

Essenburgpark
HERBARIUM
Of Trees and Bushes



A\WAKENING

www.a.wakening.nl

 @femkeframed

©2022 Femke Lokhorst

T.01

Acer Campestre

Field Maple

ESSENBURG PARK

LOCATION: B01 13,16,55,63 B02 1,33 B03 18,57 B04 12,53 B05 5 B06 1 B07 48



The Field Maple can be found growing in woods, shrublands and hedgerows, and on chalk lowlands. It is widely planted in gardens and parks due to its compact habitat, tolerance of pollution and rich autumn colours.

HISTORY

CHARACTERISTICS

NEEDS



Sunlight during its seed-bearing years



Moist, well-drained, slightly acidic, and nutrient rich soil

PROVIDES



Support of caterpillars, aphids, and their predators



Pollution fighter

Max Height: 15-25M

Max Age: 200-300Y

A\WAKENING

www.a.wakening.nl


@femkeframed

T.02

Acer pseudoplatanus

Common Maple

ESSENBURGPARK

LOCATION: B01 12,14,25,30 B03 1,11,12,13,30,50,66,69 B04 13,14,23,78 B07 8,10,11,20,47



The common maple is a flowering tree, tolerant of wind and coastal exposure, native to Central Europe. It is sometimes planted in urban areas as an amenity tree, but also readily invades disturbed habitats.

HISTORY

CHARACTERISTICS

NEEDS



Full sun, but tolerant of shade



Moist, well-drained, slightly acidic, and nutrient rich soil

PROVIDES



A biodiverse range of invertebrates and fungi



Produces sap and nectar

Max Height: 20-35M

Max Age: 450Y

A\WAKENING

www.a.wakening.nl


@femkeframed

T.03

Populus nigra 'Italica'

Black Italian Poplar

ESSENBURGPARK

LOCATION: **B01** 10,11,32,39,42,60,68,63 **B02** 18,31 **B03** 2,8,9,10 **B04** 2,3,8,21,29,30,31,32,33,35,55,
56,57,68,69,71,79,84,95



The ornamental fast growing 'Italica' originated in northern Italy and has been widely introduced for use as windbreaks, screens, and country driveways. It should not be planted near buildings due to its vigorous root system.

HISTORY

CHARACTERISTICS

NEEDS



Full sun



Well-drained, acid, neutral or alkaline soils, tolerant of wet soil but can also grow well under drought

PROVIDES



Attracts birds



Fast growing (90cm per year)

Max Height: 12-16M

Max Age: 20Y

A\WAKENING

www.a.wakening.nl


@femkeframed

T.04 Quercus robur

Common Oak

ESSENBURGPARK

LOCATION: B01 28,53 B02 11 B03 39,41,43,46,47,48 B04 42,43,61 B07 5,19,31



Long-lived and majestic, *Quercus robur*, native to Europe, is adorned with a magnificent, broad-spreading crown. The short trunk and upright branches, with a ridged and furrowed dark gray bark, provide architectural elegance and winter interest. Robust and sturdy, it is an excellent tree for large areas.

HISTORY

CHARACTERISTICS

NEEDS



Full sun



Well-drained chalk, clay, loam and sand soil of medium moisture, but also tolerant of drought

PROVIDES



Acorns are a valuable source of food for small mammals and birds



Highest biodiversity of insect herbivores

Max Height: 12-18M

Max Age: 700-800Y

A\WAKENING

www.a.wakening.nl



@femkeframed

T.05

Alnus glutinosa

Black Alder

ESSENBURG PARK

LOCATION: **B01** 35,36,37,62 **B02** 13,27,28,29,30 **B03** 5,23,37,42,44,45 **B04** 6,7,26,27,48,50,86,90 **B05** 6,7,8,9,10
B06 2,3,12,13,14,16,24,27,28,29 **B07** 1,2,3,4,7,9,13,15,16,17,18,25,32,34,35,36,37,43,44,45,50,51,52



Native to most of Europe, the black alder is a pioneer species, colonising vacant land and forming mixed forests as other trees appear in its wake. The tree eventually dies out, as the seedlings need more light than is available on the forest floor. Its usual habitat is forest edges, swamps and riverside corridors.

HISTORY

CHARACTERISTICS

NEEDS



Full sun to semi-shade



Tolerates a range of moist soil types

PROVIDES



Food and shelter for wildlife, with a number of insects, lichens and fungi being completely dependent on it



Improves fertility of the soil through symbiotic relationship with nitrogen-fixing bacterium Frankia Alni

Max Height: 20-30M

Max Age: 60-70Y

A\WAKENING

www.a.wakening.nl


@femkeframed

T.06

Ulmus minor

Field Elm

ESSENBURGPARK

LOCATION: B07 12,14,21,22,23,24,26,28,33,38,39,40,41,42,49



The habitat of the field elm is low-lying forest along the main rivers, growing in association with oak and ash. Its natural range is predominantly south European. The tree was once commonly cultivated across Europe, but owing to its susceptibility to Dutch elm disease, it is now uncommon in cultivation.

HISTORY

CHARACTERISTICS

NEEDS



Full sun to semi-shade



Moist and light, favours calcareous soils

PROVIDES



Value to butterflies



Seeds for birds

Max Height: 20-30M

Max Age: 300Y

A\WAKENING

www.a.wakening.nl


@femkeframed

T.07

Tilia euchlora

Crimean Linden

ESSENBURG PARK

LOCATION: B0631



HISTORY

The Crimean Linden is recommended as an ornamental tree when a mass of foliage or a deep shade is desired. Owing to its lovely leaves and abundant flowers, 'Euchlora' is a very popular avenue and street tree.

CHARACTERISTICS

NEEDS



Full sun



Any soil type, tolerates dry conditions well

PROVIDES



Value to bees (honey plant) and butterflies



Very attractive to aphids, providing a source of food to their predators

Max Height: 15-20M

Max Age: 20Y

A\WAKENING

www.a.wakening.nl


@femkeframed

T.08

Aesculus hippocastanum

Horse Chestnut

ESSENBURGPARK

LOCATION: B0161



Native to the balkans, the horse chestnut has been cultivated in large parts of Europe for many centuries. Here they are commonly found in parks, streets and avenues. The trees have spreading, dense canopies but shallow roots, making them favorable to plant on top of cellars to protect from summer heat.

HISTORY

CHARACTERISTICS

NEEDS



Full sun or semi-shade



Average, medium-moisture, well-drained soil

PROVIDES



The flowers are a rich source of nectar and pollen for insects, particularly bees



Although poisonous for most, some mammals such as deer and wild boar eat the conkers

Max Height: 40M

Max Age: 300Y

A\WAKENING

www.a.wakening.nl


@femkeframed

T.09

Salix viminalis

Basket Willow

ESSENBURGPARK

LOCATION: B01 40,47,67 B02 14,15 B03 3,4,21,22,36,52,53,54,60,61,64 B04 15,58,85,87,91,93,94



The basket willow, native to Europe, is commonly found by streams and other wet places. It is traditionally used for basket making and weaving, and popular for willow screens and sculptures. The tree is often grown for its ability to absorb heavy metals, and is planted to 'clean up' contaminated waste ground.

HISTORY

CHARACTERISTICS

NEEDS



Full sun, but tolerant of semi-shade



Although they adapt to dry soil, they prefer moist or wet soil of many kinds

PROVIDES



Food (catkin seeds) and nesting / roosting sites for birds



Decontaminates soil and groundwater of heavy metals

Max Height: 7M

Max Age: 50 - 70Y

A\WAKENING

www.a.wakening.nl


@femkeframed

T.10

Salix babylonica 'Tortuosa'

Dragon's Claw Willow

ESSENBURGPARK

LOCATION: B022,7 B0746



The dragon's claw willow is a decorative tree with twisted branches, twigs and leaves. The branches are displayed in vases during Easter. The tree is highly tolerant of urban pollution and will even thrive in inner city environments, yet it should be planted away from buildings due to its aggressive root system.

HISTORY

CHARACTERISTICS

NEEDS



Full sun



Moist and wet, preferably calcareous

PROVIDES



Catkins are an important source of early nectar and pollen for bees and other insects



Caterpillars of a number of moth species feed on leaves

Max Height: 14M

Max Age: 40Y

A\WAKENING

www.a.wakening.nl

@femkeframed

T.11

Taxodium distichum

Bald Cypress

ESSENBURGPARK

LOCATION: B041



The hardy and tough bald cypress is native to the southeast of the United States. The tree is famous for the russet-red fall color of its lacy needles and is often used in groupings in public spaces. Originated as a swamp tree, it tolerates long periods of submersion under water.

HISTORY

CHARACTERISTICS

NEEDS



Full sun to semi-shade



Moisture-retentive to swampy, can also be moderately dry

PROVIDES



Seed bearing cones, edible for squirrels



Soaks up floodwaters and prevents erosions

Max Height: 18-30M

Max Age: 600Y

A\WAKENING

www.a.wakening.nl

@femkeframed

T.12

Thuja occidentalis

Northern White Cedar

ESSENBURGPARK

LOCATION: B01 49,51 B02 12,25 B04 52,54,73,74 B07 53



The Northern white cedar, native to much of the northeastern side of North America, is widely cultivated as an ornamental plant, particularly for screens and hedges. It grows naturally in wet forests, particularly coniferous swamps and also occurs on other sites with reduced tree competition, such as cliffs.

HISTORY

CHARACTERISTICS

NEEDS



Full sun or semi-shade



Any soil

PROVIDES



Nesting sites for a variety of birds



The soft evergreen foliage is an attractive winter food for deer

Max Height: 10-15M

Max Age: 800Y

A\WAKENING

www.a.wakening.nl


@femkeframed

T.13

Abies alba

silver fir

ESSENBURGPARK

LOCATION: B0131 B0464



The Silver fir is a long-living conifer and the largest tree (up to 60 m) in the genus *Abies* in Europe. Its natural distribution is limited mainly to the mountainous regions of eastern, western, southern and central Europe. It is used as an ornamental tree and is also widely planted for use as a Christmas tree.

HISTORY

CHARACTERISTICS

NEEDS



Sun, shade or semi-shade



Acidic, loamy, moist, sandy, well-drained and clay soils.

PROVIDES



Habitat for beetles, weevils and hoverflies



Cones are food for squirrels

Max Height: 40M

Max Age: 1000Y

A\WAKENING

www.a.wakening.nl


@femkeframed

T.14

Pinus sylvestris

European Red Pine

ESSENBURGPARK

LOCATION: B0157 B0462



Native to northern Europe, the European red pine is mainly found on poorer, sandy soils, rocky outcrops, peat bogs or close to the forest edge. On fertile sites, the pine is out-competed by other tree species. Several cultivars are grown for ornamental purposes in parks and large gardens

HISTORY

CHARACTERISTICS

NEEDS



Full sun



Dry, loose, sandy soil with a low pH value

PROVIDES



Honeydew, produced by aphid colonies that live on the tree, is harvested by ants



Cavities for pine marten or squirrels to breed in

Max Height: 35M

Max Age: 700Y

A\WAKENING

www.a.wakening.nl


@femkeframed

T.15

Carpinus betulus

Common Hornbeam

ESSENBURGPARK

LOCATION: B01 27 B03 24,63,67 B04 9,19,96 B05 1



Gnarled and mighty, the hornbeam is as tough as they come. It's beautiful, useful, and its year-round leaf cover makes it a winter haven for wildlife. Native to southern Europe but widely planted elsewhere, hornbeam is naturally found in oak woodland and is often coppiced or pollarded.

HISTORY

CHARACTERISTICS

NEEDS



Full sun to semi-shade



Slightly acidic soil with moderate clay content

PROVIDES



Food plant for caterpillars of a number of moth species



Provides shelter, roosting, nesting and foraging opportunities for birds and small mammals

Max Height: 30M

Max Age: 300Y

A\WAKENING

www.a.wakening.nl


@femkeframed

T.16

Betula pendula

Silver birch

ESSENBURGPARK

LOCATION: B0115,70 B028,21,34 B0338 B041,20,70,72,92



HISTORY

The silver birch, native to Europe, is a medium-sized tree that owes its name to the white peeling bark on the trunk. It is a hardy tree, a pioneer species, and one of the first trees to appear on bare or fire-swept land. It is also planted decoratively in parks and gardens and can be used to improve soil quality.

CHARACTERISTICS

NEEDS



Full sun



Well-drained, moist soil of any kind

PROVIDES



Provides food and habitat for more than 300 insect species



The light shade it casts allows shrubs, mosses, grasses and other plants to grow beneath its canopy

Max Height: 30M

Max Age: 50-60Y

A\WAKENING

www.a.wakening.nl


@femkeframed

T.17

Ficus carica 'mission'

Common Fig

ESSENBURGPARK

LOCATION: B011,2,5 B0424,25,28



Native to the Mediterranean and western Asia, the common fig tree has been sought out and cultivated since ancient times and is now widely grown throughout the world, both for its fruit and as an ornamental plant. It grows wild in dry and sunny locations with deep and fresh soil, and in rocky locations.

HISTORY

CHARACTERISTICS

NEEDS



Full sun



Well-drained, moisture-retentive soil

PROVIDES



Fig fruit is an important food source for birds and insects, particularly wasps



Deep roots soak up groundwater, producing a fresh and pleasant habitat for animals that shelter in its shade

Max Height: 3-10M

Max Age: 200Y

A\WAKENING

www.a.wakening.nl


@femkeframed

T.18

Malus domestica

Domesticated apple

ESSENBURGPARK

LOCATION: B0117,18,19,20,21,22,23,24



The domesticated apple originated in Central Asia, where its wild ancestor, *Malus sieversii*, is still found today. Apples have been grown for thousands of years in Asia and Europe. It can be found naturalised in hedgerows, shrublands, copses, at roadsides and on rough ground, usually occurring as single trees.

HISTORY

CHARACTERISTICS

NEEDS



Full sun



Fertile sandy, loamy or clay, well drained soil

PROVIDES



Slugs, snails and insects feast on fallen fruit



Apples, buds and blossoms are a source of food for birds like thrushes and bullfinches

Max Height: 10M

Max Age: 50-80Y

A\WAKENING

www.a.wakening.nl


@femkeframed

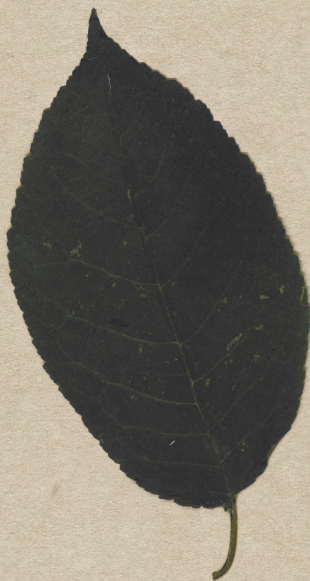
T.19

Pyrus communis

Common Pear

ESSENBURGPARK

LOCATION: B019,45 B0368 B0417



HISTORY

The common pear, native to central and eastern Europe and southwest Asia, is the species from which most orchard pear cultivars have been developed. European pear trees are not quite as hardy as apples, but nearly so. However, they do require some winter chilling to produce fruit.

CHARACTERISTICS

NEEDS



Full sun



Rich, well-drained sandy loam soil

PROVIDES



Leaves provide food, shelter and sustenance for caterpillars



flowers are a popular food source for bees

Max Height: 12-20M

Max Age: 250Y

A\WAKENING

www.a.wakening.nl


@femkeframed

T.20

Prunus avium

Wild Cherry

ESSENBURGPARK

LOCATION: B01 6,7,38,48,58,59 B03 55 B06 30,32



HISTORY

Wild cherry is native throughout Europe, except the far north. Its fruit has been an item of human food for several thousands of years. It is often cultivated as a flowering tree. Because of the size of the tree, it is often used in parkland, and less often as a street or garden tree.

CHARACTERISTICS

NEEDS



Full sun



Fertile, humus-rich and well drained soil

PROVIDES



Small mammals and birds help the tree's propagation by eating the cherries and dispersing the seed



Spring flowers provide an early source of nectar and pollen for bees

Max Height: 15-32M

Max Age: 60Y

A\WAKENING

www.a.wakening.nl


@femkeframed

S.01

Cornus sanguinea

Common Dogwood

ESSENBURGPARK

LOCATION: B06 8,19,22



Dogwood is a small broadleaf shrub, typically found growing wild along the edges of woodlands and in hedgerows. Native throughout Europe, it is a popular ornamental plant and is used in gardens to provide autumn and winter colour from the red branches.

HISTORY

CHARACTERISTICS

NEEDS



Semi-shade



Any soil type that is nutrient-rich and well-drained

PROVIDES



Leaves are eaten by the caterpillars of some moths



Berries are eaten by many mammals and birds

Max Height: 10M

Max Age: 20-30Y

A\WAKENING

www.a.wakening.nl


@femkeframed

S.02 *Cornus mas*

Cornelian Cherry Dogwood

ESSENBURGPARK

LOCATION: B01 46 B04 45,46,49 B06 6,18



The Cornelian cherry dogwood is a large multi-stemmed shrub that is sometimes trained as a small tree. It is one of the earliest shrubs to bloom, with blossoms that unfurl before the leaves. It works well as a hedge, screen, or foundation plant, or can be grouped with other shrubs species in a mixed border.

HISTORY

CHARACTERISTICS

NEEDS



Full sun to semi-shade



Medium moisture, well-drained soil

PROVIDES



Leaves are eaten by the caterpillars of some moths



Berries are eaten by many mammals and birds

Max Height: 5-12M

Max Age: 150Y

A\WAKENING

www.a.wakening.nl



@femkeframed

S.03 *Fargesia murielae*

Umbrella Bamboo

ESSENBURG PARK

LOCATION: B0152



Fargesia are some of the world's hardest bamboos, but they do not spread vigorously. Considered one of the most beautiful bamboos in cultivation, the plant is native to the mountains of central China. It is an ornamental and hardy bamboo, tolerating temperatures down to about -25°C

HISTORY

CHARACTERISTICS

NEEDS



Full shade to semi-shade



Damp humus-rich, slightly acidic soil

PROVIDES



Slugs are particularly fond of young shoots



Evergreen

Max Height: 4M

Max Age: 80-100Y

A\WAKENING

www.a.wakening.nl



@femkeframed

S.04 Rubus plicatus

Common Blackberry

ESSENBURGPARK

LOCATION: B05 3,4,11,12 B06 9,16,11,33,34 B07 29



Hardy and determined, the invasive common blackberry uses powerful roots to grow rapidly in almost any environment. It is common in woodland, hedges and scrub. Native to Europe, they are often found on infertile, disturbed urban sites where they grow particularly well in soils with high amounts of nitrogen.

HISTORY

CHARACTERISTICS

NEEDS



Full sun to semi-shade



Well-drained, acidic, sandy loam soil

PROVIDES



Ripe berries are eaten and their seeds dispersed by several mammals such as fox, badger, and small birds



Prevents soil erosion

Max Height: 1,5M

Max Age: 15Y

A\WAKENING

www.a.wakening.nl



@femkeframed

S.05 *Crataegus monogyna*

Common Hawthorn

ESSENBURG PARK

LOCATION: B06 4,5,7,15,17,20,21,23,25,26



Native to Europe, Hawthorn is commonly found growing in hedgerows, woodland and shrublands. It has long been grown as a hedging plant and is a popular choice in wildlife gardens, characterised by its dense, thorny habit, though it can be grown as a small tree with a single stem.

HISTORY

CHARACTERISTICS

NEEDS



Full sun



Well-drained soil of any type

PROVIDES



Can support more than 300 insects



Haws are eaten by migrating birds, such as redwings, fieldfares and thrushes, as well as small mammals

Max Height: 5-14M

Max Age: 50-150Y

A\WAKENING

www.a.wakening.nl



@femkeframed

S.06 *Corylus avellana*

Common Hazel

ESSENBURG PARK

LOCATION: B0133 B0126 B0328,29,56,59,65 B0422,44,51,67



Common hazel is cultivated for its nuts. It is native to Europe and most common in woodlands and hedgerows. Whilst it can grow to be a small tree, it is often coppiced as a shrub, providing shelter for ground-nesting mammals and birds.

HISTORY

CHARACTERISTICS

NEEDS



Full shade to semi-shade



Well-drained soil of any type, preferably low in nutrients

PROVIDES



Trunks are often covered in mosses, liverworts and lichens



Hazelnuts are eaten by woodpeckers, nuthatches, tits, wood pigeons, jays and small mammals

Max Height: 12M

Max Age: 80Y

A\WAKENING

www.a.wakening.nl



@femkeframed

S.07 Ligustrum vulgare

Wild Privet

ESSENBURGPARK

LOCATION: B01 26,43 B02 5,6,22 B04 4,60 B07 6,27



Wild privet is a sturdy, fast-growing shrub that has good winter hardiness. It is native to northeastern Europe and widely used as a hedge plant. It is common in hedgerows and woodlands, especially in chalk areas.

HISTORY

CHARACTERISTICS

NEEDS



Grows well in full sun but will tolerate lower light levels if nutrients are increased



Sandy, loamy and clay soils

PROVIDES



The berries are poisonous to humans but readily eaten by thrushes



Stays green in winter and thus, provides shelter for birds and small mammals

Max Height: 1,5-4M

Max Age: 25-50Y

A\WAKENING

www.a.wakening.nl



@femkeframed

S.08 *Ilex aquifolium*

Common Holly

ESSENBURGPARK

LOCATION: B014 B052



Native to western and southern Europe, common holly is an evergreen tree or shrub, widely associated with christmas. It has a great capacity to adapt to different conditions and is a pioneer species that repopulates the margins of forests or clearcuts.

HISTORY

CHARACTERISTICS

NEEDS



Full sun



Well-drained but not dry, slightly acidic soil

PROVIDES



The berries are a vital source of food for birds in winter, and small mammals, such as wood mice



Shelters birds and gives hedgehogs a cosy place to hibernate

Max Height: 15M

Max Age: 300Y

A\WAKENING

www.a.wakening.nl



@femkeframed

S.09 Buddleja davidii

Summer Lilac

ESSENBURGPARK

LOCATION: B01 44,69 B02 19 B03 25



Summer lilac is a vigorous shrub with an arching habit native to central China and Japan. Widely used as an ornamental plant in gardens and parks, it is also called butterfly bush for its sweet scented flowers. It also grows wild in widely scattered sites, usually in the vicinity of past or present human habitations.

HISTORY

CHARACTERISTICS

NEEDS



Full sun



Fertile, humus-rich, well-drained, neutral to alkaline soil

PROVIDES



Attracts numerous bees, especially since the flowers grow in dense clusters



Attracts many butterflies

Max Height: 5M

Max Age: 50Y

A\WAKENING

www.a.wakening.nl



@femkeframed

S.10

Prunus laurocerasus

Cherry laurel

ESSENBURGPARK

LOCATION: B04,66,75,80,83



Cherry laurel is an evergreen shrub native to southeastern Europe and is a widely cultivated ornamental plant, used for planting in gardens and parks in temperate regions worldwide. It is a member of the rose family and is often used for hedges, as a screening plant, and as a massed landscape plant.

HISTORY

CHARACTERISTICS

NEEDS



Sun or shade



Moist, fertile, well-drained soil

PROVIDES



Packed with nectar and pollen and therefore very popular among bees



Evergreen

Max Height: 6-8M

Max Age: 25-50Y

A\WAKENING

www.a.wakening.nl


@femkeframed

NOTES

All leaves were scaled 60% for the pocket edition of this herbarium.

Leaves were collected in autumn, winter, spring and summer.

SOURCES

www.woodlandtrust.org.uk
www.en.wikipedia.org
www.gardenia.net
www.vdberk.com/trees