

**BULLETIN NO. 24, PART II, U. S.  
DEPARTMENT OF AGRICULTURE.  
BUREAU OF FORESTRY. A  
PRIMER OF FORESTRY**

Published @ 2017 Trieste Publishing Pty Ltd

ISBN 9780649029976

Bulletin No. 24, Part II, U. S. Department of Agriculture. Bureau of Forestry. A Primer of Forestry by Gifford Pinchot

Except for use in any review, the reproduction or utilisation of this work in whole or in part in any form by any electronic, mechanical or other means, now known or hereafter invented, including xerography, photocopying and recording, or in any information storage or retrieval system, is forbidden without the permission of the publisher, Trieste Publishing Pty Ltd, PO Box 1576 Collingwood, Victoria 3066 Australia.

All rights reserved.

Edited by Trieste Publishing Pty Ltd.  
Cover @ 2017

This book is sold subject to the condition that it shall not, by way of trade or otherwise, be lent, re-sold, hired out, or otherwise circulated without the publisher's prior consent in any form or binding or cover other than that in which it is published and without a similar condition including this condition being imposed on the subsequent purchaser.

[www.triestepublishing.com](http://www.triestepublishing.com)

**GIFFORD PINCHOT**

**BULLETIN NO. 24, PART II, U. S.  
DEPARTMENT OF AGRICULTURE.  
BUREAU OF FORESTRY. A  
PRIMER OF FORESTRY**







LUMBERING, A PART OF THE PRACTICE OF FORESTRY.



BULLETIN No. 24, PART II.

U. S. DEPARTMENT OF AGRICULTURE  
BUREAU OF FORESTRY.

---

# A PRIMER OF FORESTRY.

---

PART II.—PRACTICAL FORESTRY.

---

By GIFFORD PINCHOT,  
FORESTER.



WASHINGTON:  
GOVERNMENT PRINTING OFFICE.  
1905.

Museum  
86  
11-17-38

LETTER OF TRANSMITTAL

---

U. S. DEPARTMENT OF AGRICULTURE,  
BUREAU OF FORESTRY,  
*Washington, D. C., June 26, 1903.*

SIR: I have the honor to transmit herewith the manuscript of the second half of "A Primer of Forestry," and to recommend its publication as Bulletin No. 24, Part II, of this Bureau. The second part (Practical Forestry) deals with the practice of forestry, with work in the woods, and with the relation of the forest to the weather and the streams, and concludes with a short account of forestry at home and abroad.

The illustrations are from photographs in the collection of the Bureau of Forestry, some of which were contributed by gentlemen not members of the Bureau, to whom I desire to express my acknowledgments.

Respectfully,

GIFFORD PINCHOT,  
*Forester.*

HON. JAMES WILSON,  
*Secretary of Agriculture.*







## CONTENTS.

---

	Page.
CHAPTER I.—THE PRACTICE OF FORESTRY .....	7
The service of the forest .....	7
The uses of the forest .....	8
Four requirements for the best service.....	11
The yield of a forest.....	14
Silvicultural systems .....	18
Simple coppice .....	19
Stored coppice.....	21
Seed or high forest.....	22
Regular seed forest.....	23
Two-storied seed forest.....	27
Selection forest .....	28
Localized selection.....	30
The group system.....	33
The strip system.....	35
Improvement cuttings.....	36
CHAPTER II.—WORK IN THE WOODS.....	38
Conservative lumbering .....	40
Conservative lumbering and ordinary lumbering..	41
Felling the trees .....	42
Swamping and sawing.....	45
Skidding.....	47
Transportation .....	49
At the mills.....	51
Waste in lumbering.....	53
Planting .....	54

	Page.
CHAPTER III.—THE WEATHER AND THE STREAMS .....	56
Forests and climate .....	57
Effect of forest cover on temperature .....	59
Extremes of heat and cold .....	61
Moisture in forest air .....	62
Evaporation .....	63
Rainfall .....	66
Fallen rain .....	67
CHAPTER IV.—FORESTRY ABROAD AND AT HOME .....	74
Forestry abroad .....	74
The forest in early times .....	75
Modern forestry .....	75
Germany .....	77
France .....	77
Switzerland .....	78
British India .....	80
Forestry at home .....	81
The settler and the forest .....	82
First steps in forestry .....	83
The public domain .....	85
Federal forest reserves .....	85
State forestry .....	87

---

## ILLUSTRATIONS.

---

	Number.
Plates .....	18
Text figures .....	47

