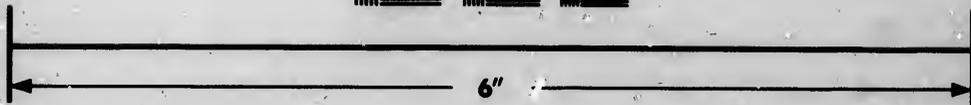
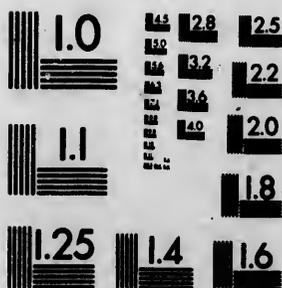


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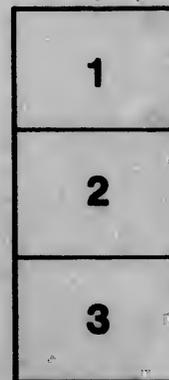
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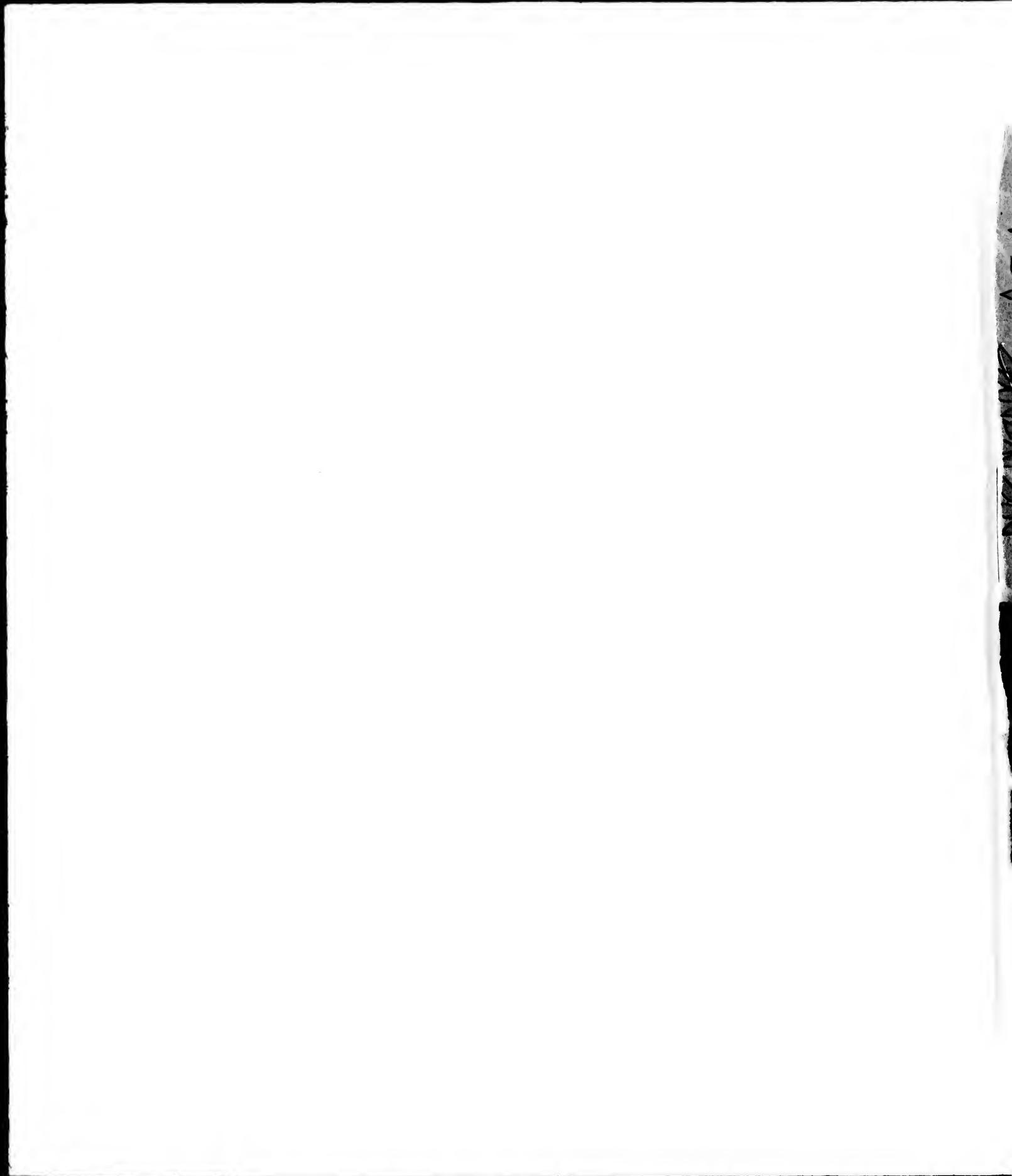
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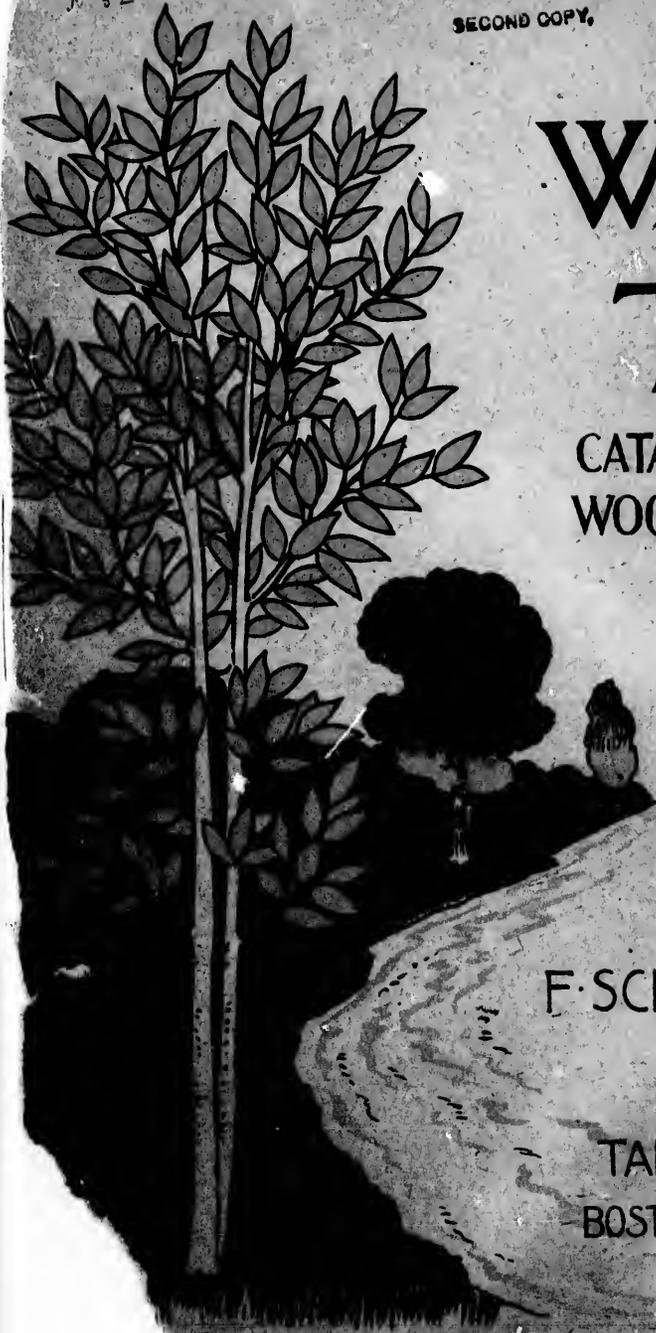
WAYSIDE TREES

CATALPA · MAPLES · YELLOW-
WOOD · AILANTHUS · LOCUST
WALNUT · ETC.

WITH LIFE
SIZE PEN AND
INK STUDIES
OF THE LEAVES
FROM NATURE
BY

F. SCHVYLER MATHEWS

TABER-PRANG ART CO
BOSTON & SPRINGFIELD, MASS.







WAYSIDE TREES



SERIES III. BEING A DESCRIPTION OF THE CAT-
ALPA, MAPLES, YELLOWWOOD, AIL-
ANTHUS, LOCUST, WALNUT, ETC.

BY F. SCHUYLER MATHEWS
ILLUSTRATED WITH PEN AND INK
DRAWINGS FROM NATURE BY THE
AUTHOR

TABER-PRANG ART CO
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INTRODUCTION

WAYSIDE TREES, SERIES III.

LEAVING the alternate-growing leaves which were exhausted in the second series we approach a large class of opposite-growing leaves, the winter buds of which have unfolded in a pair of well-balanced leaves whose systematic arrangement along the branchlets will be discerned at a glance. All the dogwoods and maples are included under this order, except one eccentric character, whose exception to the rule is so conspicuous and solitary that it has been named the alternate-leaved dogwood.

The character or method of growth among these leaves shows a fundamental difference from that of the leaves already described. The order is now as follows:—

| | | |
|------------------|---|--|
| Leaves, Simple : | | pages |
| Class 9 | { | Opposite growing 3, 5 |
| | | Without teeth |
| | | Undivided edge |
| " 10 | { | Opposite growing 7 |
| | | With teeth |
| | | Undivided edge |
| " 11 | { | Opposite growing 9, 13, 17, 19 |
| | | With teeth |
| | | Divided edge |

But the sugar maple is not distinctly toothed and must be classified thus:—

| | | |
|----------|---|-------------------------------|
| Class 12 | { | Opposite growing 11 |
| | | Undulating-toothed |
| | | Divided edge |

In order to obtain room for our big-leaved yellow-wood and ailanthus, I have found it necessary to place them in the centre of the book where they can occupy both the right and left hand pages. This caused a break in the succession of leaf-types which could not well be avoided. But with the advent of the yellow-wood we have left behind us all the simple formed leaves and face the complex or compound forms, i.e., leaves which are composed of *leaflets*.

Our order now runs as follows:—

| | | |
|--------------------|---|--|
| Leaves, Compound : | | |
| Class 13 | { | Alternate growing 14, 15, 23 |
| | | Without teeth |
| | | Leaflets bordering main leaf-stem 23, 25 |
| " 14 | { | Alternate growing 23, 25 |
| | | With teeth |
| | | Leaflets bordering main leaf-stem |

The class numbered 14, consisting mainly of the Juglandaceae family, is continued in the fourth series.

F. SCHUYLER MATHEWS.

42
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Series 3.



Alternata-leaved Dogwood.
Cornus alternifolia.

Flowering Dogwood.
Cornus florida.

Alternate-leaved Dogwood.

Cornus alternifolia.

- Family . . . CORNACEÆ, Dogwood.
Leaf . . . Parallel veined, shiny moderate yellow-green.
Fruit . . . With corallike red stems, blue-black bloom.
Bark . . . Dark ruddy brown; gray-brown branches; comparatively smooth.
Height . . . 15 ft. to 20 ft., rarely 30 ft.
Habitat . . . New England west to Minn., Alleghany Mts. to Ga. and Ala., southward through the northern States.

Character: Leaves clustered at the end of the branches.

Flowering Dogwood.

Cornus florida.

- Family . . . CORNACEÆ, Dogwood.
Leaf . . . Firm, moderate shiny green.
Fruit . . . Scarlet, about $\frac{1}{8}$ in. long. In fall buds are flat, round with point atop.
Bark . . . Dark yellow-brown, small, scaly.
Height . . . 15 ft. to 30 ft., sometimes 40 ft.
Habitat . . . Mass. west to southwest Mo., south to Fla., and valley of Brazos Riv., Texas.

Series 3.



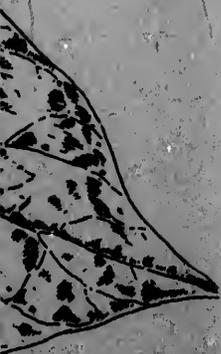
Catalpa.
Catalpa bignonioides.

Fringe Tree.
Chiocanthus virginica.



Fringe Tree.

Chionanthus virginica.



Fringe Tree.

Chionanthus virginica.

- Family . . . OLEACEÆ, Olive.
Leaf . . . Smooth, 4 in. to 8 in. long, firm,
deep green, pale beneath.
Fruit . . . Oval, dark black-blue bloom, few in
a cluster, less than 1 in. long.
Bark . . . Brown; thin scales tinged with red.
Height . . . 20 ft. to 30 ft., often a shrub.
Habitat . . . Southern Pa. to Tampa Bay, Fla.,
Gulf States to southern Ark., val-
ley of Brazos Riv., Texas.

Catalpa.

Catalpa bignonioides.

- Family . . . BIGNONIACEÆ, Bignonia.
Leaf . . . Heart-shaped, soft, light green, large,
woolly beneath.
Bean . . . Long, slender, light-brown, with
winged or fringed seeds.
Bark . . . Thick, smooth light-brown tinged
red, large thin scales.
Height . . . 40 ft. to 50 ft., rarely 60 ft.
Habitat . . . Southwestern Ga., western Fla., cen-
tral Ala. and Miss., hardy, and
cultivated throughout the North.
Common in southern New England
and New York.

Series 3.



Black Haw.
Viburnum prunifolium.

Burning Bush.
Euonymus europaeus.

Sweet Viburnum, Sheepberry.
Viburnum lentago.

Black Haw.
Viburnum prunifolium.



Burning Bush.

Eubonymus Europæus.

- Family . . . CELASTRACEÆ, Staff-tree.
 Leaf . . . Elliptical, olive-green, shiny.
 Fruit . . . Pale magenta, opening and showing
 an orange seed, suspended.
 Bark . . . Gray-brown, very small scales.
 Height . . . 15 ft. to 20 ft.
 Habitat . . . Not indigenous: from Europe. Parks
 and gardens. Our own variety,
 similar fruit, purplish-red seeds
 (*Eubonymus atropurpureus*), N. Y.
 to Neb., south to Fla., southwest to
 Ind. Territory.

Sweet Viburnum, Sheepberry.

Viburnum Lentago.

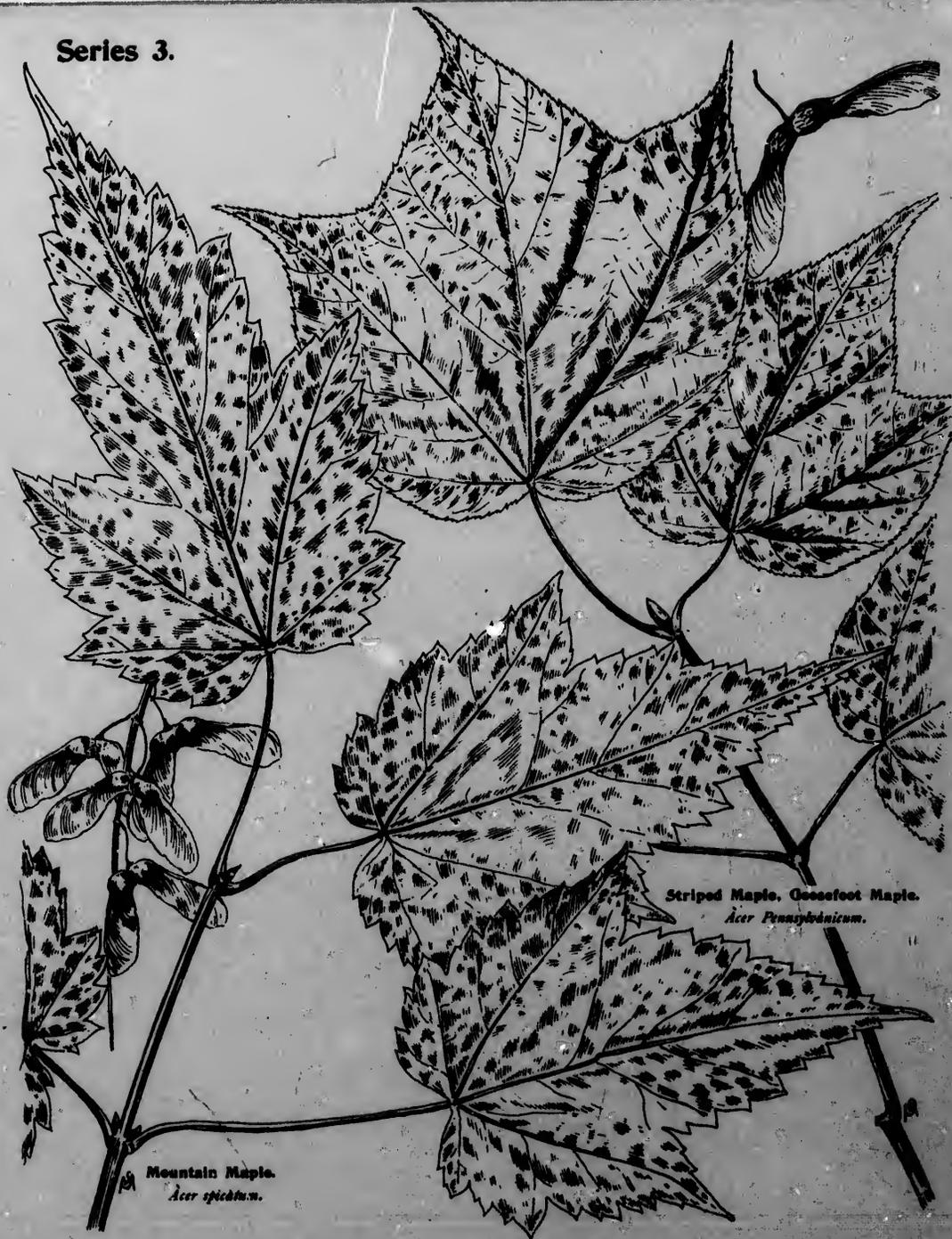
- Family . . . CAPRIFOLIACEÆ, Honeysuckle.
 Leaf . . . Deep green, shiny.
 Fruit . . . Red-stemmed, blue-black bloom; less
 than ¼ in. long.
 Bark . . . Red-brown, with small scales.
 Height . . . 15 ft. to 30 ft.
 Habitat . . . New England, southwestward through
 the northern States, along Allegha-
 ny Mts. to northern Ga., west to
 Mo. and Neb.

Black Haw.

Viburnum prunifolium.

- Family . . . CAPRIFOLIACEÆ, Honeysuckle.
 Leaf . . . Firm dark green.
 Fruit . . . Dark black-blue bloom.
 Bark . . . Ruddy brown, scaly.
 Height . . . 15 ft. to 30 ft.
 Habitat . . . Southwestern Conn., lower Hudson
 Riv. valley to Hernando Co., Fla.,
 southwest to Mo., Ark., Oklaho-
 ma and valley of Guadalupe Riv.,
 Texas.

Series 3.



Mountain Maple.
Acer spicatum.

Striped Maple, Goosefoot Maple.
Acer Pennsylvanicum.



s. Goosefoot Maple.
Acer pennsylvanicum.

Mountain Maple.

Acer spicatum

- Family . . . SAPINDACEÆ, Soapberry.
 Leaf . . . Often attenuated, usually three-lobed, soft.
 Seed . . . Small, wings nearly at right angle, in long clusters.
 Bark . . . Thin, smooth or slightly furrowed, ruddy brown.
 Height . . . 25 ft. to 30 ft.
 Habitat . . . Me. to Minn., south along Appalachian Mts. to northern Ga., a tree only on western slopes of mts. in Tenn. and N. Car.

Character: in the north usually a shrub.

Striped Maple, Goosefoot Maple.

Acer Pennsylvanicum.

- Family . . . SAPINDACEÆ, Soapberry.
 Leaf . . . Soft, large, light green, three-lobed.
 Seed . . . Widely diverging wings, large.
 Bark . . . Small trees, light green, striped with brown lines; larger, red-brown, pale stripes.
 Height . . . 25 ft. to 40 ft.
 Habitat . . . Northern N. E., N. Y. to northeastern Minn., northern States in elevated regions, south along Appalachian Mts. to northern Ga.

Series 3.



Sugar Maple. Rock Maple.
Acer saccharinum.

Black Sugar Maple.
Acer saccharinum var. *nigrum.*



Sugar Maple, Rock Maple.

Acer saccharinum.

- Family . . . SAPINDACEÆ, Soapberry.
Leaf . . . : Dull toothed, moderate yellow-green,
waxy surface.
Seed . . . Slightly diverging wings.
Bark . . . : Deeply seamed, brown-gray.
Height . . . 70 ft. to 100 ft.; sometimes 120 ft.
Habitat . . . Me. to northern Fla., west to Minn.
and eastern Neb., Kan. and Tex.

Black Sugar Maple.

Acer saccharinum var. *nigrum.*

- Family . . . SAPINDACEÆ, Soapberry.
Leaf . . . : Hardly any teeth, widely three-lobed,
the cleft at base often closed.
Seed . . . Slightly diverging wings.
Bark . . . : Black-brown, deeply seamed.
Height . . . 70 ft. to 80 ft., sometimes 100 ft.
Habitat . . . Low grounds and banks of streams,
shores of L. Champlain, Vt., west
to Ark. and Kan., southwest to
northern Ala., Mass., banks of
Genesee Riv., N. Y.

Series 3.

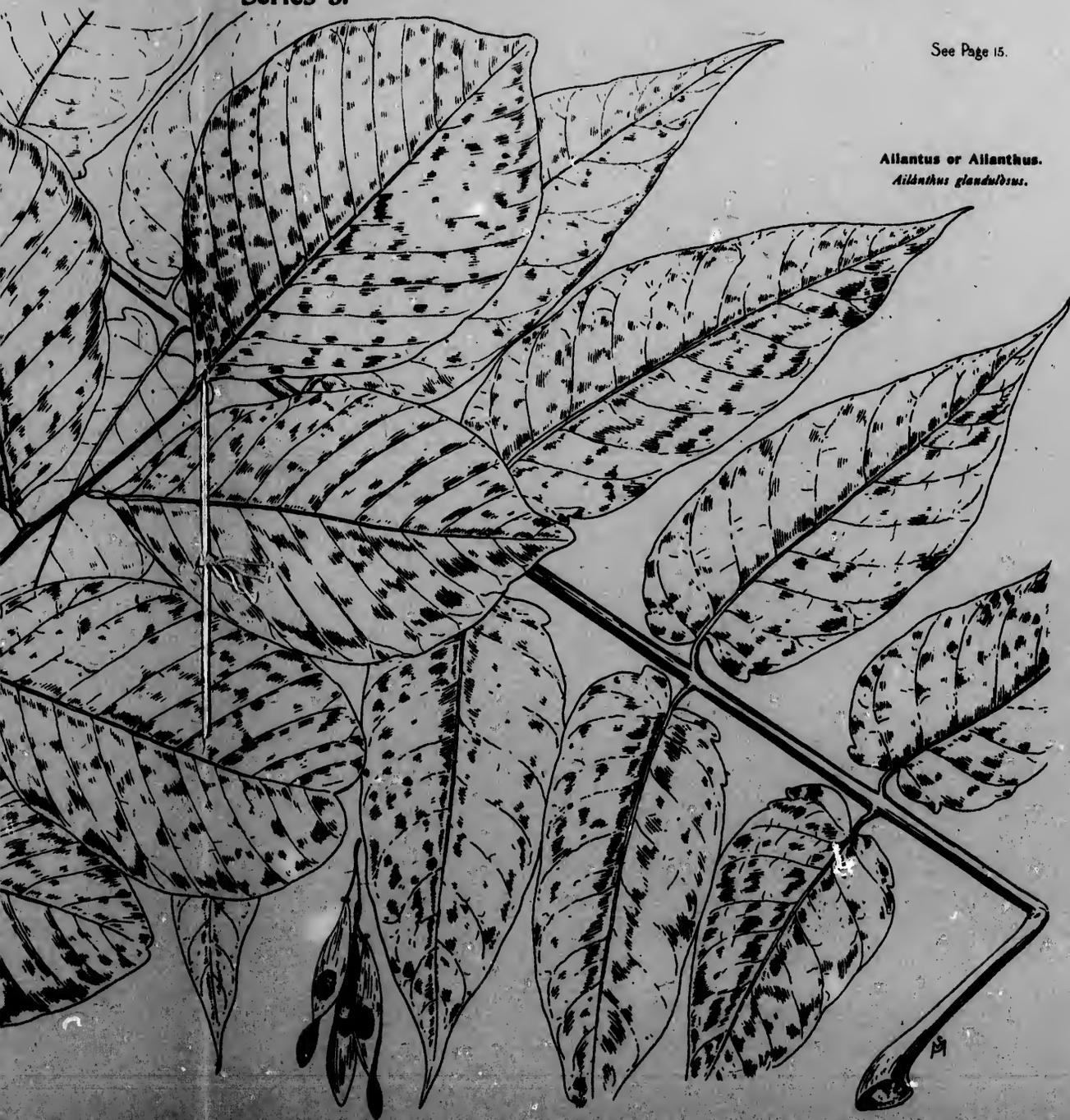


Yellowwood, Virgilia.
Cedrela florida.

Series 3.

See Page 15.

Allantus or Allanthus.
Allanthus glandulosa.



Yellowwood, Virginia.

Cladrastis tinctoria.

- Family . . . LEGUMINOSÆ, Pulse.
Leaf . . . Leaflets, 7 to 11, light olive-green.
Bean . . . Pod 3 in. or 4 in. long, shaped like
pea-pod.
Bark . . . Smooth grayish brown, or light brown.
Height . . . 50 ft. to 60 ft., sometimes 70 ft.
Habitat . . . Cliffs of the Kentucky and Dick
Rivs., in central Ky., central Tenn.,
especially near Nashville, western
slopes of high mts. in eastern
Tenn., and in Cherokee Co., N.
C., cult. from N. H. and N. J.,
southward.

Allantus or Allanthus.

Allanthus glandulosa.

- Family . . . SIMARUBACEÆ, Quassia.
Leaf . . . Leaflets 21 to 41, stem horse-hoof-shaped, two or three coarse blunt teeth at base of leaflet.
Seed . . . Large clusters, winged, at first light green or pink tinged, afterwards buff-brown.
Bark . . . On young trees smooth, brown with buff striping; on older, brown, comparatively smooth.
Height . . . 50 ft. to 70 ft.
Not indigenous: from China. City streets, parks, etc.
Character: Staminate flowers, green, ill-scented.

Series 3.



White Maple, Silver Maple.
Acer dasycarpum.



White Maple. Silver Maple.

Acer dasycarpum.

- Family . . . SAPINDACEÆ, Soapberry.
Leaf . . . Deeply five-lobed (cut-leaved varieties), waxy surface, deep green, very light beneath.
Seed . . . Large, extremely divergent wings; one wing often small.
Bark . . . Brown, furrowed, thin scales.
Height . . . 70 ft. to 90 ft., sometimes 120 ft.
Habitat . . . Me. to Fla., west to eastern Dak. and Neb., Kan., Oklahoma, valley of Mississippi River.

Series 3.



Norway Maple.
Acer platanoides.

Red Maple. Swamp Maple.
Acer rubrum.



Norway Maple.
Acer platanoides.



Red Maple, Swamp Maple.

Acer rubrum.

- Family . . . SAPINDACEÆ, Soapberry.
Leaf . . . Generally three-lobed, light green above, light whitish green beneath, turning red in autumn.
Seed . . . Slightly divergent wings, smooth, drooping stems.
Bark . . . Brown or gray-brown, roughly scamed, scaly.
Height . . . 75 ft. to 80 ft., sometimes 120 ft.
Habitat . . . Me. to Fla., west to eastern Daks., Neb., Oklahoma, and valley of Trinity River, Texas.

Norway Maple.

Acer platanoides.

Common in parks, dark green leaves, green on both sides, large seed, with extremely divergent wings; dark brown bark, moderately rough, branches almost horizontal with trunk; juice milky.
There are some cut-leaved forms.

Series 3.



Loeust.
Robinia Pseudacacia

Kentucky Coffee Tree.
Gymnocladia dioica



Locust.

Robinia Pseudacacia.

- Family . . . LEGUMINOSÆ, Pulse.
Leaf . . . Dull dark olive (bluish) green, leaflets 7 to 19, pale beneath.
Bean . . . Pod flat, about 3 in. long.
Bark . . . Dark brown, deeply furrowed, small scales.
Height . . . 60 ft. to 80 ft., sometimes 90 ft.
Habitat . . . Appalachian Mts., Marine Co., Pa., to northern Ga. In general cultivation east of the Rocky Mts. Common.

Kentucky Coffee Tree.

Gymnocladus Canadensis.

- Family . . . LEGUMINOSÆ, Pulse.
Leaf . . . Double compound, sometimes 3 ft. long, olive-green, leaflets without teeth.
Bean . . . Pod large, coarse, curved, nearly 2 in. broad, hard gray beans.
Bark . . . Dark dull brown, rough scaly, branches also scaly and rough.
Height . . . 60 ft. to 75 ft., sometimes 110 ft.
Habitat . . . Shores Cayuga, and Seneca Lakes, N. Y., Franklin Co., Pa., west through southern Mich. to valley of Minnesota Riv., to eastern Neb., eastern Kan., southwestern Ark. and Ind. Ter., south betw. Alleghany Mts. and Mississippi River to Middle Tenn.

Series 3.



Honey Locust.
Gleditsia triacanthos.

Mountain Ash.
Fyrus americana.



Mountain Ash.
Fyrus Americana.

Honey Locust.

Gleditsia triacanthos.

- Family . . . LEGUMINOSÆ, Pulse.
Leaf . . . Sometimes double compound, usually 14 leaflets, obscurely toothed, light dull green.
Bean . . . Pod ruddy, dark brown, twisted, about 10' in. long, or more, filled with yellow sweet pulp; brown hard scales.
Bark . . . Gray-brown, seamed, thickly covered with light brown thorns, 4 in. long, often 3-branched.
Height . . . 70 ft. to 90 ft., sometimes 140 ft.
Habitat . . . Western slope of Alleghany Mts. in Pa., west through Mich. to eastern Neb., Kan. and Ind. Ter., south to northern Ala., Miss. and Tex. A variety without thorns called var. *inermis*.

Mountain Ash.

Fyrus Americana.

- Family . . . ROSACEÆ, Rose.
Leaf . . . Leaflets 13 to 17, bright deep green, pale beneath.
Fruit . . . In flat clusters, dull scarlet.
Bark . . . Flavored like wild cherry, dark shiny brown.
Height . . . 15 ft. to 30 ft., often a shrub.
Habitat . . . Elevated regions of the northeastern States, region of the Great Lakes, and high mountain ranges of Va. and N. Car.

Series 3.



Butternut.
Juglans cinerea.

Black Walnut
Juglans nigra.



Black Walnut.
Juglans nigra.

Butternut.

Juglans cinerea.

- Family . . . JUGLANDACEÆ, Walnut.
Leaf . . . Leaflets, 11 to 17, thin, dull yellow-green, roughish.
Fruit . . . Sticky, green (velvety) husk, long, dark-brown rough nut, sweet kernel.
Bark . . . Light gray, small ridges, shallow fissures, rough-firm.
Height . . . 50 ft. to 80 ft., occasionally 100 ft.
Habitat . . . Me. to eastern Dak., southeastern Neb., south through northern States to Del., southern Mo., north-eastern Ark., Appalachian Mts. to northern Ga., northwestern Ala.

Black Walnut.

Juglans nigra.

- Family . . . JUGLANDACEÆ, Walnut.
Leaf . . . Leaflets 15 to 23, thin, shiny yellow-green.
Fruit . . . Aromatic green husk; large, spheroidal, rough, dark-brown nut; sweet, strong kernel.
Bark . . . Dark brown, tinged with brown-red, deeply fissured, rounded ridges.
Height . . . 70 ft. to 100 ft., occasionally 150 ft.
Habitat . . . Western Mass., through southern Mich., Minn. to northern Neb., eastern Kan., southward to western Fla., central Ala., Miss. and Texas.

NAMES

(Manual). The nomenclature of but consistent is its standard form in the use time, and the le to a popular

SUBWORDS.

gra.
 scolata.
 cana.
 asyriana.
 rolliana.
 americana.
 juncea.
 andra.
 europaea.

talpa.
 virginiana.
 aris thyoidea.
 giana.
 asyriana.
 variata.

altoides.

aricana.
 roseus.
 as virginica.

denais.
 abia.
 nana.
 indica.
 ba.

caroliniana.

giana.

aphrodisiacum.

aba distans.

| | DR. ASA GRAY. | C. S. BARRETT. | GEO. B. SWEENEY. | |
|--|---|---|--|--|
| | Larch, American, or Hackmatack. Linden, American, or Basswood. Liquidambar, or Sweet Gum. Locust. Locust, Honey. Magnolia, Small, or Sweet Bay. Maple, Ash-leaved, or Box Elder. Maple, Black Sugar. Maple, Mountain. Maple, Norway. Maple, Red, or Swamp. Maple, Striped, or Coon-foot. Maple, Sugar, or Rock. Maple, White or Silver. Mulberry, Red. Oak, Basket, or Cow. Oak, Black. Oak, Black Jack. Oak, Bur, or Overcup. Oak, Chestnut. Oak, Laurel. Oak, Pin. Oak, Post, or Iron. Oak, Red. Oak, Scarlet. Oak, Spanish. Oak, Swamp White. Oak, Water. Oak, White. Oak, Willow. Oak, Yellow Chestnut. Papaw, or Custard Apple. Persimmon. Pine, Gray, or Jack. Pine, Jersey Scrub. Pine, Loblolly, or Old Field. Pine, Northern Pitch. Pine, Red, or Norway. Pine, Southern Yellow, or Georgia, or Long-leaf. Pine, Table Mountain. Pine, White. Pine, Yellow, Short-leaf Pine. Pine, Canada. Poplar, Balsam. Poplar, Balsam — Varieties. Poplar, White. Red Bud, or Judas Tree. Sassafras. Spruce, Black. Spruce, Red. Spruce, White, or Car. Thorn, White, or Scarlet-fruited. Tulip Tree. Tupelo, or Sour Gum. Umbrella Tree. Viburnum, Sweet, or Sheep-berry. Walnut, Black. Willow, Black. Willow, Crack. Willow, Heart-leaved. Willow, Long-leaved. Willow, Weeping. Willow, White. Yellowwood, or Virgilia. | Larix Americana. Tilia Americana. Liquidambar styraciflua. Robinia Pseudacacia. Gleditsia triacanthos. Magnolia glauca. Negundo aceroides. Acer saccharinum var. nigrum. Acer apiculatum. Acer platanoides. Acer rubrum. Acer Pennsylvanicum. Acer saccharinum. Acer dasycarpum. Myrica rubra. Quercus Michauxii. Quercus coccinea var. tinctoria. Quercus nigra. Quercus macrocarpa. Quercus prinus. Quercus imbricaria. Quercus palustris. Quercus stellata. Quercus rubra. Quercus coccinea. Quercus falcata. Quercus bicolor. Quercus aquatica. Quercus alba. Quercus Phellos. Quercus Muhlenbergii. Asimina triloba. Diospyros Virginiana. Pinus Banksiana. Pinus inops. Pinus Teda. Pinus rigida. Pinus resinosa. Pinus palustris. Pinus pungens. Pinus Strobus. Pinus mitis. Prunus Americana. Populus balsamifera. Populus balsamifera var. internodia. Populus balsamifera var. latifolia. Populus balsamifera var. virginiana. Populus alba. Cercis Canadensis. Sassafras officinale. Ficus nigra. Ficus nigra var. rubra. Ficus alba. Cistaceae coccinea. Liriodendron tulipifera. Nyssa sylvatica. Magnolia Umbrella. Viburnum Lentago. Juglans nigra. Salix nigra. Salix fragilis. Salix cordata. Salix longifolia. Salix Babylonica. Salix alba var. carulea. Celastrus tinctoria. | Larix laricina. Acer segundo. Acer barbatum var. nigrum. Acer barbatum. Acer saccharinum. Quercus velutina. Quercus Marilandica. Quercus minor. Quercus digitata. Quercus platanoides. Quercus nigra. Quercus acuminata. Pinus divaricata. Pinus Virginiana. Pinus echinata. Prunus nigra Populus alba. Sassafras Sassafras. Ficus Mariana. Ficus rubens. Ficus Canadensis. Magnolia tripetala. Salix flavistilla. Celastrus lutea. | Larix laricina. Tilia americana. Robinia pseudacacia. Gleditsia triacanthos. Acer segundo. Acer saccharum nigrum. Acer pennsylvanicum. Acer saccharum. Acer saccharinum. Quercus michauxii. Quercus velutina (Yellow Oak). Quercus marilandica. Quercus minor. Quercus digitata. Quercus platanoides. Quercus nigra. Quercus phellos. Quercus acuminata (Chinquapin Oak). Diospyros virginiana. Pinus divaricata. Pinus virginiana. Pinus teda. Pinus strobus. Pinus echinata. Prunus nigra. Populus alba. Cercis canadensis. Sassafras sassafras. Ficus mariana. Ficus rubens. Ficus canadensis. Magnolia tripetala. Viburnum lentago. Salix flavistilla. Salix babylonica. Celastrus lutea. |

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