This paper is an effort to record in a more or less systematic fashion, the flora of the Kleinstuck Reserve. Observations were first made during the summer of 1930. In the summer of 1931 the work was continued but owing to the extreme dryness of the season, results were not at all gratifying and work was discontinued until the following spring, 1932, when an abundance of rainfall made conditions more favorable. During the latter part of May and through June the reserve was visited about once a week. The earlier data was corrected and enlarged and the names and locations of new species added. The list is not in any way complete in its present condition, but it is hoped that it will serve as a beginning to which other names may be added as new varieties are discovered or planted, and that in the future, when the Kleinstuck Reserve has been improved to meet the expectations of those in charge, this material may prove valuable for comparison.

The Kleinstuck Reserve is a tract of woodland and grassland lying southwest of the city about one mile from the Western State Teachers College Campus. In 1922 it was deeded to the State Board of Education by Mrs. Caroline G. Kleinstuck, to be used as a wildlife preserve. It is under the supervision of Western State Teachers College but may be used by any educational institution of this locality.

In area, it consists of a square section of forty acres the
northern boundary of which lies parallel to but a little south of Cherry Street. It extends from a few feet east of Stearn's Avenue west to a little beyond Brentwood Street. Attached to this along the west boundary and extending on beyond the south line, is a rectangular strip of eight acres, making the entire tract forty-eight acres.

The general surface varies greatly: In the center of the forty-acre tract is a small pond surrounded by a much larger area of bog and marsh. North of this, and just to the right of the gate, which is at the end of Stearn's Avenue, is a dry, rough, open field where a great number of pine trees have been planted by the students of Western State Teachers College under the direction of the Biology Department. Toward the west the field develops into a high, rolling grassy wood. The trees are mostly oak (Quercus Rubra) (Quercus velutina) and hickory (Carya ovata) with sassafras (Sassafras variifolium) and staghorn sumach (Rhus typhina) in the more open places.

West of the pond or swale, the ground is rather low to the line fence, but to the south in the eight-acre section, there are hills and ravines again and the soil is for the most part sandy. South of the swale, the land is low. Toward the east it rises and we find quite densely wooded slopes and a forest floor more like that of a beech-maple wood. The trees here are red maple (Acer rubrum), wild black cherry (Prunus serotina), oak (Quercus velutina) (Quercus rubra), hickory (Carya ovata), serviceberry (Amelanchier anadensis), and flowering dogwood (Cornus florida). As we cross the corner and follow
along the east line fence toward the north, we climb grassy
knolls much like those in the northwest corner but in addition
to the oak, hickory and sassafras, are many large-toothed aspen
(Populus grandidentata). Going north to the gate at Stearn's
Avenue, we pass oak, sassafras, and an abundance of staghorn
sumach.

In spite of the fact that the land surface is so varied,
there are not as many varieties of plants as one would expect
to find. At present the survey shows 67 families represented
and 296 species within these families. This number could be
much increased by continued observations.

I wish to call attention to the fact that the Viper's
Bugloss in the annotated list is not in the Reserve but the
ravine just west of the northern half of the west boundary is
blue with it, and it will be interesting to note how soon it
becomes established on the Reserve.

In July, 1931, there were approximately sixteen plants
of the grass pink (Calopogon pulchellus) in the marsh south
and a little east of the swale. This season (July, 1932)
not one has been located.

The four specimens of common barberry (Berberis vulgaris)
mentioned, have been reduced to one small plant which is
located a little west of the road near the drive leading to the
Girls Phys. Ed. Cottage. The other three were destroyed by
order of the State Department of Agriculture since this is the
plant that harbours the wheat rust during one of its life
stages. Large quantities of salt were poured around the roots
in June and in July, the shrubs were dead.
So far as I have discovered, there is only one specimen of each of the following on the Reserve: red cedar (Juniperus virginiana), white birch (Betula alba papyrifera) and white Mulberry (Morus alba).

I am much indebted to Dr. L. A. Kenoyer of Western State Teachers College for an examination and determination of many of the plants, particularly the sedges, grasses, goldenrods, and willows.

An annotated list follows:

ACERACEAE Maple Family

Acer rubrum L. Red or Swamp Maple. Wooded slope in southeast section. Frequent.


ALISMACEAE Water Plantain Family


ANACARDIACEAE Cashew Family

Rhus Copallina L. Dwarf Sumach. Abundant along path north of swale.

Rhus toxicodendron L. Poison Ivy. Abundant along path in damp woods south of swale and north of swale near Scout Lodge.

Rhus typhina L. Staghorn Sumach. Abundant on high ground northern part of Reserve and on extreme southwest section.

ARACEAE Arum Family

Symplocarpus foetidus L. Nutt. Skunk Cabbage. Frequent along creek south of swale.

ARALIACEAE Ginsing Family

Aralia nudicaulis L. Wild Sarsaparilla. Frequent on wooded slope south of swale and in woods southeast section of forty-acre tract.
APOCYNACEAE Dogbane Family

Apocynum androsaemifolium L. Spreading Dogbane. Abundant low ground north west of swale.
Apocynum medium L. Indian Hemp.

ASCLEPIADACEAE Milkweed Family

Asclepias incarnata L. Marsh Milkweed. Frequent on wet ground around swale. July-Aug.

BALSAMINACEAE Touch-Me-Not Family


BERBERIDACEAE Barberry Family

Podophyllum peltatum L. Mandrake or May Apple.

BETULACEAE Birch Family

Betula alba L. Paper, Canoe, or White Birch. One specimen on low round north of road south of swale.
Corylus americana Walt. Common Hazelnut. Occasional along line fence (west) of extreme southwest section.

BIGNONIACEAE Bignonia Family

Catalpa speciosa Warder. Catalpa. Dry sandy ground in south west section. Frequent. Also south of swale along path.

BORAGINACEAE Borage Family

Echium vulgare L. Blue-weed, Blue Devil, Viper's Bugloss. Abundant in ravine north of marl scoop. (Not included within the reserve.)
BORAGINACEAE Borage Family (cont.)

Occasional along north line fence also in southwest section
and on open ground northwest of Girls' Phys. Ed. Cottage. June
Lithospermum canescens Michx. Lehman. Pucoon.
Lappula virginiana L. Greene. Along path of lake.

CAMPANULACEAE Bluebell Family

Campanula aparinoides Pursh. Marsh Bellflowers. Frequent
on wet, marshy ground both south and north of swale. July
Campanula rotundifolia L. Harebell or Bluebell.
Occasional in dry grassy woods throughout reservation. July.
Specularia perfoliata Venus' Lookingglass. Rare. On
high open ground northwest of Girls' Phys. Ed. Cottage. Late
June, 1932.

CARYOPHYLLACEAE Pink Family

Arenaria stricta Michx Sandwort. Frequent on sandy slope
in south section, a little south and west of where sections
meet. June.
Saponaria officinalis L. Bouncing Bet, Soapwort. Frequent
in damp woods south of swale. July
Silene latifolia Mull. Bladder Campion. Frequent
along path northwest of swale and in woods in extreme corner
of southwest section.

CAPRIFOLIACEAE Honeysuckle Family

Lonicera oblongifolium Swamp Fly Honeysuckle. (Flowers
cream) North of path south of swale.
Lonicera tartarica L. Pink Honeysuckle. (Probably from cultivation) In woods south of Phys. Ed. Cottage along
path south of swale.
? White Honey suckle. (More like the
pink, leaves not hairy.) In thicket west of path west of swale.
Sambucus canadensis. L. Common Elder. Forms a thicket
southwest of swale. Frequent throughout Reserve.
Sambucus racemosa L. Red-berried Elder. Two specimens
Viburnum opulus sterilis. Snowball from cultivation.
In thicket southwest of swale.

CHENOPODIACEAE Goosefoot Family

Chenopodium album L. Common Pigweed or Lamb's quarter.
Waste places.

CISTACEAE Rock-Rose Family

Tradescantia reflexa L. Spiderwort. Abundant along
roads and path in north section.
COMMELINACEAE  Spiderwort Family

Tradescantia reflexa  L. Spiderwort. Abundant along roads and path in north section.

COMPOSITEAE  Composite Family

Achillea millefolium  L. Yarrow or Milfoil. Occasional throughout reserve.
Ambrosia artemisiifolia.  L. Common Ragweed. Occasional along path near marl scoop.
Antennaria plantaginifolia.  L. Plantain-leaved Everlasting. Frequent in grassy woods.
Aster sagittifolius. Aster. Damp woods southeast section.
Bidens frondosa. L. Common Bur-Marigold or Beggar Tick.
Chrysanthemum leucanthemum pinnatifidum.  L. Oxeye Daisy. Occasional high ground.
Coreopsis tripteris. L. Tall Coreopsis. Occasional, moist woods.
Erigeron philadelphicus. ?
Eupatorium perfoliatum. L. Thoroughwort or Boneset. Occasional, wet open ground.
Grindelia squarrosa. Pursh. Gum Plant. Tar Weed. Rare along path north of swale.
Helianthus divaricatus. Wild Sunflower. Rough or Woodland Sunflowers. Occasional grassy woods high ground.
Helianthus Gigantius  L. Wild Sunflower. Tall or Giant Sunflower. Wet meadow.
Hieracium pratense. Field Hawkweed. Frequent in field southwest of gate.
Hieracium (longipilum) ? Long-bearded Hawkweed. Frequent in field west of gate.
Lactuca canadensis. L. Wild or Tall Lettuce. Occasional along paths east and south of swale.
Rudbeckia hirta. L. Black-eyed Susan. Occasional along line fence and in grassy wood northwest section.
Solidago graminifolia L. Salisb. Golden-rod. Frequent in field southwest of gate.
Solidago juncea. Golden-rod. Frequent in field southwest of gate.
Solidago missouriensis. Golden-rod.
Solidago rugosa. Golden-rod.
Taraxacum officinale Weber. Common Dandelion. Occasional
Tragopogon porrifolius L. Salsify or Oyster Plant.
Occasional throughout reserve.
Tragopogon pratensis. L. Goat’s Beard Occasional

CONVOLVULACEAE. Convolvulus Family

Convolvulus arvensis. L. Field Bindweed. Occasional in woods.
Cuscuta Gronovil. Wild. Common Dodder. Frequent along stream south of swale and in ravine just as you enter southwest section.

CORNACEAE. Dogwood Family

Bonus alternifolia (?)

CRUCIFERAE Mustard Family

Lepidium virginicum. L. Wild Peppergrass. Occasional field and along paths.
Cyperaceae Sedge Family

Carex Babbii Sedge  Bobb's Sedge. Low ground
Carex cephalophora. Oval-headed Sedge. Occasional dry
fields.
Carex comosa. Bristly Sedge. Frequent on marsh south-
west of swale.
Carex festucacea. Fescue Sedge.
Carex flava. Yellow Sedge. Occasional low ground around
swale.
Carex lurida. Wahlenb. Sallow Sedge.
Carex mirabilis. Straw Sedge.
Carex Muhlenbergii Muhlenberg's Sedge. Occasional dry field.
Carex retrorsa Retrorse Sedge.
Carex pennsylvanica Lam. Early Sedge. Frequent on
wooded slope north of swale and on wooded knoll of southeast
section. Late April and early May.
Carex sparganoctides. Bur Reed. Frequent in marsh.
*Cyperus diandrus. Torr. Low Cyperus.
Cyperus filiculmis macilentus Fernald. Slender Cyperus
Scirpus atrovirens. Muhl. Dark-green Bulrush
Cyperus ferax.
*Carex vulpinoides Michx. Fox Sedge.

Dioscoreaceae (Yam f.)
Dioscorea villosa. 1962. West side near north gate. Wild Yam

Ericaceae Heath Family

Monotropa uniflora. Indian Pipe. Rare. Rich woods east
of Girls' Phys. Cottage near reast line fence.

Euphorbiaceae Spurge Family

Euphorbia corollata. L. Flowering Spurge. Abundant
in field south and west of north gate.

Equisetaceae Horsetail Family

Equisetum arvense. L. Common Horsetail. Common on
damp ground south of swale along sandy path.
Equisetum hyemale. L. Scouring rush. Common on dry
ground near north gate.

Fagaceae Beech Family

Fagus grandifolia. American Beech. Rare. Small tree
on north slope south of swale.
Quercus rubra  L. Red Oak. Frequent on high ground
throughout reserve.
Quercus alba.  L. White Oak. Occasional
FAGACEAE Beech Family (cont.)

Quercus palustris. Muench. Pin Oak. Occasional on high ground throughout reserve. Quercus velutina Lam. Black Oak or Yellow-barked Oak. Frequent on high ground in northwest section and in southeast section.

GERANIACEAE Geranium Family


GROSSULARIACEAE Gooseberry Family

Ribes cynosbati L. Wild Gooseberry. Occasional in woods on south east section. Ribes floridum L'Her Wild Black Currant. Frequent in alluvial thickets south and west of swale.

GRAMINEAE Grass Family

HYPERICACEAE St. John's Wort Family

Hypericum perforatum L. Common St. John's Wort. Frequent in woods and open field.
Hypericum virginicum L. Marsh St. John's Wort. Occasional in low ground around swale.

IRIDACEAE Iris Family

Iris versicolor L. Large Blue Flag. South of swale along creek. Occasional

JUGLANDACEAE Walnut Family

Carya cordiformis, Bitter Nut or Swamp Hickory
Carya laciniosa Michx. Shellbark Hickory. Frequent on high ground of northwest section and southeast section.

JUNACEAE Rush Family

Juncus acuminatus Sharp-fruited Rush.
Luzula composita multiflora Common Wood Rush. Occasional in woods of southeast section.
Boehmoria cylindrica False Nettle. Occasional along path south of swale.
Lamium amplexicaule L. Dead Nettle.

LABIATAE Mint Family

Mentha arvensis Mint. Frequent in marsh both north and south of swale.
Monarda fistulosa L. Wild Bergomont. Occasional on high ground northwest section
Monarda punctata Horsemint. Occasional on hillsides and in field north section.
Nepeta cataria L. Catnip. Occasional in woods and along path south of swale.

LAURACEAE Laural Family

Benzoin aestivale L. Spice Bush
Sassafras verifolium Sassafras. Abundant throughout reserve
LEGUMINOSAE  Pulse Family

Desmodium paniculatum.  Tick Trefoil.  Frequent on top of hill north of swale.
Medicago sativa.  L.  Alfalfa.  Occasional in field west of gate.
Mellotus alba.  White Sweet Clover.  Occasional along east line fence.
Trifolium agrarium.  Hop Clover.  Occasional in open woods of northwest section.
Trifolium pratense.  L.  Red Clover
Phaseolus polystachus  L.  Wild Bean.  Occasional on high ground of southeast section.

LEMNACEAE  Duckweed Family

Lemna Minor.  L.  Lesser Duckweed.

LILIACEAE  Lily Family

Asparagus officinalis  L.  Garden Asparagus.  Occasional along paths and line fences.
Polygonatum biflorum.  Solomon’s Seal (Smaller)  Occasional in woods of southeast section.
Smilacina racemosa.  False Spikenard?
Smilax herbacea.  L.  Carrion Flower.  Occasional on high ground throughout reserve.
Smilax rotundifolia.  Greenbrier.  Occasional in dry grassy woods throughout reserve.
NYMPHAEACEAE Water Lily Family

Nymphaea advena Ait. Yellow Pond Lily or Cow Lily. Occasional in pond.

ONAGRACEAE Evening Primrose Family

Circaea lutetiana L. Enchanter's Nightshade. Occasional on wooded slope south of swale.

OPHIOGLOSSACEAE Adder's Tongue Family


ORCHIDACEAE Orchis Family

Calopogon pulchellus Sw. R. Br. Grass Pink. Occasional on low ground south of swale.

OSMUNDACEAE Flowering Fern Family

Osmunda regalis L. Royal Fern. Occasional in damp shaded thicket southeast of swale.

OXALIDACEAE Wood Sorrel Family

Oxalis stricta L. Wood Sorrel. Occasional throughout

PHYTOLACCACEAE Poke Weed Family

Phytolacca decandra Common Pokeweed or Socke. Frequent on damp ground north of path south of swale.

PLANTAGINACEAE Plantain Family

Plantago Rugelii. Rugel’s Broadleaved Plantain. Occasional along path south and east of swale.
PINACEAE Pine Family

Pinus banksiana Jack Pine. Scrub Pine. Planted

Pinus resinosa. Norway Pine. "

Pinus strobus White Pine

Juniperus virginiana, L. Red Juniper. Red Cedar.
One specimen on low ground south of swale.

POLEMONIACEAE Polemonium Family

Phlox maculata. L. Wild Sweet William. Occasional on
northeast slope at extreme southwest corner of reserve.

POLYGALACEAE Milkwort Family

Polygala Senega Senica Snakeroot.

POLYGONACEAE Buckwheat Family

Polygonum hydropiperoides. Michx. Smartweed or Water
Pepper. Occasional on damp ground along creek in southwest section.

Rumex acetosella. L. Field Sorrel. Sheep Sorrel.
Abundant in field west of gate.

Rumex Britannica. L. Great Water Dock. Wet marsh north
of swale.

Rumex crispus. L. Yellow or Curled Dock.

Rumex obtusifolius. L. Broad-leaved Dock. Occasional
along ditch south of road.


POLYPodiACEAE Fern Family

Adiantum pedatum L. Maidenhair Fern. Occasional in woods

Aspidium thalpyteris. L. Marsh Shield Fern. Very
abundant on marshy ground around swale.

Onoclea sensibilis L. Sensitive Fern. Occasional on
damp ground around swale.

Pteris aquilina L. Common Brake or Bracken. Abundant
on wooded hills throughout reserve.

PRIMULACEAE Primrose Family

Lysimachia nummularia. L. Moneywort. Frequent on moist
shady ground of southwest section.

Steironema ciliatum L. Raf. Fringed Loose Strife.

RANUNCULACEAE  Crowfoot Family

Anemone virginiana  L.  Thimble Weed.  Occasional on wooded slope throughout reserve.
Caltha palustris.  L.  Marsh Marigold.  Occasional on low ground south of swale and along creek southwest of swale.
Ranunculus sceleratus.  L.  Cursed Crowfoot.
Thalictrum dioicum.  L.  Early Meadow Rue.  Occasional on wooded slopes south and east of swale.

RHAMNACEAE  Buckthorn Family

Ceanothus americanus.  L.  New Jersey Tea.  Abundant on high ground and open grassy woods throughout reserve.
Rhamnus frangula.  L.  Buckthorn.  Occasional on low ground south of swale.

RUBIACEAE  Madder Family

Galium lanceolatum.  Bedstraw.

ROSACEAE  Rose Family

Crataegus  Thornapple (2 kinds) Occasional on dry hills of southeast section and in extreme southwest section.
Geum virginianum.  Ait.  White Avens.
Occasional along north line fence.
Potentilla argentea.  L.  Siery cinquefoil.  Occasional in open field west of gate.
Potentilla fruticosa. L. Shrubby Cinquefoil. Abundant on wet open ground south of swale.
Potentilla monspeliensis. L. Rough Cinquefoil. Frequent in open field west of gate.
Occasional in marsh south of swale.
Potentilla recta. L. Erect Cinquefoil. Rough-fruiting Cinquefoil. Abundant on dry field west of gate.
Prunus persica. L. Stoke. Peach from cultivation.
Along north line fence.
Prunus serotina. Wild Black Cherry. Frequent in woods on high ground throughout reserve.
Prunus virginiana. Choke Cherry. Occasional throughout reserve.
Rosa humilis or virginiana. Wild Rose. Pasture Rose. Frequent in woods and along line fence.
Rubus hispidus. L. Swamp Blackberry.
Rubus occidentalis. L. Black Raspberry.
Rubus villosus. Ait. Dewberry. Abundant in open field west of gate and in dry open woods of north section.
Spiraea salicifolia. L. White Meadowsweet. Abundant along north border of marsh.
Pyrus malus Apple from cultivation. Occasional throughout reserve.
Pyrus coronita Crab Apple. North of path south of swale.

SALICACEAE Willow Family

Salix Bobbiana Sarg. Willow. Low clump south of swale in marsh.
Salix discolor. Willow Clump south of swale.
Salix fragilis. L. Crack Willow.
Salix humilis. Willow Clumpin southeast corner of extreme southwest section.
Salix petiolaris. Willow.
Salix sericea (probably)
SANDALACEAE Sandalwood Family


SAXIFRAGACEAE Saxifrage Family

Saxifrage pennsylvania. L. Swamp Saxifrage. Occasional on low ground south west of pond.
Heuchera hispida (Pursh) Alum Root. Occasional on northeast slope of south section in extreme southwest corner.

SCROPHULARIACEAE Figwort Family

Mimulus ringens. L. Square-stemmed Monkey Flower. Frequent in marsh north of pond.
Pedicularis canadensis. L. Lousewort or Wood Betony. Rare. Under sandy bank east of stream in southwest section.
Flowers maroon. XXX May 18
Scrophularia leporella Haro Figwort. Occasional along ditch south of road.
Verbascum blattaria. L. Moth Mullein.
Verbascum thapsus. L. Common Mullein. Occasional on dry field west of gate.
Veronica peregrina. L. Neckweed or Purslane Speedwell.

SOLANACEAE Nightshade Family

Physalis heterophylla. Clamy Ground Cherry. Occasional throughout reserve.
Physalis pruinosa. L. Strawberry Tomato. Frequent on north slope north of swamp.

TYPHACEAE Cattail Family


UMBELLIFERAE Parsley Family

UMBELLIFERAE  Parsley Family  (cont.)

Heracleum lanatum.  Cow Parsnip.  Occasional along creek south west of swale.
Frequent along sandy path south of swale.
Sanicula marilandica.  Sanicula.  Black Snakeroot
Tenidita integrarea  (sp.)  Wild Parsnip.

URTICACEAE  Nettle Family


VIOLACEAE  Violet Family

Viola cucullata.  Marsh Blue Violet.  Occasional damp low ground west of swale and in shady woods south east of swale.

VERBENACEAE  Vervain Family


VITACEAE  Vine Family

Vitis vulpina.  L.  River-bank Grape.  Frequent along side hill north of swale.
Parthenocissus quenquesfolia.  Virginia Creeper.  Occasional in woods south east section.
Vitis
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