

G. E. TOWER



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THESIS
Trees and Shrubs
of the
M. A. C. Campus
G. E. Tower.
1901

Trees - Michigan
Shrubs - Michigan

Botany

1888-1889.

A REPORT

BY

1
JAMES A. HARRIS

OF THE

2
HARRIS AGRICULTURAL COLLEGE

CAMPUS.

H. W. HARRIS

1888.

T H E S I S .

A S T U D Y
O F
T R E E S A N D S H R U B S
O F T H E
M I C H I G A N A G R I C U L T U R A L C O L L E G E
C A M P U S .

B Y
Gordon Edwin
G. E. T o w e r .

1 9 0 1 .

P R E F A C E .

The work for this thesis was done in the spring term, 1900. As far as possible the time of leafing and flowering of the trees on the Campus was ascertained, some attention being given to the shrubs as well. The work was undertaken with the object in view of becoming familiar with the different kinds of trees, their characteristics of growth, foliage, etc.

In the location, no attempt was made to give the position of every individual tree of the same kind, but only those on which observations had been made.

The arrangement of the orders is in accordance with Engler and Prantl. In the use of botanical names Bailey's Cyclopedia of American Horticulture and Sargent's Silva of North America were taken as authority. The names from A-Q are according to the naming as given in Bailey's Cyclopedia. The remainder are according to Sargent. The intention was to have followed Bailey exclusively, but delay in getting out the last volumes of the Cyclopedia would not allow of this, so Sargent's Silva of North America was consulted.

Coniferae.		Leav- ed.	Flower- ed.	
Abies balsamea, Mill.	Common Fir.	May 12	- - -	N.W. Union Literary Bldg.
Ginkgo biloba, Linn.	Ginkgo Tree.	May 13	- - -	N.W. College Hall.
Juniperus Virgin- iana, Linn.	Red Cedar, Savin.	- - -	(May 1) (Apr.27)	West Res. 1, on River Bank.
Larix Americana, Michx.	Tamarack, American Larch.	Apr.22	Apr.29	N.W.College Hall.
L. decidua, Mill.	European Larch.	Apr.22	May 3	N. Res.1, Arboretum.
Picea excelsa, Link.	Norway Spruce.	May 13	- - -	N. St. Rail- way Depot.
Pinus Laricio Aus- triaca, Endl.	Austrian Pine.	- - -	May 25	West Wells' Hall.
P. Cembra, Linn.	Cembrian Pine.	June 4	- - -	N.W.College Hall.
P. resinosa, Ait.	Norway Pine.	- - -	May 25	NorthUnion Literary Bldg.
P. Strobus, Linn.	White Pine.	June 2	- - -	East Res.7.
Taxodium distichum, Richard.	American Bald Cypress.	May 9	- - -	N.W.College Hall.
Tsuga Canadensis, Carriere.	Hemlock.	Apr.27	- - -	South Howard Terrace, West Res.4.

Salicaceae.		Leav- ed.	Flower- ed.	
Populus alba, Linn.	White Poplar.	May 5	Apr.27	East Chem.Lab.
P. balsamifera candicans, Gray.	Balm of Gilead.	Apr.30	Apr.23	Taft's Border.
P. grandidentata, Michx.	Large Toothed Aspen.	- - -	(Apr.10 Apr.15	River Bank, South Res.1.
P. nigra-Italica, Du Roi.	Lombardy Poplar.	Apr.30	Apr.23	North Res.10.
P. tremoloides, Michx.	American Aspen.	May 7	Apr.18	East end River Drive, Near Ice House.
Salix alba, Linn.	White Willow.	Apr.28	- - -	Foot Bridge East Abbot Hall.
S. amygaloides, Anders.	Peach or Almond Willow.	Apr.29	- - -	South Botanic Garden.
S. Babylonica, Linn.	Weeping Willow.	Apr.22	Apr.26	Taft's Border.
S. Babylonica annularis, Hort.	Hoop Willow.	Apr. 30	- - -	- - - -
S. Bebbiana, Sarg.	- - - - -	- - - -	Apr.29	South Botanic Garden.
S. candida, Willd.	Sage or Hoary Willow.	Apr.30	Apr.30	- - - - -
S. cordata, Muhl.	Heart Leaved Willow.	Apr.29	- - -	South Botanic Garden.
S. discolor,	Glaucous Willow.	- - -	Apr.30	South Botanic Garden.

		Leav- ed.	Flower- ed.	
<i>Salix fragilis</i> , Linn.	Brittle Willow.	- - - - -		South Lower Bridge of Brook.
<i>S. glaucophylla</i> , Bebb.	- - - - -	Apr.29	- - - - -	
<i>S. humulis</i> , Marsh.	Prairie Willow.	- - -	Apr.29	South Botanic Garden.
<i>S. lucida</i> , Muhl.	(American Bay Willow. (Shining Willow.	Apr.30	- - - - -	
<i>S. purpurea</i> , Linn.	Purple Willow.	Apr.25	Apr.25	Lower Bridge of Brook.
<i>S. sericea</i> , Marsh.	Silky Willow.	Apr.29	- - - - -	

Juglandaceae.

<i>Juglans cinerea</i> , Linn.	Butternut.	May 10	- - -	River Bank.
<i>J. nigra</i> , Linn.	Black Walnut.	May 12	May 12	South Botanic Garden.

Cupuliferae.

# <i>Alnus glutinosa</i> , Gaertn.	Common or Black Alder.	Apr.24	Apr.18	Botanic Garden.
<i>A. glutinosa</i> <i>lacinata</i> , Willd.	Cut-leaved Alder.	Apr.26	Apr.19	S.W.Chem.Lab.
<i>A. rubra</i> , Bong.	Oregon Alder.	Apr.29	Apr.24	Taft's Border.
<i>A. rugosa</i> , Sprang.	Smooth Alder.	May 1	- - -	S.W.Parade Grounds, South Drive.
# cut Fall 1900.				

		Leav- ed.	Flower- ed.	
Betula alba pendu- la laciniata, Hort.	- - - - -	Apr.26	- - -	South Station Terrace.
B. alba Japonica, Miq.	Japanese Birch.	Apr.23	- - -	West Taft's Lake.
B. lenta, Linn.	Cherry, Sweet or Black Birch.	May 1	- - -	Taft's Border, Arboretum.
B. papyrifera, Marsh.	Cance, Paper or White Birch.	May 7	May 4	S.W.Chem.Lab.
# B. populifolia, Ait.	American White or Gray Birch.	May 1	- - -	West Parade Ground.
Carpinus Carolin- iana, Walt.	Blue or Water Beech.	(Apr.23) (Apr.29)	- - -	S.W. Res.1, On River Bank.
Corylus Americana, Walt.	American Hazel- nut.	Apr.30	- - -	S.W. Parade Ground.
Fagus ferruginea, Ait.	American Beech.	May 6	- - -	South Hospital.
Hicoria minima, Britt.	Swamp or Bitter- nut Hickory.	Apr.30	- - -	S.W. Res.3.
H. ovata, Britt.	Shagbark Hickory.	May 11	May 23	Deer Park.
Ostrya Virginica, Willd.	Iron Wood, Lev- er Wood.	Apr.29	Apr.23	N.W.Chem.Lab.
Quercus acuminata, Sarg.	Yellow Oak.	May 6	- - -	North Taft's Border.
Q. alba,	White Oak.	(Apr.30 (Uplands, (May 12	May 7 Uplands, May 25)	River Flats and Uplands.
# Cut Fall 1900				

		Leav- ed.	Flower- ed.	
<i>Quercus Catesbaei</i> , Michx.	Turkey Oak.	May 15	- - -	North Taft's Border.
<i>Q. coccinea</i> , Muench.	Scarlet Oak.	May 1	Catkins, May 2	N.E. Williams' Hall.
<i>Q. macrocarpa</i> , Michx.	Burr Oak.	May 7	- - -	Near Mouth Brook.
<i>Q. Marilandica</i> , Muench.	Black-Jack or Barren Oak.	May 2	Catkins, May 3	River Bank, S.W. of Athle- tic Field.
<i>Q. minor</i> , Sarg.	Post, Rough or Iron Oak.	May 15	- - -	North Taft's Border.
<i>Q. nana</i> , Sarg.	Bear or Black Scrub Oak.	May 14	May 9	North Taft's Border.
<i>Q. palustris</i> , Muench.	Swamp, Spanish or Pin Oak.	May 6	- - -	North Taft's
<i>Q. platanoidea</i> , Sudworth.	Swamp White Oak.	Apr. 30	- - -	East Women's Bldg.
<i>Q. prinus</i> , Linn.	Chestnut Oak.	May 7	- - -	North Taft's Border, east Bank Botanic Garden.
<i>Q. rubra</i> , Linn.	Red Oak.	May 1	- - -	West Chem. Lab.

		Leav- ed.	Flower- ed.	
Utricaceae.				
Celsit occidentalis, Linn.	Nettle Tree, Hackberry.	May 9	May 15	S.W.Botanic Garden, West Greenhouse.
Ulmus Americana, Linn.	American White or Water Elm.	May 2	Apr.15	South Botanic Garden.
U. campestris, Linn.	European Elm.	- - -	Apr.24	South Res.2.
U. fulva, Michx.	Slippery, Red or Moose Elm.	May 7	Apr.21	Corner River and Main Drive, East Women's Bldg.
U. racemosa, Thomas.	Cork Elm.	May 2	Apr.28	East Union Literary Bldg.
Magnoliaceae.				
Liriodendron tulipifera, Linn.	White Wood, Tulip Tree.	Apr.27	May 28	Northeast and West Williams' Hall, West College Hall.
Magnolia acuminata, Linn.	Cucumber Tree.	May 12	- - -	East Chem.Lab.
M. Soulangaena, - - - - -	- - - - -	May 12	May 1	Taft's Border.
Lauraceae.				
Sassafras sassafras, Karsten.	Sassafras.	May 13	May 11	East Dean's Res. S.W. Sta.Terrace.

Leav- Flower-
ed. ed.

Hamalelidaceae.

Hamamelis Virgin- iana, Linn.	Witch Hazel.	May 11	- - -	River Bank; South Res.1.
Liquidambar styraciflua, Linn.	Sweet Gum Tree.	May 14	- - -	Taft's Border.

Platanaceae.

Platanus occidental- is, Linn.	Buttonwood.	May 11	- - -	West Parade Ground, and Along River.
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Rosaceae.

Amelanchier Canaden- sis, Medic.	Shad Bush, Service Berry.	- - -	May 29	West Parade Ground, and North Bank of Botanic Garden.
Crataegus tomentosa, Linn.	Black Thorn.	May 16	- - -	Botanic Garden.
Prunus Pennsylvania, Linn.	Wild Red, or Pin Cherry.	May 1	- - -	North Women's Bldg.
P. serotina, Ehrh.	Wild Black Cherry.	Apr.25	- - -	East Chem.Lab.
# Pyrus Americana, D.C.	American Mountain Ash.	Apr.27	- - -	Botanic Garden.

Not according to Bailey.

		Leav- ed.	Flower- ed.	
Leguminosae.				
Caragana arbores- cens, Lam.	Siberian Pea Tree.	Apr.30	- - -	S.W. and Near College Hall.
Cercis Canadensis, Linn.	Red Bud, or Judas Tree.	May 23	May 12	3rd Row on East Side Arboretum.
Cladrastris tinct- oria, Raf.	Yellow Wood.	May 1	- - -	North Union Literary Bldg
Gym ⁿ ocladus Cana- densis, Lam.	Kentucky Cof- fee Tree.	May 1	- - -	West End River Drive.
Robinia pseudacacia, Linn.	Common Locust.	May 12	- - -	S.W.Library.
Sapindaceae.				
Acer Ginnala, Max.	- - - - -	Apr.27	- - -	Taft's Border.
A. Negundo, Linn.	Box-Alder,Ash- leaved Maple.	- - -	Apr.23	South Library.
A. nigrum, Michx.	Black Sugar Maple.	- - -	Apr.27	South Res.5, North Mech. Lab.
A. Pennsylvani- cum, Linn.	Striped Maple.	- - -	May 12	East Side Arboretum.
A. platanoides, Linn.	Norway Maple.	Apr.28	Apr.27	East Chem.Lab.
A. Pseudo- platanus, Linn.	Sycamore Maple.	Apr.30	May 9	West Mech. Lab.,South Res.2.
A. rubrum, Linn.	Red,Swamp or Scarlet Maple	(Apr.26 May 1	Apr.21	River Bank South Res.1, S.W.Cor.Res.4.

		Leav- ed	Flower- ed.	
<i>Acer saccharinum</i> , Linn.	Soft or Silver Maple.	Apr.27	Apr.6	River Flats.
<i>A. saccharum</i> , Marsh.	Rock or Sugar Maple.	May 8	Apr.30	North Mech.Lab.
<i>A. spicatum</i> , Lam.	Mt. Maple.	Apr.27	- - -	East Side of Arboretum.
<i>A. Tataricum</i> , Linn.	Tartarian Maple.	Apr.25	- - -	Taft's Border.
<i>Aesculus glabra</i> , Willd.	Ohio Buckeye.	Apr.25	- - -	S.W.Parade Ground, South of drive.
<i>A. Hippocastanum</i> , Linn.	Common Horse Chestnut.	Apr.29	May 16	S.W.Parade Ground, South of Drive.
<i>A. octandra</i> , Marsh.	Sweet, Yellow or Big Buckeye.	Apr.26	- - -	S.W.Parade Ground south of Drive.
<i>Staphylea trifolia</i> , Linn.	Bladder-nut.	May 9	May 26	S.W.Parade Ground South of Drive.

Tiliaceae.

<i>Tilia Americana</i> , Linn.	Basswood.	May 3	July 1	South Wells' Hall, N.W. Chem. Lab.
<i>T. Europea</i> , Linn.	European Bass- wood.	- - -	May 28	West Parade Ground.

Thymelaeaceae.

<i>Dirca palustris</i> , Linn.	Moose Wood, Leather Wood.	Apr.28	Apr.24	S.W.Parade Ground south of Drive.
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Elaeagnaceae.

<i>Elaeagnus angusti- folia</i> , Linn.	Russian Olive, Oleaster.	May 12	June 4	East Hort. Barn.
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		Leav- ed.	Flower- ed.	
Araliaceae.				
Aralia cordata, Thumb.	Hercules Club.	Apr.27	- - -	S.W.Parade Ground, South off Drive.
Cornaceae.				
Cornus Mas, Linn.	Cornelian Cherry.	- -	Apr.20	Taft's Border.
C. stolonifera, Michx.	Red Osier Dog- Wood.	May 16	- - -	Taft's Border.
Nyssa sylvatica, Marsh.	Pepperidge, Sour Gum Tree.	May 14	- - -	Botanic Garden.
Oleaceae.				
Chionanthus Virgin- ica, Linn.	Fringe Tree.	May 10	- - -	West Hort.Lab., north Green- house.
Forsythia viri- dissima, Lindl.	Golden Bell.	May 4	Apr.28	Taft's Border.
Fraxinus Americana, Linn.	White Ash.	May 1	May 1	River Flats, and South Williams' Hall.
F. lanceolata, Borkl.	Green Ash.	May 1	- - -	South Library.
F. nigra, Marsh.	Swamp or Black Ash.	Apr.30	Apr.26	S.W.Greenhouse.
F. Pennsylvanica, Marsh.	Red Ash.	Apr.29	- - -	Arboretum.
F. Pennsylvanica acubaefolia, Hort.	Acuba-leaved Ash.	Apr.30	- - -	Taft's Border, West Chem.Lab.

Leav- Flower-
ed. ed.

Bignoniaceae.

Catalpa Bignon- Common Catalpa. May 13 - - - Arboretum.
ioides,
Walt.

C. speciosa, Hardy Catalpa, May 13 June 17 South Library.
Warder.

Caprifoliaceae.

Sambucus Canadensis, Common Elder. Apr. 30 - - - S.W. Botanic
Linn. Garden.

