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ARNOLDIA



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TRIAL PLOT FOR STREET TREES

DURING the spring of 1951 a trial plot of eighty small ornamental trees was planted on the Case Estates of the Arnold Arboretum in Weston (see *Arnoldia* 16: (3) 9-15, 1956). A few of these were not happy in their location and promptly died, or did so poorly as to warrant their removal. A few new varieties were added to the original group, but for the most part these trees have been growing there since the trial plot was first laid out. The collection has been of special interest to home owners in the suburban areas of Boston, who naturally are interested in small ornamental trees. It has also been of considerable interest to the tree wardens of various towns throughout New England, for here one may see many of the best small trees growing side by side, so that comparisons can be easily made.

Recently this plot has been of interest to the Electric Council of New England, a group of utility companies which provide various electric services for the public in addition to stringing electric lines for these services. When the right kinds of trees are planted properly in the right places along the streets and highways, there need be but little competition between the trees and the wires. Today these companies are employing arborists to help the public in this very type of intelligent planting. As an outgrowth of this new interest on the part of the electric companies, a booklet was published in 1960 by the Electric Council of New England. This is entitled, "Trees in Your Community," and 150,000 copies have already been distributed throughout the New England area. A few copies are still available and may be obtained from the local member electric companies of the Electric Council of New England.

While the booklet was in process of preparation the Arnold Arboretum was asked to make suggestions as to the trees which should appear in the final list. After the booklet was published and widely distributed, Mr. George Wignot of the Boston Edison Company requested the Arboretum to consider the possibility of adding to our Trial Plot of Street Trees those mentioned in the booklet which

[1]



were not already growing in this plot. Stimulated by this interest on the part of the Boston Edison Company and aided in acquiring some of the trees which we did not have, we enlarged this trial plot so that with the exception of four, it now includes all of the trees recommended in the booklet. Those four will be added as soon as they can be obtained.

Some of the trees growing in this plot since 1951 are now excellent specimens; those just planted last fall need a year or two of growth to demonstrate their true worth. In any event, the following list indicates the trees now growing in the trial plot. They include all but four of those in the booklet, "Trees in Your Community," plus seventy others which have merit under certain specific conditions. Three-fourths of them are under thirty-five feet in height, excellent subjects either as ornamentals on the small lot or as street trees.

All in all, 109 species and varieties of trees are now growing in this Trial Plot. Since these are among the best deciduous trees available for ornamental planting, every home owner and tree warden might gain much information by visiting this plot at some time during the year. On page 8 of this bulletin there is a map showing the location of the Trial Plot for Street Trees, on the grounds of the Case Estates of the Arnold Arboretum in Weston. This Plot in Weston is off Wellesley Street which runs between Routes 20 and 30.

Rows are numbered from the road bordering this plot, the first numbers being at the southeast or Wellesley Street end of the rows.

* = Trees under 25 feet tall at maturity.

‡ = Trees over 35 feet tall at maturity.

× = Hybrid.

		<i>Row</i>	<i>Plant</i>
*Acer campestre	Hedge Maple	6	2
— carpinifolium	Hornbeam Maple	5	11
*— ginnala	Amur Maple	2	1
*— griseum	Paperbark Maple	2	3
‡— pseudoplatanus	Sycamore Maple	6	4
— rufinerve	Redvein Maple	5	10
— tataricum	Tatarian Maple	3	4
*— triflorum	Threeflower Maple	5	2; 9
*— truncatum	Purpleblow Maple	5	16
‡— platanoides 'Columnare'	Columnar Norway Maple	3	5
‡— rubrum 'Columnare'	Columnar Red Maple	3	7
‡— platanoides 'Erectum'	Erect Norway Maple	3	6
‡— platanoides 'Fassen's Black'	Fassen's Black Maple	4	22
*— platanoides 'Globosum'	Globe Norway Maple	2	5
*— saccharum 'Globosum'	Globe Sugar Maple	2	6
‡— saccharum 'Temples' Upright'	Temples' Upright Maple	3	8
Amelanchier laevis	Allegheny Serviceberry	3	18

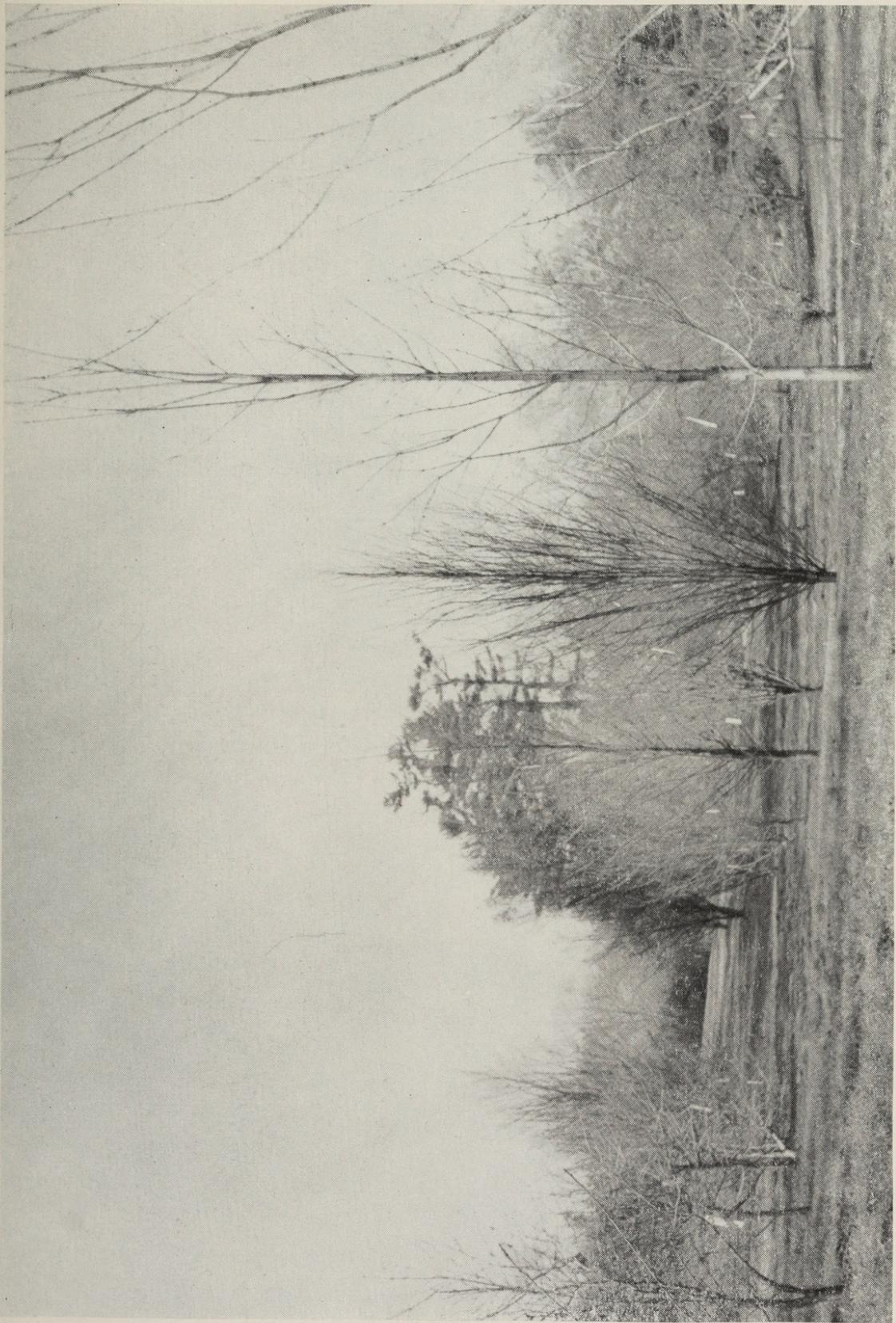


PLATE I

Part of the Trial Plot for Street Trees on the Case Estates of the Arnold Arboretum in Weston, Mass. (See map, p. 8).
One hundred and nine species and varieties are growing here.

		<i>Row</i>	<i>Plant</i>
	Betula pendula 'Fastigiata'		Pyramidal European Birch 3 14
	*Caragana arborescens 'Pendula'		Weeping Siberian Pea-tree 5 17
	‡Carpinus betulus		European Hornbeam 6 6
	‡— cordata		Heartleaf Hornbeam 4 3
	‡— japonica		Japanese Hornbeam 4 4
	— betulus 'Fastigiata'		Pyramid European Hornbeam 3 9
	Carpinus caroliniana 'Pyramidalis'		Pyramid American Hornbeam 3 10
	‡Cercidiphyllum japonicum		Katsura Tree 3 11
	Cercis canadensis		Eastern Redbud 2 11
	Chionanthus retusus		Chinese Fringetree 2 10
	— virginicus		Fringetree 2 9
	‡Cladrastis lutea		American Yellow-wood 6 5
	Cornus florida		Flowering Dogwood 2 7
	*— kousa chinensis		Chinese Dogwood 2 2
	*— mas		Cornelian Cherry 4 11
	— florida 'Fastigiata'		Upright Flowering Dogwood 3 12
	Crataegus crus-galli		Cockspur Thorn 3 2
	— flava		Yellow Hawthorn 3 19
×	— lavalleyi		Lavalle Hawthorn 2 16
	— monogyna inermis		Thornless Hawthorn 5 3
	— nitida		Glossy Hawthorn 4 2
	— phaenopyrum		Washington Hawthorn 3 20
	— punctata		Dotted Hawthorn 3 1
	— 'Autumn Glory'		Autumn Glory Hawthorn 4 23
	— phaenopyrum 'Fastigiata'		Pyramidal Washington Hawthorn 3 13
	— monogyna 'Stricta'		Pyramidal Singleseed Hawthorn 3 3
	*Elaeagnus angustifolia		Russian Olive 4; 5 21; 21
	*Evodia daniellii		Korean Evodia 4 5
	‡Fraxinus ornus		Flowering Ash 6 4
	‡Ginkgo biloba 'Fastigiata'		Sentry Ginkgo 3 15
	‡Gleditsia triacanthos inermis		Thornless Honey-locust 6 17
	*— — 'Elegantissima'		Bushy Honey-locust 5 7
	Halesia carolina		Carolina Silverbell 2 12
	‡— monticola rosea		Pink Mountain Silverbell 5 13
	Koelreuteria paniculata		Golden-rain Tree 4 18
	Laburnum alpinum		Scotch Laburnum 2 14
	— anagyroides semperflorens		Autumn Goldenchain 2 15
×	‡Magnolia loebneri		Loebner Magnolia 4 10
×	*Malus arnoldiana		Arnold Crab Apple 1 5



PLATE II

Pin Oak (on the right of this road) used as a street tree along the Veterans of Foreign Wars Parkway near the Arnold Arboretum.

		Row	Plant
* <i>Malus prunifolia</i> rinki	Chinese Pearleaf Crab Apple	1	9
‡— <i>pumila</i> niedzwetzkyana	Redvein Crab Apple	1	14
×*— <i>purpurea</i>	Purple Crab Apple	1	7
×*— <i>robusta</i>	Cherry Crab Apple	1	15
×*— ‘Almey’	Almey Crab Apple	1	13
×*— ‘Case Seedling’	Case Seedling Crab Apple	1	11
×*— ‘Crimson Brilliant’	Crimson Brilliant Crab Apple	1	12
×*— ‘Dolgo’	Dolgo Crab Apple	1	6
*— <i>purpurea</i> ‘Eleyi’	Eley Crab Apple	1	8
×*— ‘Hopa’	Hopa Crab Apple	1	16
×*— ‘Jay Darling’	Jay Darling Crab Apple	1	10
×*— ‘Katherine’	Katherine Crab Apple	1	3
*— <i>purpurea</i> ‘Lemoinei’	Lemoine Purple Crab Apple	1	4
×*— ‘Pink Weeper’	Pink Weeper Crab Apple	1	2
×*— ‘Oekonomierat Echtermeyer’		1	1
‡ <i>Nyssa sylvatica</i>	Black Tupelo	6	9
‡ <i>Ostrya virginiana</i>	Hop Hornbeam	5	20
‡ <i>Oxydendrum arboreum</i>	Sourwood	6	1
‡ <i>Phellodendron amurense</i>	Amur Cork Tree	6	14
×‡ <i>Platanus acerifolia</i>	London Plane Tree	6	8
‡ <i>Prunus sargentii</i>	Sargent Cherry	5	4
— <i>subhirtella autumnalis</i>	Autumn Higan Cherry	6	16
*— <i>serrulata</i> ‘Amanogawa’	Amanogawa Oriental Cherry	5	8
*— <i>cerasifera</i> ‘Atropurpurea Veitchii’	Veitch Pissard Plum	4	20
*— <i>serrulata</i> ‘Botan Zakura’	Botan Zakura Oriental Cherry	4	7
— <i>sargentii</i> ‘Columnaris’	Columnar Sargent Cherry	3	16
*— <i>serrulata</i> ‘Joi Nioi’	Joi Nioi Oriental Cherry	4	8
*— — ‘Kwanzan’	Kwanzan Oriental Cherry	5	6
*— — ‘Ojochin’	Ojochin Oriental Cherry	5	12
*— <i>virginiana</i> ‘Shubert’	Shubert Chokecherry	5	5
‡ <i>Quercus palustris</i>	Pin Oak	6	11
‡— <i>robur</i> ‘Fastigiata’	Pyramidal English Oak	3	17
* <i>Rhamnus koraiensis</i>	Korean Buckthorn	4	17
‡ <i>Sophora japonica</i>	Japanese Pagoda Tree	6	10
‡ <i>Sorbus alnifolia</i>	Korean Mountain-ash	4	1
— <i>arnoldiana</i>	Arnold Mountain-ash	4	16
‡— <i>aucuparia</i>	European Mountain-ash	5	18
‡— — <i>asplenifolia</i>	Cutleaf European Mountain-ash	2	8
— <i>discolor</i>	Snowberry Mountain-ash	5	19
*— <i>folgneri</i>	Folgner Mountain-ash	2	13

		<i>Row</i>	<i>Plant</i>
Sorbus aucuparia 'Fastigiata'	Upright European Mountain-ash	4; 5	15; 14
*— decora 'Nana'	Dwarf Showy Mountain-ash	5	1
‡Stewartia koreana	Korean Stewartia	4	12
Syringa amurensis	Amur Lilac	2	4
‡Tilia cordata	Little-leaf Linden	6	12
× ‡— euchlora	Crimean Linden	6	13
— americana 'Fastigiata'	Upright American Linden	4	6
‡Ulmus parvifolia	Chinese Elm	4	13
‡— americana 'Augustine'	Augustine Elm	4	19
*Viburnum prunifolium	Blackhaw	4	14
— rufidulum	Southern Blackhaw	4	9
‡Zelkova serrata	Japanese Zelkova	6	18

DONALD WYMAN

THE CASE ESTATES OF THE ARNOLD ARBORETUM WESTON, MASSACHUSETTS

76.35
100 200 300
Scale in feet
Total Area 112.5 Acres
Jan. 1, 1963

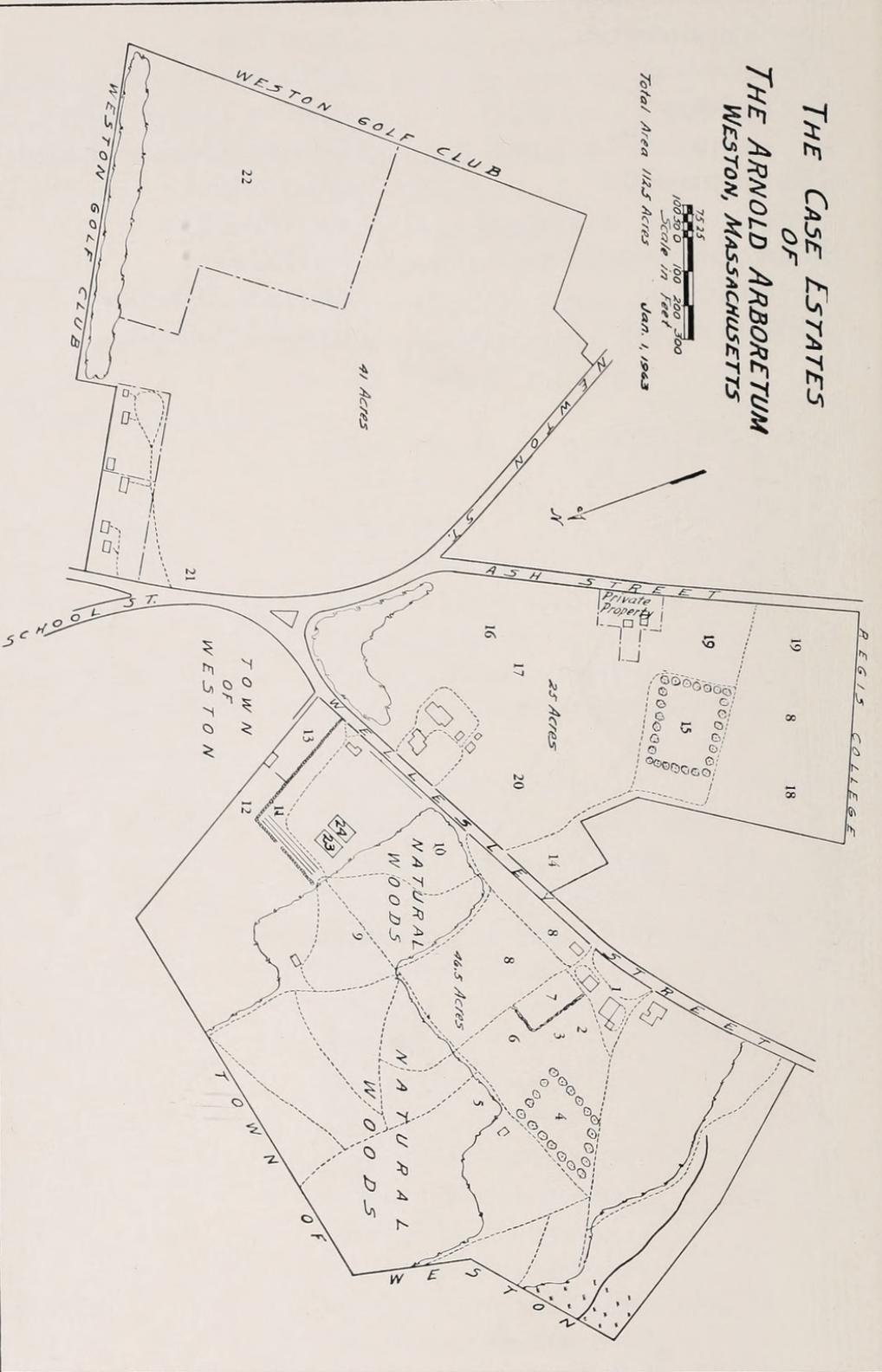


PLATE III

- 1 Barn, 135 Wellesley St. 2 Cold Frames. 3 Young Plant House. 4 Malus sikkimensis Orchard. 5 Holly Collection.
- 6 Evergreen Nursery. 7 Ericaceous Nursery. 8 Nursery. 9 Woods Path. 10 Rhododendrons. 11 Vine Trellis.
- 12 Trial Plot for Street Trees. 13 Ground Cover Plots. 14 Perennial and Small Shrub Garden. 15 Orchard. 16 Beach Plum Collection. 17 Dwarf Fruit Trees. 18 Permanent Berry and Currant Collection. 19 Permanent Shrub Testing Plot. 20 Shrub Experimental Plot. 21 Oriental Crab Apples. 22 Cabot Foundation Experimental Plot.
- 23 Daffodil Trial Plots (in cooperation with the New England Daffodil Society). 24 Lily Trial Plots (in cooperation with the New England Regional Lily group).



Wyman, Donald. 1963. "Trial Plot for Street Trees." *Arnoldia* 23(1), 1–8.

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