partly separated, (from the peculiar manner in which the gills separate from the stem.) Monroe Co., edible.
39. **T. imbricatum** Fr.—covered with tiles. Rochester, edible.
40. **T. subpulverulentum** Pers.—slightly dusty. Rochester, edible.
41. **T. subpurpurea**—somewhat purple. Rochester, not tested.
42. **T. sejunctum** Sow.—separated; (from the peculiar manner in which the gills separate from the stem.) Monroe Co., edible.
43. **T. terreum** Schaeff.—the earth, (from the color). Pittsford, Mendon, Bushnells Basin, quality fair.
44. **T. albo-flavidum** Pk.—yellow-disced. Pittsford, Bushnells Basin, edible.

CLITOCYBE Fr.

Gr.—sloping (from the depression of the pileus).

45. **Clitocybe odora** Bull.—*odorus*, fragrant. Woods, Pittsford, edible.
46. **C. multiceps** Pk. (Pk. 1909).—*multus*, many; *caput*, a head, (from growing in clusters). Open places, Pittsford.
47. **C. illudens** Schw. (Pk. 1895).—deceiving. Pittsford, Churchville, Golah. Unwholesome. Phosphorescent, giving out light at night.
48. **C. infundibuliformis** Schaeff. (Pk. 1895).—funnel-formed. Common throughout the county, edible.
49. **C. cyathiformis** Bull.—cup-shaped. Pittsford, edible.

50. **C. (laccaria) ochropurpurea** Berk. (Pk. 1906). Woods, Pittsford, edible.
51. **C. (laccaria) laccata** Scop. (Pk. 1895).—made of lac. Woods, Pittsford, Mendon, edible.
52. **C. (laccaria) laccata**, var. **pallida** Pk. Bushnells Basin, edible.
53. **C. (laccaria) amethystina** Bolt.—color of an amethyst. Mendon, not common, edible.
54. **C. dealbata** Sow. On lawn, Pittsford, not edible. This mushroom has the property of making the person who eats of it sweat profusely.
55. **C. eccentrica** Pk. Woods, Monroe Co., not tested.
56. **C. albissima** Pk. Woods, Pittsford, not tested.
57. **C. gilva** Pers.—*gilvus*, pale brownish yellow. Rochester, edible.
58. **C. monadelpha** Mor.—*monas*, single; *adelphos*, a brother, from its growing in clusters. Rochester, Pittsford, edible.
59. **C. nebularis** Batsch.—*nebula*, a cloud. Rochester, edible.
60. **C. robusta** Pk.—*robustus*, stout. Mendon, edible.
61. **C. tuba** (Fries) Gill. Pittsford, Bushnells Basin, not tested.
62. **C. candicans** Pers.—*candico*, to be shining white. Pittsford, edible.
63. **C. sp.** species not named. Mendon, Murrill.
64. **C. Adirondackensis** Pk. (Pk. 1900). Rochester, edible.

COLLYBIA Fr.

65. **Collybia radicata** Relh. (Pk. 1895).—*radix*, a root. Woods, fields, lawns, common. Not poisonous, not edible.
66. **C. platyphylla** Fr. (Pk. 1895).—*Gr.*—broad; a leaf. Pittsford, Bushnells Basin, edible.
67. **C. velutipes** Curt. (Pk. 1895).—*velutum*, velvet; *pes*, a foot. On old logs and stumps, common, edible.
68. **C. butyracea** Bull.—*butyrum*, butter; buttery to the touch. Bushnells Basin, edible.
69. **C. dryophila** Bull. (Pk. 1907).—*Gr.*—oak-loving. Woods, common, edible.
70. **C. acervata** Fr. (Pk. 1908).—*acervus*, a heap. Bushnells Basin, edible.

MYCENA Fr.

Gr.—a fungus.

71. **Mycena pura** Pk. Woods, Pittsford, not tested.
72. **M. cohaerens** Fries.—adhering together. Rochester, not tested.

OMPHALIA.

Gr.—belonging to an umbilicus.

73. **Omphalia oniseus** Fr. *Gr.*—a wood louse, (from the ashy color). Woods, Pittsford, not common, edible.
74. **O. caespitosa** (Bolton) Sacc.—growing in clusters. Rochester, edible.

PLEUROTUS.

Gr.—a side; *Gr.*—an ear.

75. **Pleurotus ostreatus** Jacq. (Pk. 1895).—*ostrea*, an oyster. Rochester, Pittsford, Bushnells Basin, common, edible.
76. **P. serotinus** Fr.—late, from its late appearance. Woods, Pittsford, Bushnells Basin, edible.
77. **P. ulmarius** Bull. (Pk. 1895).—elm Pleurotus. On logs and stumps. Pittsford, Bushnells Basin, edible.
78. **P. sapidus** Kalch. (Pk. 1895).—savory. On stumps and partly decayed trees, Pittsford, Bushnells Basin, edible.
79. **P. subareolatus** Pk.—somewhat cracking. On living maple tree, Pittsford. Rare, edible.
80. **P. petaloïdes** Bull.—petal of a flower. Rochester, not common, edible.

HYGROPHORUS Fr.

Gr.—moist; *Gr.*—to bear.

81. **Hygrophorus pratensis** Fr. (Pk. 1895).—*pratium* a meadow. Pittsford, Bushnells Basin, edible.
82. **H. pratensis** white var., same habitat, edible.
83. **H. cantharellus** Schw. *Gr.*—a small vase. Bushnells Basin, edible.
84. **H. cantharellus** var. **flava**. Bushnells Basin, not common, edible.
85. **H. ceraceus** Fr.—*cera*, was. Monroe Co., edible.
86. **H. chrysodon** Fr. *Gr.*—gold, a tooth, (from tooth-like squamules). Monroe Co., edible.
87. **H. flavo-discus** Frost (Pk. 1895).—*flavus*, yellow; *discus*, disk. Woods, Palmer's Glen, Rochester, Pittsford, edible. The Boston Mycological Club makes a trip every fall for the express purpose of gathering this species and having it cooked by an expert, a member of the society.
88. **H. miniatus** Fr. (Pk. 1895).—*minium*, red lead, (from the color). Woods, Pittsford, Bushnells Basin, edible.
89. **H. eburneus** Bull. Fr.—*ebur*, ivory. Woods, Mendon, edible.
90. **H. coccineus** Schaeff.—scarlet. Bushnells Basin, edible.

LACTARIUS Fr.

Giving *lac* (milk).

91. **Lactarius piperatus** Fr.—*piper*, pepper. Rochester, Pittsford, Bushnells Basin; edible but not of first rate quality.
92. **L. vellereus** Fr.—*vellus*, fleece. Pittsford, edible.
93. **L. deliciosus** Fr. (Pk. 1895). Pittsford, edible.
94. **L. indigo** Schw. Woods, Pittsford, Bushnells Basin, edible.
95. **L. luteolus** Pk. (Pk. 1902).—yellowish. Pittsford, edible.
96. **L. Gerardii** Pk. (Pk. 1895). Woods, Pittsford, edible.
97. **L. volemus** Fr. (Pk. 1895). Woods. Common; one of the best of fungi.
98. **L. trivialis** Fr.—common. Rochester, Pittsford, Bushnells Basin. Too peppery to eat.
99. **L. hygrophoroides** B. and C. (Pk. 1895). Seneca Park, Pittsford, edible.
100. **L. torminosus** Fr.—*tormina*, gripes. Pittsford, on a lawn, poisonous.
101. **L. chelidonium** Pk. Rochester, edible.
102. **L. crocea** Burlingham. Rochester, not tested.
103. **L. insulsus** Fr.—tasteless. Rochester, edible.
104. **L. atro-viridis** Pk.—black green. Woods, Pittsford, not tested.
105. **L. fuliginosus** Fr.—*fuligo*, soot. Rochester, Pittsford, Bushnells Basin, poisonous.
106. **L. theiogalus** Fr. *Gr.*—brimstone; milk. Rochester, Pittsford, Bushnells Basin, edible.
107. **L. pergamenus** Fr.—parchment. Rochester, edible.
108. **L. griseus** Pk.—gray, Pittsford, not tested.
109. **L. lignyotus** Fr.—*lignum*, wood. Rochester, edible.
110. **L. subpurpureus** Pk.—somewhat purple. Rochester, Pittsford, not tested.

RUSSULA Pers.

Reddish.

111. **Russula purpurina** Quel. and Schulz.—purple. Woods, Pittsford, edible.
112. **R. sordida** Pk. (Pk. 1905).—dingy. Rochester, Pittsford, Bushnells Basin, edible.

113. **R. ochrophylla** Pk. (Pk. 1895). Seneca Park, Pittsford, Bushnells Basin, edible.
114. **R. virescens** Fr. (Pk. 1895).—*viresco*, to be green. Common but not as plentiful as one could wish. Edible, one of the best.
115. **R. citrina** Gillet.—citron colored. Pittsford, edible.
116. **R. cyanoxantha** (Schaeff.) Fr. *Gr.*—blue; *Gr.*—yellow, from the color. Bushnells Basin, Adirondack Mts., not common, edible.
117. **R. foetens** Fr.—stinking. Woods, common, not edible, not poisonous.
118. **R. emetica** Fr.—an emetic. Pittsford, edible, though reputed to be poisonous by some.
119. **R. atro-purpurea** Pk.—*atrc*, black; *purpureus*, purple. Pittsford. Edible, must be eaten as soon as gathered.
120. **R. aurata** Fr.—*aurum*, gold. Pittsford, Bushnells Basin, edible.
121. **R. alutacea** Fr.—*aluta*, tanned leather. Bushnells Basin, edible.
122. **R. rosiepes** (Secr.) Bres.—*rosa*, rose; *pes*, a foot, (from the color of the stem). Seneca Park, Pittsford, Bushnells Basin, edible.
123. **R. compacta** Frost. (Pk. 1906).—compact, firm. Seneca Park, Pittsford, Bushnells Basin, edible.
124. **R. obscura** Pk. Bushnells Basin, Adirondack Mts., edible.
125. **R. variata** Banning (Pk. 1905).—variable. Seneca Park, Bushnells Basin, Pittsford, edible.
126. **R. crustosa** Pk. (Pk. 1902). Bushnells Basin, edible, rare.
127. **R. sp.** new species, not named, found in Mendon. Has a very viscid pileus. Murrill.
128. **R. bicolor** Burlingham.—two colored. Rochester, edible.
129. **R. lactea** Fr.—*lac*, milk. Rochester, edible.
130. **R. rubra** Fr.—*ruber*, red. Rochester, Pittsford, Bushnells Basin, edible.
131. **R. pectinata** Fr.—*pecten*, a comb, (from comb-like furrows on the margin). Edible but not very good.
132. **R. decolorans** Fr.—*dc* and *coloro*, to color. Bushnells Basin, edible.
133. **R. albella** Pk.—whitish. Pittsford, edible.
134. **R. furcata** Fr.—*furca*, a fork, (from the forked gills). Pittsford. edible.
135. **R. pinophila** Pk.—pine loving. Rochester, Adirondack Mts., edible.

CANTHARELLUS Adans.

Gr.—a vase; a cup.

136. **Cantharellus cibarius** Fr.—*cibaria*, food. Seneca Park, Pittsford, Bushnells Basin, Adirondack Mts., common. One of the highest-priced mushrooms sold in the English markets.
137. **C. aurantiacus** Fr.—orange yellow. Bushnells Basin, Adirondack Mts., edible.
138. **C. cinnabarinus** Pk.—cinnabar red. Rochester, Pittsford, Bushnells Basin, edible.
139. **C. brevipes** Pk.—*brevis*, short; *pes*, a foot. Rochester, edible.

MARASMIUS Fr.

Gr.—to wither or shrivel.

140. **Marasmius oreades** Fr. (Pk. 1895). Fairy Ring, Mountain Nymphs, Scotch Bonnet. Common in fields and orchards. A very valuable edible species which should be better known. Can be dried for winter use.
141. **M. Wynnei** B. & Br. Woods, Pittsford, edible, not common.
142. **M. siccus** (Schw.) Fries. Rochester, not tested.

LENTINUS Fr.

Lentus, tough or pliant.

143. **Lentinus lepideus** Fr.—*Gr.*—scaly. Railroad ties, Pittsford, edible.

PANUS Fr.

A name given to a tree-growing fungus by Pliny.

144. **Panus torulosus** Fr.—a tuft of hair, (from its hairy pileus). Rochester, Pittsford, edible.
145. **P. stypticus** Fr.—*stypticus*, astringent. Bushnells Basin, poisonous.

SCHIZOPHYLLUM Fr.

Gr.—to split; *Gr.*—a leaf.

146. **Schizophyllum commune** Fr. On decaying wood, not edible.

SERIES II.—RHODOSPORÆ. *Gr.*—rose; *Gr.*—a seed. Spores pink or salmon color.

VOLVARIA Fr.

Volva, a wrapper.

147. **Volvaria volvacea** Bull.—*volva*, a wrapper. Rochester, edible.
148. **V. volvacea** white variety found by the writer, edible, rare.

149. **V. bombycina** Schaeff.—*bombyx*, silk. On three living trees in Pittsford; edible, not common. A large and very conspicuous object with immense white pileus and pink gills and long silky white hairs on the pileus, making it look not unlike a Tam O'Shanter cap.

PLUTEUS Fr.

Pluteus, a shed (from the conical shape of the pileus).

150. **Pluteus cervinus** Schaeff.—*cervus*, a deer, from the color. Stumps in woods and old sawdust piles, Pittsford, edible.
 151. **P. granularis** Pk.—sprinkled with grains. Rochester, edible.
 152. **P. admirabilis** Pk. Rochester, edible.

ENTOLOMA Fr.

Gr.—within; *Gr.*—a fringe.

Probably referring to the innate character of the pseudo-veil.

153. **Entoloma grande** Pk. Bushnells Basin, edible.
 154. **E. sinuatum** Fr.—waved. Pittsford, poisonous.

CLITOPILUS Fr.

Gr.—a declivity; *Gr.*—a cap.

155. **Clitopilus prunulus** Scop. (Pk. 1895).—*prunus*, plum. Rochester, Pittsford, Mendon, edible.
 156. **C. oreella** Bull. (Pk. 1895). Woods, Pittsford, edible.
 157. **C. noveboracensis** Pk.—New York Clitopilus. Woods, Pittsford, edible.
 158. **C. noveboracensis** var. **tomentosipes** Pk.—hairy stemmed. Pittsford, edible.
 159. **C. caespitosus** Pk.—tufted. Rochester, edible.

CLAUDOPUS *Smith.*

Claudus, lame; *pous*, a foot.

160. **Claudopus nidulans** Pers.—*nidus*, a nest. Bushnells Basin, edible.

Series III.—OCHROSPORÆ. Spores brown.

PHOLIOTA Fr.

Gr.—a scale.

161. **Pholiota praecox** Pers. (Pk. 1895).—early. Fields, lawns, roadsides. Rochester, Pittsford, edible.
 162. **P. squarrosa** Mull. (Pk. 1901).—*squarrosus*, scurfy. On logs, Pittsford, edible.

163. **P. comosa** Pk. Pittsford, not tested.
 164. **P. vermilva** Pk. (Pk. 1903).—wormy. Under an apple tree, Pittsford, not tested.
 165. **P. durus** Bolt.—*durus*, hard. Rochester, edible.

INOCYBE.

Gr.—a fiber; *Gr.*—a head.

166. **Inocybe modesta** Pk. A new species discovered by the writer in the Pittsford cemetery, with small modest brown pileus and stem. Not edible.
 167. **I. geophylla** (Sow.) Fr. Rochester, not edible.
 168. **I. geophylla** var. **purpurea**, not edible. A pretty purple variety found by the writer in woods, Pittsford.
 169. **I. Lorillardiana** Murrill. Rochester, not edible.

HEBELOMA Fr.

Hebe, youth; *loma*, a fringe.

170. **Hebeloma fastibile** Fr.—*fastidibilis*, loathsome, (from the smell). Rochester, Pittsford, not edible.
 171. **H. crustuliniforme** Bull.—*crustulum*, a small pie; *forma*, form. Rochester, not edible.
 172. **H. sp.**—a species found by the writer in Mendon, said by Dr. Murrill to be new.

FLAMMULA Fr.

Flamma, a flame (In reference to the bright colors of many of the species).

173. **Flammula alnicola** Fr.—*alnus*, alder; *colo*, to inhabit. Near a hedge, Pittsford, edible.
 174. **F. decurrens** Pk. Monroe Co. Not tested.
 175. **F. sulphurea** Pk. (Pk. 1911) Monroe Co. Not tested.

NAUCORIA Fr.

Naucum, a nut shell.

176. **Naucoria semi-orbicularis** Bull.—half round. Lawns, Rochester, Pittsford, common, edible.
 177. **N. platysperma** Pk.—*platys*, broad; *sperma*, a seed. Lawns, Pittsford, edible.
 178. **N. pediades** Fr. *Gr.*—a plain. Rochester, edible.

GALERA Fr.

Galerus, a cap.

179. **Galera tenera** Schaeff.—*tener*, tender. Lawns, Pittsford, edible.
 180. **G. flava** Pk.—*flavus*, yellow. Pittsford, edible.
 181. **G. reticulata** Pk. Pittsford, rare, not tested.

CREPIDOTUS Fr.

Gr.—a slipper.

182. **Crepidotus versutus** Pk. Rochester, not tested.

CORTINARIUS Fr.

Cortina, a veil or curtain.

183. **Cortinarius albo-violaceus** Pers. Seneca Park, Pittsford, edible.
 184. **C. sanguineus** Fr.—*sanguis*, blood. Woods, Pittsford, Bushnells Basin, edible.
 185. **C. cinnamomeus** Fr. (Pk. 1895). Woods, common, edible.
 186. **C. rubripes** Pk.—red stemmed. A new species discovered by the writer in what is now Lombs woods, Pittsford. Pileus pale tan color, gills rich purple, stem swollen at the base like a radish and of a brick red color. Not common and not tested.
 187. **C. semi-sanguineus** Pk. (Pk. 1895).—partly red. Bushnells Basin, edible.
 188. **C. sebaceus** Fr.—*sebum*, tallow, from the color. Bushnells Basin, edible.
 189. **C. napus** Fr. Pittsford, not tested.
 190. **C. distans** Pk. Woods, Bushnells Basin, not desirable.
 191. **C. infractus** (Pers.) Fries. Pittsford, not tested.
 192. **C. purpurascens** Fr. Bushnells Basin, edible.
 193. **C. turbinatus** Fr.—*turbo*, a top. Pittsford, edible.

PAXILLUS Fr.

Paxillus, a small stake.

194. **Paxillus involutus** (Batsch) Fr.—rolled inward. Seneca Park, Bushnells Basin, edible.
 195. **P. atro-tomentosus** (Batsch) Fr.—*ater*, black; *tomentum*, down. Forest Lawn, edible.
 196. **P. rhodoxanthus** Pk. Rochester, not tested.

SERIES IV.—PORPHYROSPORÆ (Pratelli). *Gr.*—purple.

AGARICUS.

Agaricon, a Greek name for fungi, said to be derived from the name of a town, Agara.

197. **Agaricus campester** Linn.—*campus*, a field. The common pasture mushroom; fields, orchards, roadsides, edible.
198. **A. diminutivus** Pk. (Pk. 1900). Pittsford, Adirondack Mts., edible.
199. **A. Rodmani** Pk. (Pk. 1895). Roadsides, Pittsford, common, edible.
200. **A. magnificus** Pk. Roadsides, Pittsford, edible, not common.
201. **A. silvicola** Vitt. (Pk. 1895).—*silva*, a wood; *colo*, to inhabit. Woods, Pittsford, edible.
202. **A. placomyces** Pk. (Pk. 1895). Woods, orchards, lawns, common, edible.
203. **A. sylvaticus** Schaeff. Woods, Forest Lawn; orchards, Sodus, edible.
204. **A. abruptibulbus** Pk. (Pk. 1895). (*A. silvicola* Vitt. *A. arvensis* var. *abruptus* Pk.) This being the wood cousin of the field mushroom is worth notice. It grows very tall with a large bulb at the base of the stem and a large pileus, and from a distance looks like *Amanita phalloides*. It has the true mushroom flavor. Found in woods in Pittsford, not common.

STROPHARIA.

Gr.—a sword belt (referring to the ring).

205. **Stropharia aeruginosa** Curt.—*acrugo*, verdigris, from the color. Not edible.

HYPHOLOMA.

Gr.—a web; *Gr.*—a fringe.

206. **Hypoholoma incertum** Pk. (Pk. 1895). Lawns, roadsides, common, edible.
207. **H. aggregatum sericeum** Pk. Same habitat as the last and like it, but larger, edible.
208. **H. Perplexum** Pk. (Pk. 1895). Around old stumps, common everywhere, edible.
209. **H. sublateritium** Schaeff.—*sub* and *later*, a brick, from the color. Same habitat as the last, edible.
210. **H. Boughtoni** Pk. (Pk. 1909). A new species discovered by the writer in woods at Bushnell's Basin. Pileus from two to four inches broad often areolately cracking, pale reddish brown, lamellae unequal purplish brown, seal brown or blackish—stem equal, white or whitish, two to three inches long. Not tested, but Dr. Peck says probably edible.

211. **H. appendiculatum** Bull.—a small appendage (from fragments of the veil adhering to the pileus). Rochester, Pittsford, edible.
 212. **H. Candolleianum** Fr. Rochester, edible.
 213. **H. rigidipes** Pk.—rigid stemmed. Rochester, Pittsford, not tested, probably edible.

PSILOCYBE Fr.

Gr.—naked; head.

214. **Psilocybe atomatoides** Pk. Pittsford, not tested.

Series V.—MELANOSPORÆ (spores black). *Gr.*—black; *Gr.*—seed.

COPRINUS Pers.

Gr.—dung.

215. **Coprinus micaceus** (Bull) Fr.—*mica*, grain, granular. Glistening Coprinus or brownie mushroom; common everywhere, edible.
 216. **C. comatus** Fr.—*coma*, hair. Shaggy mane mushroom. Lawns, waste places, common everywhere, edible.
 217. **C. atramentarius** (Bull) Fr.—*atramentum*, ink. Inky Coprinus. Same habitat as the last; one of the best.
 218. **C. virgineus** Banning. Rochester, edible.

PANÆOLUS Fr.

Gr.—all; *Gr.*—variegated.

219. **Panaeolus solidipes** Pk.—solid stemmed. Rochester, Pittsford, edible.
 220. **Panaeolus epymices** Pk. Monroe Co., not tested.

PSATHYRELLA.

Gr.—fragile.

221. **Psathyrella disseminata** Pers.—disseminato, to scatter. Rochester, Pittsford, common, edible.

Family II.—POLYPORACEÆ.

BOLETINUS Kalch.

222. **Boletinus pictus** Pk.—spotted. Sullivans, edible.
 223. **B. porosus** (Berk) Pk. Rochester, Pittsford, edible.
 224. **B. grisellus** Pk. Pittsford, not tested.

BOLETUS Dill.

Gr.—a clod.

225. **Boletus gracilis** Pk. Bushnells Basin, edible.
 226. **B. Americanus** Pk. Monroe Co., edible.

227. **B. subluteus** Pk. (Pk. 1895).—somewhat yellow. Bushnells Basin, edible.
228. **B. subtomentosus** L.—somewhat hairy. Monroe Co., edible.
229. **B. bicolor** Pk.—two colored. Woods and open places, Pittsford, edible.
230. **B. Russelli** Frost. Bushnells Basin, not common, edible.
231. **B. edulis** Bull. (Pk. 1895). Woods, Rochester, Pittsford, Bushnells Basin, edible.
232. **B. edulis** var. **clavipes** Pk.—club footed. Rochester, Pittsford, edible.
233. **B. luridus** Schaeff. Woods, Pittsford. Should be carefully tested.
234. **B. versipellis** Fr. (Pk. 1895). Bushnells Basin, Bergen Swamp, edible.
235. **B. felleus** Bull. (Pk. 1895). Rochester, Pittsford, unwholesome.
236. **B. griseus** Frost.—gray. Bushnells Basin, edible.
237. **B. chromapes** Frost. Monroe Co., edible.
238. **B. communis** Bull. Monroe Co., not tested.
239. **B. retipes** B. and C.—reticulate stem. Bushnells Basin, edible.
240. **B. castaneus** Bull.—chestnut. Rochester, Adirondack Mts., edible.
241. **B. impolitus** Fr.—unpolished. Rochester, edible.
242. **B. vermiculosus** Pk.—wormy. Rochester, not tested.
243. **B. subaureus** Pk. var. **rubro-scriptus** Pk. Rochester, edible.
244. **B. subtomentosus** L.—somewhat downy. Rochester, edible.
245. **B. sp.**—a new species found by the writer in Bushnells Basin. Small peach yellow pileus with red cheek. Dr. Peck said that it was new but on account of not finding any more specimens he would not give it a name.
246. **B. Sullivantii** B. and M. Rochester, not tested.

STROBILOMYCES Berk.

Gr.—a pine cone; a fungus.

247. **Strobilomyces strobilaceus** *Gr.*—cone like. Rochester, Pittsford, Bushnells Basin, edible.

FISTULINA *Bull.**Fistula*, a pipe.

248. **Fistulina hepatica** (Huds.) Fr.—resembling the liver. Beefsteak mushroom. On chestnut stumps. Rochester, Pittsford, edible.
249. **F. pallida** B. and Rav.—*pallidus*, pale. Rare, not tested.

POLYPORUS Fr.

Gr.—many; a passage, a pore.

250. **Polyporus squamosus** Fr.—*squamina*, a scale. On partly decayed trees, Pittsford, edible but tough.

251. **P. umbellatus** Fr.—*umbella*, a sun shade. Woods, Pittsford, edible.
252. **P. sulphureus** Fr. (Pk. 1895).—sulphury Polyporus, chicken mushroom. Rochester, Pittsford, Mendon, Perinton.
253. **P. picipes** Fr.—*pix*, pitch; *pes*, a foot. Monroe Co., edible.
254. **P. poripes** Fr.—porus-stemmed. Woods, Pittsford, edible.
255. **P. anax** Berk. Woods, Pittsford, edible.
256. **P. lucidus** Fr. Monroe Co. Not tested.
257. **P. frondosus** Fr.—*frons*, a leafy branch. Pittsford, edible.

Family III—HYDNACEÆ.

HYDNUM.

Gr.—name for some edible fungus.

258. **Hydnum repandum** L. (Pk. 1895).—spreading. Seneca Park, Pittsford, edible, common but not plentiful.
259. **H. albidum** Pk. (Pk. 1895). Woods, Pittsford, edible.
260. **H. coralloides** Scop. (Pk. 1895). Pittsford, Fairport, Adirondack Mountains. A handsome plant, edible.
261. **H. caput-ursi** Fr. (Pk. 1895).—bears head Hydnum. Pittsford, Adirondack Mts., edible. This can be truly called a wonderful plant with its resemblance to the head of a polar bear.
262. **H. caput-Medusæ** Bull.—Medusa's head Hydnum. Mendon, Adirondack Mts., edible. This with its long spines is a handsome plant.
263. **H. erinaceum** Bull.—*erinaceus*, a hedgehog. Pittsford, edible.
264. **H. scabrosum** Fr.—*scabrosus*, rough. Rochester, edible.
265. **H. imbricatum** L.—*imbræx*, a tile. Woods, Pittsford, edible.

Family IV.—THELEPHORACEÆ Fr.

Gr.—a teat; *Gr.*—to bear.

CRATERELLUS Fr.

Crater. a bowl.

266. **Craterellus cornucopoides** Pers. (Pk. 1895).—cornucopia shaped. Pittsford, Bushnells Basin, edible. A remarkable mushroom, looking not unlike a small ruffled-edge morning glory blossom, of a pinkish brown color.
267. **C. cantharellus** Schw.—a small vase or cup. Rochester, edible. In looks somewhat like a chantarelle.

Family V.—CLAVARIACEÆ.

SPARASSIS Fr.

Gr.—to tear in pieces.

268. **Sparassis crispa** Fr.—*crispus*, curly. Pittsford, edible. A very remarkable mushroom looking not unlike a coil of two to four inch wide brown ribbon set on edge and somewhat crimped. It is not common.

CLAVARIA L.

Clava, a club.

269. **Clavaria flava** Schaeff.—yellow. Seneca Park, Pittsford, Bushnells Basin, edible.
270. **C. botrytes** Pers. (Pk. 1895).—a cluster of grapes (from shape). Bushnells Basin, edible.
271. **C. amethystina** Bull.—amethyst color. Pittsford, edible.
272. **C. cristata** Pers. (Pk. 1895). Seneca Park, Pittsford, edible.
273. **C. coralloides** L.—coral like. Pittsford, edible.
274. **C. formosa** Pers.—neat, handsome. Pittsford, edible.
275. **C. stricta** Pers.—*stringo*, to draw tight. Bushnells Basin, edible.
276. **C. aurantio-cinnabarinum** Schw.—orange, vermilion. Bushnells Basin, edible. This is the handsomest of this family, looking like a branch of red coral.
277. **C. vermicularis** Scop.—*vermis*, a worm. Bushnells Basin, Sullivans. rare, edible. First found by the writer in the Adirondacks.
278. **C. fusiformis** Sow.—*fusus*, a spindle. Pittsford, Adirondack Mountains, edible.
279. **C. pistillaris** L. (Pk. 1904).—pistillum. Woods, Pittsford, edible.
280. **C. pyxidata** Pers.—*pyxis*, a small box. Bushnells Basin, edible.
281. **C. densa** Pk. Bushnells Basin, edible.
282. **C. pinophila** Pk.—pine-loving. Pittsford, not tested.
283. **C. mucida** Pers.—moss like. Rochester, Pittsford, not tested.

Family VI.—TREMELLACEÆ Fr.

Sub-family TREMELLINÆ.

TREMELLA Dill.

Tremo. to tremble.

284. **Tremella mycetophila** Pk. Bushnells Basin. Parasitic on *Collybia dryophila*; edible. It is sometimes so heavy as to weigh the caps to the ground.
285. **T. luciformis** Berk. Monroe Co., not tested.

TREMELLODON Pers.

Tremo. to tremble.

- 286.
- Tremellodon gelatinosum**
- Pers.—jelly. Monroe Co., edible.

Sub-class.—Ascomycetes.

Cohort Discomycetes *Gr.*—a sac; *Gr.*—a fungus.

Family Helvellaceæ.

HELVELLA Linn.

- 287.
- Helvella crispa**
- Fr.—curled. Bushnells Basin, edible.

LEOTIA Hill.

- 288.
- Leotia lubrica**
- Pers.—slippery. Bushnells Basin, edible.

MORCHELLA Dill.

Gr.—a mushroom.

- 289.
- Morchella conica**
- Pers. (Pk. 1895). Pittsford, Bushnells Basin, edible.

- 290.
- M. esculenta**
- Pers. Pittsford, Bushnells Basin, edible. Sold in stores of some of the Western states.

- 291.
- M. deliciosa**
- Fr. Pittsford, edible.

- 292.
- M. semilibera**
- DC.—half free from the stem. Bushnells Basin, edible.

GYROMITRA Fr.

- 293.
- Gyromitra esculenta**
- Fr. Rochester. Edible for some, unwholesome for others; use with caution.

- 294.
- G. brunnea**
- Underwood.—
- brunneus*
- , brown. Pittsford, edible.

SPATHULARIA Pers.

A Spatula.

- 295.
- Spathularia clavata**
- (Schaeff.) Sacc.—club shaped. Bushnells Basin, Adirondack Mts., edible.

GEOGLOSSUM Pers.

(Emended)

- 296.
- Geoglossum glutinosum**
- Pers. Rochester, edible.

Family.—PEZIZÆ.

PEZIZA Linn.

- 297.
- Peziza badia**
- Pers.—bay or brown. Rochester, Pittsford, edible.

- 298.
- P. aurantia**
- Pers.—orange-colored. Rochester, Pittsford, edible.

299. **P. coccinea** Jacq.—scarlet. On fallen branches in woods, Pittsford, edible. A bright scarlet mushroom coming with the early wild flowers and looking much like one.
300. **P. sp.** A species found by the writer in woods, Pittsford, growing in clusters with stem long and pileus two inches across of a beautiful orange color on top and white underneath. This was sent to Dr. Peck but he could not identify it and no more having since been found it remains unnamed.
301. **P. unieisa** Pk.—implying one incision. A single plant found by the writer in the Catskill mountains. About four inches high of a yellow color tinged with pink and split down one side. I afterwards found one in Mendon. Edible.

URNULA Fr.

Gr.—burned.

302. **Urnula craterium** (Schw.) Fr.—a small crater. Pittsford, Sullivan. This is a very remarkable plant of the shape and size of an old fashioned wine-glass. Pileus dull black inside, ash white outside. Found but twice by the writer.

BULGARIA Fr.

Found first in Bulgaria.

303. **Bulgaria inquinans** Pers.—befouling or polluting; so called because of the blackish gelatinous coating of the pileus. This is a small cup-shaped fungus black inside and dark brown or chocolate colored outside. Pittsford, not very common. Not tested.

Cohort.—Pyrenomycetes.

Family.—Hypocreaceæ.

HYPOMYCES Fr.

Gr.—under; Gr.—fungus.

304. **Hypomyces lactilorum** (Schw.) Tulasne.—*lac*, milk; *fluorum*, flowing. This is a remarkable parasite on *Lactarius piperatus*, changing that mushroom from white to orange scarlet color, removing the gills, adding to the weight and from being a second rate mushroom making it one of the best.
305. **H. purpureus** Pk. Bushnells Basin, edible.
306. **H. lateritius** Pk. Parasitic on *Lactarius indigo*. Bushnells Basin, rare, edible.
307. **H. hyalinus** (Schw.) Tul. Monroe Co., not tested.

PECKIELLA Sacc.

- 308.
- P. Banningiae**
- (Peck) Sacc. Bushnells Basin, rare, not tested.

Sub-class BASIDIOMYCETES.

Cohort GASTROMYCETES.—*Gr.*—gasteron, a sac.

Family I.—PHALLOIDEÆ.

PHALLUS Mich.

- 309.
- Phallus Ravenelii**
- B. and C. Rochester, Pittsford, edible when in the egg state. Has a very bad odor when full grown.

MUTINUS Fr.

- 310.
- Mutinus caninus**
- Fr. (
- Phallus caninus*
- Berk.;
- P. inodorus*
- Sow.) Rochester, Pittsford, edible in the egg state.

Family II.—LYCOPERDACEÆ.

GEASTER Mich.

Gr.—the earth; *Gr.*—a star.

- 311.
- Geaster hygrometricus**
- Pers. Pittsford, edible when young. This fungus is known as being a natural barometer, spreading its stellate covering on the ground when moisture is in the air, and closing it around its puffy body when humidity is absent.

TYLOSTOMA Pers.

Gr.—a knob.

- 312.
- Tylostoma myenianum**
- Kl. Rochester, Pittsford, edible. This species is noted for having the entire peridium mounted on the apex of the stem.

CALVATIA Fr.

- 313.
- Calvatia gigantea**
- Batsch. (
- Lycoperdon bovista*
- Linn;
- L. maximum*
- Schaeff;
- L. giganteum*
- Batsch.) Rochester, Pittsford, edible. One weighing 58 lbs. was found in Rochester a few years ago.

- 314.
- C. cyathiformis**
- Bosc.—cup shaped. Pastures, orchards, Pittsford, Bushnells Basin, common, edible.

LYCOPERDON Tourn.

- 315.
- Lycoperdon Frostii**
- Pk. Woods, Pittsford, edible. This fungus reminds one of a chestnut burr when ripe and brown, edible.
-
- 316.
- L. pyriforme**
- Schaeff.—pear formed. Pittsford, Adirondack Mts., edible.

317. **L. pedicellatum** Pk.—*pediculus*, a little foot. Bushnells Basin, edible.
318. **L. gemmatum** Batsch.—gemmed. Rochester, edible.

Family III.—SCLERODERMACEÆ.

SCLERODERMA Pers.

Scleros, hard; *dermos*, skin.

319. **Scleroderma vulgare** Fr.—*vulgaris*, common. Common everywhere, edible when young and white.



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