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# ***Timing and abundance of flowering and fruiting in the Hørsholm Arboretum from September 2003 to October 2004***

*Jerry W. Leverenz , Katrine Hauberg Nielsen, Birgitte Jacobsen*



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**Author**

Jerry W. Leverenz, Katrine Hauberg Nielsen and Birgitte Jacobsen

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*Forest & Landscape Denmark* (FLD)

Hørsholm Kongevej 11

DK-2970 Hørsholm

Tel. +45 3528 1500

E-mail. sl@kvl.dk

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# Introduction

The Royal Veterinary and Agricultural University (KVL) Arboretum in Hørsholm (55°52' N, 12°30' E) has an extensive collection of woody plant species of known origin. There are approximately 2200 woody plant taxa in the collection, representing 295 genera and 101 plant families. Among other things this collection is used to study how plants from different parts of the world thrive in response to the Danish climate. To support such studies it is important to record if and when they can produce flowers, and fruits (nuts or cones). We can not say we truly understand how a given plant species is functioning in the Danish environment, if we lack this fundamental information on the potential for sexual reproduction.

Unfortunately we have almost totally lacked such information for the plants in the Arboretum in Hørsholm. The only systematic record we have from our collections are the handwritten notes in our archives on selected tree species made between 1867 and 1926 in the Forest Botanic Garden in Charlottenlund. Some of this data is summarized in Table 1. There is also a set of data on trees used by the forest geneticists at the Arboretum, but this data is limited to a handful of common forest tree species. It is also possible to find sporadic records which indicate that certain plants have produced viable offspring by sexual reproduction.

Other information on flowering dates of woody plants in Denmark can be found in books, such as those by Olsen *et al.*, (1997) and Møller and Staun (2001), but this information is also incomplete. These sources do not cover many of the rarer species found in the Arboretum's collection, some of which have the potential to become popular park or garden plants. More information can be found for other countries, particularly Great Britain and U.S.A. Unfortunately, dates and abundance of flowering and fruiting vary strongly with climate. So these references can not be relied upon when applied to Denmark. For example *Hamamelis japonica* or *H. mollis* typically flowers at Christmas in Kew Gardens, London, England where flowering typically begins in February in Denmark.

Knowledge about flowering and fruiting if recorded systematically would help us advise professional and amateur gardeners who wish to develop planting schemes for gardens and parks. Furthermore, often gardeners just wish to know when is the best time to visit the Arboretum. For example, people often ask when is the best time to see rhododendrons in flower. After this study it is possible to give them an answer (Figure 1).

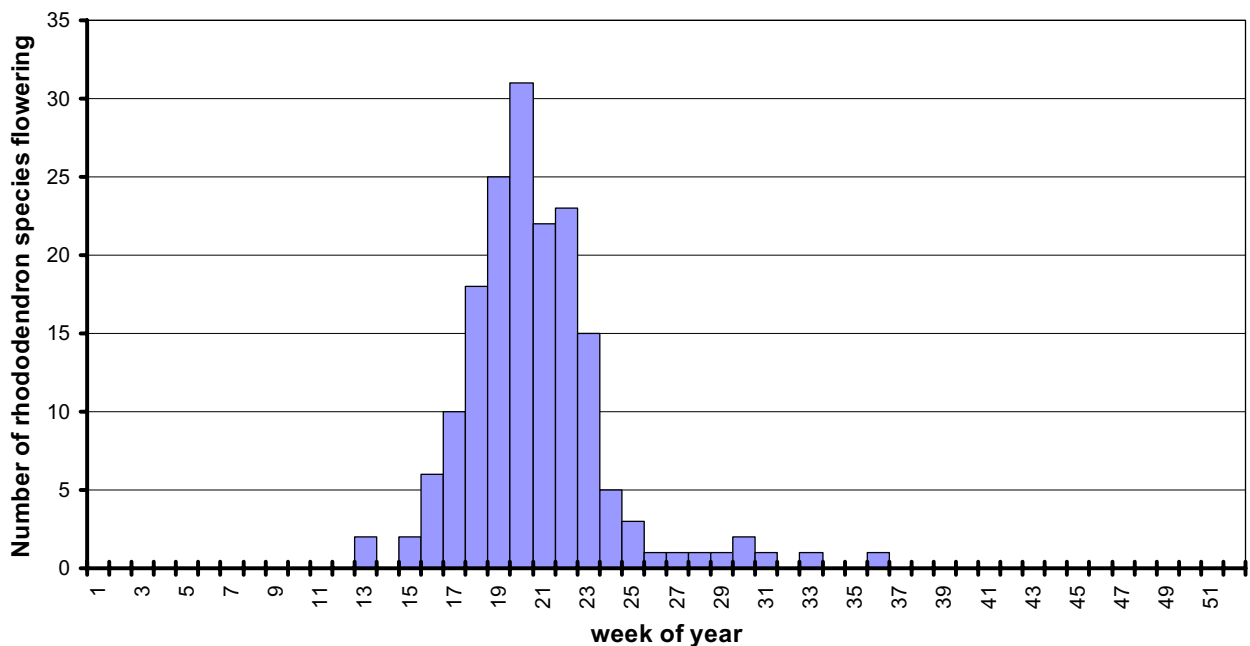
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**Key words:** flowering date, flower abundance, fruit maturity date, fruiting abundance.

**Table 1.** Flowering at the Forest Botanic Garden from 1896 to 1908 based on data collected by Georg Syrach Larsen and perhaps others between 1896 to 1908. Records were made after 1908 but are not included because they were incomplete for a number of species. All dates are given as the week of the year so comparisons can be made with the data in the appendix. Note that the earliest and latest flowering of a given species could vary by up to 4 weeks over this period. The number of years where flowering was absent between 1896 and 1908 is given in the fifth column.

SPECIES	1896-1908			Number of years with no flowers
	average	minimum	maximum	
<i>Abies alba</i>	22	21	23	0
<i>Abies balsamea</i>	22	21	23	5
<i>Abies nordmanniana</i>	22	20	24	0
<i>Acer campestre</i>	21	19	23	0
<i>Acer plantanoides</i>	20	19	22	0
<i>Acer pseudoplatanus</i>	22	19	24	7
<i>Betula pubescens</i>	21	19	22	0
<i>Betula pendula</i>	20	19	22	0
<i>Fragus sylvatica</i>	21	19	22	6
<i>Fraxinus excelsior</i>	20	20	21	7
<i>Ilex aquifolium</i>	23	21	24	0
<i>Juniperus communis</i>	24	22	25	9
<i>Picea abies</i>	22	20	23	0
<i>Picea glauca</i>	22	20	23	0
<i>Picea sitchensis</i>	22	20	23	0
<i>Pinus mugo</i>	23	22	25	1
<i>Pinus strobus</i>	24	23	25	7
<i>Pinus sylvestris</i>	24	22	26	0
<i>Populus tremula</i>	18	17	18	3
<i>Pseudotsuga menziesii</i>	21	20	23	2
<i>Quercus robur</i>	22	20	24	0
<i>Quercus petraea</i>	22	20	24	1
<i>Sorbus aucuparia</i>	23	21	25	0
<i>Tilia x europaea</i>	29	29	29	11

Information on the timing and abundance of flowering will also be useful for future research projects. For example in 2005 and 2006 we will study the results from collecting expeditions to Korea and Japan in 1976. Abundance and timing of flowering will be one aspect for judging the vigour and usefulness of the plants from this expedition. In general, information on flowering and fruiting times will be useful for deciding when it is best to take samples for taxonomic studies or herbarium vouchers. It would also help us to plan when it is best to collect pollen for hybridization experiments and to plan tests of pollen and seed viability. We regularly have guests who travel from distant continents in order to take samples in our collection. It is costly if they arrive at the wrong time.



*Figure 1. Number of rhododendron species with individuals reaching 50 % open flowers during given weeks in 2004. Peak flowering occurred in May between weeks 19 and 22. The Arboretum collection contains about 160 different rhododendron species.*

Information about flowering and fruiting also helps the Arboretum live up to its goal to help preserve plant biodiversity. For example it would help us plan the exchange or donation of pollen and seed for the purpose of preserving the genome of plants that are threatened with extinction in the wild. Moreover, as a co-signer of the Convention on Biological Diversity (1993), Denmark should: '...as far as possible and feasible, to prevent the introduction of, and to control and remove alien species which may place at risk ecosystems, habitats and species.' (Article 8h). This objective is not straight forward in part because arguments over what is 'risky' is often emotionally biased or based on a lack of hard facts (see for example Kowarik and Schepker 1998). Some view the introduction of most plant species into Denmark as enriching the landscape and of great benefit. Others view any such introductions as genetic pollution and ethically wrong. Some would argue that only the plants that have migrated into Denmark without the help of man, are 'Danish' and worth protecting, whereas others would argue that the introduced plants are also a definite part of what makes Denmark unique. Whatever one's philosophy,

for both political and scientific reasons it is important to know the potential of the Arboretum's collection to affect both the cultivated and uncultivated landscape of Denmark. This potential is strongly affected by the ability of the plants to produce pollen and seed (Nielsen & Leverenz 2002). It is also dependent on the timing of the pollen and seed production. Only pollen produced at the right time of the year will allow crossing with related species in the surrounding landscape.

To summarise there are many reasons for recording the timing and abundance of flowering and fruiting in the Hørsholm Arboretum. The development of a systematic record of the abundance and timing of flowering and fruiting of the woody plants in the Arboretum in Hørsholm is the main goal of this project. Flower, and fruit production in many woody species occur at different times in different years and furthermore may not occur at all in some years (Table 1 for example). This study covers the first year of this project which was funded in part by the 'Etatsråd Georg Bestle og Hustru's Mindelegat'. The time period for the observations was from 1 September 2003 to 1 October 2004. Funds have been acquired for a second year of study where the observations will be made in 2005.

The data has been added to our computer database and this will put the information virtually 'at our fingertips'. It will allow an efficient transmission of the information to others including the next generation of caretakers and researchers. This data will also be made available on the internet in a more popular form.

## Methods

Although botanists would not call the sexual reproductive organs of gymnosperms 'flowers', we use the term for both gymnosperms and angiosperms for ease of writing. Likewise we use the term fruit in a broad sense.

This project has utilized student helpers to carry out the bulk of the field work and thus was used to play a part in the education of students from KVL. Contact with the Arboretum's living collection over a year has greatly increased their knowledge and appreciation of the many different woody taxa and the variations in their response to the weather.

Two student helpers worked in different periods, along with the Arboretum's curator, Figure 2. Each area of the arboretum was walked through about once every week. Flowering and fruiting dates and abundance were recorded on a list of the plants sorted by their positions in the collection. It took about 2 worker-days per week from March to November. During the three winter months (December, January and February) the students needed less than one day per week, depending on temperature. When temperatures were below freezing no observable flower development occurred. During periods of less abundant flowering and fruit maturation, time was used for checking the data for errors and entering the data into the spreadsheets and database.



*Figure 2. Birgitte Jacobsen checking and recording flowering date and amount, 24 April 2004.*

The original plan was that one student would scan all 10300 plants on the 25 ha site in one day with the occasional help of the curator during periods of heavy flowering or fruiting. That would mean scanning (walking past) about 1400 plants per hour most of which were not flowering on a given day. Time was also needed to judge if flowering was occurring as well as the amount of flowering and to record the observations. A rapid system of assessment was required in order to achieve this speed. So a simple system was developed for registration.

Flowering dates were determined to occur when 50% or more of the flowers on a tree could be seen to have opened. Occasionally it was judged that the flowers had opened the week before and the observation was then backdated. For hermaphroditic plants with separate male and female flowers, flowering date was judged from the male flowers. This was done in most cases by tapping the male flowers or shaking the branches and looking for pollen release. Rainy or humid weather precluded visible pollen release so the appearance of visible stamens was used to determine flowering date on such days. Tall trees were a problem and binoculars were used when available to observe the flowers, however, the tall trees could not be observed with the same accuracy as the plants with flowers near eye level.

Fruiting date was judged by when 50% or more of the fruit had become ripe based on colour. Flowering dates were recorded and subsequently converted to flowering week to reflect the precision of the observations. Each area of the Arboretum was only observed once per week, thus an observation of one plant on a Monday and another on a Friday did not indicate that the latter had flowered 4 days later. It was only an indication of the timing of the observation. Furthermore with so many different species with so different flower morphologies, judging of the precise date of flowering flowers was not always possible. It was especially difficult to accurately judge 50% flower opening in species which flower over an extended period of time or for tall trees.

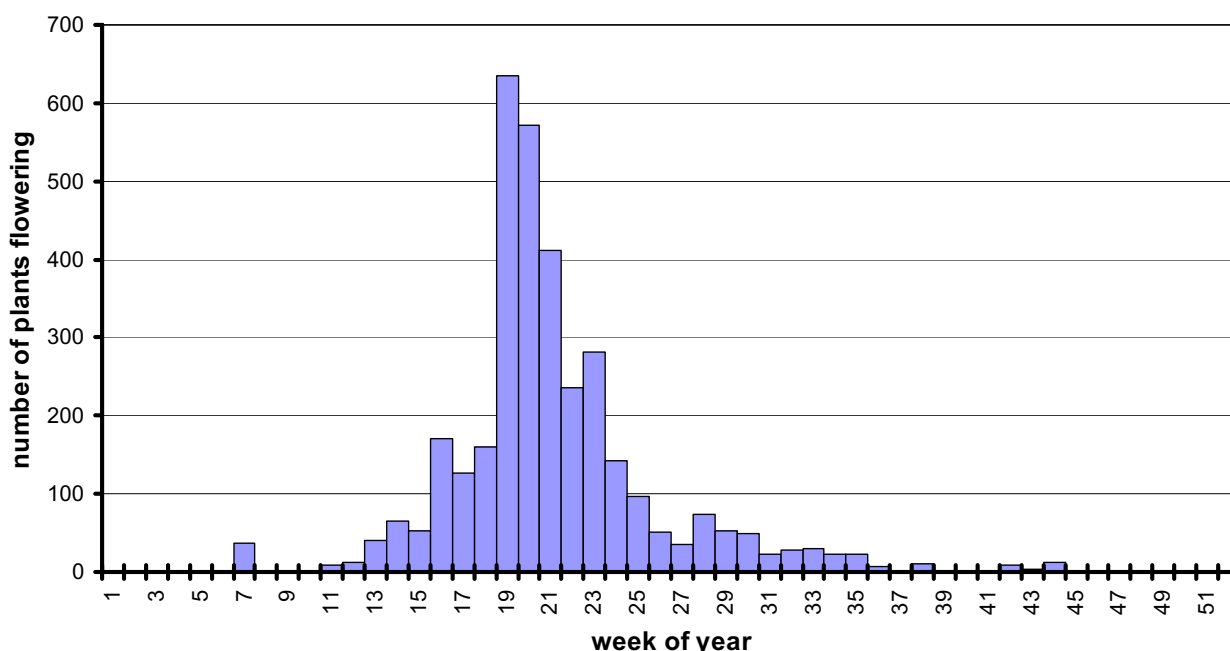


The abundance of both flowers and fruits was registered in the following four abundance classes: 0 to 9 flowers or fruits, gave a score of 1, 10 to 99 a score of 2, 100 to 999 a score of 3, and 1000 or more a score of 4.

## Results and Discussion

About 464 hours were used by the students during this first year of the project. More time should have been allocated for student observation. Two students, each taking half of the Arboretum's collection would have increased accuracy during all but the slow winter months (see below). The flowers of many plants are rather small and lack colour so the observer needed to approach such plants quite closely and this takes time. For this reason, plants with small greenish flowers were probably missed in this first year of the project, while there was not a problem with the plants with showy flowers like the rhododendrons. It is expected that we can be much more efficient in the second year with the knowledge gained in the first year.

A clear drawback with using students, was that peak flowering at the end of May (Figure 3) coincides with the period of student exams. During this period up to about 600 plants needed to be recorded in one week. If two persons were each working for one day, they would have needed to record more than 40 flowering plants per hour. The number of records that could be made per hour were dependent on how scattered the plants were, but clearly more than two worker-days are needed during this period. Because of this, it is recommended that more than two people should be employed during the peak flowering time (weeks 19 to 23).



*Figure 3. Total number of plants flowering per week in the KVL Arboretum collection between 1 September 2003 and 31 September 2004.*

Several errors occurred in this study. As mentioned above, it was difficult to assign a date of flowering for species which flower over an extended period of time, and it was difficult to assign a date of flowering for tall trees. Furthermore, we occasionally noted that the wrong month had been written in the field notebooks. Errors in writing the day of the month were not detected but undoubtedly occurred on occasion and adds to the noise in this dataset. Such errors could be avoided if the observer had had a portable computer in the field and computer program used would automatically write the date of observations. A further source of error no doubt arose from missing labels or mislabelling of plants in the collections. Missing plant labels also increased the time used to register the flowering and fruiting. While we strive to have correct labels on all the plants in the collection, this is not always achieved and this will add some errors in flowering times connected to a particular species in the Arboretum.

In all, flowering was recorded for 3488 different plants, or 1060 different taxa (species and varieties) and 900 different species (see the Appendix). Fruiting was observed on 344 different plants that were not observed to flower, but which must have flowered during 2004. This indicates that in all at least 3832 (3488 + 344) or about 37% of all of the Arboretums 10354 plants flowered in 2004.

There are several reasons why not all plants in the living collection were observed to flower. First, many plants do not flower every year. For example Table 1 indicates only 54% of the species flowered in every year in the Forest Botanic Garden between 1896 and 1908. The data that Table 1 was built on, showed that on average, 80% of these species flowered in any given year while in the poorest year, 1903, only 57% flowered. These are relatively common species in Denmark and would be expected to have a higher rate of flowering than our collection with its large number of experimental species and provenances.

The low fraction of flowering plants could have been caused by sexually immature plants in the collection. In our collection about 86% of the plants are over 10 years old. This gives a very rough estimate that about 14% of the collection consists of immature plants. Multiplying these two factors together gives a flowering fraction of  $0.86 \times 0.80 = 0.69$  on average. For the worst years flowering is predicted to be  $0.86 \times 0.57$  or 49%. The lower flowering per cent of 37% in our study may reflect the experimental nature of the Arboretum's collection and thus a high fraction of mal-adapted plants.

The above low percent of flowering was also a result of flowering plants being overlooked and not recorded. The number of plants that produced fruits but not flowers (344) divided by the total number of plants that were observed to either flower or set fruit (3832) can be used to estimate how many plants were not observed to flower even though they did flower. This ratio shows that at least 9% of the plants that flowered were not recorded as flowering. This is a minimum estimate because less emphasis was placed on recording fruit maturation date because the amount of time needed for observation was underestimated when the project was proposed.

In all 1579 plants were observed to bear mature fruit between 1 September 2003 and 1 October 2004. This is slightly less than half of the number of plants

observed with flowers. Although some of our experimental plants would have flowered but not produced mature fruit in our climate, the number of plants having mature fruit was probably significantly underestimated. All we can say is that more probably more than 45% of the flowering plants in the collection produced at least one mature fruit.

The Appendix lists the sequence of flowering in 2003-2004 on a week by week basis. Flowering dates are given as week number since observations were only made once per week. In this table the mean date of flowering is given for each taxa. Some species like for example *Pinus sylvestris*, with many different climate races was found to reach 50% flowering over an extended period. In this case from week 19 to week 21. Such variation can not be seen in the appendix, but one has to access our database at the Arboretum to extract such information. Flowering dates can also vary from individual to individual within a provenance and this is also not reflected in the Appendix.

Flowering week	Taxa	Avg flower number
1		
2		
3		
4		
5		
6		
7	<i>Hamamelis Xintermedia</i>	3.5
	<i>Hamamelis japonica</i>	3.7
	<i>Hamamelis mollis</i>	3.6
	<i>Hamamelis vernalis</i>	4.0
8		
9		
10		
11	<i>Corylus colurnoides</i> (♀)	4.0
	<i>Hamamelis japonica</i> var. <i>flavo-purpurascens</i>	4.0
	<i>Hamamelis Xintermedia</i> cv. 'Nina'	4.0
	<i>Hamamelis vernalis</i> cv. 'Carnea'	3.5
12	<i>Alnus glutinosa</i>	4.0
	<i>Corylus colurna</i>	4.0
	<i>Corylus sieboldiana</i> var. <i>mandshurica</i>	4.0
	<i>Daphne mezereum</i>	2.3
	<i>Sarcococca humilis</i>	4.0
13	<i>Alnus incana</i>	4.0
	<i>Alnus subcordata</i>	4.0
	<i>Corylus avellana</i>	2.7
	<i>Corylus chinensis</i>	3.0
	<i>Corylus cornuta</i> var. <i>californica</i>	3.8
	<i>Corylus sieboldiana</i>	3.8
	<i>Cryptomeria japonica</i> var. <i>sinensis</i>	3.5

Flowering week	Taxa	Avg flower number
13	<i>Microbiota decussata</i>	2.0
14	<i>Chamaecyparis pisifera</i> cv. 'Plumosa'	4.0
	<i>Corylus americana</i>	2.0
	<i>Corylus avellana</i> cv. 'Contorta'	3.0
	<i>Corylus avellana</i> cv. 'Fuscorubra'	2.0
	<i>Corylus avellana</i> cv. 'Heterophylla'	2.5
	<i>Corylus cornuta</i>	3.3
	<i>Cryptomeria japonica</i>	4.0
	<i>Larix (gmelinii x kaempferi) x gmelinii</i>	4.0
	<i>Platycladus orientalis</i>	3.8
	<i>Sequoiadendron giganteum</i>	3.6
	<i>Taxus baccata</i> (♂)	3.6
	<i>Taxus cuspidata</i> (♂)	3.5
	<i>Thuja koraiensis</i>	4.0
	<i>Thujopsis dolabrata</i>	3.0
15	<i>Acer saccharinum</i>	3.5
	<i>Alnus cordata</i>	4.0
	<i>Alnus rubra</i>	3.9
	<i>Corylopsis coreana</i>	4.0
	<i>Juniperus virginiana</i> cv. 'Crebra' (♂)	4.0
	<i>Larix (gmelinii x kaempferi) x kaempferi</i>	4.0
	<i>Larix decidua</i>	3.8
	<i>Larix gmelinii</i>	4.0
	<i>Larix gmelinii</i> var. <i>principis-rupprechtii</i>	3.1
	<i>Larix kaempferi</i>	4.0
	<i>Larix Xmarschlinsii</i>	4.0
	<i>Salix koriyanagi</i> (♀)	4.0
16	<i>Acer negundo</i> cv. 'Pseudo-Californicum'	4.0
	<i>Acer rubrum</i>	4.0
	<i>Berberis gagnepainii</i>	2.0
	<i>Buxus microphylla japonica</i>	3.7
	<i>Buxus microphylla</i> var. <i>koreana</i>	4.0
	<i>Buxus sempervirens</i>	3.3
	<i>Buxus sempervirens</i> cv. 'Aureo-variegata'	4.0
	<i>Buxus sempervirens</i> cv. 'Macrophylla'	3.7
	<i>Chamaecyparis lawsoniana</i>	4.0
	<i>Chamaecyparis lawsoniana</i> cv. 'Glauca'	4.0
	<i>Chamaecyparis lawsoniana</i> cv. 'Wissellii'	4.0
	<i>Chamaecyparis thyoides</i>	4.0
	<i>Cornus mas</i>	3.7
	<i>Cornus officinalis</i>	4.0
	<i>Corylopsis platypetala</i>	4.0
	<i>Corylopsis spicata</i>	4.0
	<i>Forsythia ovata</i>	3.3
	<i>Juniperus virginiana</i> (♂)	4.0
	<i>Larix (decidua x kaempferi) x fri</i>	4.0
	<i>Larix gmelinii</i> hybrid	4.0
	<i>Larix gmelinii</i> var. <i>olgensis</i>	3.6

Flowering week	Taxa	Avg flower number
16	<i>Larix sibirica</i>	3.3
	<i>Larix sibirica</i> var. <i>sukaczewii</i>	4.0
	<i>Lonicera Xpurpusii</i>	4.0
	<i>Pieris japonica</i>	3.5
	<i>Prunus nipponica</i>	3.7
	<i>Prunus quelpaertensis</i>	3.0
	<i>Prunus sargentii</i>	4.0
	<i>Prunus scopulorum</i>	4.0
	<i>Prunus subhirtella</i> cv. 'Pendula'	4.0
	<i>Rhododendron mucronulatum</i>	2.8
	<i>Rhododendron pachytrichum</i> var. <i>monosematum</i>	2.0
	<i>Rhododendron tsariense</i>	1.0
	<i>Salix hookeriana</i> (♂)	4.0
	<i>Salix myrsinifolia</i> (♂)	3.0
	<i>Stachyurus praecox</i>	4.0
17	<i>Acer caudatum</i> subsp. <i>ukurunduense</i> (♀)	4.0
	<i>Acer mono</i>	4.0
	<i>Acer mono</i> var. <i>mayrii</i>	4.0
	<i>Acer negundo</i>	4.0
	<i>Acer negundo</i> subsp. <i>interius</i>	4.0
	<i>Acer negundo</i> cv. 'Violaceum'	4.0
	<i>Acer platanoides</i>	4.0
	<i>Acer tegmentosum</i>	4.0
	<i>Betula platyphylla</i>	4.0
	<i>Buxus sempervirens</i> cv. 'Arborescens'	4.0
	<i>Cercidiphyllum japonicum</i> (♀)	4.0
	<i>Cercidiphyllum japonicum</i> (♂)	4.0
	<i>Cercidiphyllum japonicum</i> var. <i>magnificum</i>	4.0
	<i>Chamaecyparis nootkatensis</i>	4.0
	<i>Chamaecyparis obtusa</i>	4.0
	<i>Chamaecyparis pisifera</i>	4.0
	<i>Chamaecyparis pisifera</i> form <i>filifera</i>	4.0
	<i>Chamaecyparis thyoides</i> cv. 'Atrovirens'	4.0
	<i>Corylopsis glabrescens</i>	3.8
	<i>Corylopsis pauciflora</i>	3.6
	<i>Corylopsis sinensis</i> form <i>veitchiana</i>	3.5
	<i>Forsythia suspensa</i> var. <i>sieboldii</i>	3.0
	<i>Forsythia viridissima</i>	4.0
	<i>Forsythia Xintermedia</i> cv. 'Lynwood Gold'	4.0
	<i>Forsythia Xintermedia</i> cv. 'Vitellina'	3.5
	<i>Juniperus chinensis</i> (♂)	4.0
	<i>Juniperus chinensis</i> cv. 'Pfitzeriana' (♂)	4.0
	<i>Juniperus chinensis</i> var. <i>sargentii</i> (♂)	4.0
	<i>Larix laricina</i>	3.6
	<i>Oemleria cerasiformis</i>	3.8
	<i>Pieris floribunda</i>	4.0
	<i>Populus deltoides</i> x <i>trichocarpa</i> (♂)	4.0
	<i>Prunus cerasifera</i>	4.0

Flowering week	Taxa	Avg flower number
17	<i>Prunus nipponica</i> var. <i>kurilensis</i>	3.0
	<i>Prunus serrulata</i> cv. 'Fudan-Zakura'	4.0
	<i>Rhododendron aureum</i>	3.0
	<i>Rhododendron calophytum</i>	1.0
	<i>Rhododendron dauricum</i>	2.0
	<i>Rhododendron dauricum</i> var. <i>album</i>	3.0
	<i>Rhododendron lutescens</i>	2.5
	<i>Rhododendron oreodoxa</i>	2.0
	<i>Rhododendron pachytrichum</i>	3.0
	<i>Rhododendron phaeochrysum</i> var. <i>phaeochrysum</i>	3.0
	<i>Rhododendron sutchuenense</i>	2.4
	<i>Rhododendron thomsonii</i>	2.0
	<i>Ribes pinetorum</i>	2.0
	<i>Salix helvetica</i> (♂)	4.0
	<i>Salix myrsinifolia</i> (♀)	4.0
	<i>Salix sachalinensis</i> cv. 'Secca' (♂)	4.0
	<i>Salix viminalis</i> (♀)	4.0
	<i>Stachyurus chinensis</i>	4.0
	<i>Taxus cuspidata</i> form <i>nana</i> (♂)	4.0
	<i>Thuja occidentalis</i> cv. 'Rosenthalii'	4.0
18	<i>Acer argutum</i>	3.8
	<i>Acer triflorum</i>	3.3
	<i>Acer tschonoskii</i> var. <i>rubripes</i>	4.0
	<i>Alnus maximowiczii</i>	3.9
	<i>Alnus viridis</i> hybrid	4.0
	<i>Alnus viridis</i> subsp. <i>crispa</i>	3.8
	<i>Amelanchier arborea</i>	4.0
	<i>Amelanchier fernaldii</i>	4.0
	<i>Amelanchier laevis</i>	4.0
	<i>Amelanchier wiegandii</i>	4.0
	<i>Betula alleghaniensis</i>	4.0
	<i>Betula glandulosa</i>	3.0
	<i>Betula ovalifolia</i>	4.0
	<i>Betula platyphylla</i> x <i>maximowiczii</i>	4.0
	<i>Betula pubescens</i>	4.0
	<i>Betula utilis</i>	3.0
	<i>Buxus microphylla</i>	4.0
	<i>Cercidiphyllum japonicum</i> var. <i>magnificum</i> (♀)	4.0
	<i>Corylopsis sinensis</i>	3.5
	<i>Magnolia kobus</i>	3.3
	<i>Osmanthus delavayi</i>	3.0
	<i>Prunus avium</i>	3.8
	<i>Prunus cerasifera</i> subsp. <i>divaricata</i>	4.0
	<i>Prunus cyclamina</i>	4.0
	<i>Prunus subcordata</i>	3.0
	<i>Prunus subhirtella</i> x <i>yedoensis</i>	4.0
	<i>Prunus Xyedoensis</i>	3.5
	<i>Rhododendron adenogynum</i>	2.5

Flowering week	Taxa	Avg flower number
18	<i>Rhododendron alutaceum</i>	3.0
	<i>Rhododendron campanulatum</i>	2.5
	<i>Rhododendron campanulatum</i> hybrid	3.0
	<i>Rhododendron campanulatum</i> var.cf. <i>wallichii</i>	3.0
	<i>Rhododendron degronianum</i> subsp. <i>degronianum</i>	2.0
	<i>Rhododendron denudatum</i>	3.0
	<i>Rhododendron elegantulum</i>	3.0
	<i>Rhododendron lapponicum</i>	2.0
	<i>Rhododendron phaeochrysum</i>	3.0
	<i>Rhododendron polylepis</i>	3.0
	<i>Rhododendron rubiginosum</i>	2.1
	<i>Rhododendron selense</i>	2.0
	<i>Rhododendron ungeronii</i>	2.0
	<i>Rhododendron wallichii</i>	3.0
	<i>Ribes alpinum</i>	3.8
	<i>Ribes sanguineum</i>	4.0
	<i>Ribes spicatum</i>	3.5
	<i>Ribes ussuriensis</i>	2.7
	<i>Salix borealis</i> (♂)	4.0
	<i>Salix cinerea</i> subsp. <i>cinerea</i> (♂)	4.0
	<i>Taxus canadensis</i> (♂)	4.0
	<i>Thuja occidentalis</i>	4.0
	<i>Viburnum furcatum</i>	3.6
<i>Yucca filamentosa</i>	4.0	
19	<i>Abies amabilis</i>	4.0
	<i>Abies concolor</i> subsp. <i>lowiana</i>	4.0
	<i>Abies koreana</i>	4.0
	<i>Abies procera</i>	4.0
	<i>Acer capillipes</i>	4.0
	<i>Acer cappadocicum</i>	4.0
	<i>Acer carpiniifolium</i>	4.0
	<i>Acer circinatum</i>	4.0
	<i>Acer cissifolium</i>	4.0
	<i>Acer glabrum</i>	3.3
	<i>Acer japonicum</i>	4.0
	<i>Acer japonicum</i> cv. 'Aconitifolium'	4.0
	<i>Acer monspessulanum</i>	4.0
	<i>Acer palmatum</i>	4.0
	<i>Acer palmatum</i> cv. 'Matsumurae'	4.0
	<i>Acer rufinerve</i>	4.0
	<i>Acer sieboldianum</i>	4.0
	<i>Acer stachyophyllum</i>	3.0
	<i>Acer stachyophyllum</i> subsp. <i>betulifolium</i>	4.0
	<i>Acer tataricum</i> subsp. <i>semenovii</i>	4.0
	<i>Acer Xcoriaceum</i>	4.0
	<i>Alnus firma</i>	4.0
	<i>Alnus viridis</i> subsp. <i>sinuata</i>	3.9
	<i>Amelanchier alnifolia</i> var. <i>cusickii</i>	4.0

Flowering week	Taxa	Avg flower number
19	<i>Amelanchier bartramiana</i>	4.0
	<i>Amelanchier canadensis</i>	4.0
	<i>Amelanchier florida</i>	3.4
	<i>Amelanchier humilis</i>	4.0
	<i>Amelanchier intermedia</i>	4.0
	<i>Amelanchier sanguinea</i>	4.0
	<i>Amelanchier spicata</i>	3.9
	<i>Amelanchier stolonifera</i>	4.0
	<i>Aucuba japonica</i> cv. 'Viridis' (♂)	3.0
	<i>Berberis amurensis</i>	3.0
	<i>Berberis cuneata</i>	3.0
	<i>Berberis julianae</i>	4.0
	<i>Berberis poiretii</i>	4.0
	<i>Berberis Xjulianae x thunbergii</i>	4.0
	<i>Betula chinensis</i>	3.0
	<i>Betula corylifolia</i>	3.0
	<i>Betula costata</i>	3.9
	<i>Betula ermanii</i>	4.0
	<i>Betula ermanii</i> var. <i>apoiensis</i>	4.0
	<i>Betula globispica</i>	3.0
	<i>Betula grossa</i>	4.0
	<i>Betula humilis</i>	3.8
	<i>Betula mandshurica</i> var. <i>japonica</i>	4.0
	<i>Betula nigra</i>	3.0
	<i>Betula papyrifera</i>	3.8
	<i>Betula populifolia</i>	4.0
	<i>Betula raddeana</i>	3.0
	<i>Betula utilis</i> var. <i>utilis</i>	4.0
	<i>Carpinus betulus</i>	4.0
	<i>Carpinus caroliniana</i> subsp. <i>virginiana</i>	3.5
	<i>Carpinus cordata</i>	4.0
	<i>Carpinus coreana</i>	4.0
	<i>Carpinus japonica</i>	4.0
	<i>Carpinus laxiflora</i>	3.5
	<i>Celtis occidentalis</i>	3.5
	<i>Cephalotaxus fortunei</i> (♂)	4.0
	<i>Cephalotaxus harringtonii</i> var. <i>nana</i> (♂)	4.0
	<i>Chaenomeles cathayensis</i>	1.5
	<i>Cotoneaster integerrimus</i>	2.0
	<i>Fagus orientalis</i>	4.0
	<i>Fuchsia magellanica</i>	4.0
	<i>Lonicera</i> cf. <i>xylosteum</i>	4.0
	<i>Magnolia stellata</i>	3.0
	<i>Mahonia aquifolium</i>	3.4
	<i>Mahonia repens</i>	4.0
	<i>Nothofagus obliqua</i>	4.0
	<i>Ostrya carpinifolia</i>	4.0
	<i>Ostrya japonica</i>	4.0



Flowering week	Taxa	Avg flower number
19	<i>Ostrya virginiana</i>	4.0
	<i>Picea (sitchensis x glauca) x glauca</i>	4.0
	<i>Picea crassifolia</i>	2.0
	<i>Populus purdomii</i> (♀)	4.0
	<i>Populus wilsonii x lasiocarpa</i> (♀)	4.0
	<i>Prunus domestica</i> subsp. <i>insititia</i>	2.8
	<i>Prunus padus</i>	3.6
	<i>Prunus padus</i> subsp. <i>padus</i>	3.0
	<i>Prunus padus</i> var. <i>glauca</i>	4.0
	<i>Prunus pennsylvanica</i>	4.0
	<i>Prunus pilosiuscula</i>	4.0
	<i>Prunus serrula</i> var. <i>thibetica</i>	4.0
	<i>Prunus serrulata</i> cv. 'Chosuihizakura'	4.0
	<i>Prunus serrulata</i> cv. 'Hosokawa-Odora'	3.0
	<i>Prunus serrulata</i> cv. 'Ouchii-Zakura'	3.3
	<i>Prunus serrulata</i> cv. 'Sakon'	4.0
	<i>Prunus serrulata</i> var. <i>spontanea</i>	4.0
	<i>Prunus Xsieboldii</i>	4.0
	<i>Prunus spinosa</i>	4.0
	<i>Prunus susquehanae</i>	4.0
	<i>Prunus virginiana</i> subsp. <i>melanocarpa</i>	4.0
	<i>Prunus yedoensis</i>	4.0
	<i>Pterocarya fraxinifolia</i>	4.0
	<i>Pyrus amygdaliformis</i> var. <i>persica</i>	3.0
	<i>Pyrus calleryana</i> var. <i>faurei</i>	3.0
	<i>Pyrus communis</i>	4.0
	<i>Pyrus lindleyi</i>	3.0
	<i>Pyrus pyraister</i>	3.8
	<i>Pyrus salicifolia</i> cv. 'Pendula'	4.0
	<i>Pyrus ussuriensis</i>	4.0
	<i>Pyrus ussuriensis hondoensis</i>	4.0
	<i>Pyrus Xcanescens</i>	4.0
	<i>Quercus petraea</i> subsp. <i>ibirica</i>	4.0
	<i>Quercus robur</i> subsp. <i>imeretina</i>	4.0
	<i>Rhamnus cathartica</i>	4.0
	<i>Rhododendron argyrophyllum</i>	3.0
	<i>Rhododendron augustinii</i> hybrid	3.8
	<i>Rhododendron campylocarpum</i>	2.0
	<i>Rhododendron canadense</i>	2.9
	<i>Rhododendron caucasicum</i> hybrid cv. 'Rosamundi'	3.0
	<i>Rhododendron clementinae</i>	3.0
	<i>Rhododendron concinnum</i>	3.0
	<i>Rhododendron hippophaeoides</i> hybrid	3.0
	<i>Rhododendron hyperythrum</i>	3.0
	<i>Rhododendron keiskei</i>	3.0
	<i>Rhododendron kiusianum</i>	2.0
	<i>Rhododendron racemosum</i>	2.5
	<i>Rhododendron russatum</i>	4.0

Flowering week	Taxa	Avg flower number	
19	<i>Rhododendron schlippenbachii</i>	3.0	
	<i>Rhododendron wightii</i>	1.5	
	<i>Rhus trilobata</i>	3.0	
	<i>Ribes americanum</i>	4.0	
	<i>Ribes cynosbati</i>	3.0	
	<i>Ribes fasciculatum</i> var. <i>chinense</i>	3.5	
	<i>Ribes glaciale</i>	4.0	
	<i>Ribes hispidulum</i>	3.5	
	<i>Ribes lacustre</i>	4.0	
	<i>Ribes latifolium</i>	4.0	
	<i>Ribes laxiflorum</i>	3.4	
	<i>Ribes leptanthum</i>	4.0	
	<i>Ribes lobbii</i>	4.0	
	<i>Ribes petraeum</i>	3.0	
	<i>Ribes stenocarpum</i>	4.0	
	<i>Ribes warscewiczii</i>	4.0	
	<i>Salix alba</i> (♂)	4.0	
	<i>Salix phylicifolia</i> cv. 'Glividir' (♂)	3.0	
	<i>Sambucus callicarpa</i> var. <i>arborescens</i>	3.8	
	<i>Schizophragma hydrangeoides</i>	4.0	
	<i>Skimmia japonica</i> (♀)	2.0	
	<i>Skimmia japonica</i> (♂)	2.5	
	<i>Sorbus megalocarpa</i>	4.0	
	<i>Spiraea flexuosa</i>	3.4	
	<i>Spiraea media</i> var. <i>sericea</i>	3.0	
	<i>Spiraea sericea</i>	3.6	
	<i>Spiraea trilobata</i>	3.0	
	<i>Syringa oblata</i> var. <i>dilatata</i>	3.0	
	<i>Vaccinium corymbosum</i>	4.0	
	<i>Viburnum buddleifolium</i>	4.0	
	<i>Viburnum Xburkwoodii</i>	4.0	
	20	<i>Abies balsamea</i>	4.0
		<i>Abies concolor</i>	3.0
<i>Abies fargesii</i> var. <i>faxoniana</i>		4.0	
<i>Abies firma</i>		4.0	
<i>Abies grandis</i>		4.0	
<i>Abies holophylla</i>		4.0	
<i>Abies homolepis</i>		2.3	
<i>Abies lasiocarpa</i>		2.7	
<i>Abies mariesii</i>		4.0	
<i>Abies nephrolepis</i>		3.5	
<i>Abies veitchii</i>		4.0	
<i>Abies veitchii</i> var. <i>sikokiana</i>		3.3	
<i>Acer campestre</i>		4.0	
<i>Acer griseum</i>		4.0	
<i>Acer pensylvanicum</i>		3.8	
<i>Acer pseudosieboldianum</i>		4.0	
<i>Amelanchier alnifolia</i>		3.8	

Flowering week	Taxa	Avg flower number
20	<i>Amelanchier amabilis</i>	3.6
	<i>Amelanchier ovalis</i>	2.5
	<i>Aucuba japonica</i> cv. 'Variegata' (♀)	3.0
	<i>Berberis amurensis</i> var. <i>japonica</i>	3.7
	<i>Berberis amurensis</i> var. <i>latifolia</i>	4.0
	<i>Berberis buxifolia</i>	2.6
	<i>Berberis darwinii</i>	3.0
	<i>Berberis lempergiana</i>	4.0
	<i>Berberis sieboldii</i>	4.0
	<i>Caragana arborescens</i>	3.6
	<i>Caragana arborescens</i> cv. 'Lorbergii'	3.0
	<i>Caragana boisii</i>	3.0
	<i>Caragana decorticans</i>	4.0
	<i>Caragana frutex</i>	3.0
	<i>Caragana fruticosa</i>	3.5
	<i>Caragana fruticosa</i> x <i>arborescens</i>	3.0
	<i>Caragana turkestanica</i>	4.0
	<i>Chaenomeles japonica</i>	4.0
	<i>Chaenomeles lagenaria</i>	4.0
	<i>Chaenomeles Xsuperba</i>	2.0
	<i>Cornus alba</i> cv. 'Sibirica'	3.0
	<i>Cornus purpusi</i>	4.0
	<i>Cotoneaster melanocarpus</i>	3.0
	<i>Crataegus nigra</i>	3.0
	<i>Cytisus ruthenicus</i>	2.0
	<i>Euonymus latifolius</i>	4.0
	<i>Euonymus macropterus</i>	4.0
	<i>Euonymus sachalinensis</i>	4.0
	<i>Euonymus sacrosanctus</i>	4.0
	<i>Exochorda giraldii</i>	3.5
	<i>Exochorda korolkowi</i>	4.0
	<i>Exochorda racemosa</i>	4.0
	<i>Exochorda serratifolia</i>	3.5
	<i>Fothergilla major</i>	4.0
	<i>Ilex ciliospinosa</i>	4.0
	<i>Ilex ciliospinosa</i> (♂)	4.0
	<i>Kerria japonica</i>	3.0
	<i>Lonicera chrysantha</i> form <i>crassipes</i>	3.3
	<i>Lonicera demissa</i>	4.0
	<i>Lonicera Xgibbiflora</i>	4.0
	<i>Lonicera Xnotha</i> cv. 'Alba'	4.0
	<i>Malus baccata</i>	3.8
	<i>Malus floribunda</i>	4.0
	<i>Malus hupehensis</i>	4.0
	<i>Malus kansuensis</i> form <i>calva</i>	4.0
	<i>Malus manshurica</i>	4.0
	<i>Malus micromalus</i>	4.0
	<i>Malus prunifolia</i>	4.0

Flowering week	Taxa	Avg flower number
20	<i>Malus rockii</i>	4.0
	<i>Malus sargentii</i> cv. 'Rosea'	4.0
	<i>Malus sieboldii</i>	4.0
	<i>Malus sieboldii</i> var. <i>aborescens</i>	4.0
	<i>Malus sylvestris</i>	3.0
	<i>Nothofagus antarctica</i>	4.0
	<i>Nothofagus pumilio</i>	4.0
	<i>Orixa japonica</i>	4.0
	<i>Picea asperata</i>	3.5
	<i>Picea engelmannii</i> subsp. <i>mexicana</i>	1.8
	<i>Picea glauca</i>	3.1
	<i>Picea glehnii</i>	4.0
	<i>Picea jezoensis</i>	2.9
	<i>Picea jezoensis</i> x <i>sitchensis</i>	4.0
	<i>Picea koraiensis</i>	1.0
	<i>Picea koyamae</i>	4.0
	<i>Picea likiangensis</i>	4.0
	<i>Picea meyeri</i>	3.0
	<i>Picea purpurea</i>	3.7
	<i>Picea sitchensis</i>	3.7
	<i>Picea sitchensis</i> x <i>mariana</i>	4.0
	<i>Picea wilsonii</i>	4.0
	<i>Picea Xlutzii</i>	3.6
	<i>Pinus contorta</i> var. <i>latifolia</i>	4.0
	<i>Pinus ponderosa</i> var. <i>ponderosa</i>	4.0
	<i>Pinus pungens</i>	4.0
	<i>Pinus rigida</i>	2.3
	<i>Pinus sylvestris</i>	3.5
	<i>Pinus sylvestris</i> var. <i>mongolica</i>	3.8
	<i>Populus wilsonii</i>	4.0
	<i>Prunus laurocerasus</i>	3.5
	<i>Prunus laurocerasus</i> cv. 'Zabeliana'	4.0
	<i>Prunus mahaleb</i>	3.0
	<i>Prunus maximowiczii</i>	4.0
	<i>Prunus maackii</i>	3.7
	<i>Pseudotsuga menziesii</i>	3.8
	<i>Pseudotsuga menziesii</i> var. <i>glauca</i>	4.0
	<i>Quercus cerris</i>	4.0
	<i>Quercus coccinea</i>	4.0
	<i>Quercus macranthera</i>	2.8
	<i>Quercus petraea</i>	4.0
	<i>Quercus petraea</i> x <i>robur</i>	4.0
	<i>Quercus robur</i>	4.0
	<i>Quercus robur</i> cv. 'Tardissima'	4.0
	<i>Rhododendron caucasicum</i> x <i>ponticum</i> 'Album' cv. 'Cunningham's White'	2.8
	<i>Rhododendron</i> cf. <i>ambiguum</i>	3.0
	<i>Rhododendron rupicola</i> var. <i>chryseum</i>	3.0

Flowering week	Taxa	Avg flower number
20	<i>Rhododendron cinnabarinum</i>	1.0
	<i>Rhododendron davidsonianum</i>	2.0
	<i>Rhododendron degronianum</i> subsp. <i>heptamerum</i>	2.0
	<i>Rhododendron</i> 'Dr. V.H. Rütgers' x <i>williamsianum</i>	3.0
	<i>Rhododendron haematodes</i>	1.5
	<i>Rhododendron hippophaeoides</i>	3.0
	<i>Rhododendron houlstonii</i>	2.0
	<i>Rhododendron maculiferum</i> subsp. <i>anhweiense</i>	3.0
	<i>Rhododendron occidentale</i>	2.3
	<i>Rhododendron oreotrephes</i>	3.0
	<i>Rhododendron phaeochrysum</i> var. <i>levistratum</i>	3.0
	<i>Rhododendron rupicola</i> var. <i>chryseum</i>	3.0
	<i>Rhododendron vaseyi</i>	2.7
	<i>Rhododendron wardii</i> cv. 'Hobbies Form'	2.0
	<i>Rhododendron williamsianum</i>	3.0
	<i>Rhododendron williamsianum</i> hybrid cv. 'Wega'	4.0
	<i>Rhododendron yedoense</i> var. <i>poukhanense</i>	1.7
	<i>Rhododendron yunnanense</i>	2.0
	<i>Rhodotypos scandens</i>	3.0
	<i>Rhus ambigua</i>	4.0
	<i>Rhus aromatica</i>	4.0
	<i>Ribes bracteosum</i>	2.7
	<i>Rosa rugosa</i>	2.7
	<i>Rubus spectabilis</i>	2.0
	<i>Salix alba</i> cv. 'Chermesina' (♂)	4.0
	<i>Salix urbaniana</i> (♀)	4.0
	<i>Sambucus callicarpa</i>	4.0
	<i>Sambucus pubens</i>	4.0
	<i>Schizandra chinensis</i> (♂)	2.0
	<i>Sorbus</i> aff. <i>meliosmifolia</i>	4.0
	<i>Sorbus albovii</i>	2.5
	<i>Sorbus matsumurana</i>	3.8
	<i>Sorbus rhamnoides</i>	4.0
	<i>Sorbus sambucifolia</i>	3.0
	<i>Sorbus xanthoneura</i>	3.0
	<i>Sorbus Xhostii</i>	4.0
	<i>Spiraea media</i>	4.0
	<i>Syringa Xdiversifolia</i>	3.0
	<i>Tsuga heterophylla</i>	4.0
	<i>Viburnum alnifolium</i>	2.0
	<i>Viburnum burejaeticum</i>	4.0
	<i>Viburnum carlesii</i>	4.0
	<i>Viburnum lantana</i>	3.5
	<i>Viburnum lantana</i> var. <i>discolor</i>	4.0
	<i>Viburnum rafinesquianum</i>	3.5
	<i>Viburnum rhytidophyllum</i>	4.0
	<i>Viburnum wilsonii</i>	4.0
	<i>Weigela middendorffiana</i>	2.8

Flowering week	Taxa	Avg flower number
21	<i>Abies alba</i>	4.0
	<i>Abies nordmanniana</i>	4.0
	<i>Abies nordmanniana</i> subsp. <i>equi-trojani</i>	3.0
	<i>Abies pinsapo</i>	4.0
	<i>Acer davidii</i>	2.7
	<i>Acer tschonoskii</i>	4.0
	<i>Aesculus bushii</i>	4.0
	<i>Aesculus glabra</i>	3.6
	<i>Aesculus turbinata</i>	4.0
	<i>Aristolochia manshuriensis</i>	1.5
	<i>Berberis aitchisonii</i>	3.7
	<i>Berberis dictyophylla</i>	4.0
	<i>Berberis empetrifolia</i>	4.0
	<i>Berberis orientalis</i>	4.0
	<i>Berberis parodii</i>	4.0
	<i>Berberis pruinosa</i>	4.0
	<i>Berberis zabeliana</i>	3.0
	<i>Cornus nuttallii</i>	4.0
	<i>Cotoneaster adpressa</i>	3.0
	<i>Cotoneaster multiflora</i>	3.5
	<i>Crataegus chrysocarpa</i>	2.8
	<i>Crataegus columbiana</i>	3.0
	<i>Crataegus douglasii</i>	3.3
	<i>Crataegus flabellata</i>	4.0
	<i>Crataegus oxyacantha</i>	4.0
	<i>Crataegus Xhafniensis</i>	4.0
	<i>Euonymus alatus</i>	4.0
	<i>Euonymus oxyphyllus</i>	4.0
	<i>Euonymus verrucosus</i>	4.0
	<i>Fagus crenata</i>	4.0
	<i>Fagus sylvatica</i>	4.0
	<i>Fagus sylvatica</i> cv. 'Fastigiata'	4.0
	<i>Fraxinus mandshurica</i>	4.0
	<i>Fraxinus sieboldiana</i>	3.8
	<i>Halesia carolina</i>	4.0
	<i>Halesia monticola</i>	4.0
	<i>Ilex aquifolium</i> (♀)	3.0
	<i>Ilex aquifolium</i> cv. 'Ferox'	4.0
	<i>Ilex yunnanensis</i> (♀)	4.0
	<i>Juglans sieboldiana</i> var. <i>cordiformis</i>	4.0
	<i>Juniperus communis</i> (♂)	3.0
	<i>Liriodendron tulipifera</i>	3.0
	<i>Lonicera caerulea</i>	3.0
	<i>Lonicera</i> cf. <i>serreana</i>	2.0
	<i>Lonicera ibotaeformis</i>	3.0
	<i>Lonicera muscaviensis</i>	4.0
	<i>Lonicera nigra</i>	3.7
	<i>Lonicera ramosissima</i>	3.8

Flowering week	Taxa	Avg flower number
21	<i>Lonicera tatarica</i>	2.8
	<i>Lonicera Xminutiflora</i>	3.0
	<i>Lonicera xylosteum</i>	3.4
	<i>Malus asiatica</i>	3.5
	<i>Malus asiatica</i> var. <i>wrightii</i>	4.0
	<i>Malus sargentii</i>	4.0
	<i>Malus sikkimensis</i>	4.0
	<i>Malus Xfloribunda</i>	4.0
	<i>Picea abies</i>	4.0
	<i>Picea engelmannii</i>	4.0
	<i>Picea omorica</i>	4.0
	<i>Picea orientalis</i>	4.0
	<i>Picea rubens</i>	4.0
	<i>Pinus attenuata</i>	4.0
	<i>Pinus banksiana</i>	3.3
	<i>Pinus contorta</i>	3.8
	<i>Pinus densata</i>	3.0
	<i>Pinus ponderosa</i>	3.0
	<i>Pinus pumila</i>	3.7
	<i>Prunus grayana</i>	4.0
	<i>Prunus virginiana</i>	3.3
	<i>Pterocarya rhoifolia</i>	4.0
	<i>Pyrus calleryana</i>	4.0
	<i>Quercus pontica</i>	3.0
	<i>Rhamnus alpina</i>	4.0
	<i>Rhododendron</i> aff. <i>bureavi</i>	2.0
	<i>Rhododendron canescens</i>	2.0
	<i>Rhododendron fastigiatum</i>	3.0
	<i>Rhododendron fortunei</i>	3.0
	<i>Rhododendron fortunei</i> x <i>williamsianum</i> cv. 'Oldenburg'	3.0
	<i>Rhododendron japonicum</i>	2.3
	<i>Rhododendron kaempferi</i>	3.0
	<i>Rhododendron kaempferi</i> form <i>latisepalum</i>	3.0
	<i>Rhododendron kiusianum</i> cv. 'Zuiko'	3.0
	<i>Rhododendron luteum</i>	3.1
	<i>Rhododendron macrosepalum</i> cv. 'Linearifolium'	2.0
	<i>Rhododendron minus</i> var. <i>minus</i>	2.5
	<i>Rhododendron periclymenoides</i>	2.6
	<i>Rhododendron ponticum</i>	3.0
	<i>Rhododendron prinophyllum</i>	2.5
	<i>Rhododendron rupicola</i>	3.0
	<i>Rhododendron wardii</i>	2.5
	<i>Rhododendron wardii</i> hybrid	3.2
<i>Sorbus alnifolia</i>	3.8	
<i>Sorbus alnifolia</i> x <i>aria</i>	4.0	
<i>Sorbus aria</i>	4.0	
<i>Sorbus occidentalis</i>	3.0	
<i>Sorbus pohnuashanensis</i>	4.0	

Flowering week	Taxa	Avg flower number
21	<i>Sorbus poteriifolia</i> 'McLaren 84' hybrid	4.0
	<i>Sorbus scopulina</i>	2.0
	<i>Spiraea chamaedryfolia</i>	4.0
	<i>Spiraea japonica</i> var. <i>incisa</i>	3.0
	<i>Spiraea pubescens</i>	4.0
	<i>Spiraea stevenii</i>	2.0
	<i>Staphylea pinnata</i>	3.4
	<i>Staphylea trifolia</i>	4.0
	<i>Syringa villosa</i>	4.0
	<i>Viburnum carlesii</i> x <i>macrocephalum</i>	4.0
22	<i>Acer tataricum</i> subsp. <i>ginnala</i>	4.0
	<i>Aesculus Xcarnea</i>	4.0
	<i>Berberis vulgaris</i>	3.4
	<i>Betula kenaica</i>	3.0
	<i>Cephalotaxus koreana</i> (♂)	3.0
	<i>Cornus florida</i>	3.0
	<i>Cornus sanguinea</i>	4.0
	<i>Cornus stolonifera</i>	3.0
	<i>Crataegus calycina</i>	4.0
	<i>Crataegus monogyna</i>	4.0
	<i>Crataegus rhipidophylla</i>	3.2
	<i>Crataegus songarica</i>	4.0
	<i>Crataegus transcaspica</i>	3.0
	<i>Cytisus sessilifolius</i>	2.7
	<i>Davidia involucreta</i> var. <i>vilmoriniana</i>	3.7
	<i>Dipelta floribunda</i>	4.0
	<i>Elaeagnus umbellata</i>	3.3
	<i>Enkianthus deflexus</i>	4.0
	<i>Euonymus hamiltonianus</i> var. <i>sieboldianus</i>	4.0
	<i>Fraxinus ornus</i>	3.5
	<i>Jasminum fruticans</i>	4.0
	<i>Juglans cinerea</i>	3.0
	<i>Laburnocytisus adami</i>	4.0
	<i>Laburnum alpinum</i> cv. 'Lucidum'	4.0
	<i>Laburnum watereri</i>	3.0
	<i>Magnolia sieboldii</i> subsp. <i>sinensis</i>	3.0
	<i>Magnolia Xsoulangeana</i> cv. 'Lennei'	3.0
	<i>Malus toringoides</i>	4.0
	<i>Malus yunnanensis</i>	4.0
	<i>Meliosma veitchiorum</i>	4.0
<i>Mespilus germanica</i>	2.8	
<i>Paeonia delavayi</i>	2.0	
<i>Paeonia Xsuffruticosa</i>	2.1	
<i>Petteria ramentacea</i>	3.0	
<i>Photinia laevis</i>	4.0	
<i>Pinus densiflora</i>	3.7	
<i>Pinus thunbergii</i>	4.0	
<i>Prunus serotina</i>	4.0	



Flowering week	Taxa	Avg flower number
22	<i>Prunus ssiori</i>	4.0
	<i>Ptelea trifoliata</i> var. <i>mollis</i>	4.0
	<i>Quercus ilicifolia</i>	3.0
	<i>Rhododendron albrechtii</i>	2.0
	<i>Rhododendron brachycarpum</i>	2.5
	<i>Rhododendron catawbiense</i>	3.0
	<i>Rhododendron catawbiense</i> x <i>ponticum</i> cv. 'Morelianum'	3.0
	<i>Rhododendron groenlandicum</i>	4.0
	<i>Rhododendron</i> hybrid cv. 'Klondyke'	3.0
	<i>Rhododendron</i> hybrid cv. 'Mount St. Helens'	3.0
	<i>Rhododendron</i> hybrid cv. 'Persil'	3.0
	<i>Rhododendron</i> hybrid cv. 'Snowbird'	3.0
	<i>Rhododendron kiusianum</i> cv. 'Mt.Fuji'	2.5
	<i>Rhododendron micranthum</i>	3.0
	<i>Rhododendron molle</i>	3.0
	<i>Rhododendron mucronatum</i> form <i>album</i>	3.0
	<i>Rhododendron smirnowii</i> hybrid	2.5
	<i>Rhododendron viscosum</i> x <i>mollis</i> cv. 'Irene Koster'	3.0
	<i>Rhododendron yedoense</i> hybrid	3.0
	<i>Robinia luxurians</i>	3.0
	<i>Sorbus americana</i>	4.0
	<i>Sorbus commixta</i>	3.9
	<i>Sorbus decora</i> cv. 'Fastigiata'	3.0
	<i>Sorbus domestica</i>	4.0
	<i>Sorbus dumosa</i>	2.0
	<i>Sorbus forrestii</i>	4.0
	<i>Sorbus koehneana</i>	4.0
	<i>Sorbus microphylla</i>	4.0
	<i>Sorbus mougeotii</i>	3.3
	<i>Sorbus tamamschjanae</i>	4.0
	<i>Spiraea</i> cf. <i>arcuata</i>	3.0
	<i>Syringa josikaea</i>	4.0
	<i>Syringa vulgaris</i>	3.0
	<i>Syringa wolffi</i>	3.8
<i>Viburnum cotinifolium</i>	3.0	
<i>Weigela subsessilis</i>	3.1	
23	<i>Abelia serrata</i>	4.0
	<i>Acer spicatum</i>	3.6
	<i>Acer tataricum</i>	4.0
	<i>Aesculus glabra</i> subsp. <i>arguta</i>	3.0
	<i>Aesculus pavia</i>	3.0
	<i>Aesculus Xmississippiensis</i>	3.5
	<i>Berberis brachypoda</i>	4.0
	<i>Berberis koreana</i>	4.0
	<i>Cornus stolonifera</i> var. <i>occidentalis</i>	3.5
	<i>Cotoneaster foveolata</i>	3.5
	<i>Cotoneaster hupehensis</i>	4.0
	<i>Crataegus macracantha</i>	3.3

Flowering week	Taxa	Avg flower number
23	<i>Crataepilus grandiflora</i>	4.0
	<i>Deutzia albida</i>	3.0
	<i>Deutzia compacta</i>	2.0
	<i>Deutzia purpurascens</i>	3.0
	<i>Deutzia Xrosea</i> cv. 'Floribunda'	4.0
	<i>Enkianthus campanulatus</i>	3.3
	<i>Euonymus alatus</i> aptera	3.5
	<i>Fraxinus chinensis</i>	4.0
	<i>Fraxinus paxiana</i>	3.5
	<i>Gaultheria mucronata</i>	3.5
	<i>Jamesia americana</i>	4.0
	<i>Juglans sieboldiana</i>	2.0
	<i>Laburnum alpinum</i>	3.9
	<i>Laburnum anagyroides</i>	3.3
	<i>Lonicera alpigena</i>	4.0
	<i>Lonicera ferdinandii</i>	3.0
	<i>Magnolia sieboldii</i>	2.7
	<i>Magnolia tripetala</i>	2.0
	<i>Oplopanax horridus</i>	3.0
	<i>Philadelphus magdalenae</i>	3.0
	<i>Philadelphus tenuifolius</i>	2.5
	<i>Photinia villosa</i>	3.6
	<i>Photinia villosa</i> var. <i>sinica</i>	3.7
	<i>Pinus heldreichii</i>	4.0
	<i>Pinus mugo</i> subsp. <i>uncinata</i>	4.0
	<i>Pinus nigra</i>	4.0
	<i>Pinus nigra</i> subsp. <i>nigra</i>	4.0
	<i>Pinus nigra</i> subsp. <i>pallasiana</i>	4.0
	<i>Pinus peuce</i>	4.0
	<i>Pinus pinaster</i> subsp. <i>escarena</i>	4.0
	<i>Pinus tabuliformis</i>	4.0
	<i>Pinus mugo</i> x <i>sylvestris</i>	4.0
	<i>Pinus nigra</i> x <i>sylvestris</i>	4.0
	<i>Pinus sylvestris</i> x <i>free</i>	4.0
	<i>Poncirus trifoliata</i>	2.0
	<i>Rhododendron brachycarpum</i> subsp. <i>fauriei</i>	3.0
	<i>Rhododendron catawbiense</i> var. <i>insularis</i>	2.0
	<i>Rhododendron decorum</i>	2.0
	<i>Rhododendron elliottii</i> hybrid cv. 'Gibraltar'	3.0
	<i>Rhododendron</i> hybrid cv. 'Cheerful Giant'	2.8
	<i>Rhododendron nakaharae</i> hybrid cv. 'Wombat'	2.0
	<i>Rhododendron ponticum</i> hybrid	2.7
	<i>Rhododendron smirnowii</i>	2.0
	<i>Rhododendron tomentosum</i>	3.0
	<i>Rhododendron trichostomum</i>	3.0
	<i>Rhododendron viscosum</i> hybrid cv. 'Rosata'	2.0
	<i>Rhododendron Xkesselringii</i>	3.0
	<i>Rosa amblyotis</i>	2.7

Flowering week	Taxa	Avg flower number	
23	<i>Rosa jacutica</i>	2.0	
	<i>Rosa nutkana</i>	3.0	
	<i>Rosa pimpinellifolia</i> cv. 'Rofolo'	3.0	
	<i>Rosa pimpinellifolia x villosa</i> cv. 'Ripollo'	3.0	
	<i>Schizandra grandiflora</i> var. <i>rubriflora</i>	4.0	
	<i>Sorbus folgneri</i>	4.0	
	<i>Sorbus graeca</i>	4.0	
	<i>Sorbus hupehensis</i>	3.7	
	<i>Sorbus rehderana</i>	4.0	
	<i>Sorbus rufoferruginea</i>	3.5	
	<i>Sorbus torminalis</i>	3.5	
	<i>Spiraea betulifolia</i>	3.0	
	<i>Spiraea blumei</i> var. <i>latifolia</i>	3.5	
	<i>Spiraea henryi</i>	4.0	
	<i>Spiraea rosthornii</i>	4.0	
	<i>Syringa cf. tomentella</i>	4.0	
	<i>Syringa emodi</i>	3.5	
	<i>Syringa komarowii</i>	4.0	
	<i>Syringa komarowii</i> subsp. <i>reflexa</i>	4.0	
	<i>Syringa meyeri</i>	4.0	
	<i>Syringa sweginzowii</i>	3.6	
	<i>Syringa tigerstedtii</i>	3.5	
	<i>Syringa tomentella</i>	4.0	
	<i>Syringa yunnanensis</i>	3.8	
	<i>Torreya californica</i>	4.0	
	<i>Trochodendron aralioides</i>	4.0	
	<i>Viburnum sieboldii</i>	4.0	
	<i>Viburnum tomentosum</i>	4.0	
	<i>Viburnum tomentosum</i> cv. 'Mariesii'	4.0	
	<i>Viburnum wrightii</i>	4.0	
	24	<i>Acer caudatum</i> subsp. <i>ukurunduense</i>	4.0
		<i>Aesculus woerlitzensis</i>	3.0
		<i>Chiliodendron diffusum</i>	3.0
<i>Cornus alternifolia</i>		4.0	
<i>Cornus controversa</i>		3.9	
<i>Cotoneaster ignava</i>		3.0	
<i>Cotoneaster konishii</i>		4.0	
<i>Crataegus pentagyna</i>		3.0	
<i>Decaisnea insignis</i> hybrid		3.0	
<i>Deutzia glomeruliflora</i>		3.0	
<i>Deutzia monbeigii</i>		4.0	
<i>Enkianthus cernuus</i> var. <i>rubens</i>		3.0	
<i>Euonymus europaeus</i>		4.0	
<i>Kolkwitzia amabilis</i>		3.5	
<i>Lonicera caucasica</i>		3.2	
<i>Lonicera korolkowii</i>		3.0	
<i>Neillia longiracemosa</i>		4.0	
<i>Phellodendron amurense</i>		4.0	

Flowering week	Taxa	Avg flower number
24	<i>Philadelphus delavayi</i> var. <i>calvescens</i>	2.9
	<i>Philadelphus purpurascens</i>	2.6
	<i>Philadelphus schrenkii</i>	3.4
	<i>Philadelphus subcanus</i>	3.0
	<i>Photinia beauverdiana</i>	4.0
	<i>Photinia villosa</i> form <i>maximowicziana</i>	3.7
	<i>Pinus mugo</i>	4.0
	<i>Pterostyrax corymbosa</i>	4.0
	<i>Pyracantha coccinea</i>	4.0
	<i>Rhododendron adenosum</i>	3.0
	<i>Rhododendron atlanticum</i>	2.4
	<i>Rhododendron brachycarpum</i> subsp. <i>tigerstedtii</i>	3.0
	<i>Rhododendron calendulaceum</i>	3.3
	<i>Rhododendron ferrugineum</i>	1.8
	<i>Rhododendron ferrugineum</i> x <i>minus</i>	4.0
	<i>Rosa moyesii</i>	3.0
	<i>Rubus odoratus</i>	3.0
	<i>Rubus parviflorus</i>	3.0
	<i>Spiraea salicifolia</i>	4.0
	<i>Styrax obassia</i>	2.7
	<i>Syringa velutina</i>	3.6
	<i>Vaccinium corymbosum</i> cv. 'Adams'	4.0
	<i>Viburnum betulifolium</i>	4.0
	<i>Viburnum lentago</i>	4.0
<i>Viburnum opulus</i> form <i>hydrangeoides</i>	2.7	
<i>Weigela</i> aff. <i>hortensis</i>	3.0	
25	<i>Celastrus orbiculatus</i>	4.0
	<i>Deutzia longifolia</i> x <i>discolor</i> cv. 'Mont Rosa'	4.0
	<i>Deutzia parviflora</i>	4.0
	<i>Euonymus maackii</i>	4.0
	<i>Hebe odora</i>	2.0
	<i>Hydrangea anomala</i> subsp. <i>petiolaris</i>	4.0
	<i>Hydrangea petiolaris</i>	3.0
	<i>Lonicera vesicaria</i>	3.0
	<i>Neillia ribesoides</i>	4.0
	<i>Philadelphus satsumanus</i>	4.0
	<i>Photinia melanocarpa</i>	2.0
	<i>Physocarpus capitatus</i>	3.9
	<i>Potentilla fruticosa</i>	2.0
	<i>Prunus lusitanica</i>	3.0
	<i>Rhododendron brachycarpum</i> subsp. <i>fauriei</i>	2.5
	<i>Robinia pseudoacacia</i>	4.0
	<i>Rosa maximowicziana</i>	4.0
	<i>Rosa omeiensis</i>	2.0
	<i>Rosa pendulina</i>	3.0
	<i>Rosa tomentosa</i>	3.0
	<i>Sambucus caerulea</i>	4.0
<i>Sambucus nigra</i>	4.0	

Flowering week	Taxa	Avg flower number
25	<i>Spiraea humilis</i>	3.7
	<i>Spiraea japonica</i>	4.0
	<i>Stephanandra chinensis</i>	4.0
	<i>Viburnum opulus</i> var. <i>sargentii</i>	4.0
	<i>Weigela japonica</i>	4.0
26	<i>Calycanthus floridus</i>	2.7
	<i>Chionanthus virginicus</i>	4.0
	<i>Cornus rugosa</i>	4.0
	<i>Crataegus orientalis</i>	3.5
	<i>Deutzia longifolia</i>	4.0
	<i>Deutzia reflexa</i>	4.0
	<i>Hydrangea bretschneiderii</i>	4.0
	<i>Hydrangea dumicola</i>	4.0
	<i>Hydrangea xanthoneura</i> var. <i>setchuenensis</i>	4.0
	<i>Philadelphus gordonianus</i>	4.0
	<i>Philadelphus laxus</i>	3.0
	<i>Philadelphus pekinensis</i>	4.0
	<i>Philadelphus Xcymosus</i>	3.0
	<i>Philadelphus Xlemoinei</i>	3.0
	<i>Physocarpus opulifolius</i>	3.1
	<i>Pterostyrax hispida</i>	4.0
	<i>Pyracantha crenato-serrata</i>	4.0
	<i>Sorbus intermedia</i>	4.0
	<i>Stewartia serrata</i>	3.0
	<i>Viburnum dilatatum</i>	4.0
<i>Viburnum erosum</i>	4.0	
27	<i>Aesculus californica</i>	3.0
	<i>Cladrastis lutea</i>	4.0
	<i>Deutzia gracilis</i>	4.0
	<i>Deutzia scabra</i>	3.5
	<i>Gaultheria shallon</i>	3.0
	<i>Hydrangea heteromalla</i>	4.0
	<i>Hydrangea xanthoneura</i>	4.0
	<i>Kalmia latifolia</i>	4.0
	<i>Lonicera periclymenum</i>	2.0
	<i>Photinia davidiana</i>	4.0
	<i>Rhododendron arborescens</i>	2.0
	<i>Rosa pisocarpa</i>	3.0
	<i>Rosa setipoda</i>	3.0
	<i>Sambucus canadensis</i>	4.0
	<i>Spiraea fritschiana</i>	3.3
	<i>Stephanandra incisa</i>	4.0
	<i>Stewartia rostrata</i>	3.0
28	<i>Actinidia cordifolia</i>	2.0
	<i>Cistus laurifolius</i>	2.0
	<i>Clematis chiisanensis</i>	2.0
	<i>Cornus kousa</i>	3.7
	<i>Cornus kousa</i> cv. 'Satomi'	4.0

Flowering week	Taxa	Avg flower number	
28	<i>Cornus kousa</i> var. <i>chinensis</i>	3.7	
	<i>Cornus macrophylla</i>	3.7	
	<i>Cornus walteri</i>	3.7	
	<i>Cotoneaster salicifolia</i>	4.0	
	<i>Cytisus supinus</i>	2.0	
	<i>Deutzia pulchra</i>	4.0	
	<i>Deutzia staminea</i>	4.0	
	<i>Diervilla sessilifolia</i>	3.0	
	<i>Escallonia virgata</i>	2.0	
	<i>Ligustrum ibota</i>	4.0	
	<i>Ligustrum obtusifolium</i>	3.3	
	<i>Ligustrum vulgare</i>	3.3	
	<i>Rhododendron cumberlandense</i>	2.0	
	<i>Rhus radicans</i> var. <i>rydbergii</i>	3.0	
	<i>Robinia viscosa</i>	4.0	
	<i>Rosa helenae</i> cv. 'Lykkefund'	3.0	
	<i>Sambucus nigra</i> form <i>laciniata</i>	3.5	
	<i>Sorbaria sorbifolia</i>	4.0	
	<i>Spiraea alba</i>	1.5	
	<i>Spiraea veitchii</i>	4.0	
	<i>Symphoricarpos albus</i>	3.0	
	<i>Symphoricarpos hesperius</i>	4.0	
	29	<i>Amorpha fruticosa</i>	4.0
<i>Amorpha fruticosa</i> var. <i>angustifolia</i>		3.7	
<i>Amorpha virgata</i>		4.0	
<i>Lespedeza maximowiczii</i>		4.0	
<i>Ligustrum acuminatum</i>		4.0	
<i>Ligustrum foliosum</i>		3.0	
<i>Ligustrum ibota</i> (♂)		4.0	
<i>Ligustrum obtusifolium regelianum</i>		4.0	
<i>Philadelphus verrucosus</i>		3.0	
<i>Philadelphus Xvirginalis</i>		3.0	
<i>Photinia parvifolia</i>		3.4	
<i>Rhus verniciflua</i>		4.0	
<i>Rosa multiflora</i>		4.0	
<i>Rosa virginiana</i>		3.0	
<i>Spiraea japonica</i> var. <i>fortunei</i>		4.0	
<i>Spiraea miyabei</i>		3.3	
<i>Stewartia koreana</i>		4.0	
<i>Stewartia monadelphica</i>		2.0	
<i>Tilia platyphyllos</i>		4.0	
<i>Tilia platyphyllos</i> cv. 'Laciniata'		4.0	
<i>Tilia Xeuropaea</i>		4.0	
30		<i>Amorpha canescens</i>	4.0
		<i>Amorpha fruticosa</i> var. <i>tennesseensis</i>	4.0
	<i>Berberis polyantha</i>	4.0	
	<i>Castanea pumila</i>	4.0	
	<i>Cornus amomum</i>	3.7	

Flowering week	Taxa	Avg flower number
30	<i>Cornus racemosa</i>	4.0
	<i>Cornus sanguinea</i> subsp. <i>australis</i>	4.0
	<i>Deutzia schneideriana</i>	3.3
	<i>Diospyros lotus</i>	4.0
	<i>Elaeagnus commutata</i>	4.0
	<i>Elaeagnus montana</i>	4.0
	<i>Holodiscus discolor</i>	4.0
	<i>Hypericum androsaemum</i>	2.0
	<i>Hypericum patulum</i>	3.0
	<i>Ilex verticillata</i>	3.6
	<i>Ligustrum sinense</i>	4.0
	<i>Ligustrum vulgare</i> cv. 'Atrovirens Select'	4.0
	<i>Rhododendron bureavii</i>	2.0
	<i>Rhododendron viscosum</i>	2.0
	<i>Spiraea douglasii</i> var. <i>menziesii</i>	4.0
	<i>Tripterygium regelii</i>	4.0
	31	<i>Ailanthus altissima</i>
<i>Castanea sativa</i>		4.0
<i>Hydrangea serrata</i> cv. 'Intermedia'		4.0
<i>Tilia americana</i>		4.0
<i>Tilia amurensis</i>		4.0
<i>Tilia caucasica</i>		4.0
<i>Tilia cordata</i>		4.0
<i>Tilia insularis</i>		4.0
<i>Tilia maximowiczii</i>	4.0	
32	<i>Buddleja fallowiana</i>	4.0
	<i>Callicarpa dichotoma</i>	4.0
	<i>Castanea mollissima</i>	4.0
	<i>Catalpa speciosa</i>	4.0
	<i>Ilex verticillata</i>	2.8
	<i>Itea virginica</i>	4.0
	<i>Ligustrum ovalifolium</i>	4.0
	<i>Sorbaria kirilowii</i>	4.0
	<i>Sorbaria tomentosa</i> var. <i>angustifolia</i>	2.0
	<i>Tilia japonica</i>	4.0
	<i>Ulmus pumila</i>	4.0
33	<i>Catalpa bignonioides</i>	4.0
	<i>Hypericum</i> aff. <i>kouytchense</i>	3.0
	<i>Koelreuteria paniculata</i>	4.0
	<i>Lespedeza bicolor</i>	4.0
	<i>Maackia fauriei</i>	4.0
	<i>Paxistima myrtifolia</i>	3.0
	<i>Rhamnus frangula</i>	3.5
	<i>Spiraea douglasii</i>	4.0
	<i>Tilia petiolaris</i>	4.0
34	<i>Aesculus parviflora</i>	4.0
	<i>Callicarpa japonica</i>	3.6
	<i>Callicarpa japonica</i> var. <i>luxurians</i>	3.0

Flowering week	Taxa	Avg flower number
34	<i>Catalpa ovata</i>	3.0
	<i>Eucryphia glutinosa</i>	3.0
	<i>Hydrangea sargentiana</i>	4.0
	<i>Kalopanax pictus</i>	4.0
35	<i>Aralia elata</i>	4.0
	<i>Bupleurum fruticosum</i>	4.0
	<i>Clerodendrum trichotomum</i>	3.0
	<i>Clethra barbinervis</i>	4.0
	<i>Hydrangea paniculata</i>	4.0
	<i>Hypericum densiflorum</i>	4.0
	<i>Spiraea virgata</i>	4.0
36	<i>Eleutherococcus sessiliflorus</i>	4.0
	<i>Nandina domestica</i>	3.0
	<i>Rhododendron sanguineum</i>	2.0
37	<i>Campsis radicans</i>	3.0
	<i>Clematis stans</i>	3.8
	<i>Cupressocyparis leylandii</i>	4.0
	<i>Securinega suffruticosa</i>	3.7
38	<i>Clethra alnifolia</i> cv. 'Rosea'	4.0
39		
40		
41	<i>Leycesteria formosa</i>	2.0
42	<i>Caryopteris incana</i>	4.0
43	<i>Hamamelis virginiana</i>	3.9
	<i>Heptacodium miconioides</i>	3.0
44	<i>Cedrus atlantica</i> (♂)	3.0
	<i>Cedrus atlantica</i> cv. 'Glauca' (♂)	4.0
	<i>Cedrus libani</i> (♂)	3.6
	<i>Hedera helix</i>	4.0
45		
46		
47		
48		
49		
50		
51		
52		





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