

**CATALOGUE OF THE TREES AND SHRUBS  
IN THE ARBORETUM AND BOTANIC  
GARDEN AT THE CENTRAL  
EXPERIMENTAL FARM, OTTAWA,  
ONTARIO, CANADA; BULLETIN NO.2,  
SECOND SERIES, JUNE, 1899**

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**W. T. MACOUN & WM. SAUNDERS**

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Deciduous Trees and Shrubs in the Arboretum at the Central Experimental Farm.

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CENTRAL EXPERIMENTAL FARM, DEPARTMENT OF AGRICULTURE

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CATALOGUE

OF THE

TREES AND SHRUBS

IN THE

ARBORETUM AND BOTANIC GARDEN

AT THE

CENTRAL EXPERIMENTAL FARM

OTTAWA, ONTARIO, CANADA

BY

WM. SAUNDERS, LL.D., F.R.S.C., F.L.S.,  
*Director Experimental Farms*

AND

W. T. MACOUN, *Horticulturist of Central Experimental Farm  
and Curator of Arboretum and Botanic Garden*

BULLETIN No. 2, SECOND SERIES, JUNE, 1899

Bulletins of the Second Series treat of such subjects as are of interest to a limited class of readers and will be mailed only to those to whom the information is likely to be useful. Copies may, however, be obtained by any one desiring them on application to the Director of Experimental Farms.

[Published by Direction of the Hon. Sydney A. Fisher, Minister of Agriculture.]

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OTTAWA  
GOVERNMENT PRINTING BUREAU  
1899

To the Honourable  
The Minister of Agriculture.

SIR,—I have the honour to submit for your approval a catalogue of the trees and shrubs which have been tested in the Arboretum and Botanic Garden at the Central Experimental Farm during the past ten years, prepared jointly by Mr. W. T. Macoun, Horticulturist and Curator of the Arboretum, and myself. In the compilation of this work the chief part of the labour has fallen on Mr. Macoun, who has also taken most of the notes on the relative hardiness of the species.

In this list the species and varieties have been arranged alphabetically, under their scientific names, and in all cases where common names could be found, these also have been given, with the name of the country from whence the different species and varieties have been obtained.

It is hoped that the information presented in this work will be found helpful to all lovers of trees and shrubs in this country; that it may assist in the correct naming of varieties and may be the means of bringing such useful and hardy species as are deserving of more general cultivation into greater prominence. It will also no doubt assist in giving correct ideas to all who may be interested in this subject, both at home and abroad, as to the true character of the climate of this part of the Dominion.

I have the honour to be  
Your obedient servant,

WM. SAUNDERS,  
*Director Experimental Farms.*

OTTAWA, 20th June, 1899.





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By WM. SAUNDERS, LL.D., DIRECTOR OF EXPERIMENTAL FARMS,  
And W. T. MACOUN, HORTICULTURIST OF CENTRAL EXPERIMENTAL  
FARM AND CURATOR OF ARBORETUM AND BOTANIC GARDEN.

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When the Central Experimental Farm was established at Ottawa, in 1886, it was decided that a portion of the land purchased, consisting of sixty-five acres out of a total of four hundred and sixty-five, should be devoted to the purposes of an Arboretum and Botanic Garden, where trees, shrubs and plants from all parts of the world could be brought together and tested as to their hardiness and adaptability to this climate.

Work was begun on the Experimental Farm in the spring of 1887, but the first planting in the Arboretum and Botanic Garden was not done until the autumn of 1889. During that season 200 species of trees and shrubs were planted, two specimens of each, grouped in their natural orders. In planting these they were placed at such distances from each other as was thought would be sufficient to permit of the full growth and development of the individual specimens. Many additions were made from year to year, and in 1894 the collection contained about 600 species and varieties. Up to that time this part of the work had been in charge of Dr. James Fletcher, Botanist and Entomologist of the Dominion Experimental Farms, under whose care great progress had been made. In the spring of 1895, at the request of Dr. Fletcher, a change was made and the Botanic Garden and Arboretum was placed in charge of Mr. W. T. Macoun, who was then the Director's Assistant and Foreman of Forestry. In the spring of 1898 Mr. Macoun was appointed Horticulturist of the Central Experimental Farm and Curator of the Arboretum and Botanic Garden, and under his energetic management, aided by such advice and oversight as the Director has been able to give, this collection has been rapidly increased. The total number of species and varieties which have been, or are now, under test, all of which are referred to in the accompanying catalogue, is 3,071. Of these, 1,465 have been found hardy, 330 half hardy, 229 tender, 307 have been winter killed, and 740 have not been planted long enough to admit of an opinion being given as to their hardiness. Where they have been tested one or more winters an opinion has been expressed on this point based on the experience had. Those which

have passed through one or more winters uninjured, or with very slight injury to the tips only of the branches, have been pronounced hardy; where the new wood has been killed back from one-fourth to one half its growth, such are said to be half hardy, and those which have had their wood killed in winter to the snow line or to the ground have been noted as tender. Where the experience of one winter only has been had, the conclusions reached can only be regarded as tentative, and may require modification in future.

In the catalogue the botanical names of the trees and shrubs are arranged alphabetically, and where a species or variety has a common name this also is given. The countries are named of which the trees and shrubs are native, also the year in which they were planted. In compiling this work the nomenclature and classification of the "Index Kewensis" and the "Kew Guide" have been adopted. The name of the species or variety is printed in bold faced type, followed by the author's name in small capitals. The term *Hort.* indicates a garden or gardener's variety. Synonyms of genera and species are printed in italics. The common names given are those found in the leading botanical works of modern authors.

While a large number of synonyms have been recorded, it is probable that there are still included in this catalogue some which are listed as species or varieties which are really synonyms. In recording the synonyms the names given are only those under which the species or varieties have been received at the Experimental Farm and do not include all the known synonyms in each case. There has not yet been time to carefully identify every species and variety under test, and it is quite probable that there may be some among them wrongly named. Any botanists who are making a special study of any family or genus would confer a great favour on the authors if they would kindly note any apparent inaccuracies and report them so that such errors may be rectified.

The Arboretum at the Central Experimental Farm is now much visited and an increasing interest manifested in the progress of the work by botanists as well as by the general public. It is hoped that this catalogue will be useful to visitors as a handbook and that its distribution among botanists and others specially interested in the growth of trees and shrubs in this country and abroad will convey much information as to the relative hardiness of species in this part of Canada and at the same time give correct ideas as to the character of the climate in this part of the Dominion.

## CATALOGUE

OF

## TREES AND SHRUBS

### ACANTHOPANAX.

- 1.—*A. aculeatum*, SEEM. South Asia.  
Planted, 1897. Winter killed.  
*A. pentaphyllum* = *A. spinosum*, Miq.
- 2.—*A. ricinifolium*, SEEM. China and Japan.  
Planted, 1890. Hardy.
- 3.—*A. sessiliflorum*, SEEM. China.  
*Syn.*, *Panax sessiliflorum*, Rupr. & Maxim.  
Planted, 1896. Half hardy.
- 4.—*A. spinosum*, Miq. China and Japan.  
*Syn.*, *A. pentaphyllum*.  
Planted, 1897. Half hardy.
- 5.—*A. spinosum*, fol. albo-marginatis.  
*Syn.*, *A. pentaphyllum* fol. variegatis.  
Planted, 1896.

### ACER—MAPLE.

- 6.—*A. argutum*, MAXIM. Japan.  
Planted, 1896. Winter killed.  
*A. californicum*, Dietr. = *A. Negundo californicum*.
- 7.—*A. campestre*, L.; SYME. Common European Maple. Europe, West Asia.  
Planted, 1896. Usually half hardy. Some individuals hardy.
- 8.—*A. campestre austriacum*.  
*Syn.*, *A. campestre tauricum*.  
Planted, 1896. Half hardy.  
*A. campestre* fol. argenteis marginatis = *A. campestre variegatum*.
- 9.—*A. campestre hebecarpum*.  
Planted, 1895. Hardy.
- 10.—*A. campestre pendulum* fol. maculatis.  
Planted, 1897. Half hardy.
- 11.—*A. campestre pulverulentum*.  
Planted, 1896. Hardy.  
*A. campestre tauricum* = *A. campestre austriacum*.
- 12.—*A. campestre variegatum*. Variegated European Maple.  
*Syn.*, *A. campestre* fol. argenteis marginatis.  
Planted, 1896. Half hardy.
- 13.—*A. capillipes*, MAXIM. Japan.  
Planted, 1896. Winter killed.

### ACER—MAPLE—Continued.

- 14.—*A. circinatum*, PURSH. Vine Maple. British Columbia, California.  
Planted, 1894. Half hardy. Some specimens hardy.
- 15.—*A. circumbolatum*, MAXIM. Japan.  
Planted, 1897. Tender.
- 16.—*A. cissifolium*, C. KOCH. Japan.  
Planted, 1897. Tender.
- 17.—*A. crataegifolium*, SEEM & ZUCC. Japan. Thorn-leaved Maple.  
Planted, 1897. Winter killed.
- 18.—*A. dasycarpum*, EHRH. White or Silver Maple. Eastern North America.  
*Syn.*, *A. eriocarpum*, Michx.  
Planted, 1890. Hardy.
- 19.—*A. dasycarpum* Arbuseula.  
Planted, 1897. Hardy.
- 20.—*A. dasycarpum* fol. albo-variegatis.  
Planted, 1896. Hardy.
- 21.—*A. dasycarpum* fol. aureo-variegatis.  
Planted, 1896. Died to near ground, but probably not tender.
- 22.—*A. dasycarpum heterophyllum*.  
Planted, 1893. Hardy.
- 23.—*A. dasycarpum laciniatum* Wieri.  
Wier's Cut-leaved Maple.  
Planted, 1890. Hardy.
- 24.—*A. dasycarpum longifolium*.  
Planted, 1897. Hardy.
- 25.—*A. dasycarpum lutescens*.  
Planted, 1891. Hardy.
- 26.—*A. dasycarpum macrophyllum*.  
Planted, 1896. Hardy.
- 27.—*A. dasycarpum monstrosum*.  
Planted, 1896. Hardy.
- 28.—*A. dasycarpum pendulum*.  
Planted, 1897. Hardy.
- 29.—*A. dasycarpum pulverulentum*.  
Planted, 1897. Hardy.
- 30.—*A. dasycarpum pyramidale*. Pyramidal Silver Maple.  
Planted, 1896. Hardy.
- 31.—*A. dasycarpum tripartitum*.  
Planted, 1893. Hardy.