

Supplementary material for:

**Fricker, R. et al.** (2023) Establishing a Phenology Research Project at Cambridge University Botanic Garden – Presentation of early findings. *Nature in Cambridgeshire*. **65**: 66-71

**Table 1:** Summary of species recorded

Latin name	Common name	Native	Replicates	Recording began:
<i>Acer campestre</i>	Field Maple	Yes	2	Autumn 2020
<i>Acer palmatum</i> 'Osakazuki'	Japanese Maple		3	Autumn 2020
<i>Acer pseudoplatanus</i>	Sycamore	Yes	1	Autumn 2020
<i>Aesculus californica</i>	Californian Chestnut		1	Spring 2022
<i>Aesculus hippocastanum</i>	Horse-Chestnut	Yes	1	Autumn 2020
<i>Aesculus indica</i>	Indian Horse-Chestnut		1	Autumn 2020
<i>Albizia julibrissin</i> 'Rosea'	Persian Silk tree		2	Spring 2022
<i>Alnus glutinosa</i>	Alder	Yes	3	Autumn 2020
<i>Arbutus unedo</i>	Strawberry tree		1	Spring 2022
<i>Betula pendula</i> subsp. <i>pendula</i>	Silver Birch	Yes	1	Autumn 2020
<i>Betula pubescens</i> var. <i>pubescens</i>	Downy Birch	Yes	1	Autumn 2020
<i>Catalpa</i> × <i>erubescens</i> 'Purpurea'	Indian Bean tree (purple)		1	Spring 2022
<i>Catalpa speciosa</i>	Indian Bean tree		1	Autumn 2020
<i>Cercidiphyllum japonicum</i> 'Pendula'	Katsura tree		1	Spring 2022
<i>Cercis siliquastrum</i>	Judas tree		1	Spring 2022
<i>Cornus mas</i>	Cornelian Cherry		3	Spring 2022
<i>Correa backhouseana</i> × <i>C. alba</i>	Australian Fuchsia		1	Spring 2022
<i>Corylus avellana</i>	Hazel	Yes	1	Autumn 2020
<i>Crataegus monogyna</i>	Hawthorn	Yes	4	Autumn 2020
<i>Davidia involucrata</i>	Handkerchief tree		2	Spring 2022
<i>Emmenopterys henryi</i>	Man Yang tree		1	Spring 2022
<i>Fagus sylvatica</i> 'Dawycyk'	Beech	Yes	1	Autumn 2020
<i>Forsythia</i> × <i>intermedia</i>	Border Forsythia	Yes	1	Spring 2022
<i>Ginkgo biloba</i>	Maidenhair tree		2	Autumn 2020
<i>Ilex aquifolium</i>	Holly	Yes	1	Autumn 2020
<i>Larix decidua</i>	Common Larch	Yes	2	Autumn 2020
<i>Lathraea clandestina</i>	Purple Toothwort		1	Spring 2022
<i>Lathraea squamaria</i>	White Toothwort		1	Spring 2022
<i>Liquidambar styraciflua</i> 'Worplesdon'	Sweet Gum		2	Autumn 2020
<i>Liriodendron chinense</i>	Chinese Tulip tree		1	Autumn 2020
<i>Liriodendron tulipifera</i>	Tulip tree		1	Autumn 2020
<i>Magnolia</i> × <i>soulangeana</i>	Saucer Magnolia		3	Spring 2022
<i>Magnolia denudata</i>	Yulan magnolia		2	Autumn 2020
<i>Magnolia sprengeri</i> 'Diva'	Sprenger's Magnolia		1	Spring 2022
<i>Malus transitoria</i>	Crab Apple		1	Spring 2022
<i>Metasequoia glyptostroboides</i>	Dawn Redwood		1	Autumn 2020
<i>Parrotia persica</i>	Persian Ironwood		1	Autumn 2020
<i>Philadelphus coronarius</i>	Sweet Mock Orange		2	Spring 2022
<i>Poliiothyrsis sinensis</i>	Chinese Pearlbloom		1	Spring 2022
<i>Prunus</i> × <i>incam</i> 'Okame'	Taiwan Cherry		1	Spring 2022
<i>Prunus</i> × <i>yedoensis</i>	Yoshino Cherry		2	Autumn 2020
<i>Prunus cerasifera</i> f. <i>cerasifera</i> [Red-fruited form]	Cherry Plum	Yes	1	Spring 2022
<i>Prunus padus</i> 'Watereri'	Bird Cherry	Yes	2	Spring 2022
<i>Prunus spinosa</i>	Blackthorn	Yes	1	Autumn 2020
<i>Quercus petraea</i>	Sessile Oak	Yes	1	Autumn 2020

<i>Quercus robur</i>	English Oak	Yes	1	Autumn 2020
<i>Quercus velutina</i>	Black Oak		1	Autumn 2020
<i>Ribes sanguineum</i>	Flowering Currant		3	Spring 2022
<i>Sambucus nigra</i>	Elderflower	Yes	1	Autumn 2020
<i>Sorbus aucuparia</i>	Rowan	Yes	2	Autumn 2020
<i>Sorbus intermedia</i>	Swedish Whitebeam		1	Spring 2022
<i>Staphylea colchica</i>	Ivory-flowered Bladdernut		2	Spring 2022
<i>Styphnolobium japonicum</i>	Japanese Pagoda tree		2	Spring 2022
<i>Syringa tomentella</i> subsp. <i>sweginzowii</i>	Chengtuo Lilac		1	Spring 2022
<i>Syringa vulgaris</i>	Common Lilac	Yes	1	Autumn 2020
<i>Tilia × europaea</i>	Common Lime	Yes	1	Autumn 2020
<i>Wisteria sinensis</i>	Chinese Wisteria		1	Spring 2022
<i>Xanthoceras sorbifolium</i>	Shinyleaf Yellowhorn		3	Spring 2022

**Table 2:** Percent leaf loss of 35 individual plants in mid-November of successive years 2020-2022

Specimen	Percent leaf loss		
	13/11/2020	12/11/2021	11/11/2022
<i>Acer campestre</i> 19760104A	100	25	70
<i>Acer palmatum</i> 'Osakazuki' 20010144B	80	10	5
<i>Acer pseudoplatanus</i> 10005825A	90	3	10
<i>Aesculus hippocastanum</i> 10006065B	100	90	100
<i>Aesculus indica</i> 19480162A	10	3	*
<i>Alnus glutinosa</i> 19522843A	40	3	10
<i>Alnus glutinosa</i> 19522843B	40	3	*
<i>Alnus glutinosa</i> 19522846B	30	5	5
<i>Betula pendula</i> subsp. <i>Pendula</i> 19522848C	50	50	30
<i>Betula pubescens</i> var. <i>pubescens</i> 19522849B	40	10	10
<i>Catalpa speciosa</i> 10005873A	100	30	90
<i>Corylus avellana</i> 10006255A	75	5	20
<i>Crataegus monogyna</i> 20110585A	100	98	*
<i>Fagus sylvatica</i> 'Dawyck' 19574796A	95	30	30
<i>Ginkgo biloba</i> 10005345A	30	5	95
<i>Ginkgo biloba</i> 19870040A	10	15	90
<i>Ilex aquifolium</i> 10006663B	0	0	*
<i>Larix decidua</i> 10005828B	30	5	5
<i>Larix decidua</i> 19641642A	30	10	20
<i>Liquidambar styraciflua</i> 1991207A	95	30	70
<i>Liquidambar styraciflua</i> 19930607A	95	80	95
<i>Liriodendron chinense</i> 19841318A	100	90	100
<i>Liriodendron tulipifera</i> 10005856A	95	10	90
<i>Magnolia denudata</i> 19950390A	95	15	80
<i>Metasequoia glyptostroboides</i> 19895001A	100	3	50
<i>Parrotia persica</i> 10006008A	70	30	70
<i>Prunus spinosa</i> 197502271	100	*	90
<i>Prunus x yedoensis</i> 19970520A	95	75	70
<i>Quercus petraea</i> 10005612A	100	45	40
<i>Quercus robur</i> 10005826A	50	*	20
<i>Quercus velutina</i> 19900938A	95	60	95
<i>Sambucus nigra</i> 10006787A	95	90	80
<i>Sorbus aucuparia</i> 197021168A	60	80	50
<i>Syringa vulgaris</i> 19762623A	95	85	95
<i>Tilia x europaea</i> 18460001A	100	75	50

Key: \*, no data recorded.