

**THE TREES OF GREAT
BRITAIN & IRELAND,
VOL. III, PP. 451-711**

Published @ 2017 Trieste Publishing Pty Ltd

ISBN 9780649112036

The trees of Great Britain & Ireland, Vol. III, pp. 451-711 by Henry John Elwes & Augustine Henry

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

HENRY JOHN ELWES & AUGUSTINE HENRY

**THE TREES OF GREAT
BRITAIN & IRELAND,
VOL. III, PP. 451-711**



LEBANON CEDAR AT HUGHCLERE CASTLE

From a Drawing by Charlotte Lady Phillips



The Trees
of
Great Britain
& Ireland

BY
Henry John Elwes, F.R.S.
AND
Augustine Henry, M.A.

VOLUME III

Edinburgh: Privately Printed
MCMVIII

17493

CONTENTS

LIST OF ILLUSTRATIONS	PAGE
CEDRUS	v
CEDRUS LIBANI, LEBANON CEDAR	451
CEDRUS BREVIFOLIA, CYPRUS CEDAR	453
CEDRUS ATLANTICA, ATLAS OR ALGERIAN CEDAR	467
CEDRUS DEODARA, DEODAR	469
CEDRUS DEODARA, DEODAR	476
LIBOCEDRUS	484
LIBOCEDRUS TETRAGONA	485
LIBOCEDRUS CHILENSIS	486
LIBOCEDRUS DONIANA	487
LIBOCEDRUS BIDWILLI	488
LIBOCEDRUS MACROLEPIS	488
LIBOCEDRUS DECURRENS, INCENSE CEDAR	489
CUNNINGHAMIA	494
CUNNINGHAMIA SINENSIS	494
LIQUIDAMBAR	499
LIQUIDAMBAR STYRACIFLUA, SWEET GUM	500
LIQUIDAMBAR ORIENTALIS	505
LIQUIDAMBAR FORMOSANA	506
NYSSA	508
NYSSA SYLVATICA, TUPELO	509
NYSSA AQUATICA, COTTON GUM	512
NYSSA SINENSIS, CHINESE TUPELO	514
SASSAFRAS	515
SASSAFRAS TZUMU, CHINESE SASSAFRAS	515
SASSAFRAS OFFICINALE, SASSAFRAS	516
CORYLUS	520
CORYLUS COLURNA, TURKISH HAZEL	520
CARPINUS	525
CARPINUS ORIENTALIS	527
CARPINUS POLYNEURA	527
CARPINUS JAPONICA	528
CARPINUS YEDOENSIS	529
CARPINUS CORDATA	529
CARPINUS LAXIFLORA	530
CARPINUS CAROLINIANA, AMERICAN HORNBEEAM	531
CARPINUS BETULUS, COMMON HORNBEEAM	532
OSTRYA	540

iv The Trees of Great Britain and Ireland

	PAGE
OSTRYA CARPINIFOLIA, HOP HORNBREAM	540
OSTRYA VIRGINICA, IRONWOOD	543
OSTRYA JAPONICA, JAPANESE HOP HORNBREAM	544
NOTHOFAGUS	545
NOTHOFAGUS CLIFFORTIODES	547
NOTHOFAGUS MENZIESII	548
NOTHOFAGUS FUSCA	549
NOTHOFAGUS MOOREI	549
NOTHOFAGUS CUNNINGHAMI	550
NOTHOFAGUS BETULOIDES	551
NOTHOFAGUS OBLIQUA	552
NOTHOFAGUS ANTARCTICA	553
ARBUTUS	558
ARBUTUS UNEDO, STRAWBERRY TREE	559
ARBUTUS HYBRIDA	563
ARBUTUS ANDRACHNE	564
ARBUTUS MENZIESII, MADROÑA	565
SCIADOPITYS	567
SCIADOPITYS VERTICILLATA, UMBRELLA PINE	568
PINUS SYLVESTRIS, SCOTS PINE	571
CARYA	597
CARYA OLIVIFORMIS, PECAN NUT	599
CARYA AMARA, BITTERNUT	600
CARYA ALBA, SHAGBARK HICKORY	601
CARYA PORCINA, PIGNUT	604
CARYA SULCATA, BIG SHELLBARK	605
CARYA TOMENTOSA, MOCKERNUT	606
PLATANUS	611
PLATANUS ORIENTALIS, ORIENTAL PLANE	614
PLATANUS OCCIDENTALIS, WESTERN PLANE	627
ACER	630
ACER PSEUDOPLATANUS, SYCAMORE	641
ACER CAMPESTRE, COMMON MAPLE	651
ACER PLATANOIDES, NORWAY MAPLE	656
ACER LOBELII	659
ACER PICTUM	660
ACER OPALUS, ITALIAN MAPLE	663
ACER MONSPESSULANUM, MONPELLIER MAPLE	665
ACER INSIGNE	667
ACER VOLXEMI	668
ACER TRAUTVETTERI	669
ACER RUBRUM, RED MAPLE	671
ACER DASYCARPUM, SILVER MAPLE	674
ACER SACCHARUM, SUGAR MAPLE	677
ACER MACROPHYLUM, OREGON MAPLE	681
ACER NEGUNDO, ASH-LEAVED MAPLE	684
SEQUOIA	687
SEQUOIA SEMPERVIRENS, REDWOOD	688
SEQUOIA GIGANTEA, WELLINGTONIA	699

ILLUSTRATIONS

	<i>Frontispice</i>
	PLATE No.
Lebanon Cedar at Highclere Castle (from a drawing by Charlotte Lary Phillimore)	127
Cedar on Mount Lebanon	127
Lebanon Cedar at Painshill	128
Lebanon Cedar at Goodwood	129
Lebanon Cedar at Strathfieldsaye	130
Lebanon Cedar at Petworth	131
Lebanon Cedar at Blenheim	132
Lebanon Cedar at Stratton Strawless	133
Lebanon Cedar at Birchanger	134
Cedar Avenue at Dropmore	135
Algerian Cedars at Téniet-el-Hâad	136
Algerian Cedar at Ashampstead	137
Algerian Cedar at Fota	138
Deodars in the Himalaya	139
Deodar at Bicton	140
<i>Libocedrus chilensis</i> in Chile	141
<i>Libocedrus decurrens</i> at Frogmore	142
<i>Cunninghamia sinensis</i> at Bagshot Park	143
Liquidambar in America (A), <i>Nyssa sylvatica</i> in America (B)	144
<i>Nyssa</i> at Strathfieldsaye	145
Sassafras at Claremont	146
<i>Corylus Colurna</i> at Wollaton Hall	147
Hornbeam at Cornbury Park	148
Pollard Hornbeams at Bayfordbury	149
Hornbeam at Easton Lodge	150
Hornbeams at Weald Park	151
Hornbeam at Gordon Castle	152
Hop-hornbeam at Langley Park, Norfolk	153
Tasmanian Beech at Fota	154
Evergreen Beech at Bicton	155
Beech Forest in Chile	156
<i>Arbutus</i> at Killarney	157
<i>Arbutus hybrida</i> at Sedbury Park	158
<i>Sciadopitys</i> in Japan (A), <i>Sciadopitys</i> at Hemsted (B)	159
Scots Pine Avenue at Carclew	160
Scots Pine at Bramshill	161

vi The Trees of Great Britain and Ireland

	PLATE No.
Scots Pine at Inveraray Castle	162
Scots Pine at Dunkeld	163
Scots Pine at Gordon Castle	164
Scots Pine at Loch Morlich	165
Scots Pine at Abernethy	166
Scots Pine at Abernethy	167
Scots Pine in Ballochbuie Forest	168
Scots Pine at Ballochbuie	169
Hickory at Bute House	170
Hickories in Syston Park	171
Hickory at Kew	172
Carya alba at Brocklesby Park	173
Oriental Plane at Ely	174
Oriental Plane at Corsham Court	175
Western Plane in America (A), Oriental Plane in Syria (B)	176
Red Maple at Bagshot Park	177
London Plane at Albury	178
Sycamore at Colesborne	179
Sycamore at Newbattle	180
Sycamore at Drumlanrig	181
Sycamore at Castle Menzies	182
Sycamore in Switzerland	183
Common Maple at Cassiobury	184
Common Maple at Langley Park, Norfolk	185
Norway Maple at Ensworth	186
Norway Maple at Park Place	187
Norway Maple at Colesborne	188
Italian Maple at Hargham	189
Montpellier Maple at Rickmansworth	190
Sugar Maple at Park Place	191
Red Maple at Whitton	192
Western Maple in America	193
Redwood at Claremont	194
Redwood Forest in California	195
Wellingtonia at Fonthill	196
Wellingtonia at Aston Clinton	197
Wellingtonia Avenue near Wellington College	198
Nyssa, Diospyros, Sassafras, and Liquidambar; leaves, etc.	199
Castanea, Liquidambar, Diospyros, Nyssa, and Sassafras; buds and twigs	200
Carpinus and Ostrya; leaves, etc.	201
Nothofagus, Fagus, Castanopsis, and Castanea; leaves, etc.	202
Carya; leaves, etc.	203
Platanus, Catalpa, and Liriodendron; leaves, etc.	204
Acer; leaves, etc.	205
Acer; leaves, etc.	206
Acer; leaves, etc.	207

CEDRUS

Cedrus, Lawson, *Agric. Man.* 379 (1836); Loudon, *Arb. et Frut. Brit.* iv. 2402 (1838); Bentham et Hooker, *Gen. Pl.* iii. 439 (1880); Masters, *Journ. Linn. Soc. (Bot.)* xxx. 30 (1893).

Larix, Miller, *Dict.* No. 3 (1724) (*ex parte*).

Pinus, Linnæus, *Sp. Pl.* 1001 (1753) (*ex parte*).

Pinus, section *Cedrus*, Parlatore in DC. *Prod.* xvi. 2, p. 407 (1864).

Abies, Poiret in Lamarck, *Dict.* vi. 510 (1804) (*ex parte*).

TREES belonging to the tribe Abietinæ of the order Coniferæ, with evergreen foliage, borne, for the most part, in tufted flat masses on the ramifications of the branches, which arise irregularly and not in whorls from the stem. Bark dark grey and smooth on young stems and branches; ultimately on old trunks thick and fissuring into irregular longitudinal plates, roughened externally by small scales.

Branchlets of two kinds: long shoots bearing in spiral order solitary leaves, and short shoots or spurs with leaves in pseudo-verticels. Buds minute ovoid, with a few brown scales, which persist after the opening of the bud, either sheathing the base of the long shoots or surrounding the annual rings of the short shoots. Long shoot with a solitary terminal bud, prolonging the growth of the branchlet in the following year; and with a few lateral buds solitary in the axils of some of the leaves and usually developing into short shoots. Short shoot with a terminal bud only, which, in the following year, either lengthens slightly the spur and adds to it a whorl of leaves with or without flowers, or occasionally develops into a long shoot. Long shoots, slightly furrowed, between the slightly raised decurrent bases of the pulvini, the free ends of which project and bear leaves, and on older branchlets, from which the leaves have fallen, remain persistent as slight prominences.

Leaves, deciduous in the third to the sixth year, variable in length, the shortest on the spurs, articulated at the base, acicular, rigid, sharply pointed, more or less triangular in section, stomatic on all sides; fibro-vascular bundle undivided, hypoderm thick, with two resin canals close to the epidermis on the lower surface.

Flowers, monœcious, terminal, solitary on the older leaf-bearing short shoots. Male flowers, erect, catkin-like, cylindrical, about 2 inches long; anthers numerous, spirally crowded, bi-locular, dehiscing longitudinally; connective prolonged into an ovate denticulate crest; pollen grains globose, without wings, borne to the female flowers by the wind. Female flowers appearing as small purplish cones, about $\frac{1}{2}$ inch in length; composed of numerous spirally arranged, closely appressed, irregularly dentate, sub-orbicular scales, each subtended by a short, included, obovate, denticulate bract; ovules, two on each scale, inverted.