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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. This collection is used to study how plants from different parts of the world thrive in response to the Danish environment. A study of the potential of plants to escape from the arboretum to the surrounding area was made to understand how well the collection's plants were adapted to the Danish environment (Nielsen & Leverenz 2002). It was also made to check if there were any potential problem-species that needed to be studied in more detail, or if control programs were needed. In this study of the area within 2 km in all directions from the Arboretum, we found no plant species that were definitely escaping from the Arboretum collection. This was a surprising result, but it became clear that we needed to know if the plants were producing flowers (pollen) and fruit (seed) in order to have a clearer understanding of the negative results. As a first step we have begun to record if, and when, the taxa in the collection produce flowers (and thus pollen), and fruits (and thereby seed).

In this working paper we present and analyse the results from the first and second years of the project. The first year of this project was funded in part by the "Etatsråds Georg Bestle og Hustru's Mindelegat". The second year (2005) was funded by G. B. Hartmanns Forskningsfond.

Key words: flower production, fruit production, flowering date, fruit maturity date.

Methods

Although botanists would not call the sexual reproductive organs of gymnosperms "flowers", I 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 was used to educate students at the Royal Veterinary and Agriculture University. For the students involved, contact with the Arboretum's living collection over an extended period greatly increased their knowledge and appreciation of the many different woody taxa and their variable responses to the seasons. In 2005 the following students carried out the bulk of the observations: Birgitte Jacobsen (winter to early spring), Christian Bach Knudsen (late spring), Anna Gudrun Worm (remainder of year). This work would not have been possible without their efforts.

As in the first year, each area of the arboretum was walked through about once every week. Often more than one calendar day within a week was used to go through the entire arboretum. Flowering and fruiting dates and abundance were recorded on a list of the plants sorted by their positions within the collection. To avoid an error that occurred in the first year, of recording the wrong month, a new list for writing records was made each month in this second year. The list was also used as a guide of what to look for, and was limited to those genera should have flowered or fruited in that month, based on the first year's data. Other plants observed flowering or fruiting were recorded in the top and bottom margins of the lists.

Identification tags on the plants were marked in pencil when a record was made (“X” for flowering, “O” for fruiting). Because the tags were not always marked, double recordings occasionally occurred. In such cases, only the first date was entered into the database. Flowering week number was recorded along with the flowering date to add security in the records. Writing down the wrong week, or date was rare as the two were in agreement but for less than 10 exceptions. When the dates did not agree the record was not added to the database. The precision of the observations was plus or minus one week, (Leverenz *et al.* 2005) therefore week numbers are used in all data analyses.

Flowering dates were determined to occur for a plant when 50% or more of the flowers on a plant had opened. Occasionally it was judged that the flowers had opened the week before but were overlooked (on rarer occasions even several weeks before) and the observation was then backdated and a note made of the backdating. Forward dating was also done when plants were very close to flowering. However, forward dating was not done in the winter or early spring months, because a week of below zero weather could completely stop development of the plants. For plants with separate male and female flowers, flowering date was judged from the male flowers. For catkin producing plants this was done in most cases by tapping the catkins or shaking the branches and looking for pollen release. Tall trees were a problem and binoculars, or spotting scope (new for this year), were used to observe the flowers, however, the tall trees could not be observed with the same accuracy as the plants with flowers near eye level. The spotting scope was only used for problem trees as it took extra time to use.

Fruiting date was judged by when 50% or more the fruit had ripened based on colour. Opening of cones or woody capsules was not used as this can be delayed for a considerable time in some species. The timing of the opening of ripe cones is an adaptation to local environments and can vary from provenance to provenance for a given species (Frankis & Lauria 1992). Fleshy fruits and some conifer cones tended to be removed by birds and other animals before we would have judged them to be ripe. Because of this the students were asked to record fruit ripening dates a bit early, especially, if they noticed that the fruits were being consumed. Nevertheless some fruits were probably missed as all the fruit were observed to disappear over a period of a few days in some species like for example *Pinus pumila* and *Podocarpus nivalis*. We also can not rule out the possibility of harvesting by visitors. People collecting in the arboretum are supposed to ask permission first but this does not always occur. Errors caused by the loss of fruits by predation are probably at most only a few percent of the whole collection, but for individual taxa this error could be misleading. For some species like *Hamamelis* species, *Larix* species or some *Pinus* species cones are held on the tree for several years. This also made it difficult to judge the fruit production, especially in tall trees where it was difficult to see the age classes, and probably added some error in the numbers of fruits recorded.

Some taxa, for example *Sinocalycanthus chinensis* produced fruit with only empty seed. These were still counted. It would be impossible for a study of this type to determine the viability of the seed for all the species studied. Thus the observation of fruiting only indicates the potential for viable seed production and is not a guarantee that viable seeds were produced.

In January 2006 a list was made of all plants that had flowered in 2005 but were not registered as having produced fruit. These plants were individually checked by the author. This check indicated that many fruiting plants had been overlooked by the students. In part this was

because of the inexperience of the students, in part it was because of the limited time available for observations, and in part because the fruit on many plants can be hidden by the foliage. Unfortunately this re-check of the plants could only give whether the plants had produced fruits in 2005. It did not allow one to set a fruiting date and the fruiting records are thus do not contribute to the fruiting dates in the attached appendix. In many cases significant underestimation of the number of ripe fruit occurred during this check . In some cases all fruit were by the time the check was made, for example in the genus *Cornus*. Still the data were quite valuable for setting the lower limit to the number of fruit producing plants.

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 gave a score of 2, 100 to 999 gave a score of 3, and 1000 or more a score of 4. This abundance data is available from the author and like the rest of the data is incorporated into the Arboretum electronic database for easy access.

Results and Discussion

Flowering

In Table 1 we present the results for each year and for both years combined. For both years taken together 1193 taxa (or 53 % of all taxa in the collection) were recorded as flowering while 1345 taxa (60 % of all taxa) produced either flowers or fruits or both. The statistic fruiting and/or flowering (*FF*) is taken as a more accurately estimates the actual fraction of taxa flowering in the arboretum. It acknowledges that the students may have overlooked some of the flowering taxa, but detected and recorded their fruit. This is not surprising as some taxa have striking fruit but small insignificant flowers.

The use of *FF* to indicate the true number of flowering taxa is however, based on the assumption that fruiting in a given season could only have occurred after flowering in that season. However, some taxa for example in the genera: *Callitropis*, *Cupressus*, *Eucryphia*, *Hedera*, *Pinus*, and *Sequoiadendron*, take more than one season to produce mature fruit. This error is small however, as less than 5 % of the taxa in the collection are represented by these taxa.

In the first year of the study *FF* was 1144 (51 % of all taxa in the collection). In the second year, *FF* was nearly the same, 1096 (49 % of all taxa). Each taxon may be represented by several plants which increase the probability of registering a flowering event or fruiting event. For all individual plants the *FF* values are 39% for 2004 and 40% for 2005. As discussed more thoroughly in the first working paper one would not expect 100 % flowering, as some taxa are too young to flower, some taxa only flower periodically, and some taxa may be too maladapted to Danish conditions to flower. Because the students could have overlooked both flowering and fruiting in some taxa these statistics must be taken as the minimum number of taxa that flowered in the arboretum.

Table 1. Summary of the number of taxa flowering and/or fruiting in the Arboretum in the first two years of the study. The fraction column gives the fraction of all living taxa in the collection.

	number	fraction
Total number of living taxa	2241	1.00
flowering		
number taxa in either year	1197	0.53
number of taxa in first year	295	0.13
number of taxa in second year	189	0.08
number of taxa in both years	713	0.32
fruiting		
number taxa in either year	969	0.43
number of taxa in first year	142	0.06
number of taxa in second year	469	0.21
number of taxa in both years	358	0.16
flowering and/or fruiting		
number taxa in either year	1345	0.60
number of taxa in first year	249	0.11
number of taxa in second year	201	0.09
number of taxa in both years	895	0.40
fruiting but not flowering		
no taxa in either year	253	0.11
no taxa in first year	95	0.04
no taxa in second year	117	0.05
no taxa in both years	41	0.02

I expected that experienced gained in the first year of this study might substantially increase the number of observations of flowering plants in the second year because I could better advise the students on what to look for. However, as noted above for flowering, the results from the two years were in general, remarkably similar. The number of taxa that were recorded as having fruit but not flowers divided by FF is an estimate of how many flowering taxa were overlooked. This statistic was 9 % in 2004 and 11% in 2005. That is in both the first two years we overlooked about 10 % of the flowering plants.

Of all taxa in the collection at least 40% appear to be regular flowerers in that they flowered and/or fruited in both years. Only 11 % flowered and/or fruited solely in the first year and only 9 % solely in the second year. Of the taxa that were assumed to flower ($FF=1345$ taxa), at least 60% were regular flowerers. It will be especially interesting to see how many are still

regularly produce flowers after more years of study. Invasive plants are known for their ability to flower on a regular basis as well as to start flowering from an early age.

Fruiting

Based on the first year's experience, a much larger effort was made in the second year to check fruit production. As a result many more fruiting taxa were detected in the second year. In the second year 75% of the *FF* taxa were observed to produce fruit as opposed to only 43% for the first year. The second year, 2005, had a notably warm autumn and this may have increased the fraction of ripe fruit production. Nevertheless, the difference between the two years is certainly largely because it is easy for the students to overlook fruiting. Especially the smaller, papery, and brownish fruits were overlooked. Furthermore many fruits are hidden by the leaves of the plants and are more easily detected after leaf fall. The problem with overlooked fruit can probably be reduced significantly in the upcoming years, if in mid- November or December, the students are asked to specifically check all plants on a list of those that had flowered that year but were not yet registered as fruiting. Furthermore it is important at the beginning of the fruiting season, like in the beginning of the flowering season to spend time showing the students the types of taxa that are easily overlooked. These data from the second year suggest that more than 75% of the flowering plants in the Arboretum produce fruit and thus have the potential to escape into the areas surrounding the collection.

Lack of pollination, frost damage to young growing fruits or predation may also contribute to reducing the number of fruiting records. Some of our taxa like *Campsis radicans* do not have proper pollinators. This taxon relies on humming birds for pollination. Such birds are not found in Europe. For other taxa the growing season could be too short or too cold such as for the late flowering *Heptacodium miconioides*. Some taxa may also flower too early in the year and spring frosts may prevent pollination or destroy flowers.

Flower, and fruit production of many if not all woody species occur at different times in different years and furthermore the abundance can vary considerably from year to year (Rehfeldt *et al.* 1971). Plants may not produce fruit abundantly every year, even though the weather is favourable. Cycling in flowering and fruiting may reflect the importance for plants to balance the need for vegetative growth with that for reproductive effort (Obesco 2002). Thus abundant fruit production may not necessarily indicate a well adapted plant. A misbalance may occur when plants are moved to a foreign environment where flower either too much or too little for optimum adaptation. For example, the abundant flowering and cone production of some provenances of *Abies koreana* in Denmark may be a major cause of the slow growth in these provenances. Special experiments where flowers are removed and the growth responses observed may indicate if the slow growth in such taxa is a result of the abundant flowering. It should be noted however, for garden use *Abies koreana* is highly prized because of its slow growth and abundant cone production.

The timing of fruiting and flowering

The average number of taxa recorded as flowering, or fruiting in given weeks is shown in Figure 1. The data are averages for the first two years of the study and are also presented in the Appendix for each taxon. It might be noted that astronomically, spring is defined to begin at spring equinox on March 21, or in week 12. Summer begins on June 21 (summer solstice), or in week 25. Autumn begins at autumn equinox on September 21, week 38. Winter begins at winter solstice, on December 21 or in week 51. It was interesting to find out that the flowering and fruiting data collected in these two years match the astronomical calendar surprisingly well, except for the start of winter. For example, one might suggest that in the Arboretum spring began in week 11 (instead of week 12) when flowering started to accelerate. Summer began in week 26 (instead of week 25) when fruits maturation started to accelerate. Autumn began in week 39 (instead of week 38) when fruit maturation reached a plateau. Finally winter started in week 46 (instead of week 51) when further visual developments in fruit maturation has almost stopped.

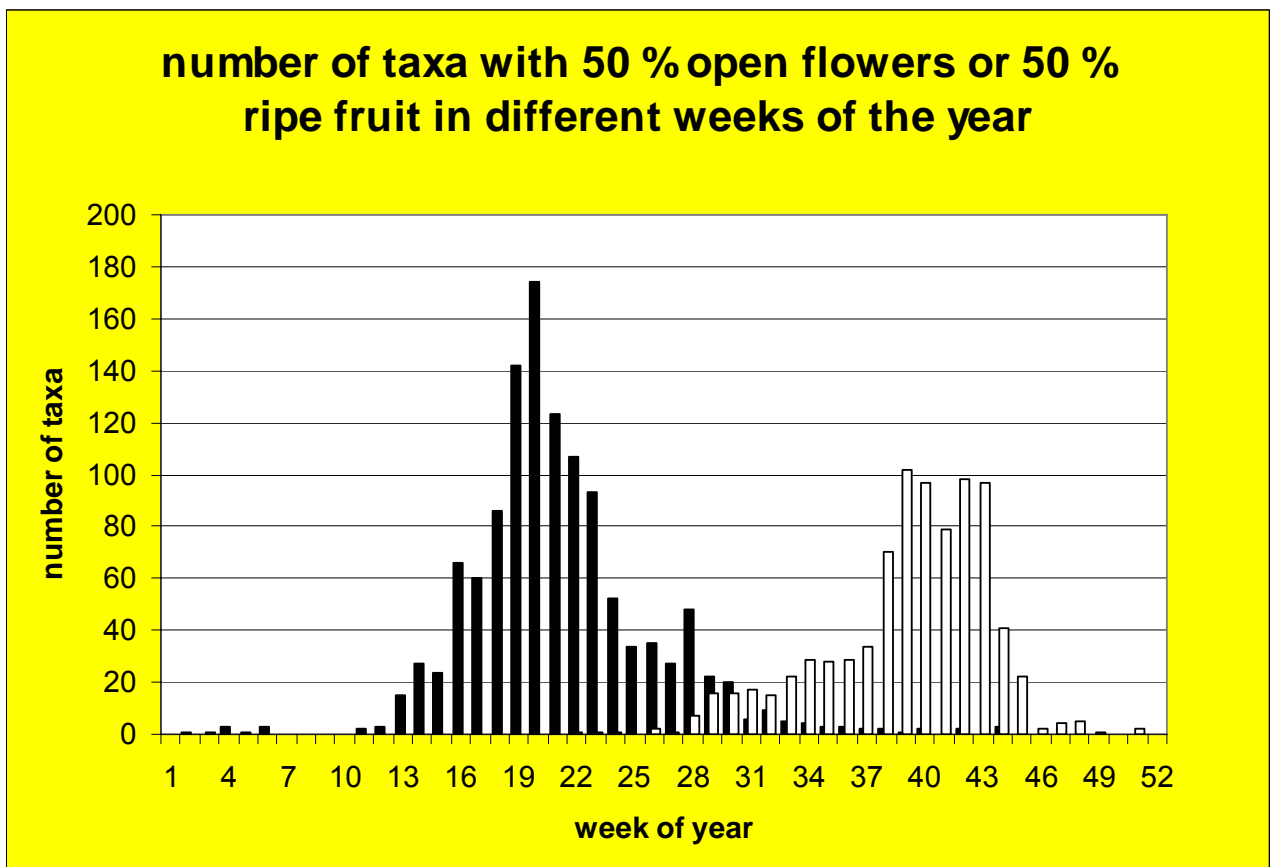


Figure 1. Total number of plants flowering or fruiting per week in the KVL Arboretum collection during the first two years of this study. Flowering is indicated by the filled columns while fruiting is indicated by the empty columns.

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Appendix

The Appendix lists in alphabetical order the flowering and fruiting weeks for different taxa growing in the Arboretum in Hørsholm. Values are averages from data collected in the first two years of observations. Mean week of flowering (or fruiting) is given for each taxa followed by; the first week for any individual within that taxa, the last week for any individual and finally the number of observations. Since the sampling was carried out during two seasons the sample size often includes double observations on a single plant. This list will be presented and updated on the Arboretum website: www.arboretet.dk.

Taxon	mean flower week	first flower week	last flower week	sample size flower	mean fruit week	first fruit week	last fruit week	sample size fruit
<i>Abelia serrata</i>	22	20	23	3				0
<i>Abies alba</i>	21	20	21	2				0
<i>Abies amabilis</i>	20	19	20	2				0
<i>Abies balsamea</i>	20	20	20	1	36	36	36	2
<i>Abies concolor</i>	20	20	20	1				0
<i>Abies concolor</i> subsp. <i>lowiana</i>	19	19	19	1				0
<i>Abies fargesii</i> var. <i>faxoniana</i>	20	20	21	3				0
<i>Abies firma</i>	20	20	20	1				0
<i>Abies grandis</i>	20	19	21	4				0
<i>Abies holophylla</i>	20	20	20	2	41	41	41	1
<i>Abies homolepis</i>	20	20	21	11				0
<i>Abies koreana</i>	19	18	21	130	44	44	44	121
<i>Abies lasiocarpa</i>	20	20	20	3				0
<i>Abies mariesii</i>	20	20	20	1				0
<i>Abies nephrolepis</i>	20	20	20	2	45	45	45	1
<i>Abies nordmanniana</i>	21	20	21	2				0
<i>Abies nordmanniana</i> subsp. <i>equi-trojani</i>	20	20	21	3	31	31	31	1
<i>Abies pinsapo</i>	21	20	21	2				0
<i>Abies procera</i>	20	19	21	4	42	40	43	3
<i>Abies veitchii</i>	20	19	20	2				0
<i>Abies veitchii</i> var. <i>sikokiana</i>	20	20	21	8				0
<i>Acer argutum</i>	18	17	19	7	40	40	40	1
<i>Acer buergerianum</i>	18	18	18	1				0
<i>Acer campestre</i>	20	19	21	6				0
<i>Acer capillipes</i>	19	19	19	1	41	39	42	2
<i>Acer cappadocicum</i>	20	19	21	2				0
<i>Acer carpinifolium</i>	19	19	19	2	39	39	39	2
<i>Acer caudatum</i> subsp. <i>ukurunduense</i>	22	17	24	3	40	40	40	2
<i>Acer circinatum</i>	19	18	21	36	38	30	42	14
<i>Acer cissifolium</i>	19	18	19	2	40	39	40	2
<i>Acer X coriaceum</i> <i>Macrophyllum</i>	19	18	19	2	38	38	38	1
<i>Acer davidii</i>	21	20	21	3	42	42	42	1
<i>Acer glabrum</i>	19	18	19	9	42	42	42	1
<i>Acer glabrum</i> subsp. <i>douglasii</i>	18	16	19	2	39	39	39	1
<i>Acer griseum</i>	20	19	20	2	39	39	39	1
<i>Acer henryi</i>	20	18	21	2	41	39	42	2
<i>Acer japonicum</i>	18	17	19	4				0
<i>Acer japonicum</i> cv. ' <i>Aconitifolium</i> '	19	18	19	2				0
<i>Acer macrophyllum</i>	19	19	19	1	34	29	38	2

Taxon	mean flower week	first flower week	last flower week	sample size flower	mean fruit week	first fruit week	last fruit week	sample size fruit
Acer maximowiczianum				0	42	42	42	1
Acer micranthum	22	21	22	4	38	31	41	3
Acer mono	18	16	21	6	41	39	42	2
Acer mono var. mayrii	17	17	17	1				0
Acer monspessulanum	19	18	19	3	40	38	42	2
Acer negundo	18	17	18	2				0
Acer negundo subsp. interius	17	16	18	4	41	38	43	5
Acer negundo cv. 'Pseudo-Californicum'	16	16	16	2	39	39	39	1
Acer negundo form violaceum	17	17	17	1	43	43	43	1
Acer palmatum	20	19	22	10	41	39	43	16
Acer palmatum var. amoenum				0	37	37	37	1
Acer palmatum cv. 'Matsumurae'	19	18	19	2	42	42	42	1
Acer pectinatum subsp. maximowiczii	17	17	17	1	38	38	38	1
Acer pectinatum subsp. pectinatum	19	19	19	1				0
Acer pensylvanicum	20	19	20	10	39	39	39	1
Acer platanoides	17	17	17	2				0
Acer pseudosieboldianum	19	18	20	14	39	38	41	11
Acer rubrum	16	15	16	8				0
Acer rufinerve	19	18	20	22	41	38	42	9
Acer saccharinum	14	13	16	8	39	39	39	1
Acer saccharinum cv. 'Pyramidale'	14	14	14	1				0
Acer saccharum subsp. nigrum				0	39	39	39	1
Acer shirasawanum	21	21	21	2	39	38	39	2
Acer sieboldianum	19	19	19	1	38	38	38	1
Acer spicatum	23	23	23	7				0
Acer stachyophyllum	19	17	20	3				0
Acer stachyophyllum subsp. betulifolium	18	17	19	6	39	38	40	3
Acer tataricum	23	22	24	7	40	37	43	12
Acer tataricum subsp. aidzuense				0	39	39	40	8
Acer tataricum subsp. ginnala	21	18	23	4	40	38	42	7
Acer tataricum subsp. semenovii	19	19	19	1				0
Acer tegmentosum	17	17	18	17	39	38	42	7
Acer triflorum	18	18	18	4	39	38	42	5
Acer tschonoskii	20	18	21	3				0
Acer tschonoskii var. rubripes	18	16	19	13	41	40	43	5
Acer ukurunduense				0	41	39	42	2
Actinidia arguta	27	27	27	1				0
Actinidia callosa				0	42	42	42	3
Actinidia cordifolia	28	28	28	1	39	39	39	1
Aesculus bushii	21	21	21	1	40	39	40	2
Aesculus californica	27	27	27	2				0
Aesculus X carnea	22	21	22	2				0
Aesculus flava	22	22	22	1	40	40	40	1
Aesculus glabra	21	20	23	14	39	39	39	1
Aesculus glabra subsp. arguta	23	22	23	2				0
Aesculus X mississippiensis	23	23	23	2				0
Aesculus parviflora	32	30	34	6				0
Aesculus pavia	23	23	23	1				0
Aesculus turbinata	21	21	21	2	39	39	39	1
Aesculus woerlitzensis	24	24	24	1	40	39	40	2
Ailanthus altissima	29	28	31	3	36	36	36	1

Taxon	mean flower week	first flower week	last flower week	sample size flower	mean fruit week	first fruit week	last fruit week	sample size fruit
<i>Alnus cordata</i>	15	13	19	28	42	42	42	6
<i>Alnus firma</i>	19	19	19	1	40	40	40	2
<i>Alnus glutinosa</i>	14	12	17	12	42	42	42	1
<i>Alnus hirsuta</i>	6.7	6	8	3	44	44	44	1
<i>Alnus hirsuta</i> var. <i>microphylla</i>	2	2	2	1	43	43	43	1
<i>Alnus hirsuta</i> var. <i>sibirica</i>	13	13	13	1	41	41	41	1
<i>Alnus incana</i>	12	6	18	4	42	41	42	4
<i>Alnus japonica</i>	17	17	17	1				0
<i>Alnus maximowiczii</i>	17	15	21	21	42	40	44	11
<i>Alnus pendula</i>	19	19	19	4	40	40	40	4
<i>Alnus rubra</i>	14	13	19	28	40	40	40	1
<i>Alnus subcordata</i>	13	12	14	8				0
<i>Alnus viridis</i> subsp. <i>crispa</i>	19	18	19	8	44	44	44	2
<i>Alnus viridis</i> subsp. <i>fruticosa</i>	18	16	20	2				0
<i>Alnus viridis</i> subsp. <i>viridis</i>				0	42	42	42	1
<i>Alnus viridis</i> subsp. <i>sinuata</i>	19	17	19	22	42	36	45	11
<i>Amelanchier alnifolia</i>	20	19	20	17	30	28	31	3
<i>Amelanchier alnifolia</i> var. <i>cusickii</i>	19	19	19	4				0
<i>Amelanchier amabilis</i>	21	20	21	10	33	33	33	5
<i>Amelanchier arborea</i>	18	18	18	1	31	31	31	1
<i>Amelanchier bartramiana</i>	19	19	19	2	30	30	30	1
<i>Amelanchier canadensis</i>	19	19	19	4	30	30	30	2
<i>Amelanchier fernaldii</i>	18	18	18	8	30	29	31	2
<i>Amelanchier florida</i>	20	19	21	11	30	29	31	7
<i>Amelanchier humilis</i>	19	19	20	6	29	29	29	2
<i>Amelanchier intermedia</i>	19	19	19	8	30	29	31	7
<i>Amelanchier laevis</i>	18	18	19	21	30	29	30	14
<i>Amelanchier ovalis</i>	20	19	21	9	32	30	32	4
<i>Amelanchier sanguinea</i>	19	19	19	1				0
<i>Amelanchier spicata</i>	19	19	20	10	36	30	41	8
<i>Amelanchier stolonifera</i>	19	19	20	6				0
<i>Amelanchier wiegandii</i>	18	18	18	2	30	30	30	1
<i>Amorpha canescens</i>	30	30	30	1	45	45	45	1
<i>Amorpha fruticosa</i>	27	25	29	2				0
<i>Amorpha fruticosa</i> var. <i>angustifolia</i>	29	29	30	3	45	45	45	1
<i>Amorpha fruticosa</i> var. <i>tennesseensis</i>	30	30	30	3				0
<i>Amorpha virgata</i>	29	29	29	1				0
<i>Aralia</i> cf. <i>chinensis</i>	29	29	29	1	40	39	40	2
<i>Aralia elata</i>	34	31	35	11	39	39	40	8
<i>Aristolochia manshuriensis</i>	21	20	21	2				0
<i>Aristolochia tomentosa</i>	28	28	28	2				0
<i>Aucuba japonica</i> cv. 'Variegata'	19	18	20	2				0
<i>Aucuba japonica</i> cv. 'Viridis'	19	18	19	2				0
<i>Berberis aitchisonii</i>	21	21	21	3				0
<i>Berberis amurensis</i>	21	19	24	7	38	32	40	9
<i>Berberis amurensis</i> var. <i>japonica</i>	20	20	21	23	37	32	42	34
<i>Berberis amurensis</i> var. <i>latifolia</i>	21	20	22	2	39	38	39	4
<i>Berberis asiatica</i>	25	25	25	1	43	43	43	3
<i>Berberis brachypoda</i>	23	23	23	1	41	40	42	2
<i>Berberis buxifolia</i>	20	19	21	6	34	29	38	7
<i>Berberis cerasina</i>				0	40	40	40	1

Taxon	mean flower week	first flower week	last flower week	sample size flower	mean fruit week	first fruit week	last fruit week	sample size fruit
<i>Berberis cuneata</i>	19	18	19	6				0
<i>Berberis darwinii</i>	20	20	21	4	32	31	32	2
<i>Berberis dictyophylla</i>	22	20	22	9	38	35	40	17
<i>Berberis empetrifolia</i>	22	21	22	2	35	30	40	2
<i>Berberis gagnepainii</i>	17	16	18	2	41	41	41	1
<i>Berberis georgii</i>	22	22	22	1	39	39	39	1
<i>Berberis jaeschkeana</i>	24	24	24	1	44	44	44	3
<i>Berberis julianae</i>	19	18	19	4				0
<i>Berberis X julianae x thunbergii</i>	19	19	19	1				0
<i>Berberis koreana</i>	22	22	23	8	38	33	42	13
<i>Berberis lempergiana</i>	20	19	20	2				0
<i>Berberis cf. mekongensis</i>	23	23	23	1	39	39	39	1
<i>Berberis oblonga</i>	21	21	21	1	40	40	40	1
<i>Berberis orientalis</i>	22	21	22	5				0
<i>Berberis parodii</i>	22	21	22	2	32	32	32	1
<i>Berberis poiretii</i>	20	19	21	6	39	38	39	6
<i>Berberis polyantha</i>	30	30	30	1	42	42	42	1
<i>Berberis pruinosa</i>	21	21	21	2				0
<i>Berberis sargentiana</i>	21	21	21	1				0
<i>Berberis sieboldii</i>	20	20	20	2	39	39	39	1
<i>Berberis thunbergii</i>	20	20	20	1	38	36	43	4
<i>Berberis thunbergii</i> cv. 'Minor'				0	43	42	43	2
<i>Berberis tischleri</i>				0	40	40	40	1
<i>Berberis vulgaris</i>	22	20	24	15	33	27	35	12
<i>Berberis zabeliana</i>	21	21	21	1				0
<i>Betula alleghaniensis</i>	18	17	21	13	51	40	55	6
<i>Betula chinensis</i>	19	19	19	2	43	43	43	2
<i>Betula corylifolia</i>	19	19	19	2				0
<i>Betula costata</i>	19	18	19	15	42	38	43	9
<i>Betula dahurica</i>	21	21	21	4	43	43	43	5
<i>Betula ermanii</i>	19	16	20	29	46	31	55	24
<i>Betula ermanii</i> var. <i>apoiensis</i>	19	19	19	2				0
<i>Betula glandulosa</i>	17	17	18	3				0
<i>Betula globispica</i>	19	19	19	2	43	43	43	2
<i>Betula grossa</i>	19	18	19	2	41	41	41	1
<i>Betula humilis</i>	19	17	19	5	34	34	34	1
<i>Betula kenaica</i>	22	22	22	1	40	40	40	2
<i>Betula kirghisorum</i>	20	20	20	2	41	41	42	3
<i>Betula lanata</i>				0	40	40	40	1
<i>Betula lenta</i>	20	20	20	1	43	43	43	1
<i>Betula litwinowii</i>				0	43	43	43	1
<i>Betula mandshurica</i> var. <i>japonica</i>	19	18	19	2				0
<i>Betula maximowicziana</i>	18	18	18	1				0
<i>Betula neoalaskana</i>	17	17	17	1	43	43	43	1
<i>Betula nigra</i>	20	19	20	3				0
<i>Betula occidentalis</i>				0	41	41	41	4
<i>Betula ovalifolia</i>	18	18	18	2				0
<i>Betula papyrifera</i>	19	17	20	20	41	35	43	12
<i>Betula papyrifera</i> var. <i>papyrifera</i>				0	41	41	41	2
<i>Betula pendula</i>	17	17	19	8	40	31	41	7
<i>Betula platyphylla</i>	17	16	18	7	42	40	43	7

Taxon	mean flower week	first flower week	last flower week	sample size flower	mean fruit week	first fruit week	last fruit week	sample size fruit
Betula platyphylla x maximowiczii	18	17	18	3	41	41	41	1
Betula populifolia	19	18	19	6	31	31	31	1
Betula pubescens	18	17	19	3	43	42	43	3
Betula pubescens subsp. czerepanovii	19	19	19	1	41	41	42	4
Betula pubescens cv. 'Urticifolia'				0	43	43	43	1
Betula raddeana	19	19	19	1				0
Betula utilis	18	18	18	1	43	42	43	5
Betula utilis var. utilis	18	18	19	3	29	3	55	2
Buddleja fallowiana	30	30	30	1				0
Buddleja globosa	25	25	25	1	36	36	36	1
Bupleurum fruticosum	35	35	35	1				0
Buxus microphylla	18	17	18	2	41	41	41	2
Buxus microphylla japonica	16	16	16	4	41	41	41	3
Buxus microphylla var. koreana	16	16	16	1				0
Buxus sempervirens	16	16	17	12	38	38	38	1
Buxus sempervirens cv. 'Arborescens'	17	17	17	1				0
Buxus sempervirens cv. 'Aureo-variegata'	16	16	17	5				0
Buxus sempervirens cv. 'Macrophylla'	16	16	17	7				0
Callicarpa dichotoma	32	30	33	9	42	40	43	3
Callicarpa japonica	32	30	34	19	41	40	43	12
Callicarpa japonica var. luxurians	33	31	34	4	40	37	42	4
Callicarpa mollis	29	28	29	2	39	33	41	4
Callitropsis nootkatensis	16	14	18	9				0
Calycanthus floridus	25	22	27	4	42	42	42	1
Campsis radicans	38	37	38	3				0
Caragana arborescens	20	19	24	27	36	32	43	26
Caragana arborescens cv. 'Lorbergii'	21	20	22	2				0
Caragana boissii	20	20	20	1	37	37	37	1
Caragana decorticans	20	20	20	2	38	33	42	2
Caragana frutex	21	20	21	2	32	32	32	2
Caragana fruticosa	21	20	22	6	36	32	39	7
Caragana fruticosa x arborescens	21	20	22	3	36	34	37	2
Caragana pygmaea				0	45	45	45	1
Caragana tragacanthoides				0	41	33	45	9
Caragana turkestanica	21	20	21	2	32	29	34	2
Carpinus betulus	18	16	19	6	43	40	44	3
Carpinus caroliniana subsp. virginiana	19	19	19	2	40	40	40	3
Carpinus caucasica	18	18	18	3	44	44	44	1
Carpinus cordata	19	18	19	5	42	40	43	3
Carpinus coreana	19	19	19	2	40	38	41	2
Carpinus japonica	19	19	19	10	43	43	43	6
Carpinus laxiflora	19	19	19	2				0
Carpinus turczaninowii				0	39	39	39	1
Carya ovata				0	35	35	35	1
Caryopteris incana	41	39	42	9				0
Castanea crenata				0	40	40	40	1
Castanea mollissima	32	32	32	1	43	43	43	1
Castanea pumila	29	28	30	2	40	40	40	1
Castanea sativa	30	28	32	3	43	43	43	1
Catalpa bignonioides	31	29	33	2				0
Catalpa ovata	34	32	36	7	38	38	39	3

Taxon	mean flower week	first flower week	last flower week	sample size flower	mean fruit week	first fruit week	last fruit week	sample size fruit
Catalpa speciosa	30	28	32	2				0
Cedrus atlantica	44	44	44	1				0
Cedrus atlantica cv. 'Glauca'	44	44	44	1				0
Cedrus deodara				0	40	40	40	1
Cedrus libani	44	43	46	6	44	43	49	5
Celastrus angulata				0	38	38	38	2
Celastrus orbiculatus	25	24	25	2	43	42	44	3
Celastrus stephanotiifolius				0	42	42	42	1
Celastrus strigillosus	24	24	24	1	35	35	35	1
Celtis jessoensis				0	42	42	42	1
Celtis occidentalis	19	19	19	2	40	40	40	1
Celtis reticulata				0	43	43	43	1
Cephalotaxus fortunei	19	17	19	4				0
Cephalotaxus harringtonii var. Harringtonii	23	23	23	1	41	41	41	1
Cephalotaxus harringtonii var. nana	19	19	19	1				0
Cephalotaxus koreana	22	21	22	2				0
Cercidiphyllum japonicum	17	17	17	7				0
Cercidiphyllum japonicum var. Magnificum	17	17	18	6	42	41	42	2
Chaenomeles cathayensis	19	19	19	2				0
Chaenomeles japonica	20	20	20	2	42	42	42	1
Chaenomeles lagenaria	20	20	20	3	40	40	40	1
Chaenomeles X superba	20	20	21	3	39	39	39	1
Chamaecyparis lawsoniana	16	14	17	15	41	41	41	5
Chamaecyparis lawsoniana cv. 'Glauca'	16	16	16	2				0
Chamaecyparis lawsoniana cv. 'Wissellii'	16	16	16	2				0
Chamaecyparis obtusa	17	17	17	9	42	42	42	1
Chamaecyparis pisifera	17	17	17	1	39	39	39	1
Chamaecyparis pisifera form filifera	17	17	17	1				0
Chamaecyparis pisifera cv. 'Plumosa'	14	14	14	1				0
Chamaecyparis thyoides	16	16	16	4	40	40	40	2
Chamaecyparis thyoides cv. 'Atrovirens'	16	15	17	3				0
Chiliodendron diffusum	25	24	26	3	34	34	34	1
Chionanthus virginicus	26	25	26	4	43	42	43	2
Cistus laurifolius	28	28	28	7	39	39	39	2
Cladrastis lutea	27	27	27	1	38	38	38	1
Clematis chiisanensis	28	27	28	2	41	39	43	2
Clematis koreana	27	27	27	1	39	39	39	1
Clematis stans	37	34	40	9				0
Clematis trichotoma	27	27	27	1				0
Clerodendrum trichotomum	35	34	35	4				0
Clethra alnifolia cv. 'Rosea'	38	38	38	3	43	43	43	2
Clethra barbinervis	35	35	36	9	43	43	43	1
Clethra tomentosa	39	39	39	1				0
Colutea arborescens	24	24	24	2	37	36	38	2
Colutea cf. Cilicica	38	38	38	1				0
Cornus alba cv. 'Sibirica'	18	15	20	2				0
Cornus alternifolia	24	23	25	16	35	32	38	17
Cornus amomum	29	22	33	18	40	33	43	12
Cornus bretschneideri				0	38	38	38	1

Taxon	mean flower week	first flower week	last flower week	sample size flower	mean fruit week	first fruit week	last fruit week	sample size fruit
<i>Cornus controversa</i>	24	23	24	28	37	36	39	29
<i>Cornus florida</i>	22	22	22	1				0
<i>Cornus kousa</i>	27	24	30	38	38	36	42	23
<i>Cornus kousa</i> var. <i>chinensis</i>	27	25	28	5	38	38	38	2
<i>Cornus kousa</i> cv. 'Satomi'	27	26	28	2	38	38	38	1
<i>Cornus macrophylla</i>	28	25	33	6				0
<i>Cornus mas</i>	15	14	16	17	39	35	41	15
<i>Cornus nuttallii</i>	21	21	21	1				0
<i>Cornus officinalis</i>	16	15	16	5	39	38	41	3
<i>Cornus purpusi</i>	25	20	29	2				0
<i>Cornus racemosa</i>	30	30	30	1	40	40	40	1
<i>Cornus racemosa</i> var. <i>gracilis</i>	28	28	28	1				0
<i>Cornus rugosa</i>	26	25	26	5	35	35	35	2
<i>Cornus sanguinea</i>	24	22	26	2	39	38	39	3
<i>Cornus sanguinea</i> subsp. <i>australis</i>	30	30	30	1	40	38	42	2
<i>Cornus stolonifera</i>	23	22	25	4	37	33	44	4
<i>Cornus stolonifera</i> var. <i>occidentalis</i>	23	22	24	6	36	33	38	3
<i>Cornus walteri</i>	28	28	28	3				0
<i>Corylopsis coreana</i>	16	15	18	3				0
<i>Corylopsis glabrescens</i>	16	15	17	8				0
<i>Corylopsis pauciflora</i>	16	15	17	15	41	40	42	3
<i>Corylopsis platypetala</i>	16	16	16	2				0
<i>Corylopsis sinensis</i>	18	18	18	2				0
<i>Corylopsis sinensis</i> form <i>veitchiana</i>	17	15	21	8	42	42	42	1
<i>Corylopsis spicata</i>	16	16	16	1	42	42	42	1
<i>Corylus americana</i>	14	14	14	1	39	39	39	1
<i>Corylus avellana</i>	13	12	15	10				0
<i>Corylus avellana</i> cv. 'Contorta'	14	14	14	2				0
<i>Corylus avellana</i> cv. 'Fuscorubra'	14	14	14	1				0
<i>Corylus avellana</i> cv. 'Heterophylla'	13	13	14	3				0
<i>Corylus chinensis</i>	14	13	14	2	40	40	40	1
<i>Corylus colurna</i>	13	12	14	3	39	39	39	1
<i>Corylus colurnoides</i>	12	11	13	2				0
<i>Corylus cornuta</i>	15	13	19	10				0
<i>Corylus cornuta</i> var. <i>californica</i>	14	13	14	9	36	36	37	3
<i>Corylus sieboldiana</i>	14	12	14	7				0
<i>Corylus sieboldiana</i> var. <i>mandshurica</i>	14	12	15	2				0
<i>Cotinus coggygria</i>	25	25	25	6	31	31	31	1
<i>Cotoneaster acuminata</i>				0	42	42	42	1
<i>Cotoneaster adpressa</i>	21	21	21	1	40	38	42	2
<i>Cotoneaster affinis</i>				0	41	41	41	2
<i>Cotoneaster bullata</i>				0	38	35	41	3
<i>Cotoneaster dielsiana</i>				0	39	35	42	10
<i>Cotoneaster foveolata</i>	23	23	23	2	39	35	42	8
<i>Cotoneaster gamblei</i>				0	42	42	42	2
<i>Cotoneaster horizontalis</i>				0	40	40	40	4
<i>Cotoneaster hupehensis</i>	23	23	23	1	41	38	43	3
<i>Cotoneaster ignava</i>	24	24	24	3	37	35	42	9
<i>Cotoneaster integerrimus</i>	19	19	20	4	33	29	42	5
<i>Cotoneaster konishii</i>	24	24	24	2	37	33	42	11
<i>Cotoneaster kullensis</i>	22	20	25	3				0

Taxon	mean flower week	first flower week	last flower week	sample size flower	mean fruit week	first fruit week	last fruit week	sample size fruit
Cotoneaster lucida				0	39	34	42	3
Cotoneaster lucida hybrid				0	35	34	35	2
Cotoneaster melanocarpus	20	20	20	1	33	28	42	4
Cotoneaster microphylla cochleata				0	39	34	43	2
Cotoneaster multiflora	21	19	22	4	36	35	38	4
Cotoneaster nebrodensis				0	38	30	43	4
Cotoneaster nummularia				0	38	38	38	1
Cotoneaster nummularioides				0	41	41	41	1
Cotoneaster rotundifolia				0	41	38	43	2
Cotoneaster salicifolia	28	28	28	1	42	41	42	2
Cotoneaster splendens	20	20	20	1	38	35	42	6
Cotoneaster uniflorus	20	20	20	1	33	29	42	3
Crataegus azarolus	23	23	23	1				0
Crataegus calycina	23	22	23	2	39	38	42	3
Crataegus canadensis				0	38	38	38	1
Crataegus chrysoarpa	21	21	21	5	35	35	35	2
Crataegus columbiana	21	21	21	1				0
Crataegus douglasii	21	21	22	5	34	33	35	4
Crataegus flabellata	21	21	21	1	34	30	38	2
Crataegus X hafniensis	22	21	22	2	35	35	35	1
Crataegus intricata				0	41	40	41	2
Crataegus laevigata				0	41	38	42	4
Crataegus macracantha	23	23	23	3	39	38	39	4
Crataegus monogyna	22	22	23	3	36	36	36	1
Crataegus nigra	20	20	21	6	35	34	38	5
Crataegus nitida				0	43	41	45	2
Crataegus orientalis	25	24	26	6	39	38	41	3
Crataegus oxyacantha	22	21	22	2	41	39	42	2
Crataegus pentagyna	24	23	24	2	41	39	42	2
Crataegus pentagyna subsp. pentagyna	25	25	25	1	38	38	38	1
Crataegus pinnatifida var. major	23	23	23	1	36	36	36	1
Crataegus rhipidophylla	22	22	23	11	40	38	42	7
Crataegus X rubrinervis	24	24	24	1				0
Crataegus songarica	23	22	23	2	41	38	42	3
Crataegus transcaspica	23	22	23	2	42	42	42	1
Crataemespilus grandiflora	23	23	23	1	43	41	44	2
Cryptomeria japonica	14	13	15	24	40	2	51	10
Cryptomeria japonica cv. 'Glauca'	14	14	14	1				0
Cryptomeria japonica var. sinensis	14	13	14	4	51	51	51	2
Cunninghamia lanceolata				0	42	42	42	2
Cupressocyparis leylandii	29	20	37	2				0
Cydonia oblonga lusitanica	23	23	23	1	42	42	42	1
Cytisus cantabricus				0	36	34	38	2
Cytisus ruthenicus	20	20	20	1	41	41	41	1
Cytisus sessilifolius	23	20	24	8	36	33	39	7
Cytisus supinus	27	26	28	2	37	36	38	3
Daphne mezereum	13	12	15	9	28	27	29	5
Davidia involucrata var. vilmoriniana	22	21	22	4	40	40	40	1
Decaisnea fargesii				0	42	42	42	1
Decaisnea insignis hybrid	25	24	26	4	44	43	44	6
Deutzia albida	23	23	23	2	43	43	43	1

Taxon	mean flower week	first flower week	last flower week	sample size flower	mean fruit week	first fruit week	last fruit week	sample size fruit
<i>Deutzia compacta</i>	23	23	23	1				0
<i>Deutzia glomeruliflora</i>	24	24	24	4				0
<i>Deutzia gracilis</i>	27	23	31	4				0
<i>Deutzia longifolia</i>	25	24	26	3	43	43	43	1
<i>Deutzia longifolia</i> cv. 'Veitchii'				0	44	44	44	1
<i>Deutzia longifolia</i> x <i>discolor</i> cv. 'Mont Rosa'	26	25	26	2	44	44	44	1
<i>Deutzia monbeigii</i>	24	24	24	1	40	40	40	1
<i>Deutzia parviflora</i>	25	24	26	4				0
<i>Deutzia pulchra</i>	27	26	28	2				0
<i>Deutzia purpurascens</i>	23	22	23	2				0
<i>Deutzia reflexa</i>	26	25	26	2	42	42	42	1
<i>Deutzia</i> X <i>rosea</i>	22	22	22	1	44	44	44	1
<i>Deutzia</i> X <i>rosea</i> cv. 'Floribunda'	23	22	23	2				0
<i>Deutzia scabra</i>	27	26	27	4	42	42	42	1
<i>Deutzia schneideriana</i>	28	26	31	5				0
<i>Deutzia staminea</i>	28	28	28	1	43	43	43	1
<i>Diervilla sessilifolia</i>	28	28	28	1				0
<i>Diervilla</i> X <i>splendens</i>	29	29	29	1	40	40	40	1
<i>Diospyros lotus</i>	29	27	31	6				0
<i>Diospyros virginiana</i>	28	28	28	1	45	45	45	1
<i>Dipelta floribunda</i>	22	21	23	4	36	32	42	3
<i>Dipteronia sinensis</i>	19	19	19	1				0
<i>Elaeagnus commutata</i>	30	30	30	1				0
<i>Elaeagnus montana</i>	27	25	30	3	33	32	34	4
<i>Elaeagnus umbellata</i>	22	21	24	7	41	38	43	11
<i>Eleutherococcus lasiogyne</i>				0	40	39	40	4
<i>Eleutherococcus sessiliflorus</i>	36	27	39	8	39	38	41	7
<i>Enkianthus campanulatus</i>	23	21	24	3	42	40	43	3
<i>Enkianthus cernuus</i> var. <i>rubens</i>	23	23	24	3				0
<i>Enkianthus deflexus</i>	22	22	22	1				0
<i>Erica carnea</i> cv. 'Winter Beauty'	14	14	14	4				0
<i>Escallonia virgata</i>	27	26	28	2				0
<i>Eucryphia glutinosa</i>	34	34	34	1				0
<i>Euodia daniellii</i>	36	36	36	1	38	34	42	2
<i>Euonymus alatus</i>	22	20	24	21	40	38	43	14
<i>Euonymus alatus</i> aptera	23	22	24	4	41	39	42	3
<i>Euonymus europaeus</i>	23	21	24	10	40	38	43	12
<i>Euonymus hamiltonianus</i> var. <i>Sieboldianus</i>	22	19	27	11	39	38	42	8
<i>Euonymus hians</i>				0	38	38	38	1
<i>Euonymus latifolius</i>	21	20	22	4	37	32	39	8
<i>Euonymus maackii</i>	25	25	25	1	40	40	40	1
<i>Euonymus macropterus</i>	19	19	20	9	36	34	42	12
<i>Euonymus nikoensis</i>				0	41	38	43	2
<i>Euonymus oxyphyllus</i>	22	20	24	18	39	38	48	36
<i>Euonymus phellomana</i>	24	24	24	2	43	42	43	2
<i>Euonymus sachalinensis</i>	20	18	20	10	38	35	39	10
<i>Euonymus sacrosanctus</i>	21	20	21	2	38	38	38	1
<i>Euonymus velutinus</i>	26	24	28	2	43	43	43	1
<i>Euonymus verrucosus</i>	23	21	23	6	37	35	38	12

Taxon	mean flower week	first flower week	last flower week	sample size flower	mean fruit week	first fruit week	last fruit week	sample size fruit
<i>Euonymus yedoensis</i>	24	24	24	2	40	38	42	5
<i>Exochorda giraldii</i>	20	20	20	8	41	40	42	2
<i>Exochorda korolkowi</i>	20	20	20	1	44	44	44	1
<i>Exochorda racemosa</i>	20	20	21	7				0
<i>Exochorda serratifolia</i>	20	20	21	8	40	40	40	1
<i>Fagus crenata</i>	21	21	21	1	39	39	39	1
<i>Fagus japonica</i>				0	38	38	38	2
<i>Fagus orientalis</i>	19	19	19	1	38	38	38	1
<i>Fagus sylvatica</i>	21	20	21	2	39	38	40	3
<i>Fagus sylvatica</i> cv. 'Fastigiata'	21	21	21	1				0
<i>Forsythia</i> cv. 'Spring Glory'	16	15	17	5				0
<i>Forsythia europaea</i>	14	14	14	3				0
<i>Forsythia</i> X <i>intermedia</i> cv. 'Lynwood Gold'	17	16	17	2				0
<i>Forsythia</i> X <i>intermedia</i> cv. 'Vitellina'	17	16	17	5				0
<i>Forsythia mandshurica</i>	16	16	16	1				0
<i>Forsythia ovata</i>	15	14	22	13				0
<i>Forsythia suspensa</i>	16	16	16	1				0
<i>Forsythia suspensa</i> var. <i>sieboldii</i>	17	16	17	2				0
<i>Forsythia viridissima</i>	17	16	17	2				0
<i>Fothergilla major</i>	21	20	21	2				0
<i>Fraxinus angustifolia</i>				0	44	44	44	6
<i>Fraxinus biltmoreana</i>				0	43	43	43	1
<i>Fraxinus caroliniana</i>				0	42	40	43	2
<i>Fraxinus chinensis</i>	23	23	23	2				0
<i>Fraxinus mandshurica</i>	21	21	22	4	40	40	40	2
<i>Fraxinus ornus</i>	22	21	23	4	44	44	44	1
<i>Fraxinus paxiana</i>	25	23	31	4	43	43	43	1
<i>Fraxinus pennsylvanica</i> sub <i>integerrima</i>				0	43	43	43	1
<i>Fraxinus pubinervis</i>				0	39	39	39	1
<i>Fraxinus rhynchophylla</i>	21	21	21	1				0
<i>Fraxinus sieboldiana</i>	21	21	22	9	40	40	40	4
<i>Fuchsia magellanica</i>	23	19	30	3				0
<i>Gaultheria mucronata</i>	23	22	24	3	39	38	40	2
<i>Gaultheria shallon</i>	27	24	29	10				0
<i>Gleditsia japonica</i>				0	44	36	48	3
<i>Gleditsia triacanthos</i>				0	48	48	48	1
<i>Halesia carolina</i>	21	20	21	4	45	42	46	3
<i>Halesia monticola</i>	21	20	21	8	45	42	46	3
<i>Hamamelis</i> x <i>intermedia</i>	5.1	2	14	53	45	45	45	2
<i>Hamamelis</i> X <i>intermedia</i> cv. 'Diane'	4	4	4	1				0
<i>Hamamelis</i> x <i>intermedia</i> cv. 'Nina'	6.8	2	11	6				0
<i>Hamamelis japonica</i>	6.2	2	13	16	42	42	42	4
<i>Hamamelis japonica</i> var. <i>Flavopurpurascens</i>	11	7	16	4	42	42	42	2
<i>Hamamelis mollis</i>	4.8	2	7	24	42	42	42	1
<i>Hamamelis vernalis</i>	4.8	2	7	4				0
<i>Hamamelis vernalis</i> cv. 'Carnea'	11	11	11	2				0
<i>Hamamelis virginiana</i>	42	40	44	20	46	46	46	2
<i>Hebe odora</i>	26	25	26	3				0
<i>Hedera helix</i>	42	41	44	3	43	43	43	1
<i>Hemiptelea davidii</i>				0	42	42	42	1

Taxon	mean flower week	first flower week	last flower week	sample size flower	mean fruit week	first fruit week	last fruit week	sample size fruit
Heptacodium miconioides	41	38	43	2				0
Hibiscus syriacus				0	44	44	44	1
Hippophae rhamnoides				0	38	35	45	9
Holodiscus discolor	29	27	30	18	37	35	38	4
Hydrangea anomala subsp. petiolaris	25	25	25	4	43	42	43	2
Hydrangea bretschneiderii	26	26	26	1				0
Hydrangea dumicola	26	25	26	6	42	42	42	3
Hydrangea heteromalla	26	25	27	6	42	42	42	2
Hydrangea paniculata	37	35	39	2				0
Hydrangea sargentiana	33	32	34	10				0
Hydrangea serrata cv. 'Intermedia'	30	29	31	2				0
Hydrangea xanthoneura	27	26	27	6	42	42	42	3
Hydrangea xanthoneura var. Setchuenensis	26	26	26	5				0
Hypericum androsaemum	30	30	30	1	40	38	41	3
Hypericum densiflorum	33	31	35	2	44	41	51	3
Hypericum aff. kouytchense	30	29	33	4				0
Hypericum patulum	31	30	31	5	41	41	41	2
Idesia polycarpa				0	42	42	42	1
Ilex aquifolium	21	21	22	12	41	40	43	21
Ilex aquifolium form ferox	21	21	21	1				0
Ilex ciliospinosa	20	19	20	3				0
Ilex colchica cv. 'Pojarck'				0	42	42	42	2
Ilex geniculata				0	41	38	43	3
Ilex laevigata	29	29	29	3	42	42	42	3
Ilex pernyi				0	42	38	44	3
Ilex serrata				0	42	42	42	1
Ilex sugeroki var. longepedunculata				0	41	41	41	1
Ilex verticillata	29	28	32	31	42	42	44	14
Ilex yunnanensis	21	21	21	1	40	38	42	2
Iris setosa	22	22	22	1	37	37	37	1
Itea virginica	31	29	32	2				0
Jamesia americana	23	22	23	3				0
Jasminum fruticans	23	22	23	6				0
Juglans X bixbyi				0	40	39	40	4
Juglans cathayensis				0	41	39	42	2
Juglans cinerea	21	21	22	4	40	40	40	1
Juglans nigra				0	45	45	45	1
Juglans regia				0	39	39	39	1
Juglans rupestris				0	42	42	42	2
Juglans sieboldiana	23	23	23	1				0
Juglans sieboldiana var. cordiformis	21	20	21	2				0
Juniperus chinensis	16	15	17	5	39	39	39	1
Juniperus chinensis cv. 'Pfitzeriana'	17	17	17	2	39	39	39	1
Juniperus chinensis var. sargentii	16	16	17	6	43	43	43	1
Juniperus communis	19	17	21	2	43	43	43	1
Juniperus communis var. communis				0	31	30	33	3
Juniperus communis var. saxatilis				0	43	43	43	1
Juniperus recurva	14	14	14	2				0
Juniperus rigida	21	21	21	1				0
Juniperus squamata	16	16	16	2				0

Taxon	mean flower week	first flower week	last flower week	sample size flower	mean fruit week	first fruit week	last fruit week	sample size fruit
Juniperus squamata cv. 'Meyeri'	16	16	16	1				0
Juniperus virginiana	16	16	16	2				0
Juniperus virginiana var. crebra	15	14	16	11	44	43	44	3
Kalmia latifolia	26	25	28	20	43	43	43	1
Kalopanax pictus	34	34	34	1				0
Kerria japonica	21	20	23	7	42	42	42	1
Koelreuteria paniculata	32	31	33	4	40	39	41	5
Kolkwitzia amabilis	25	24	25	15	42	42	42	1
Laburnocytisus adami	22	22	22	1				0
Laburnum alpinum	23	22	24	17	39	32	45	39
Laburnum alpinum cv. 'Lucidum'	22	22	22	1	40	40	40	1
Laburnum anagyroides	23	22	24	11	39	32	43	13
Laburnum watereri	22	22	22	4	38	32	43	6
Larix (decidua x kaempferi) x fri	16	16	16	1				0
Larix (gmelinii x kaempferi) x gmelinii	14	14	14	2	43	43	43	2
Larix (gmelinii x kaempferi) x kaempferi	15	15	15	2	43	43	43	1
Larix decidua	16	14	17	28	43	35	51	13
Larix gmelinii	16	15	16	4	42	38	51	5
Larix gmelinii var. olgensis	16	14	16	13	48	40	51	4
Larix gmelinii var. principis-rupprechtii	15	14	17	11	44	36	51	6
Larix gmelinii hybrid	16	16	16	2				0
Larix griffithii	17	17	17	1				0
Larix kaempferi	16	15	17	10	43	43	43	5
Larix kaempferi cv. 'Jakobsens Pyramide'				0				0
Larix laricina	17	16	19	6	42	36	43	6
Larix laricina x decidua	17	17	17	1	43	43	43	1
Larix maritima				0				0
Larix X marschlinii	16	15	16	11	44	39	51	5
Larix occidentalis	16	16	17	4	39	28	43	4
Larix potaninii	17	17	17	4				0
Larix sibirica	16	15	16	7				0
Larix sibirica var. sukaczewii	16	16	16	2				0
Lespedeza bicolor	33	33	33	1				0
Lespedeza maximowiczii	28	27	29	2				0
Leycesteria formosa	36	30	41	2	40	39	41	2
Ligustrum acuminatum	29	29	29	1	44	44	44	1
Ligustrum delavayanum	29	28	29	2	41	41	41	1
Ligustrum foliosum	28	27	29	6	43	43	43	6
Ligustrum ibolium	30	28	31	2	43	43	43	2
Ligustrum ibota	28	28	29	3	42	40	43	2
Ligustrum obtusifolium	28	28	28	3	39	39	39	1
Ligustrum obtusifolium regelianum	27	25	29	2	43	43	43	1
Ligustrum ovalifolium	32	32	32	1				0
Ligustrum sinense	29	28	30	4	40	40	40	2
Ligustrum vicaryi	29	29	29	1	42	41	43	2
Ligustrum vulgare	28	27	30	14	42	40	44	7
Ligustrum vulgare cv. 'Atrovirens Select'	30	29	30	2				0
Lindera benzoin	17	16	17	2				0
Liriodendron tulipifera	24	21	27	2				0
Lonicera alpigena	22	20	23	3	32	32	32	3
Lonicera caerulea	20	17	24	12	29	29	29	1

Taxon	mean flower week	first flower week	last flower week	sample size flower	mean fruit week	first fruit week	last fruit week	sample size fruit
Lonicera caerulea var. edulis	19	19	19	1				0
Lonicera caucasica	24	23	24	6	34	32	42	7
Lonicera chamissoi				0	34	34	34	4
Lonicera chrysantha				0	35	30	42	5
Lonicera chrysantha form crassipes	20	20	20	15	35	33	41	22
Lonicera demissa	20	20	21	4	35	33	43	10
Lonicera ferdinandii	23	23	23	2	34	34	34	2
Lonicera X gibbiflora	20	20	20	2	32	32	32	1
Lonicera henryi	28	28	28	1				0
Lonicera hispida				0	29	28	30	6
Lonicera involucrata	23	19	24	5	29	28	32	6
Lonicera korolkowii	24	24	24	1				0
Lonicera lanceolata				0	32	32	32	1
Lonicera maackii var. podocarpa	25	24	25	3	42	41	42	5
Lonicera X minutiflora	21	21	21	1				0
Lonicera X muendeniensis var. xanthocarpa				0	32	32	32	1
Lonicera muscaviensis	21	21	21	1	32	32	32	1
Lonicera nigra	22	20	28	10	28	19	32	20
Lonicera X notha cv. 'Alba'	20	20	20	2				0
Lonicera periclymenum	27	27	27	1				0
Lonicera prolifera	25	25	25	1				0
Lonicera X purpusii	16	15	16	2				0
Lonicera ramosissima	21	20	21	5	33	29	42	12
Lonicera cf. serreana	21	21	21	3	34	34	34	3
Lonicera stanantha	19	19	19	2	29	29	29	1
Lonicera tangutica				0	32	32	32	1
Lonicera tatarica	22	21	23	6	30	28	31	8
Lonicera vesicaria	25	25	25	2	40	40	40	2
Lonicera xylosteum	21	20	22	22	32	29	42	42
Maackia amurensis	30	30	30	2	48	48	48	1
Maackia amurensis var. buergeri	30	30	30	1	48	48	48	1
Maackia fauriei	32	31	34	6				0
Magnolia kobus	18	17	19	6				0
Magnolia sieboldii	23	23	24	10	40	39	43	4
Magnolia sieboldii subsp. sinensis	22	22	22	1	42	39	48	3
Magnolia X soulangeana cv. 'Lennei'	22	22	22	2				0
Magnolia sprengeri cv. 'Diva'	18	18	18	1				0
Magnolia stellata	18	18	19	4	43	43	43	1
Magnolia tripetala	24	23	24	2	43	43	43	2
Mahonia aquifolium	19	18	20	22	33	31	43	19
Mahonia nervosa	19	18	19	2				0
Mahonia repens	19	19	19	3	33	33	33	1
Malus cv. 'Arrow'	21	21	21	1	39	39	39	2
Malus cv. 'John Downie'	20	20	20	1	40	40	40	1
Malus adstringens cv. 'Queens Choice'				0	41	41	41	1
Malus asiatica	22	20	23	6	39	35	42	2
Malus asiatica var. wrightii	21	21	21	3	39	39	39	2
Malus baccata	20	19	22	15	39	33	42	18
Malus floribunda	21	20	21	6	43	39	50	4
Malus fusca				0	41	41	41	1

Taxon	mean flower week	first flower week	last flower week	sample size flower	mean fruit week	first fruit week	last fruit week	sample size fruit
Malus halliana	21	21	21	1	37	33	42	4
Malus hupehensis	20	18	21	6	42	41	43	2
Malus kansuensis form calva	20	20	20	1	40	39	41	2
Malus mandshurica	21	20	22	2	37	34	42	3
Malus micromalus	20	19	20	3	42	42	42	1
Malus prunifolia	21	20	21	2	39	39	39	1
Malus robusta				0	42	41	42	2
Malus rockii	20	20	20	1	41	39	42	2
Malus sargentii	21	21	21	6	40	39	42	9
Malus sargentii cv. 'Rosea'	20	20	20	2	41	40	41	2
Malus sikkimensis	21	21	21	2				0
Malus sylvestris	20	20	20	1	42	42	42	1
Malus toringo	20	20	21	4	41	39	42	4
Malus toringo var. aborescens	20	20	20	2	40	39	41	3
Malus toringoides	22	22	22	2	40	39	42	8
Malus yunnanensis	22	22	22	1	39	39	39	1
Malus yunnanensis var. veitchii				0	42	42	42	1
Meliosma flexuosa				0	42	42	42	1
Meliosma tenuis	29	29	29	1	41	41	41	1
Meliosma veitchiorum	22	21	22	2				0
Menziesia ferruginea	22	22	22	2				0
Menziesia pilosa	23	23	23	1	46	41	50	2
Mespilus germanica	23	22	24	12	44	35	51	7
Metasequoia glyptostroboides	14	14	14	3	51	51	51	6
Microbiota decussata	13	13	14	12				0
Myrica gale	16	16	16	3				0
Nandina domestica	33	29	36	2				0
Neillia longiracemosa	24	23	25	2	38	38	38	1
Neillia ribesioides	25	24	25	4	42	38	45	6
Nothofagus antarctica	20	19	20	5	34	34	34	2
Nothofagus obliqua	19	19	19	1				0
Nothofagus pumilio	20	20	20	1				0
Nyssa sylvatica	26	26	26	1	42	42	42	1
Oemleria cerasiformis	16	15	17	12	39	39	39	1
Oplopanax horridus	23	22	23	2	29	28	31	7
Oplopanax horridus x japonicus				0	30	30	30	1
Orixa japonica	20	20	21	13				0
Osmanthus delavayi	18	18	18	1				0
Ostrya carpinifolia	19	18	19	4	40	39	43	3
Ostrya japonica	19	19	19	2	41	39	43	4
Ostrya virginiana	19	19	19	11	43	40	43	7
Paeonia delavayi	22	22	22	3	41	39	43	4
Paeonia X suffruticosa	22	21	23	21	39	38	41	27
Paulownia tomentosa	23	23	23	1	41	39	43	2
Paxistima myrtifolia	24	14	33	2	2	2	2	1
Petteria ramentacea	23	22	23	2	38	38	38	1
Phellodendron amurense	24	24	25	3	43	42	44	2
Phellodendron amurense x japonicum				0	42	42	43	5
Phellodendron chinense				0	44	44	44	2
Phellodendron insulare				0	43	43	43	2
Phellodendron sachalinense				0	41	39	42	3

Taxon	mean flower week	first flower week	last flower week	sample size flower	mean fruit week	first fruit week	last fruit week	sample size fruit
Philadelphus cv. 'Virgina'	25	24	25	2	43	43	43	1
Philadelphus X cymosus	26	26	26	2				0
Philadelphus delavayi var. calvescens	24	23	24	7	43	43	43	5
Philadelphus gordonianus	26	26	26	1				0
Philadelphus incanus	26	26	26	1				0
Philadelphus laxis	27	26	28	2				0
Philadelphus X lemoinei	26	26	26	2				0
Philadelphus magdaleneae	23	23	23	4				0
Philadelphus pekinensis	26	26	26	9				0
Philadelphus purpurascens	24	24	24	7	39	38	40	6
Philadelphus satsumanus	25	25	25	1				0
Philadelphus schrenkii	24	23	26	31	43	38	45	4
Philadelphus subcanus	24	24	24	1	43	43	43	3
Philadelphus tenuifolius	24	23	24	6	43	43	43	5
Philadelphus verrucosus	29	28	29	2				0
Philadelphus X viginalis	29	29	29	1				0
Photinia beauverdiana	24	23	24	3	40	39	42	6
Photinia davidiana	27	26	27	2	43	43	43	1
Photinia laevis	23	22	23	4	39	39	39	4
Photinia melanocarpa	25	22	28	2	38	38	38	1
Photinia parvifolia	28	23	32	7	41	39	43	7
Photinia villosa	23	22	24	18	41	38	43	27
Photinia villosa form maximowicziana	25	24	25	5	40	39	42	6
Photinia villosa var. sinica	24	23	24	5	42	40	43	5
Physocarpus capitatus	25	24	26	22	42	38	45	13
Physocarpus opulifolius	26	25	27	27	40	38	45	24
Picea (sitka x glauca) x glauca	19	19	19	1				0
Picea abies	21	21	21	2				0
Picea asperata	20	19	20	7				0
Picea crassifolia	20	19	20	6				0
Picea engelmannii	21	20	21	3				0
Picea engelmannii subsp. mexicana	20	20	21	5	41	41	41	2
Picea glauca	20	19	21	12	37	36	42	6
Picea glehnii	20	20	20	2	39	39	39	1
Picea jezoensis	20	19	21	21	42	36	44	6
Picea jezoensis x sitchensis	20	20	20	1	41	41	41	1
Picea koraiensis	20	20	20	1				0
Picea koyamae	20	20	20	1				0
Picea likiangensis	20	19	21	11	44	44	44	1
Picea X lutzii	20	20	21	7				0
Picea meyeri	20	20	20	2				0
Picea obovata				0	38	38	38	1
Picea omorica	21	21	21	1				0
Picea orientalis	21	21	21	3	35	35	35	1
Picea purpurea	20	20	21	3				0
Picea rubens	21	21	21	1				0
Picea sitchensis	20	19	21	38	42	41	43	14
Picea sitchensis x mariana	20	20	20	1				0
Picea wilsonii	20	20	20	5				0
Picrasma quassioides	22	22	22	1				0
Pieris floribunda	17	17	17	1				0

Taxon	mean flower week	first flower week	last flower week	sample size flower	mean fruit week	first fruit week	last fruit week	sample size fruit
<i>Pieris japonica</i>	16	14	17	15	59	48	65	3
<i>Pinus armandii</i>				0	41	41	41	2
<i>Pinus attenuata</i>	21	20	22	13	41	41	41	4
<i>Pinus banksiana</i>	21	20	23	10	43	43	43	3
<i>Pinus contorta</i>	21	20	22	153	41	41	41	70
<i>Pinus contorta</i> var. <i>latifolia</i>	21	20	21	7	43	43	43	3
<i>Pinus densata</i>	21	21	22	5				0
<i>Pinus densiflora</i>	22	22	23	8	42	29	44	11
<i>Pinus densiflora</i> form <i>erecta</i>				0	44	44	44	1
<i>Pinus flexilis</i> var. <i>reflexa</i>				0	43	43	43	1
<i>Pinus heldreichii</i>	23	23	23	1				0
<i>Pinus jeffreyi</i>	21	21	21	1	46	46	46	1
<i>Pinus koraiensis</i>	24	24	24	3	45	44	49	6
<i>Pinus mugo</i>	23	23	24	3	44	44	44	1
<i>Pinus mugo</i> subsp. <i>uncinata</i>	23	22	24	14	42	35	46	7
<i>Pinus</i> X <i>mugo</i> x <i>sylvestris</i>	23	23	23	1				0
<i>Pinus nigra</i>	23	23	23	6				0
<i>Pinus nigra</i> subsp. <i>nigra</i>	23	23	24	7	43	43	43	1
<i>Pinus nigra</i> subsp. <i>pallasiana</i>	23	23	23	1				0
<i>Pinus nigra</i> subsp. <i>salzmannii</i>				0	44	44	44	1
<i>Pinus</i> X <i>nigra</i> x <i>sylvestris</i>	22	21	23	2	31	31	31	1
<i>Pinus peuce</i>	23	23	24	6	40	38	43	9
<i>Pinus pinaster</i> subsp. <i>escarena</i>	23	22	23	8				0
<i>Pinus ponderosa</i>	21	20	22	12	39	28	43	5
<i>Pinus ponderosa</i> var. <i>ponderosa</i>	20	20	20	1	41	40	41	4
<i>Pinus ponderosa</i> var. <i>scopulorum</i>	21	21	21	1				0
<i>Pinus pumila</i>	21	20	22	8	43	43	43	3
<i>Pinus pungens</i>	21	20	21	2	43	43	43	1
<i>Pinus resinosa</i>	21	21	21	4	43	43	43	2
<i>Pinus rigida</i>	20	20	20	3	42	41	43	6
<i>Pinus strobus</i>				0	40	40	40	1
<i>Pinus sylvestris</i>	21	15	23	88	44	38	46	32
<i>Pinus sylvestris</i> var. <i>mongolica</i>	20	20	22	15	44	43	44	10
<i>Pinus</i> X <i>sylvestris</i> x <i>free</i>	22	21	23	2				0
<i>Pinus tabuliformis</i>	23	23	23	2	44	44	44	1
<i>Pinus thunbergii</i>	22	22	22	1				0
<i>Pinus wallichiana</i>	24	24	24	2				0
<i>Platycladus orientalis</i>	14	13	16	8	51	51	51	1
<i>Podocarpus nivalis</i>				0	27	23	30	3
<i>Poncirus trifoliata</i>	23	23	23	1				0
<i>Populus</i> x <i>canadensis</i> cv. 'Eugenei'	16	16	16	1				0
<i>Populus</i> X <i>canadensis</i> cv. 'Henryana'	15	15	15	1				0
<i>Populus</i> X <i>canadensis</i> cv. 'Robusta'	16	16	16	1				0
<i>Populus deltoides</i> x <i>trichocarpa</i>	17	16	17	2				0
<i>Populus purdomii</i>	19	19	19	1				0
<i>Populus tremula</i>	16	16	16	1				0
<i>Populus wilsonii</i>	21	20	21	2				0
<i>Populus wilsonii</i> (♀) <i>lasiocarpa</i> (♂)	19	18	19	2	26	26	26	1
<i>Potentilla fruticosa</i>	28	22	35	21	39	39	41	6
<i>Prunus</i> cv. 'Hally Jollivette'	18	18	18	2				0
<i>Prunus avium</i>	18	18	19	11	30	28	32	6

Taxon	mean flower week	first flower week	last flower week	sample size flower	mean fruit week	first fruit week	last fruit week	sample size fruit
<i>Prunus cerasifera</i>	17	17	17	2	37	37	37	1
<i>Prunus cerasifera</i> subsp. <i>divaricata</i>	18	18	18	1	39	39	39	1
<i>Prunus cornuta</i>	22	22	22	1				0
<i>Prunus cyclamina</i>	18	17	18	2				0
<i>Prunus domestica</i> subsp. <i>insititia</i>	19	19	19	4	39	39	39	3
<i>Prunus emarginata</i>				0	34	34	34	1
<i>Prunus grayana</i>	21	21	22	12	37	35	40	12
<i>Prunus incisa</i>	16	16	16	1				0
<i>Prunus laurocerasus</i>	19	17	20	3	42	42	42	1
<i>Prunus laurocerasus</i> cv. 'Zabeliana'	20	20	20	1				0
<i>Prunus lusitanica</i>	25	19	28	3				0
<i>Prunus maackii</i>	20	19	21	12	34	29	35	4
<i>Prunus mahaleb</i>	20	19	21	10	34	33	36	5
<i>Prunus maximowiczii</i>	21	20	21	2				0
<i>Prunus nipponica</i>	16	16	17	4				0
<i>Prunus nipponica</i> var. <i>kurilensis</i>	17	17	17	2				0
<i>Prunus padus</i>	19	19	21	36	33	29	41	11
<i>Prunus padus</i> var. <i>glauca</i>	19	18	19	7	30	30	32	7
<i>Prunus padus</i> subsp. <i>padus</i>	19	19	19	6	31	27	32	4
<i>Prunus pensylvanica</i>	19	19	20	8	32	29	34	2
<i>Prunus pilosiuscula</i>	19	18	19	2				0
<i>Prunus quelpaertensis</i>	16	16	16	1				0
<i>Prunus sargentii</i>	16	16	17	3	34	34	34	1
<i>Prunus scopulorum</i>	16	16	16	1				0
<i>Prunus serotina</i>	23	22	24	15	41	41	41	1
<i>Prunus serrula</i> var. <i>thibetica</i>	19	19	19	2	33	33	33	1
<i>Prunus serrulata</i> cv. 'Chosiuhizakura'	19	19	19	1	34	34	34	1
<i>Prunus serrulata</i> cv. 'Fudan-Zakura'	17	17	17	1				0
<i>Prunus serrulata</i> cv. 'Hokusai'	19	19	19	1				0
<i>Prunus serrulata</i> cv. 'Hosokawa-Odora'	20	19	20	2	34	34	34	1
<i>Prunus serrulata</i> cv. 'Ouchii-Zakura'	19	19	19	5				0
<i>Prunus serrulata</i> cv. 'Sakon'	19	19	19	1	34	34	34	1
<i>Prunus serrulata</i> cv. 'Shujaku'	21	21	21	2				0
<i>Prunus serrulata</i> var. <i>spontanea</i>	19	19	19	2				0
<i>Prunus X sieboldii</i>	20	19	20	6	34	34	34	1
<i>Prunus spinosa</i>	20	19	21	4				0
<i>Prunus ssiori</i>	22	22	22	4	35	35	35	1
<i>Prunus subcordata</i>	18	18	18	2				0
<i>Prunus subhirtella</i> cv. 'Pendula'	18	16	19	2				0
<i>Prunus subhirtella</i> x <i>yedoensis</i>	18	17	18	2				0
<i>Prunus susquehanae</i>	20	19	21	2	34	34	34	1
<i>Prunus tomentosa</i>	17	17	17	1				0
<i>Prunus virginiana</i>	22	21	22	9	35	33	39	5
<i>Prunus virginiana</i> subsp. <i>melanocarpa</i>	19	19	19	1				0
<i>Prunus X yedoensis</i>	19	18	19	4				0
<i>Pseudotsuga menziesii</i>	20	19	21	6	42	40	43	3
<i>Pseudotsuga menziesii</i> var. <i>glauca</i>	20	20	20	1	43	43	43	1
<i>Ptelea trifoliata</i>				0	41	41	41	2
<i>Ptelea trifoliata</i> var. <i>mollis</i>	24	22	25	4				0
<i>Pterocarya fraxinifolia</i>	20	19	20	2	42	42	42	1
<i>Pterocarya macroptera</i>				0	40	40	40	2

Taxon	mean flower week	first flower week	last flower week	sample size flower	mean fruit week	first fruit week	last fruit week	sample size fruit
<i>Pterocarya rhoifolia</i>	21	19	23	3	41	40	42	5
<i>Pterocarya stenoptera</i>				0	42	42	42	1
<i>Pterostyrax corymbosa</i>	24	23	24	2	44	42	46	2
<i>Pterostyrax hispida</i>	26	25	26	4	42	42	42	2
<i>Pyracantha angustifolia</i>				0	38	35	41	3
<i>Pyracantha coccinea</i>	24	24	24	1	43	43	43	1
<i>Pyracantha crenato-serrata</i>	26	26	26	3	40	39	41	3
<i>Pyrus amygdaliformis</i> var. <i>persica</i>	20	19	20	2	39	39	39	2
<i>Pyrus calleryana</i>	21	20	21	4	44	44	44	2
<i>Pyrus calleryana</i> var. <i>faurei</i>	19	19	19	1	39	39	39	1
<i>Pyrus X canescens</i>	19	19	19	1				0
<i>Pyrus communis</i>	19	19	20	3	40	38	42	2
<i>Pyrus lindleyi</i>	19	19	20	3	42	42	42	1
<i>Pyrus pyraster</i>	19	19	19	9	38	38	38	3
<i>Pyrus salicifolia</i>				0	41	39	42	2
<i>Pyrus salicifolia</i> cv. 'Pendula'	19	19	19	2	42	42	42	2
<i>Pyrus ussuriensis</i>	19	18	19	2				0
<i>Pyrus ussuriensis hondoensis</i>	19	19	19	2	40	39	41	3
<i>Quercus alba</i>				0	31	31	31	1
<i>Quercus cerris</i>	21	20	21	2				0
<i>Quercus coccinea</i>	20	20	20	1	31	31	31	1
<i>Quercus frainetto</i>	21	21	21	1				0
<i>Quercus ilicifolia</i>	22	22	22	1				0
<i>Quercus macranthera</i>	20	19	21	5				0
<i>Quercus petraea</i>	20	20	21	6	40	40	40	3
<i>Quercus petraea</i> Høgholteegen	20	20	20	1				0
<i>Quercus petraea</i> subsp. <i>ibirica</i>	20	19	21	2				0
<i>Quercus petraea</i> x <i>robur</i>	20	20	20	1				0
<i>Quercus pontica</i>	21	21	21	1				0
<i>Quercus robur</i>	20	20	20	12	41	39	43	6
<i>Quercus robur</i> Generalens Eg	20	20	20	2	43	43	43	1
<i>Quercus robur</i> subsp. <i>imeretina</i>	19	19	19	2				0
<i>Quercus robur</i> Prins Bernhards Eg	20	20	20	1	43	43	43	1
<i>Quercus robur</i> Prins Carls Eg	20	20	20	2	43	43	43	1
<i>Quercus robur</i> Skodsbøleegen	20	20	20	1	43	43	43	1
<i>Quercus robur</i> Skovfogedegen	20	20	20	1				0
<i>Quercus robur</i> cv. 'Tardissima'	20	20	20	1	43	43	43	1
<i>Quercus rubra</i>	21	21	21	1	40	40	40	1
<i>Quercus X schochiana</i>				0	31	31	31	1
<i>Quercus texana</i>				0	29	29	29	1
<i>Quercus velutina</i>	21	21	21	1				0
<i>Rhamnus alpina</i>	21	20	21	4				0
<i>Rhamnus cathartica</i>	23	19	23	8	37	35	42	23
<i>Rhamnus frangula</i>	28	24	33	9	37	31	42	14
<i>Rhamnus globosa</i>	23	23	23	2	38	38	38	5
<i>Rhamnus libanotica</i>				0	39	39	39	2
<i>Rhamnus purshiana</i>				0	36	35	38	3
<i>Rhamnus saxatilis</i> subsp. <i>tinctorius</i>				0	38	38	38	4
<i>Rhamnus ussuriensis</i>	23	23	24	3	43	41	44	7
<i>Rhinanthus angustifolius</i>	28	28	28	1	38	38	38	1
<i>Rhododendron</i> cv. 'Fireball' (Exbury)	28	24	31	2				0

Taxon	mean flower week	first flower week	last flower week	sample size flower	mean fruit week	first fruit week	last fruit week	sample size fruit
Rhododendron adenogynum	17	16	18	3	45	45	45	3
Rhododendron adenosum	24	24	24	1				0
Rhododendron albrechtii	19	18	19	12	43	42	45	11
Rhododendron alutaceum	18	18	18	2	45	45	45	1
Rhododendron cf. ambiguum	21	20	21	2	43	43	43	1
Rhododendron arborescens	26	25	27	4				0
Rhododendron argrophyllum	19	19	19	1				0
Rhododendron atlanticum	23	22	24	10	45	45	45	8
Rhododendron augustinii hybrid	20	19	21	10	43	43	43	6
Rhododendron aureum	17	17	17	1				0
Rhododendron auriculatum	31	31	31	1				0
Rhododendron brachycarpum	23	22	24	9	43	40	45	24
Rhododendron brachycarpum subsp. Fauriei	23	22	26	47	42	39	45	37
Rhododendron brachycarpum subsp. Tigerstedtii	24	23	25	3	44	40	45	11
Rhododendron bureavii	30	30	30	1				0
Rhododendron calendulaceum	24	23	24	13	45	45	45	5
Rhododendron calophytum	17	17	17	1				0
Rhododendron campanulatum	18	18	19	4				0
Rhododendron campanulatum var. Wallichii	18	18	18	1				0
Rhododendron campanulatum hybrid	19	18	20	4				0
Rhododendron campylocarpum	20	19	21	4				0
Rhododendron canadense	19	19	19	21				0
Rhododendron canescens	21	21	21	1				0
Rhododendron catawbiense	24	22	24	16	43	43	43	2
Rhododendron catawbiense var. insularis	23	22	23	2				0
Rhododendron catawbiense x ponticum cv. 'Morelianum'	22	22	22	4				0
Rhododendron caucasicum	18	18	18	1				0
Rhododendron caucasicum hybrid				0	43	43	43	3
Rhododendron caucasicum hybrid cv. 'Rosamundi'	19	18	19	6	42	42	42	1
Rhododendron caucasicum x ponticum 'Album' cv. 'Cunningham's White'	20	19	21	11	38	37	41	13
Rhododendron cerasinum	33	29	36	2	45	45	45	1
Rhododendron cinnabarinum	21	20	21	2				0
Rhododendron clementinae	19	19	19	1				0
Rhododendron coeloneurum	18	18	18	1				0
Rhododendron concinnum	20	19	21	6				0
Rhododendron cumberlandense	28	28	28	2				0
Rhododendron dauricum	15	13	16	8				0
Rhododendron dauricum var. album	16	15	17	2				0
Rhododendron davidsonianum	20	20	20	2				0
Rhododendron decorum	23	23	23	1				0
Rhododendron degronianum subsp. Degronianum	18	18	18	1	43	43	43	2
Rhododendron degronianum subsp. Heptamerum	20	18	22	8				0
Rhododendron denudatum	17	16	18	2				0
Rhododendron 'Dr. V.H. Rütgers' x	20	20	20	10				0

Taxon	mean flower week	first flower week	last flower week	sample size flower	mean fruit week	first fruit week	last fruit week	sample size fruit
williamsianum								
Rhododendron elegantulum	18	18	18	2				0
Rhododendron elliottii hybrid cv. 'Gibraltar'	23	23	23	1				0
Rhododendron fastigiatum	21	20	21	2				0
Rhododendron ferrugineum	24	21	33	9	36	36	38	11
Rhododendron ferrugineum x minus	24	24	24	9	43	43	43	7
Rhododendron fortunei	21	19	22	6	49	42	55	12
Rhododendron fortunei x williamsianum cv. 'Oldenburg'	21	20	22	6	42	42	42	3
Rhododendron groenlandicum	22	22	22	4				0
Rhododendron haematodes	20	19	20	2				0
Rhododendron hippophaeoides	19	18	20	6				0
Rhododendron hippophaeoides hybrid	20	19	20	2				0
Rhododendron hirsutum	25	24	25	5	36	36	37	7
Rhododendron houlstonii	20	20	20	3				0
Rhododendron hybrid h 'Aberconway' hybrid	17	17	17	1				0
Rhododendron hybrid cv. 'Cheerful Giant'	23	23	24	7				0
Rhododendron hybrid cv. 'Klondyke'	22	22	22	8				0
Rhododendron hybrid cv. 'Mount St. Helens'	22	22	22	5				0
Rhododendron hybrid cv. 'Persil'	22	22	22	6				0
Rhododendron hybrid cv. 'Pink Pearl'	21	19	22	2				0
Rhododendron hybrid cv. 'Snowbird'	22	22	22	2				0
Rhododendron hyperythrum	21	19	23	2				0
Rhododendron japonicum	21	20	22	41				0
Rhododendron kaempferi	22	21	22	6				0
Rhododendron kaempferi form latisepalum	22	21	22	6				0
Rhododendron keiskei	19	19	19	2				0
Rhododendron X kesselringii	23	23	24	3	47	47	47	1
Rhododendron kiusianum	22	19	23	7	51	51	51	4
Rhododendron kiusianum cv. 'Mt.Fuji'	23	22	23	6	50	48	51	3
Rhododendron kiusianum cv. 'Zuiko'	22	21	24	10				0
Rhododendron lapponicum	17	16	18	2				0
Rhododendron lutescens	16	16	17	5				0
Rhododendron luteum	21	20	24	79	44	43	45	34
Rhododendron macrosepalum cv. 'Linearifolium'	21	21	21	1				0
Rhododendron maculiferum subsp. anhweiense	20	20	20	2				0
Rhododendron maximum	27	26	28	3				0
Rhododendron micranthum	22	22	22	9	36	36	36	1
Rhododendron microgynum				0	45	45	45	1
Rhododendron minus var. minus	21	20	21	6				0
Rhododendron molle	22	22	22	8				0
Rhododendron molle subsp. japonicum	22	21	22	9	43	43	43	4
Rhododendron molle x ?luteum				0	43	43	43	4
Rhododendron mucronatum form album	22	22	22	10	47	47	47	2
Rhododendron mucronulatum	16	11	19	54	40	40	40	31

Taxon	mean flower week	first flower week	last flower week	sample size flower	mean fruit week	first fruit week	last fruit week	sample size fruit
Rhododendron nakaharae hybrid cv. 'Wombat'	23	23	23	2				0
Rhododendron X nikomontanum				0	45	45	45	1
Rhododendron occidentale	22	16	29	33	45	45	45	66
Rhododendron oreodoxa	17	16	17	2	47	47	47	1
Rhododendron oreodoxa var. fargesii	17	17	17	1				0
Rhododendron oreotrephes	20	20	20	1				0
Rhododendron pachytrichum	17	16	17	2	43	43	43	1
Rhododendron pachytrichum var. monosematum	16	16	16	2				0
Rhododendron periclymenoides	21	20	22	6				0
Rhododendron phaeochrysum	18	18	18	1				0
Rhododendron phaeochrysum var. agglutinatum	19	19	19	3				0
Rhododendron phaeochrysum var. levistratum	19	19	20	7	43	43	43	8
Rhododendron phaeochrysum var. phaeochrysum	17	16	17	2				0
Rhododendron polylepis	18	18	18	2				0
Rhododendron ponticum	21	20	22	3	44	43	45	3
Rhododendron aff. ponticum	22	21	24	11	45	45	45	8
Rhododendron ponticum hybrid	23	19	25	11				0
Rhododendron prinophyllum	21	21	21	2				0
Rhododendron racemosum	19	17	19	13				0
Rhododendron rubiginosum	18	17	18	11				0
Rhododendron rupicola	21	20	21	8				0
Rhododendron rupicola var. chryseum	20	19	20	3				0
Rhododendron russatum	19	19	19	2				0
Rhododendron saluenense subsp. chameuneum	26	26	26	1				0
Rhododendron schlippenbachii	19	18	21	114	44	40	47	79
Rhododendron selense	18	18	18	1				0
Rhododendron smirnowii	23	22	23	5	45	45	45	1
Rhododendron smirnowii hybrid	22	21	22	3	43	43	43	2
Rhododendron sutchuenense	17	15	22	25	43	41	45	10
Rhododendron thomsonii	17	16	17	2	45	45	45	7
Rhododendron tomentosum	23	23	23	1				0
Rhododendron trichostomum	23	22	24	3				0
Rhododendron tsariense	16	16	16	1				0
Rhododendron ungerii	18	18	18	2				0
Rhododendron vaseyi	20	19	21	15	44	43	45	15
Rhododendron viscosum	28	27	30	5				0
Rhododendron viscosum hybrid cv. 'Rosata'	23	22	24	3				0
Rhododendron viscosum x mollis cv. 'Irene Koster'	22	22	22	5				0
Rhododendron wallichii	18	17	18	11	45	45	45	8
Rhododendron wardii	20	18	22	5	45	45	45	5
Rhododendron wardii cv. 'Hobbies Form'	21	20	21	3				0
Rhododendron wardii hybrid	21	19	26	21	42	42	45	10
Rhododendron weyrichii	23	23	23	1				0
Rhododendron wightii	19	19	19	2				0

Taxon	mean flower week	first flower week	last flower week	sample size flower	mean fruit week	first fruit week	last fruit week	sample size fruit
Rhododendron williamsianum	20	19	20	7	43	43	43	5
Rhododendron williamsianum hybrid	20	20	20	2				0
Rhododendron williamsianum hybrid cv. 'Wega'	21	20	22	9	43	43	43	3
Rhododendron yedoense var. poukhanense	21	18	22	13				0
Rhododendron yedoense hybrid	22	22	22	2				0
Rhododendron yunnanense	20	19	22	3				0
Rhodotypos scandens	21	20	21	2	39	38	42	9
Rhus ambigua	20	20	20	2				0
Rhus aromatica	20	20	20	1				0
Rhus potanini				0	37	37	37	2
Rhus punjabensis var. sinica	27	27	27	1				0
Rhus radicans var. rydbergii	28	28	28	2	49	49	49	4
Rhus trilobata	19	19	19	1				0
Rhus typhina				0	39	39	39	1
Rhus verniciflua	27	26	29	4	43	43	43	1
Ribes alpinum	18	15	20	29	30	29	32	21
Ribes americanum	19	18	19	2	29	29	29	1
Ribes atropurpureum	18	18	18	2	29	28	29	4
Ribes bracteosum	20	19	21	3	35	33	39	5
Ribes cynosbati	20	19	20	2	38	38	38	1
Ribes diacanthum	17	17	17	1	29	29	29	1
Ribes fasciculatum var. chinense	19	19	19	2				0
Ribes formosanum	19	19	19	2	39	39	39	1
Ribes glaciale	18	17	19	3				0
Ribes hispidulum	19	19	19	2	33	33	33	1
Ribes hudsonianum	18	18	18	1	30	30	30	1
Ribes irriguum	16	16	16	3	31	29	39	6
Ribes lacustre	19	18	19	3	29	28	29	4
Ribes latifolium	25	19	28	3				0
Ribes laxiflorum	18	17	19	9				0
Ribes leptanthum	19	18	19	2	30	29	31	4
Ribes lobbii	19	19	19	1				0
Ribes petraeum	19	19	19	1				0
Ribes pinetorum	17	17	17	3	30	30	30	1
Ribes sanguineum	18	16	20	6	30	29	31	3
Ribes spicatum	17	16	19	9	30	30	30	2
Ribes stenocarpum	18	17	19	2				0
Ribes ussuriensis	18	17	19	7	35	29	43	3
Ribes uva-crispa	17	17	17	5				0
Ribes warscewiczii	19	19	19	2	29	28	30	5
Robinia luxurians	22	22	22	1				0
Robinia pseudoacacia	25	25	25	2				0
Robinia viscosa	28	27	28	2				0
Rosa acicularis				0	38	37	38	2
Rosa amblyotis	22	20	23	4	34	33	36	6
Rosa cinnamomea				0	38	38	38	1
Rosa helenae cv. 'Lykkefund'	28	27	28	2				0
Rosa jacutica	24	23	24	2	33	33	33	1
Rosa luciae fujisanensis				0	44	44	44	1

Taxon	mean flower week	first flower week	last flower week	sample size flower	mean fruit week	first fruit week	last fruit week	sample size fruit
Rosa maximowicziana	25	25	25	1				0
Rosa moyesii	25	24	25	2	38	35	41	3
Rosa multiflora	28	27	29	3	36	36	36	1
Rosa nutkana	23	23	23	1	34	34	34	1
Rosa omeiensis	24	23	26	5	34	28	41	5
Rosa palustris				0	44	44	44	3
Rosa pendulina	25	24	25	2	36	32	38	3
Rosa pimpinellifolia cv. 'Rofolo'	23	22	23	2	38	38	38	1
Rosa pimpinellifolia x villosa cv. 'Ripollo'	24	23	25	2	36	33	41	3
Rosa pisocarpa	27	27	27	1	38	38	38	1
Rosa rugosa	22	15	26	5	37	34	41	9
Rosa setipoda	27	26	27	2	40	38	41	2
Rosa sweginzowii				0	37	37	37	1
Rosa tomentosa	25	24	25	2	39	35	42	3
Rosa villosa				0	37	37	37	1
Rosa virginiana	28	27	29	2	40	38	41	2
Rosa woodsii				0	38	38	38	1
Rubus odoratus	24	24	24	1				0
Rubus parviflorus	24	23	24	5	32	31	32	2
Rubus spectabilis	20	19	20	3	30	30	30	2
Salix alaxensis	17	16	18	4	24	23	24	3
Salix alba	19	19	19	3				0
Salix alba cv. 'Chermesina'	21	20	21	2				0
Salix alba x fragilis var. coerulea	19	19	19	1	34	34	34	1
Salix arbutifolia	19	19	19	1				0
Salix borealis	17	16	18	3				0
Salix caprea hybrid cv. 'Silberglantz'	14	14	14	1				0
Salix cinerea subsp. cinerea	18	18	18	1				0
Salix fragilis var. decipiens	19	19	19	1				0
Salix glauca cv. 'Sericea'	20	20	20	1				0
Salix helvetica	17	16	17	2				0
Salix hookeriana	16	15	16	6				0
Salix koriyanagi	15	14	15	3				0
Salix myrsinifolia	16	16	17	7				0
Salix phylicifolia	20	20	20	1				0
Salix phylicifolia cv. 'Glividir'	19	19	19	2				0
Salix sachalinensis cv. 'Secca'	16	15	17	2				0
Salix urbaniana	20	20	21	3				0
Salix viminalis	17	16	17	2				0
Sambucus caerulea	25	25	26	5	32	32	32	1
Sambucus callicarpa	20	20	20	4	29	27	30	4
Sambucus callicarpa var. arborescens	19	19	20	11				0
Sambucus canadensis	27	27	27	2	38	38	38	1
Sambucus miquelii				0	31	30	32	2
Sambucus nigra form laciniata	26	25	28	5	40	40	40	3
Sambucus pubens	20	19	20	8	29	27	30	7
Sambucus pubens form aurantiacus	20	20	20	1				0
Sambucus sieboldiana				0	29	29	29	1
Sarcococca humilis	13	12	13	3				0
Sarcococca saligna	13	13	13	2				0
Schizandra chinensis	20	20	20	1				0

Taxon	mean flower week	first flower week	last flower week	sample size flower	mean fruit week	first fruit week	last fruit week	sample size fruit
Schizandra grandiflora var. rubriflora	23	22	23	4				0
Sciadopitys verticillata				0	51	42	65	5
Securinega suffruticosa	33	28	38	25	42	40	43	5
Sequoiadendron giganteum	14	14	14	9				0
Shepherdia canadensis	16	16	16	2				0
Sinocalycanthus chinensis	28	28	28	1				0
Skimmia japonica	18	17	19	11	39	38	41	8
Sorbaria kirilowii	31	28	33	9				0
Sorbaria sorbifolia	28	28	29	4	43	43	43	1
Sorbaria stellipila var. stellipila	28	28	28	1				0
Sorbaria tomentosa var. angustifolia	31	29	32	4				0
Sorbus cv. 'Joseph Rock'				0	40	39	41	3
Sorbus cv. 'Kirstens Pink'	22	22	22	1	38	36	40	3
Sorbus albovii	21	20	21	5	38	35	43	7
Sorbus alnifolia	21	20	22	19	41	38	44	20
Sorbus alnifolia x aria	21	21	22	3	42	42	42	1
Sorbus americana	22	21	22	3	33	31	34	5
Sorbus aria	22	21	22	2	44	44	44	1
Sorbus aucuparia	22	21	22	5	33	29	38	10
Sorbus chamaemespilus				0	35	33	38	3
Sorbus commixta	22	20	25	28	38	33	44	43
Sorbus X danubialis				0	39	34	44	2
Sorbus decora				0	34	33	34	2
Sorbus decora cv. 'Fastigiata'	22	22	22	1	34	34	34	2
Sorbus domestica	22	22	22	3	40	32	44	5
Sorbus dumosa	22	22	22	1	35	33	37	2
Sorbus federovii	22	22	22	2	43	43	43	2
Sorbus folgneri	23	23	23	3	43	43	43	1
Sorbus forrestii	23	22	23	2	40	39	41	2
Sorbus graeca	23	22	23	2	41	41	41	1
Sorbus groenlandica				0	34	33	34	2
Sorbus X hostii	21	20	21	2	33	33	33	2
Sorbus hupehensis	23	22	24	5	44	44	44	2
Sorbus intermedia	26	26	26	1				0
Sorbus japonica	22	22	22	1				0
Sorbus koehneana	22	22	22	1	38	34	42	3
Sorbus matsumurana	20	19	21	5	35	33	42	10
Sorbus megalocarpa	19	19	19	4				0
Sorbus aff. meliosmifolia	21	20	21	2				0
Sorbus microphylla	23	22	24	2	40	38	43	4
Sorbus mougeotii	22	22	22	14	38	35	43	12
Sorbus occidentalis	22	21	22	5	34	32	34	6
Sorbus pohnuashanensis	21	21	21	1	33	33	33	1
Sorbus poteriifolia h 'McLaren 84' hybrid	22	21	22	2	43	42	44	2
Sorbus prattii	23	23	23	1	39	35	42	2
Sorbus pseudovertesensis	22	22	22	1				0
Sorbus rehderana	23	23	23	1	34	31	36	2
Sorbus rhamnoides	20	20	20	1				0
Sorbus rufoferruginea	23	22	23	10	38	35	39	6
Sorbus rupicola				0	42	42	42	1
Sorbus sambucifolia	20	19	20	8	32	29	42	12

Taxon	mean flower week	first flower week	last flower week	sample size flower	mean fruit week	first fruit week	last fruit week	sample size fruit
<i>Sorbus sargentiana</i>				0	38	38	38	1
<i>Sorbus scopulina</i>	21	21	21	2	34	34	34	1
<i>Sorbus subsimilis</i>	22	22	22	1	41	38	43	2
<i>Sorbus tamamschjanae</i>	22	22	22	4	36	32	43	3
<i>Sorbus torminalis</i>	22	22	23	3	39	31	42	4
<i>Sorbus ursina</i>				0	37	34	42	3
<i>Sorbus vilmorini</i>	24	24	24	1	37	29	42	3
<i>Sorbus xanthoneura</i>	20	20	20	2				0
<i>Spiraea alba</i>	28	28	28	5	41	41	41	1
<i>Spiraea cf. arcuata</i>	22	21	22	2				0
<i>Spiraea betulifolia</i>	23	23	23	2				0
<i>Spiraea blumei</i> var. <i>latifolia</i>	23	18	25	7				0
<i>Spiraea chamaedryfolia</i>	21	19	25	8	41	41	41	1
<i>Spiraea douglasii</i>	33	33	33	1				0
<i>Spiraea douglasii</i> var. <i>menziesii</i>	30	30	30	3				0
<i>Spiraea flexuosa</i>	19	19	20	7				0
<i>Spiraea formosana</i>	31	31	31	5				0
<i>Spiraea fritschiana</i>	27	26	28	7	45	45	45	1
<i>Spiraea henryi</i>	23	23	23	1				0
<i>Spiraea humilis</i>	25	24	26	5				0
<i>Spiraea japonica</i>	26	20	30	8	37	36	38	2
<i>Spiraea japonica</i> var. <i>fortunei</i>	29	28	29	2	42	42	42	1
<i>Spiraea japonica</i> var. <i>incisa</i>	22	21	22	2	35	35	35	1
<i>Spiraea latifolia</i>	27	27	27	2	35	35	35	6
<i>Spiraea media</i>	20	20	21	7	39	39	39	3
<i>Spiraea media</i> var. <i>sericea</i>	19	19	19	6	35	35	35	2
<i>Spiraea miyabei</i>	27	26	29	11	45	45	45	3
<i>Spiraea pubescens</i>	21	21	21	1				0
<i>Spiraea pumila</i> (<i>japonica</i> x <i>albiflora</i>)	28	28	28	1				0
<i>Spiraea rosthornii</i>	23	23	23	8	36	35	39	7
<i>Spiraea salicifolia</i>	24	23	24	4				0
<i>Spiraea sericea</i>	19	19	22	13				0
<i>Spiraea stevenii</i>	21	21	21	1				0
<i>Spiraea trilobata</i>	19	19	19	3				0
<i>Spiraea veitchii</i>	28	28	28	1				0
<i>Spiraea virgata</i>	23	22	23	4				0
<i>Stachyurus chinensis</i>	17	17	17	2				0
<i>Stachyurus praecox</i>	16	15	17	10				0
<i>Staphylea pinnata</i>	21	20	24	10	41	37	42	7
<i>Staphylea trifolia</i>	21	21	21	1	44	44	44	1
<i>Stephanandra chinensis</i>	25	25	25	6				0
<i>Stephanandra incisa</i>	26	25	29	13				0
<i>Stewartia koreana</i>	29	28	29	2	39	39	39	1
<i>Stewartia monadelphica</i>	28	27	29	2				0
<i>Stewartia rostrata</i>	27	26	27	2	30	29	31	3
<i>Stewartia serrata</i>	26	26	26	2	41	39	42	2
<i>Styrax japonica</i>	26	26	26	1	44	42	45	3
<i>Styrax obassia</i>	24	24	25	4	44	42	45	2
<i>Sycopsis sinensis</i>	17	17	17	1	50	50	50	1
<i>Symphoricarpos albus</i>	28	28	28	3	38	35	42	7
<i>Symphoricarpos albus</i> var. <i>laevigatus</i>				0	37	29	42	3

Taxon	mean flower week	first flower week	last flower week	sample size flower	mean fruit week	first fruit week	last fruit week	sample size fruit
<i>Symphoricarpos hesperius</i>	28	28	28	1	35	35	35	1
<i>Symphoricarpos microphyllus</i>				0	37	35	39	7
<i>Symphoricarpos mollis</i>				0	35	28	42	3
<i>Symphoricarpos occidentalis</i>				0	37	35	42	7
<i>Symplocos prunifolia</i>	23	23	23	1	38	38	38	1
<i>Syringa amurensis</i>	30	27	38	4				0
<i>Syringa amurensis</i> var. <i>japonica</i>	26	26	26	1	40	40	40	1
<i>Syringa</i> X <i>diversifolia</i>	20	20	20	1				0
<i>Syringa emodi</i>	23	22	23	3				0
<i>Syringa</i> X <i>josiflexa</i>	23	23	23	1				0
<i>Syringa josikaea</i>	22	22	22	2	44	44	44	1
<i>Syringa komarowii</i>	23	22	23	7	44	44	44	1
<i>Syringa komarowii</i> subsp. <i>reflexa</i>	23	23	23	2	40	40	40	1
<i>Syringa meyeri</i>	23	22	23	2	40	40	40	1
<i>Syringa oblata</i> var. <i>dilatata</i>	19	19	19	1				0
<i>Syringa pinetorum</i>	23	23	23	1				0
<i>Syringa reticulata</i> subsp. <i>amurensis</i>	26	26	26	2				0
<i>Syringa sweginzowii</i>	23	22	24	10	40	40	40	1
<i>Syringa tigerstedtii</i>	23	23	24	13	40	40	40	4
<i>Syringa tomentella</i>	23	22	23	4	40	40	40	4
<i>Syringa</i> cf. <i>tomentella</i>	23	23	23	2	41	38	43	2
<i>Syringa velutina</i>	24	22	24	13	40	40	40	3
<i>Syringa villosa</i>	21	21	21	1	42	39	44	2
<i>Syringa vulgaris</i>	22	20	22	11	44	44	44	4
<i>Syringa wolffi</i>	21	18	23	8	39	38	40	3
<i>Syringa yunnanensis</i>	23	22	23	5	40	38	40	5
<i>Taxus baccata</i>	14	13	16	41	40	34	44	33
<i>Taxus baccata</i> cv. 'Fastigiata'	14	14	14	1	41	38	43	2
<i>Taxus baccata</i> cv. 'Lutea'				0	43	43	43	1
<i>Taxus baccata</i> cv. 'Stricta'	14	14	14	2	39	39	39	1
<i>Taxus brevifolia</i>				0	39	39	39	1
<i>Taxus canadensis</i>	18	17	18	6				0
<i>Taxus cuspidata</i>	14	13	16	9	41	39	42	7
<i>Taxus cuspidata</i> form <i>nana</i>	16	15	17	2				0
<i>Thuja koraiensis</i>	14	14	14	1	40	39	42	3
<i>Thuja occidentalis</i>	16	14	18	40	38	38	41	28
<i>Thuja occidentalis</i> cv. 'Rosenthalii'	17	17	17	1				0
<i>Thuja plicata</i>	16	16	16	1	41	41	41	3
<i>Thuja standishii</i> x <i>plicata</i>	14	14	14	1				0
<i>Thujopsis dolabrata</i>	14	14	14	1				0
<i>Tilia americana</i>	31	31	31	1	43	42	44	3
<i>Tilia amurensis</i>	29	27	31	4	42	42	42	2
<i>Tilia caucasica</i>	29	26	32	5	39	33	42	4
<i>Tilia cordata</i>	30	28	31	4	42	42	42	2
<i>Tilia dasystyla</i>				0	42	42	42	1
<i>Tilia</i> X <i>euchlora</i>	26	26	26	1	42	42	42	1
<i>Tilia</i> X <i>europaea</i>	28	27	29	2	42	42	42	1
<i>Tilia insularis</i>	29	26	31	4	42	42	42	2
<i>Tilia japonica</i>	30	27	32	6	42	42	42	4
<i>Tilia koreana</i>				0	42	42	42	1
<i>Tilia maximowiczii</i>	29	27	31	2	42	42	42	4

Taxon	mean flower week	first flower week	last flower week	sample size flower	mean fruit week	first fruit week	last fruit week	sample size fruit
<i>Tilia X moltkei</i>	26	26	26	1				0
<i>Tilia petiolaris</i>	30	26	33	2				0
<i>Tilia platyphyllos</i>	28	27	29	2	42	42	42	1
<i>Tilia platyphyllos</i> cv. 'Laciniata'	28	27	29	2				0
<i>Torreya californica</i>	22	21	23	3				0
<i>Tripterygium regelii</i>	28	27	30	7	39	39	39	1
<i>Tripterygium wilfordii</i>	28	28	28	1				0
<i>Trochodendron aralioides</i>	23	23	23	1	43	43	43	2
<i>Tsuga canadensis</i>	21	21	21	2				0
<i>Tsuga diversifolia</i>				0	47	47	47	1
<i>Tsuga heterophylla</i>	20	20	20	3	41	38	43	3
<i>Tsuga mertensiana</i>	21	21	21	1				0
<i>Ulmus pumila</i>	17	14	32	7				0
<i>Vaccinium corymbosum</i>	19	18	19	2	40	35	43	14
<i>Vaccinium corymbosum</i> cv. 'Adams'	24	24	24	1	42	40	43	4
<i>Vaccinium ovalifolium</i>	17	15	18	5	35	35	35	5
<i>Vaccinium parvifolium</i>				0	33	32	37	6
<i>Viburnum alnifolium</i>	20	19	20	2				0
<i>Viburnum betulifolium</i>	23	23	24	3	39	38	42	6
<i>Viburnum buddleifolium</i>	19	19	19	1				0
<i>Viburnum burejaeticum</i>	20	20	20	1				0
<i>Viburnum X burkwoodii</i>	19	19	19	2	43	43	43	1
<i>Viburnum carlesii</i>	21	20	21	2	38	38	38	1
<i>Viburnum carlesii</i> x <i>macrocephalum</i>	21	20	21	2	44	44	44	1
<i>Viburnum cotinifolium</i>	22	22	22	6	39	39	39	3
<i>Viburnum dentatum</i>	25	25	25	1				0
<i>Viburnum dilatatum</i>	26	26	26	3	39	37	43	9
<i>Viburnum erosum</i>	26	25	26	2	40	39	42	3
<i>Viburnum fragrans</i>	20	20	20	1				0
<i>Viburnum furcatum</i>	18	17	18	14	33	29	37	10
<i>Viburnum lantana</i>	21	20	22	15	38	33	43	13
<i>Viburnum lantana</i> var. <i>discolor</i>	20	20	20	1				0
<i>Viburnum lentago</i>	24	24	24	1				0
<i>Viburnum lobophyllum</i>				0	40	38	42	6
<i>Viburnum opulus</i>	24	24	25	11	39	35	44	29
<i>Viburnum opulus</i> var. <i>calvescens</i>	23	23	23	1	44	44	44	1
<i>Viburnum opulus</i> form <i>hydrangeoides</i>	24	23	25	6	41	32	44	9
<i>Viburnum opulus</i> var. <i>sargentii</i>	24	24	25	5	40	38	44	13
<i>Viburnum ovatifolium</i>				0	38	38	38	1
<i>Viburnum rafinesquianum</i>	20	20	20	2				0
<i>Viburnum rhytidophyllum</i>	20	20	20	1	36	33	38	2
<i>Viburnum sieboldii</i>	23	23	23	2	38	38	38	1
<i>Viburnum tomentosum</i>	23	21	23	5				0
<i>Viburnum tomentosum</i> cv. 'Mariesii'	23	22	23	2				0
<i>Viburnum tomentosum</i> form <i>sterile</i>	23	21	23	7				0
<i>Viburnum urceolatum</i>				0	33	31	35	2
<i>Viburnum wilsonii</i>	20	20	20	1	39	39	39	1
<i>Viburnum wrightii</i>	22	22	23	5	37	33	38	7
<i>Viburnum wrightii</i> cv. 'Hessei'				0	35	32	37	2
<i>Viscum album</i>	14	14	14	3	48	48	48	1
<i>Vitis piasezkii</i> var. <i>pagnuccii</i>				0	41	41	41	1

Taxon	mean flower week	first flower week	last flower week	sample size flower	mean fruit week	first fruit week	last fruit week	sample size fruit
Weigela cv. 'Andida'	24	24	24	2				0
Weigela decora				0	43	43	43	14
Weigela aff. hortensis	24	24	24	5	43	43	43	8
Weigela japonica	25	25	25	19	43	43	43	10
Weigela middendorffiana	21	19	24	30	42	40	43	16
Weigela subsessilis	22	20	23	19	42	42	42	3
Xanthorhiza simplicissima	19	19	19	1	42	42	42	1
Yucca filamentosa	18	18	18	1				0

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