

DUMBARTON OAKS GARDEN AND LANDSCAPE STUDIES

AMERICAN FORESTRY : BEAUTY IN UTILITY
MARCH 14, 2011

NANCY SEATON
CANDIDATE FOR MASTERS IN LANDSCAPE ARCHITECTURE, 2011
HARVARD UNIVERSITY GRADUATE SCHOOL OF DESIGN

FIG. 74.





*Hamish Fulton
Southern England, 1977*



Hamish Fulton
Hollow Lane on the North Downs,, 1971



*Hamish Fulton
Northern France, 1977*



Slash Cutting, New Hampshire



Vermont Forest Cut and Production



Grazing on Public Lands - Damage to Forest
Sheep in the Shenandoah



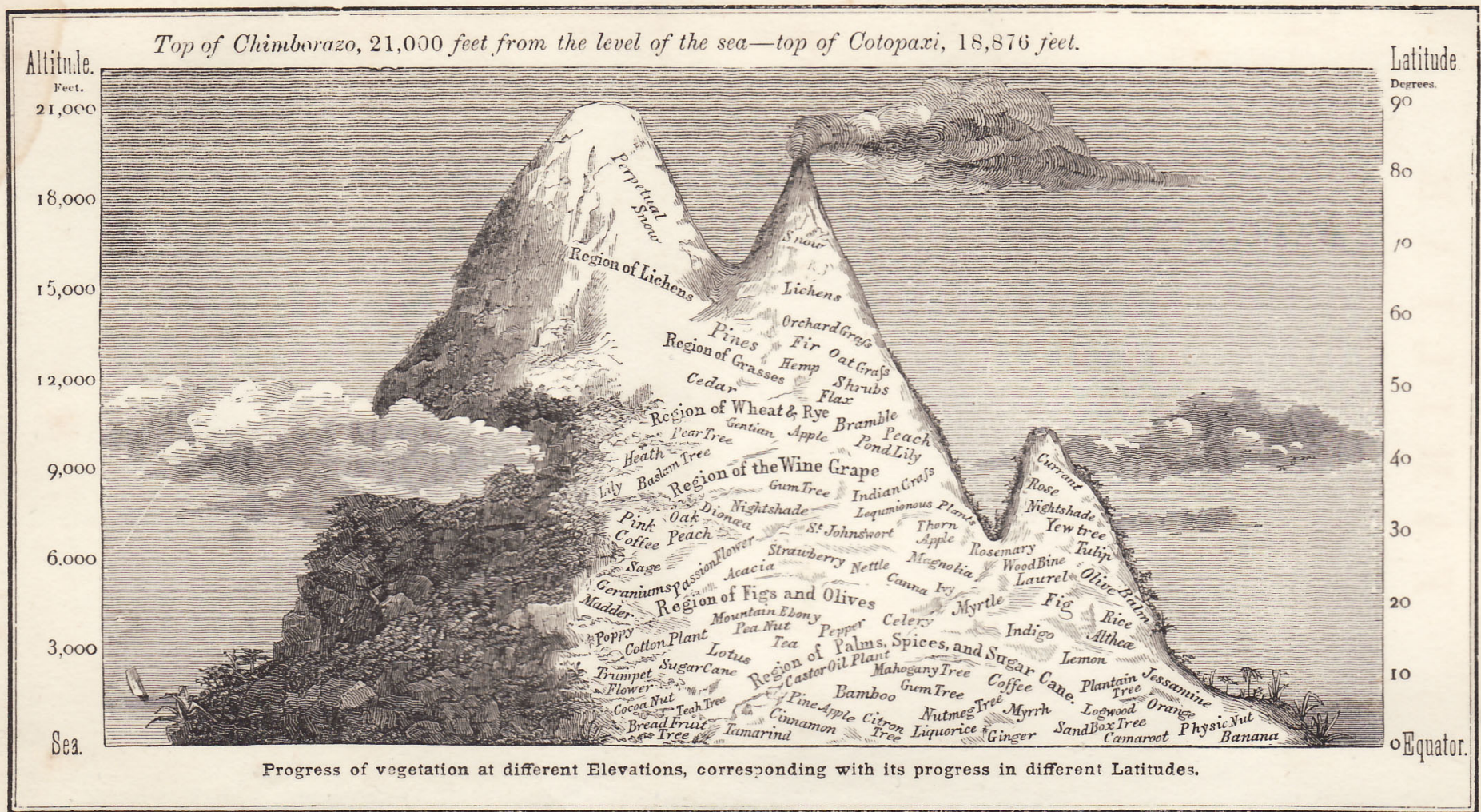
The Wooden Library in Alnarp is a unique collection of "books", each part describing a certain species or variety of tree or shrub. The collection consists of 217 volumes and was made in Nürnberg in Germany ca. 1805-1810.



Agriculture Science Center in Tsukuba, Japan



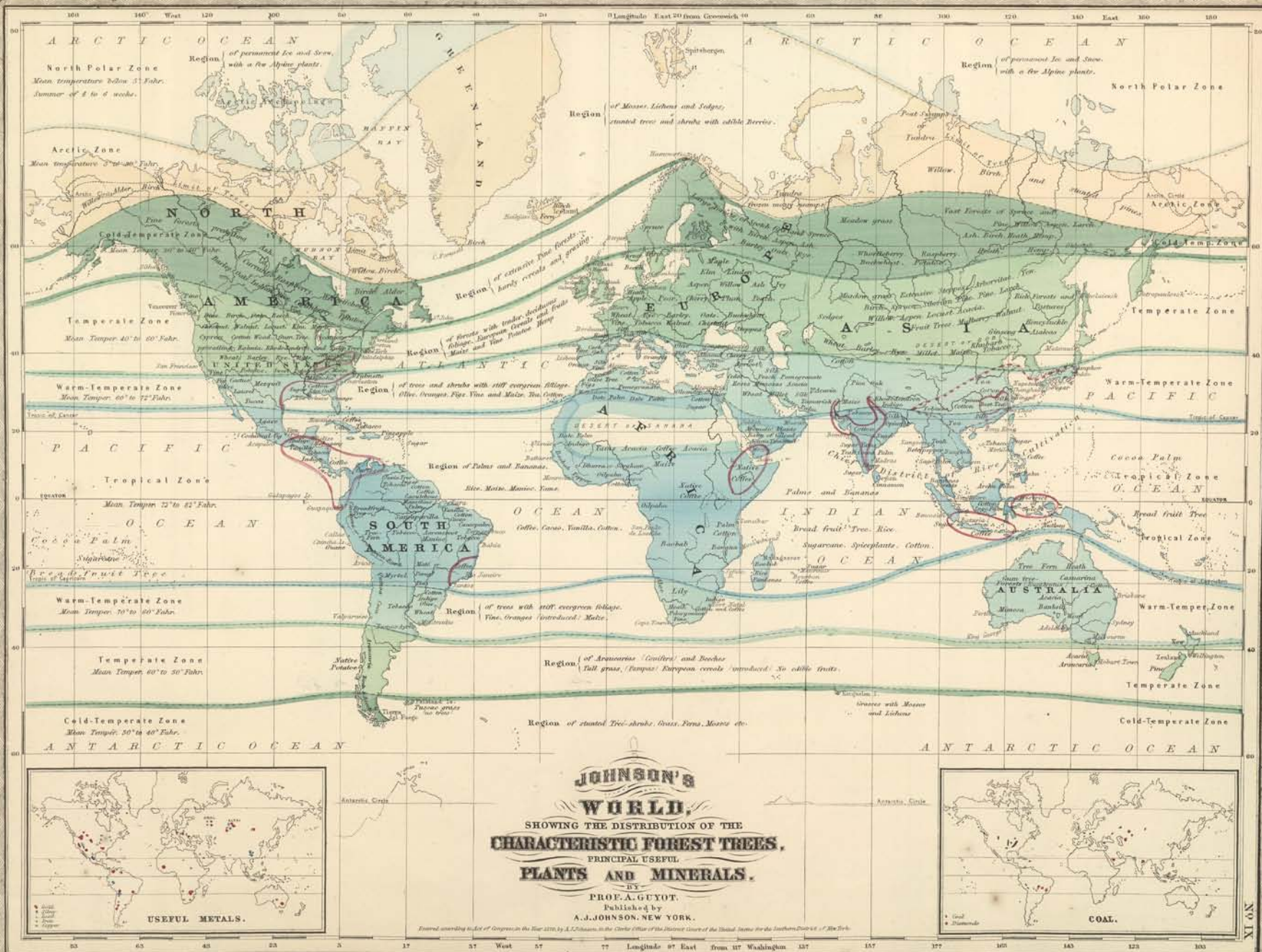
Polish Forestry Museum



Progress of vegetation at different Elevations, corresponding with its progress in different Latitudes.

Phytogeography

Alexander von Humboldt Travels to America: 1799-1804



**JOHNSON'S
WORLD,**
SHOWING THE DISTRIBUTION OF THE
CHARACTERISTIC FOREST TREES,
PRINCIPAL USEFUL
PLANTS AND MINERALS.
BY
PROF. A. GUYOT.
Published by
A. J. JOHNSON, NEW YORK.

Entered according to Act of Congress in the Year 1876, by A. Johnson, in the Clerk's Office of the District Court of the United States for the Southern District of New York.

NO. 10



Royal Saxon Forest Academy at Tharandt



Measuring "primeval" oak



Black Forest spruce: 60,000 board feet/acre



Black Forest spruce: thinning to allow understory



*Forest products, deposited at railroad
Frankenwald, northern Bavaria*

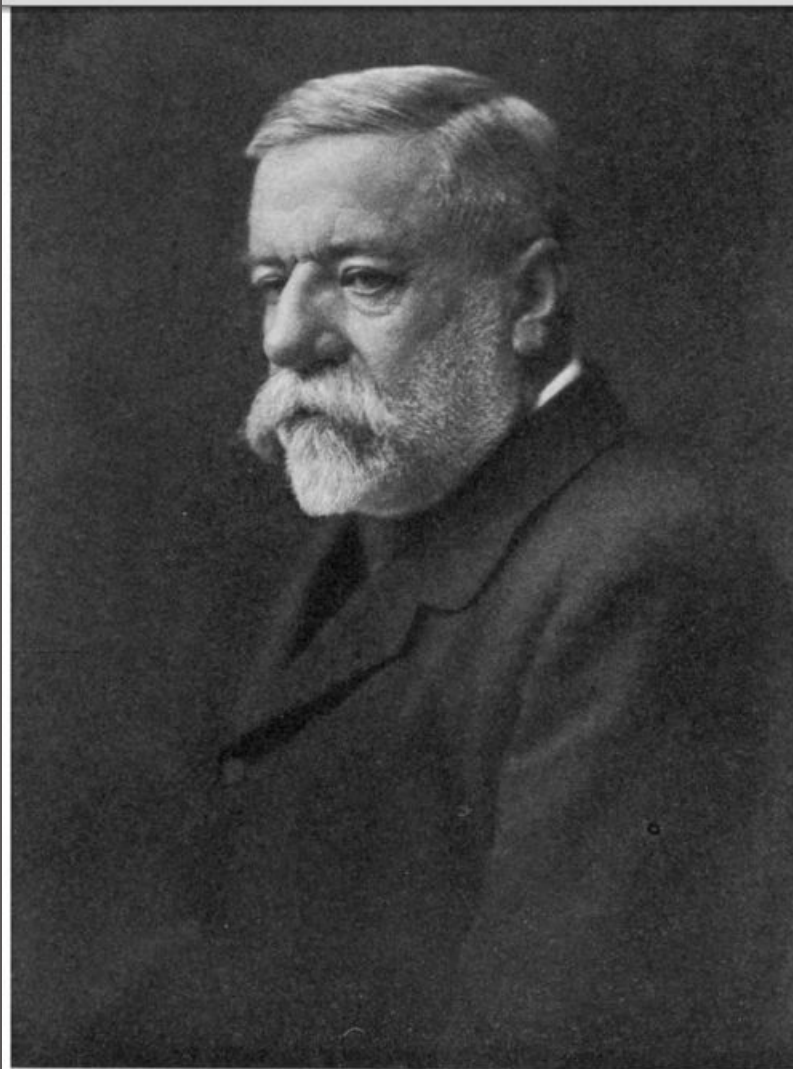


Forest products, from thinning operations in Rhine valley



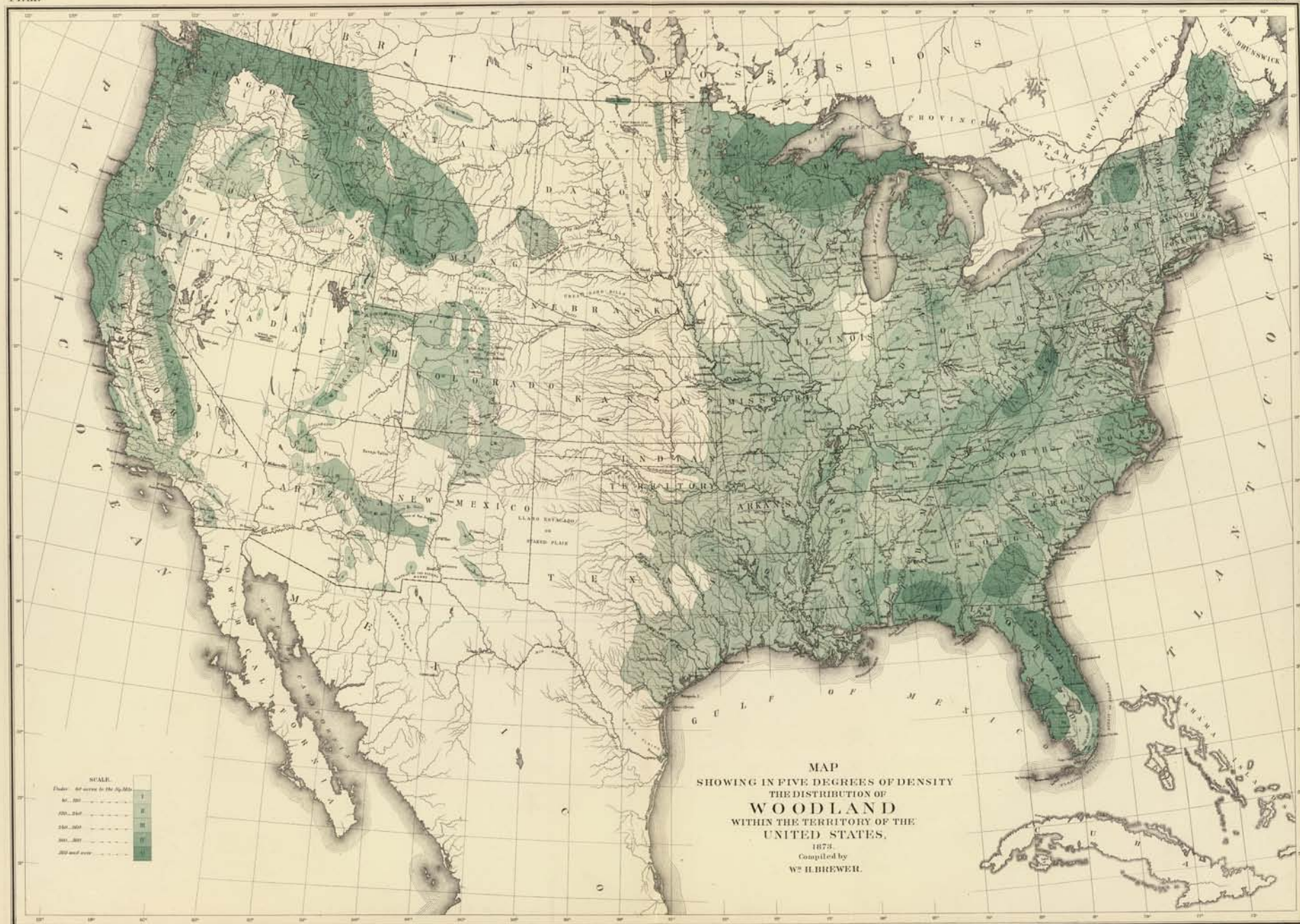
Spruce Forest, Bavaria

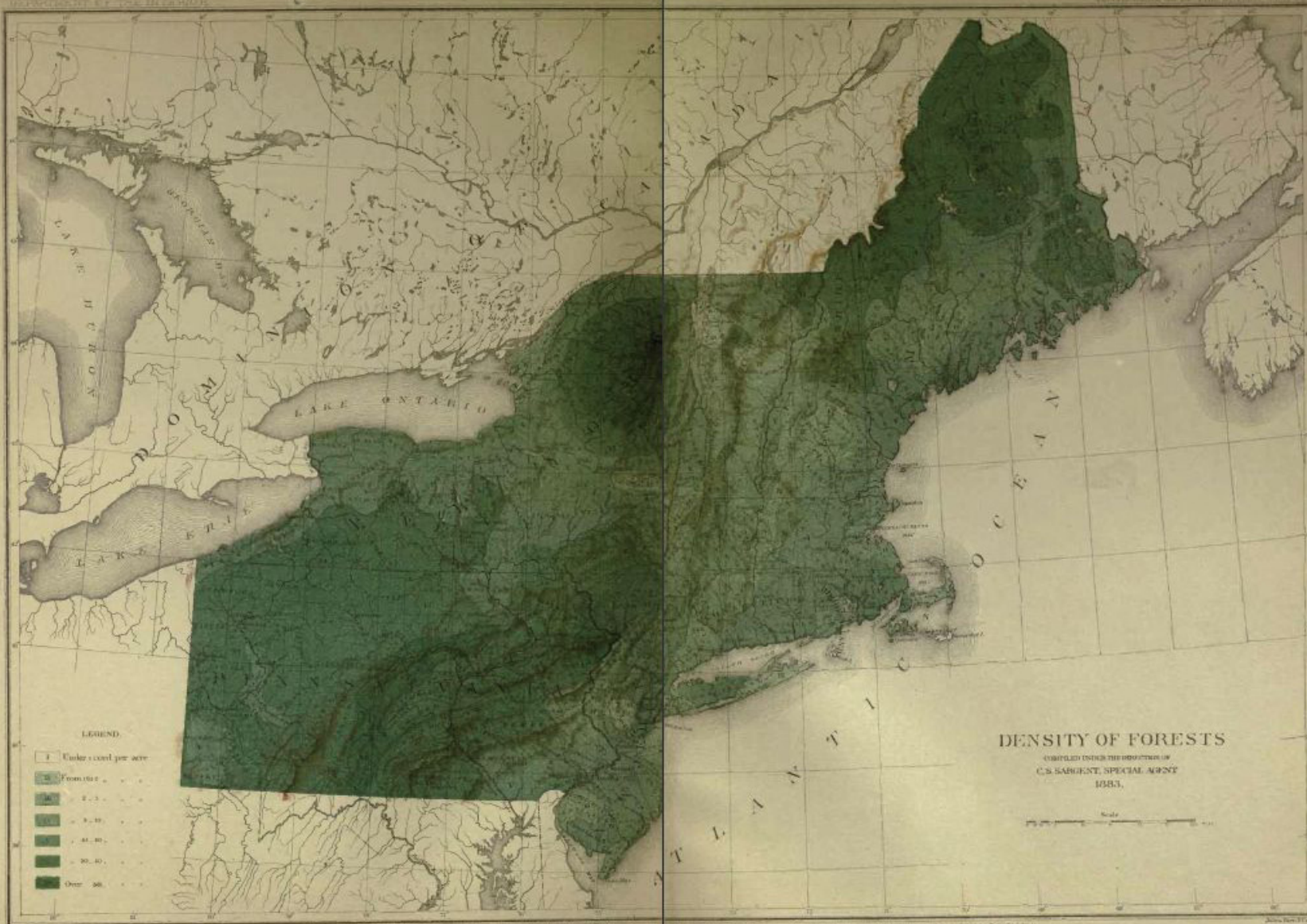
Gifford Pinchot
A Primer of Forestry. Washington D.C.: Government Printing Office, 1905.



C. S. Sargent

Forest Survey for the Nation's Tenth Census, 1884
Charles Sprague Sargent





VOL. I.

NO. 1.



GARDEN AND FOREST



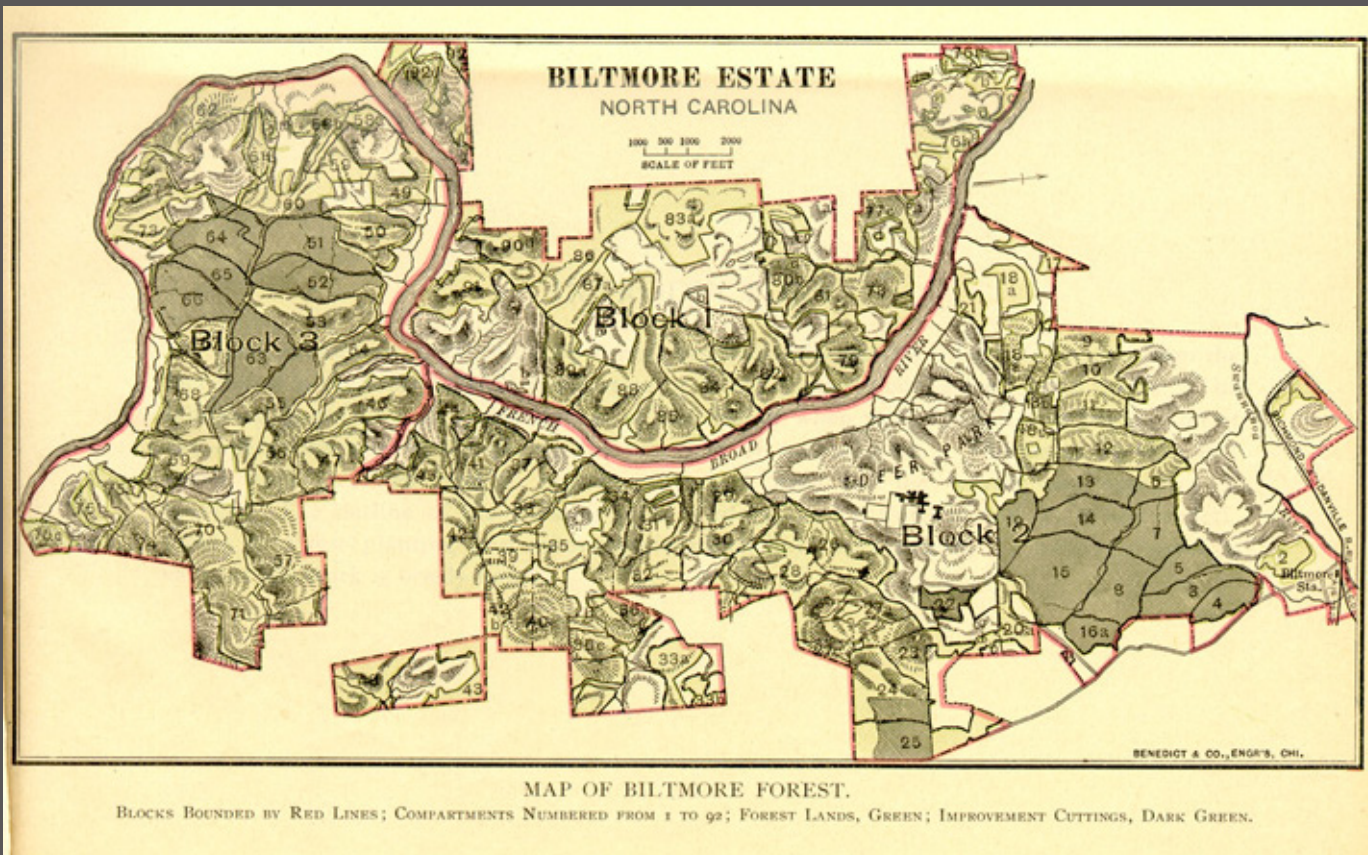
A JOURNAL OF HORTICULTURE
LANDSCAPE ART AND FORESTRY

FEBRUARY 29, 1888.

PRICE TEN CENTS.]

Copyright, 1888, by THE GARDEN AND FOREST PUBLISHING COMPANY, LIMITED.

[\$4.00 A YEAR, IN ADVANCE.]



Biltmore Forest

Gifford Pinchot
Biltmore Forest: An Account of its Treatment and the First Year's Work.
 Chicago: Lakeside Press, 1893.
 Printed for the World's Columbian Exposition



Forestry Pavilion

Seattle (?)



Forestry Pavilion

1893 World's Columbian Exposition



English Forestry (?)

1893 World's Columbian Exposition



Michigan Pine

1893 World's Columbian Exposition



California, Sequoia

1893 World's Columbian Exposition





Chilean *Fitzroyia cupressoides*, the South American Sequoia



Trophy Hunting



Trophy Hunting

U.S. Ref 373
Misc. F-6

Division of Forestry, COPY 2

Issued August 4, 1915.

U. S. DEPARTMENT OF AGRICULTURE,
FOREST SERVICE.
HENRY S. GRAVES, FORESTER.

U.S.F.S. Misc. 1915

THE USE BOOK

A MANUAL FOR USERS OF
THE NATIONAL FORESTS.

1915.

ISSUED BY THE
SECRETARY OF AGRICULTURE.



WASHINGTON:
GOVERNMENT PRINTING OFFICE.
1915.

FORESTRY LIBRARY



FIG. 23.—Logging of great mechanical perfection among the Big Trees of California.

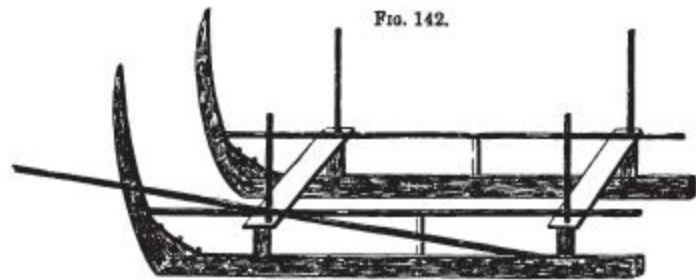
PLATE XII.

Bul. 24, Bureau of Forestry, U. S. Dept. of Agr.



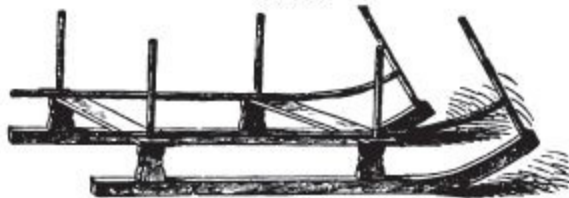
DESTRUCTIVE LUMBERING IN THE SOUTHERN SIERRA NEVADA MOUNTAINS, CALIFORNIA.

FIG. 142.



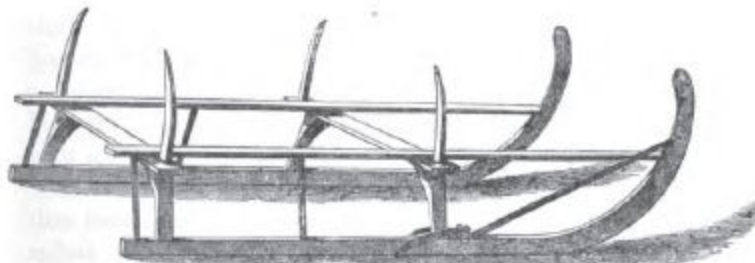
Murgthal Black Forest Sledge.

FIG. 143.



Middle Rhine-Valley Sledge.

FIG. 144.



Bavarian and South-Bohemian Sledge for butts 10-15 feet long.

FIG. 145.*



Southern Black Forest Sledge.

* Hess recommends the sledge shewn in fig. 145 on account of its lightness and simplicity, and because by pressing on its runners in front, it can be easily checked in speed.

FIG. 188.

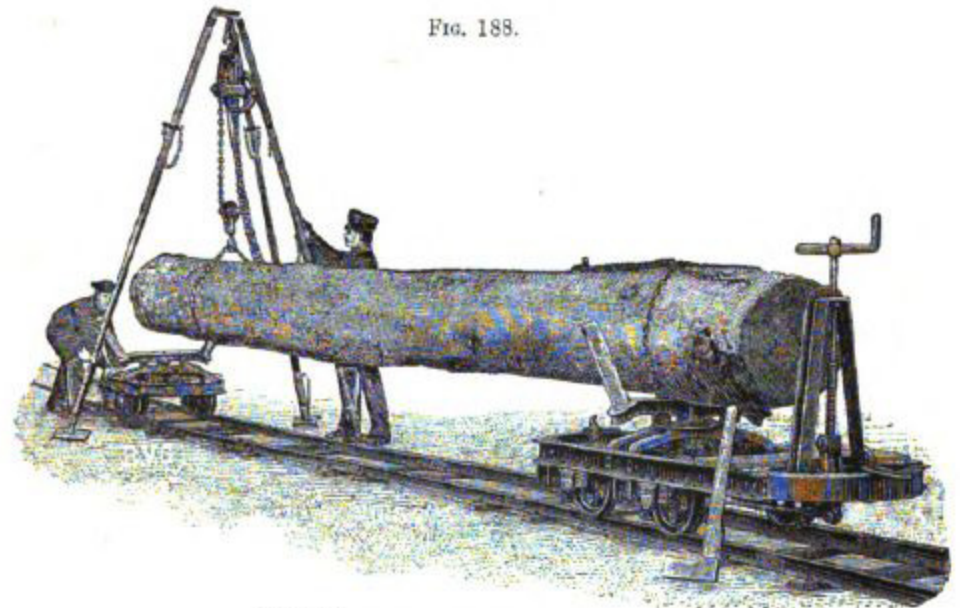


FIG. 189.

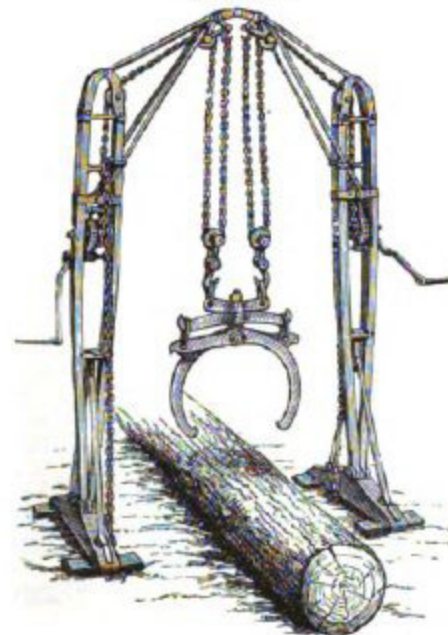


FIG. 190.



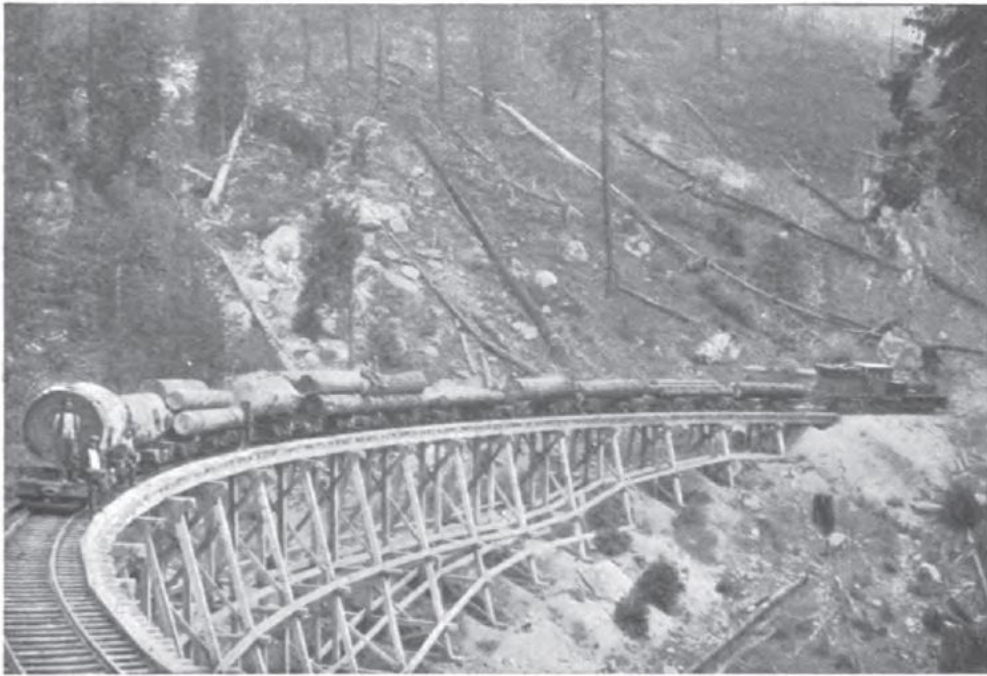


FIG. 33.—Logging by rail. Sierra Nevada Mountains, California.

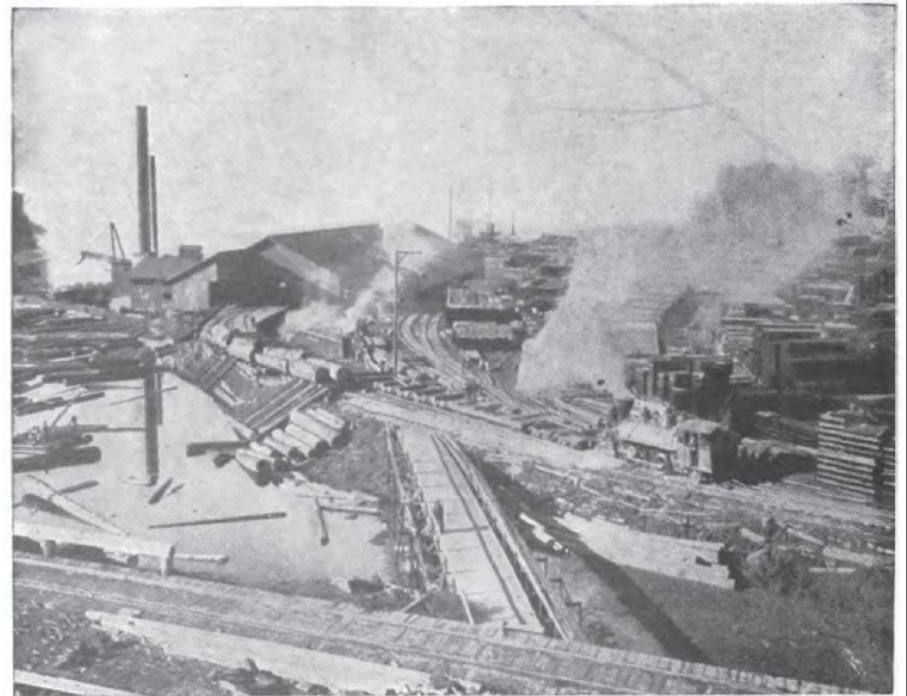


FIG. 34.—A sawmill, log pond, and lumber yard. Northern California.



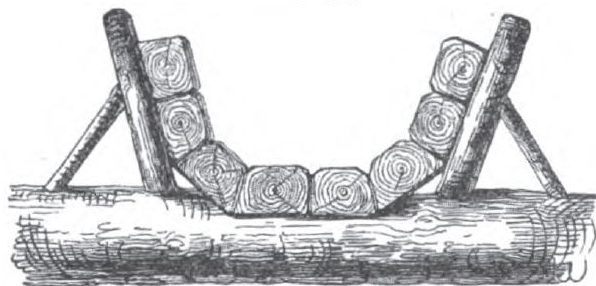
FIG. 1.—THE HEAD OF A LUMBER FLUME. CALIFORNIA.



FIG. 2.—THE FLUME IN THE MOUNTAINS. CALIFORNIA.



TIMBER SLIDE IN THE CHAMBA FORESTS.





SCENE IN THE SIHLWALD, THE TOWN FOREST OF ZURICH, SWITZERLAND, FROM WHICH ITS OWNER DESIRES THE GREATEST NET MONEY RETURN.



FIG. 29.—Spruce rollway. Adirondack Mountains, New York.



FIG. 30.—Skidding with oxen. Washington.

FIG. 119.

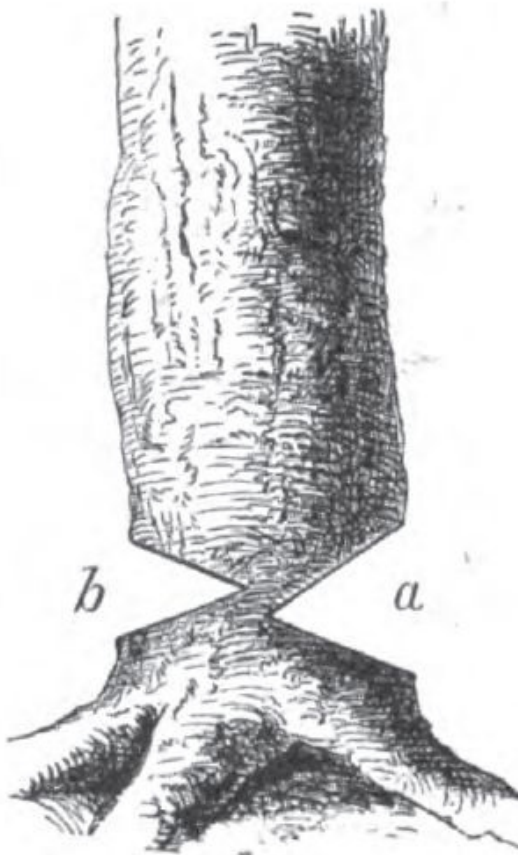


FIG. 51.

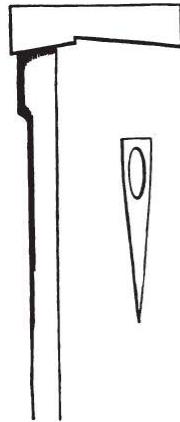


FIG. 52.

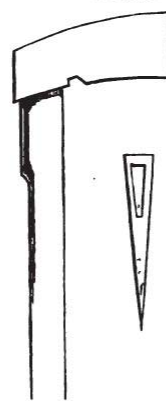


FIG. 53.

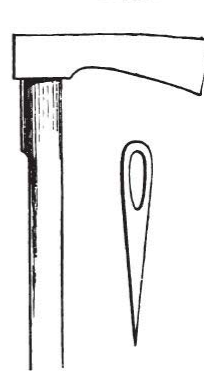


FIG. 54.



FIG. 55.

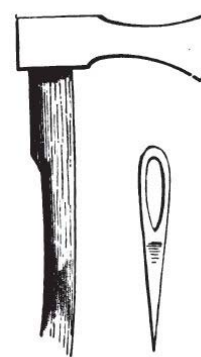


FIG. 56.

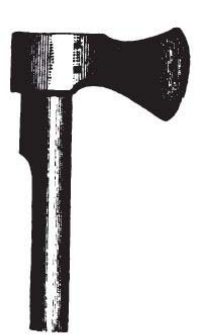


FIG. 61.

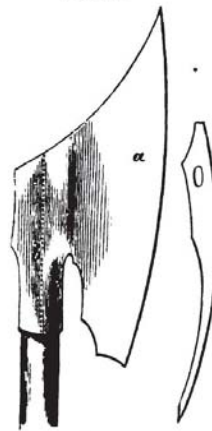


FIG. 62.

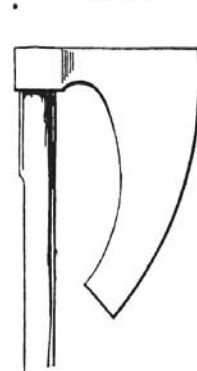


FIG. 57.

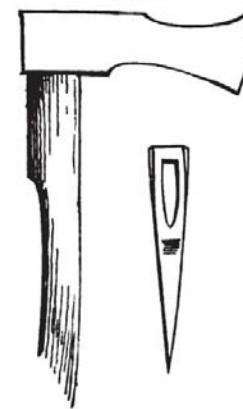


FIG. 58.

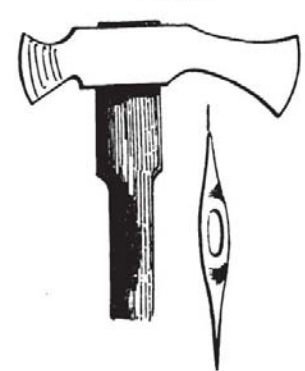


FIG. 85.



FIG. 16.



FIG. 12.



FIG. 13.

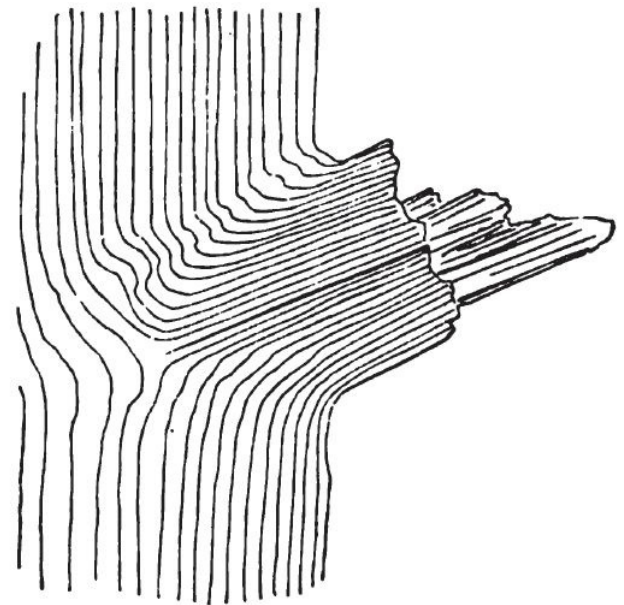


FIG. 69.



FIG. 70.



FIG. 71.

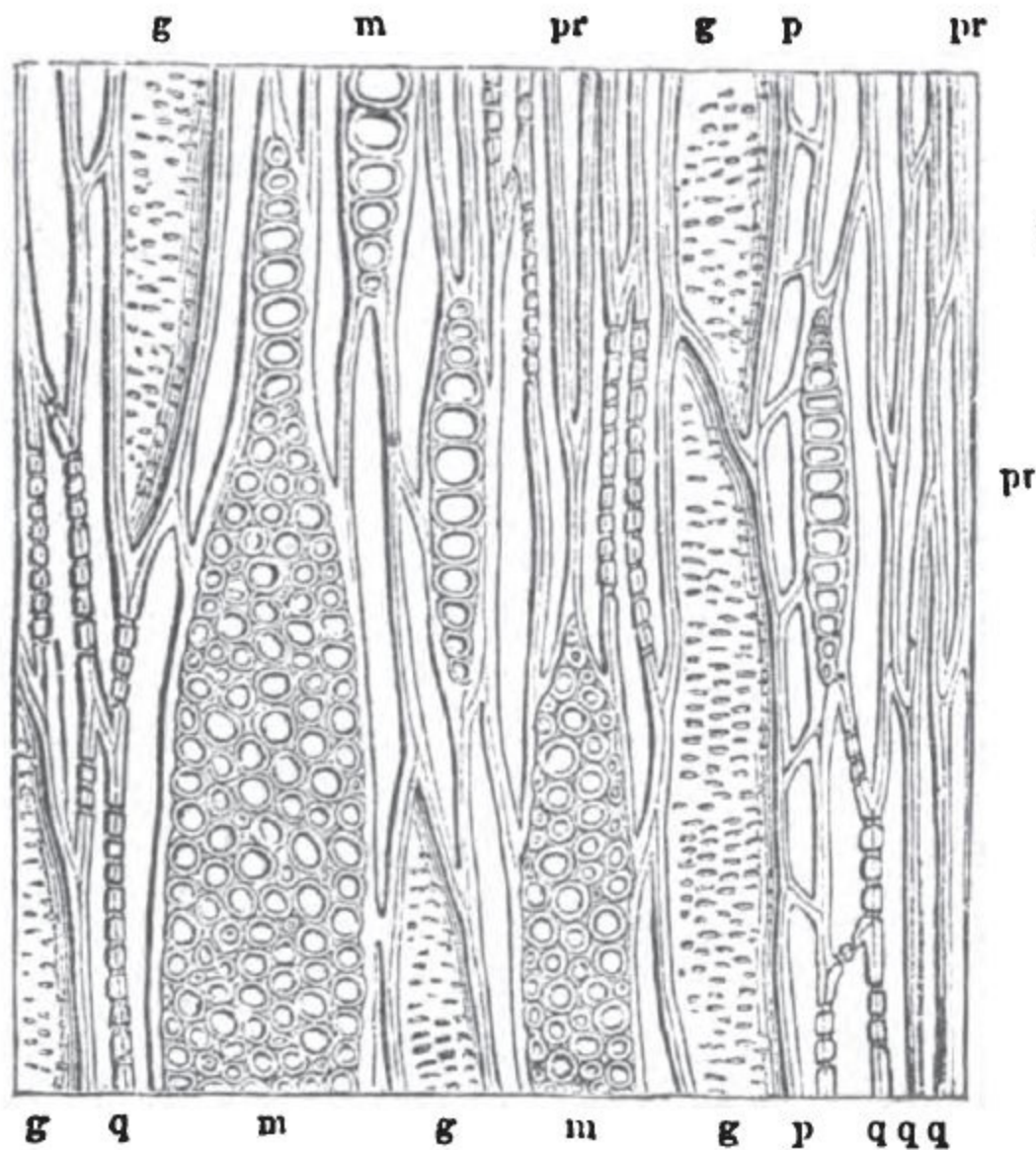


FIG. 72.

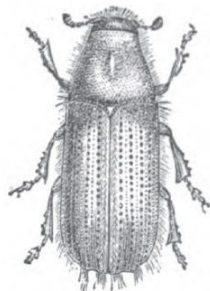


FIG. 74.





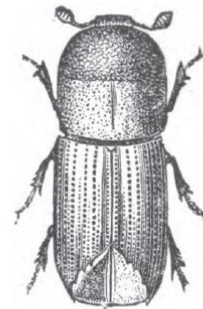
52. Vertical Section of Beech Wood, in a Plane tangent to Rings of Annual Growth.



84. *Hylestinus piniperda* (greatly enlarged).



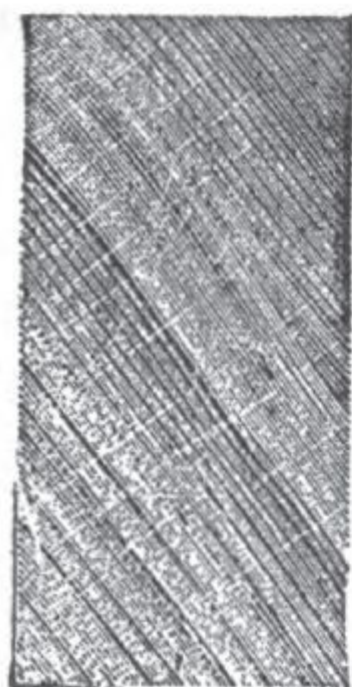
85. Burrows of the *Hylestinus piniperda* under the Bark of the Scotch Pine, with the Insects of natural size.



94 *Bostrichus typographicus* (greatly enlarged).



95. Burrows of the *Bostrichus typographicus* under the Bark of the Spruce, with the Insects of the Natural Size.



(a.)



(b.)



(c.)



(d.)

132. Differences in the Growth of Elms.—Sections of the Elm: (a.) From Canada—The layers of growth so thin that they can scarcely be distinguished. (b.) From Dunkirk, France—Wood very strong, and grown in deep humid soil. (c.) From the battle-field of Toulon—Grown on a sub-soil that is very damp, but owing to the heat of the climate the wood is strong. (d.) From Provence, France—Grown on soil that is less humid.

- A. { Section from a tree 200 years old (sp. gr. 0.627). Slow regular growth in a dense forest. Wood of best quality for cleaving: used for violins, &c. Forest of Chamounix (Haute Savoie). Altitude 4,550 feet.

- B. { Section from a tree 150 years old (sp. gr. 0.458). Regular structure, even and moderately fast growth. Excellent wood for carpentry and joinery. Forest of Grande Chartreuse (Isère). Altitude 4,420 feet.

- C. { Section from a tree 35 years old (sp. gr. 0.447). Very rapidly grown wood produced at a low altitude. Soft wood of inferior quality. Forest of Saint Laurent du Pont (Isère). Altitude 1,545 feet.

A



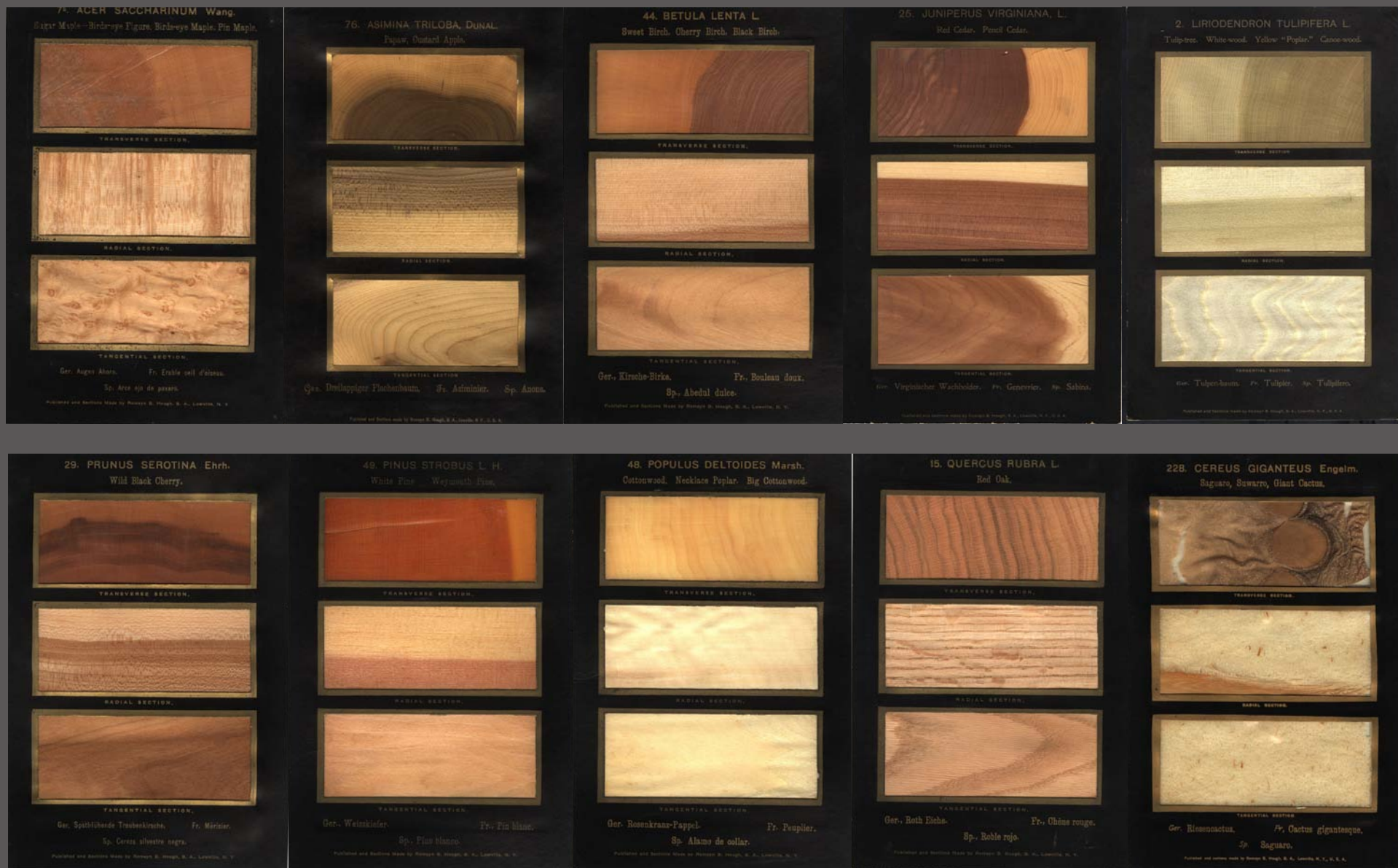
B



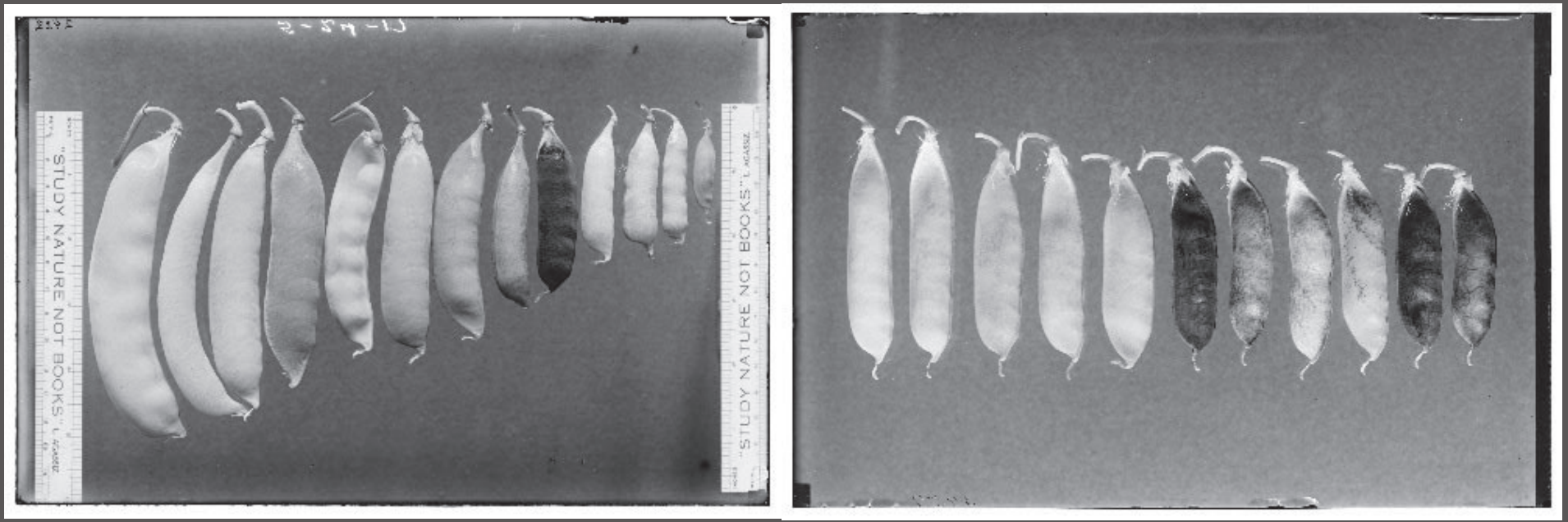
C



DIFFERENT TYPES OF SPRUCE WOOD



Romeyn Beck Hough, *The American Woods*
Radial, tangential, and cross-sections of 350 North American woods (14 volumes)
published between 1888 and 1910



Agricultural "Improvement"

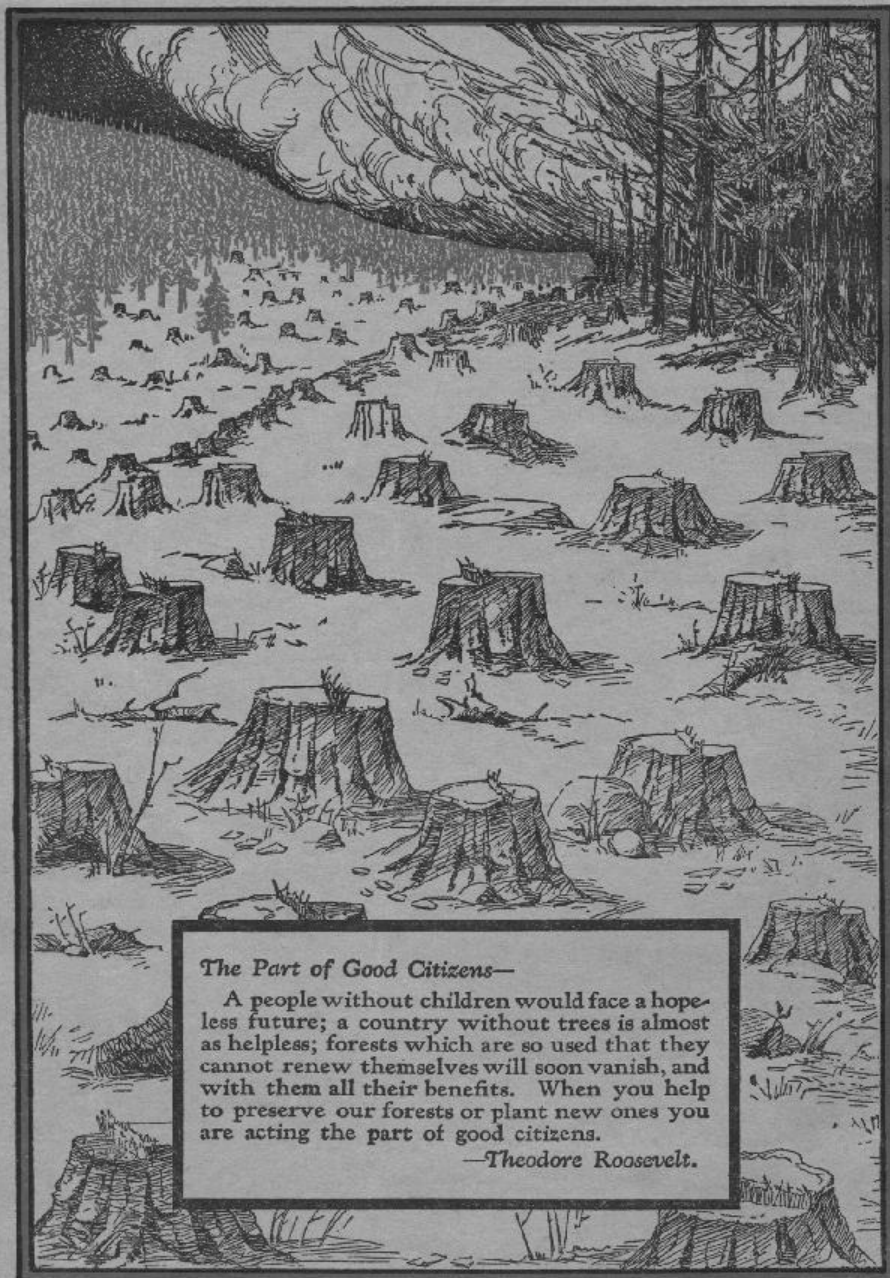


Agricultural "Improvement"



Begonia elegans Don. p. 110

Horticultural "Improvement"



The Part of Good Citizens—

A people without children would face a hopeless future; a country without trees is almost as helpless; forests which are so used that they cannot renew themselves will soon vanish, and with them all their benefits. When you help to preserve our forests or plant new ones you are acting the part of good citizens.

—Theodore Roosevelt.

THE FORESTRY PRIMER

**Civilian Conservation
Corps Edition**

1934



The 42nd
Hundred
Thousand



DEDICATED TO
PRESIDENT ROOSEVELT'S
FOREST CAMP WORKERS

American Tree Association
1214 Sixteenth Street N.W. Washington, D. C.



CCC Planting Crew, 1936



BILTMORE FOREST.
IMPROVEMENT CUTTING URGENTLY NEEDED.



BILTMORE FOREST.
BEFORE AN IMPROVEMENT CUTTING.

BILTMORE FOREST.
AFTER AN IMPROVEMENT CUTTING.

"Improvements" to the Forest

Gifford Pinchot
Biltmore Forest: An Account of its Treatment and the First Year's Work.
 Chicago: Lakeside Press, 1893.

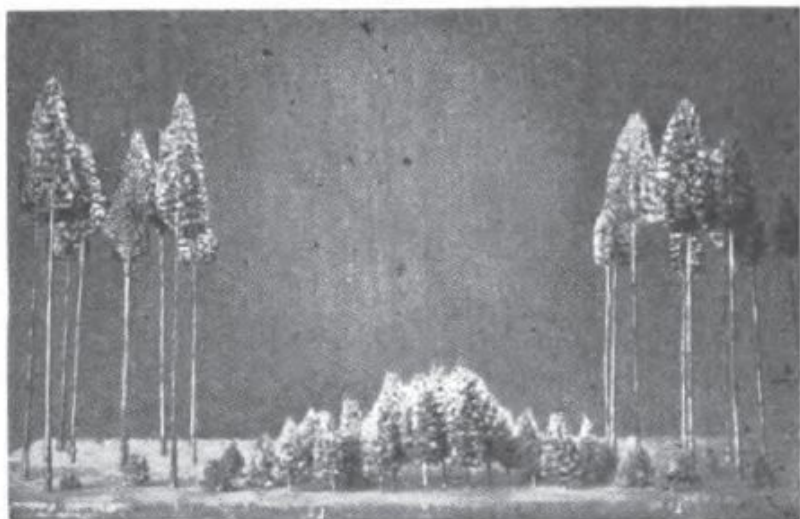


FIG. 20.—Mimic orest, showing distribution of young growth under the Group System.

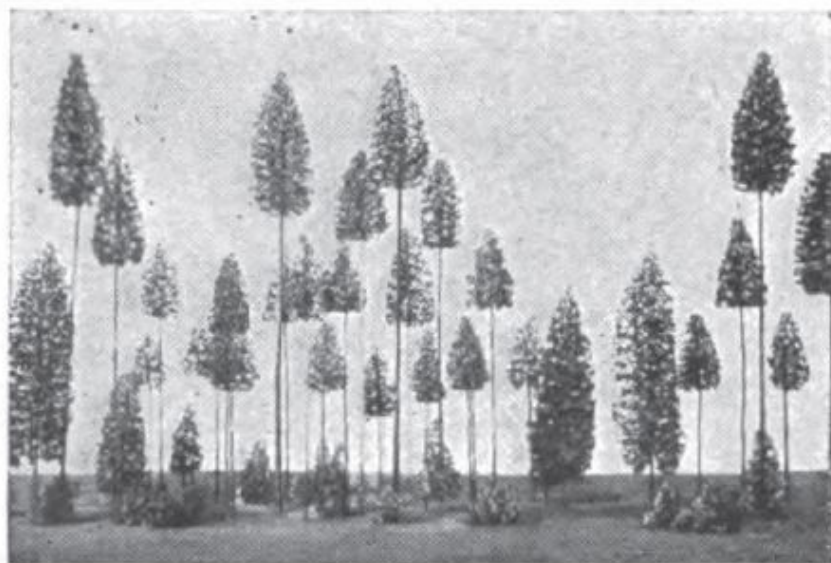


FIG. 17.—Mimic pure selection forest, showing the mixture of ages.

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PLATE VI.

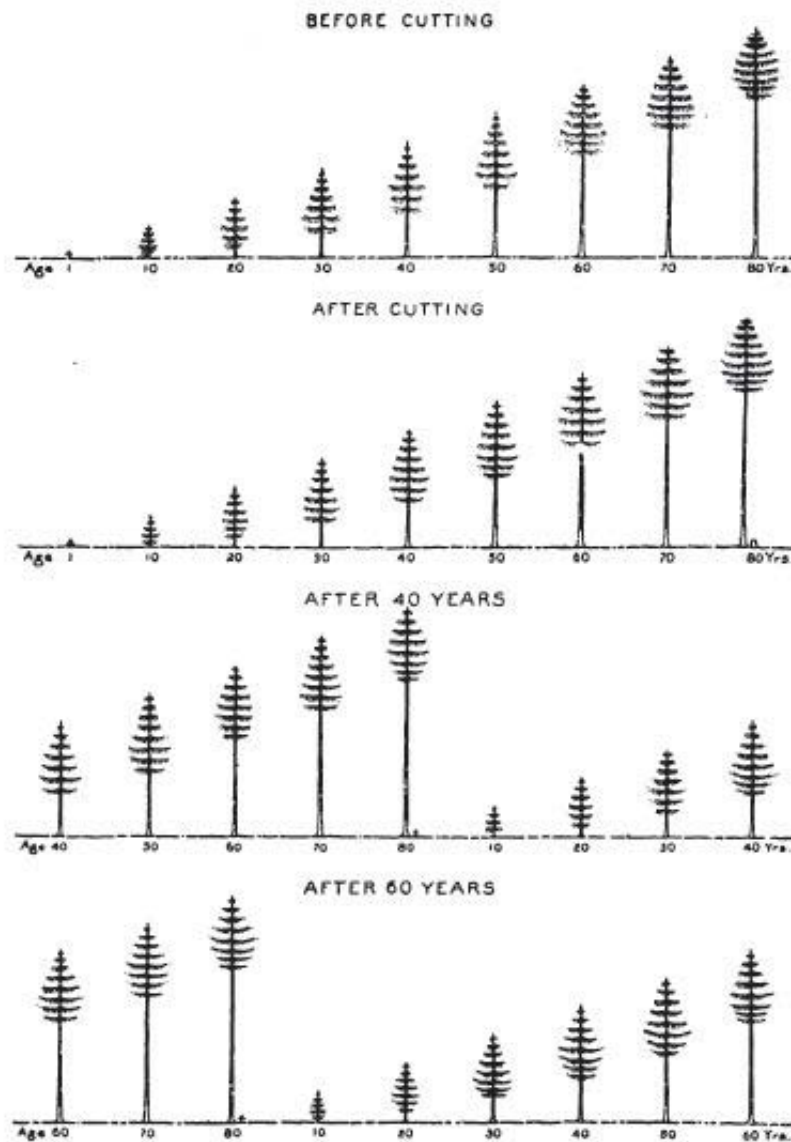


DIAGRAM TO REPRESENT THE PROGRESS OF CUTTING IN REGULAR SEED FOREST.
Each tree represents one even-aged division. Only one division in ten is represented.

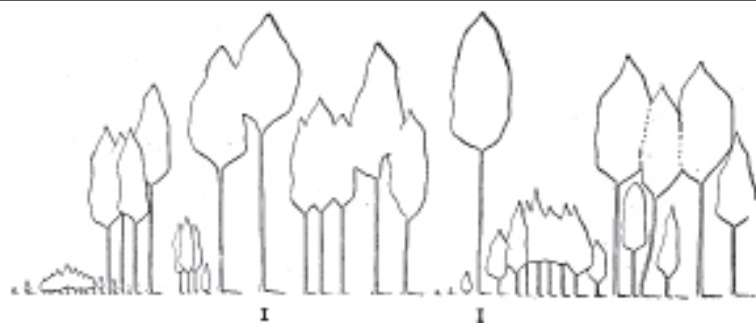


FIG. 10.

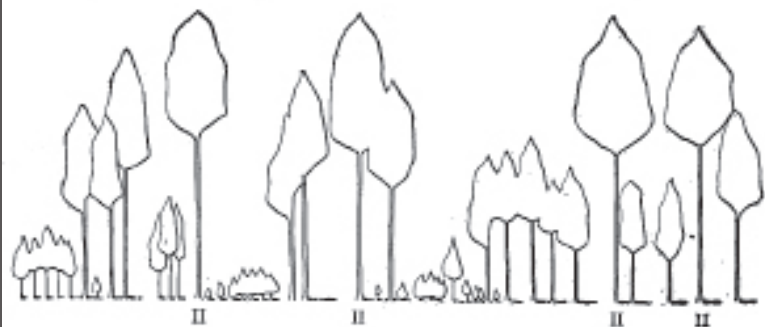
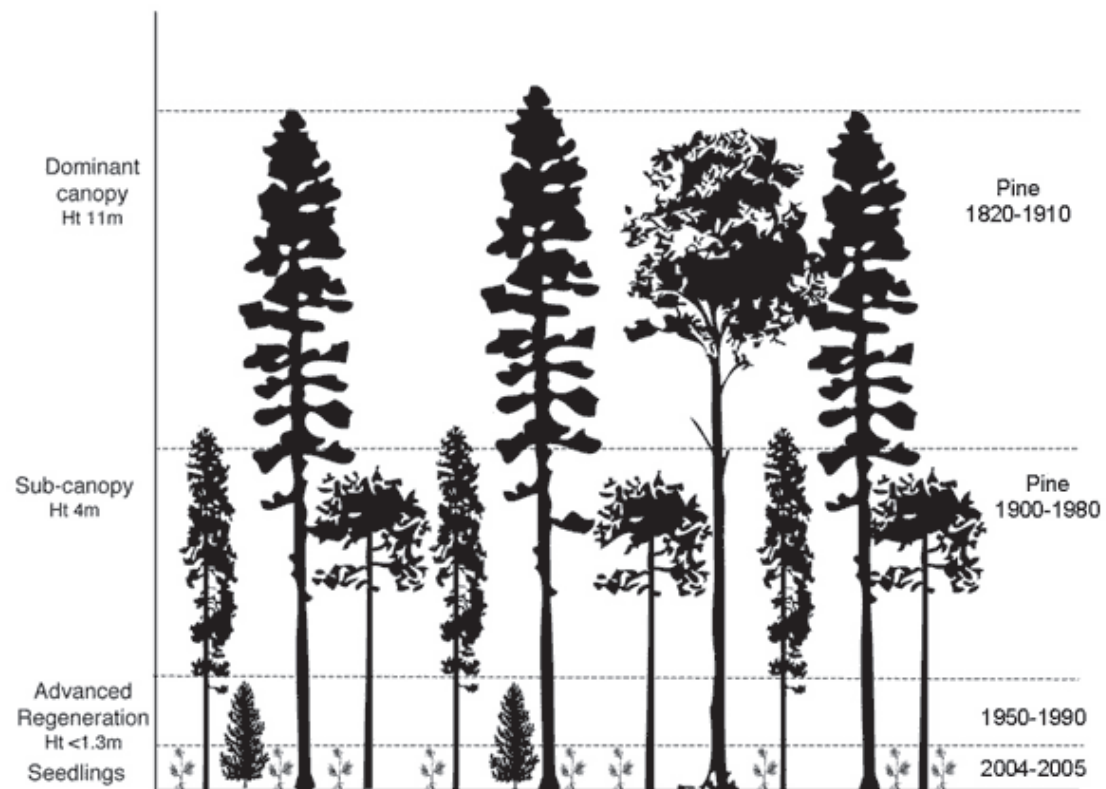
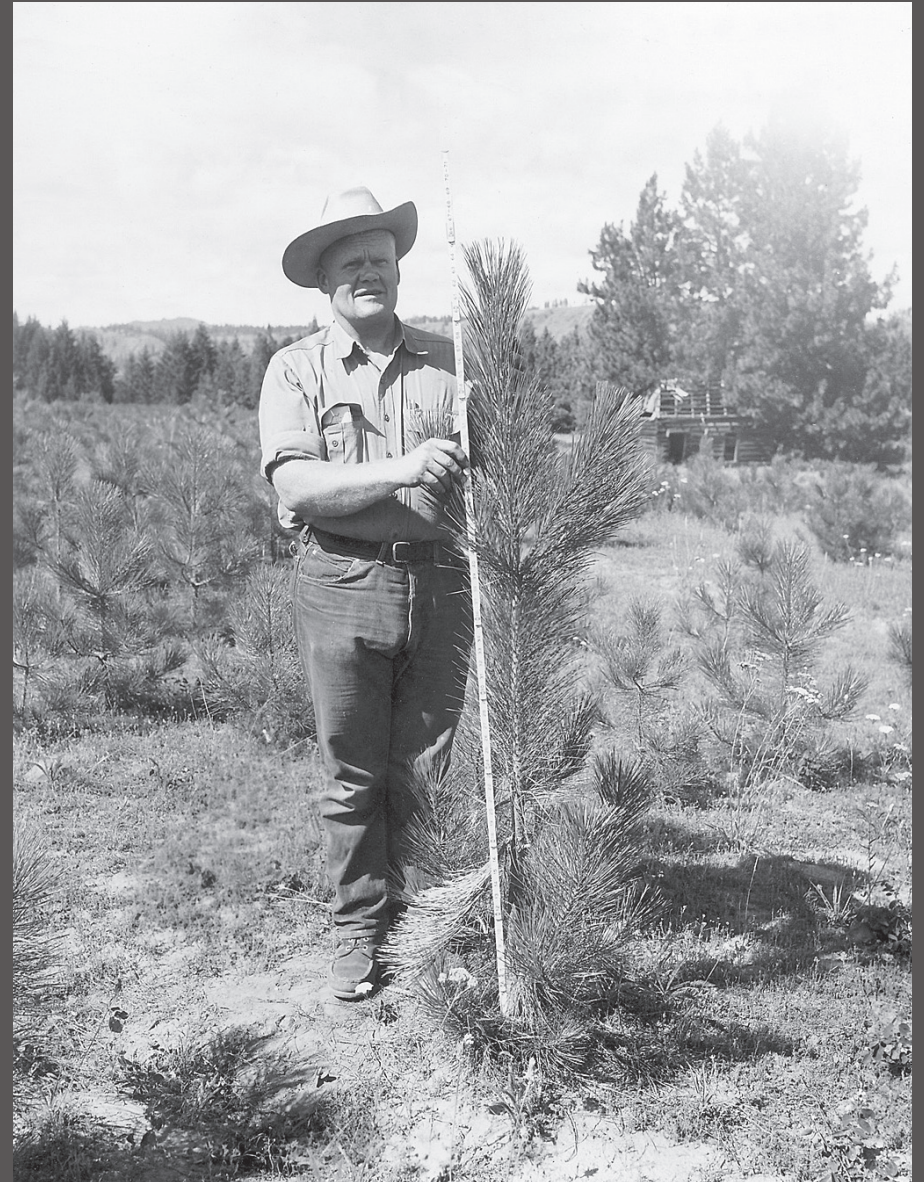


FIG. 11.



Projections of Forest Development



Afforestation & "Restoration"
United States Forest Service, 1954



Iceland

