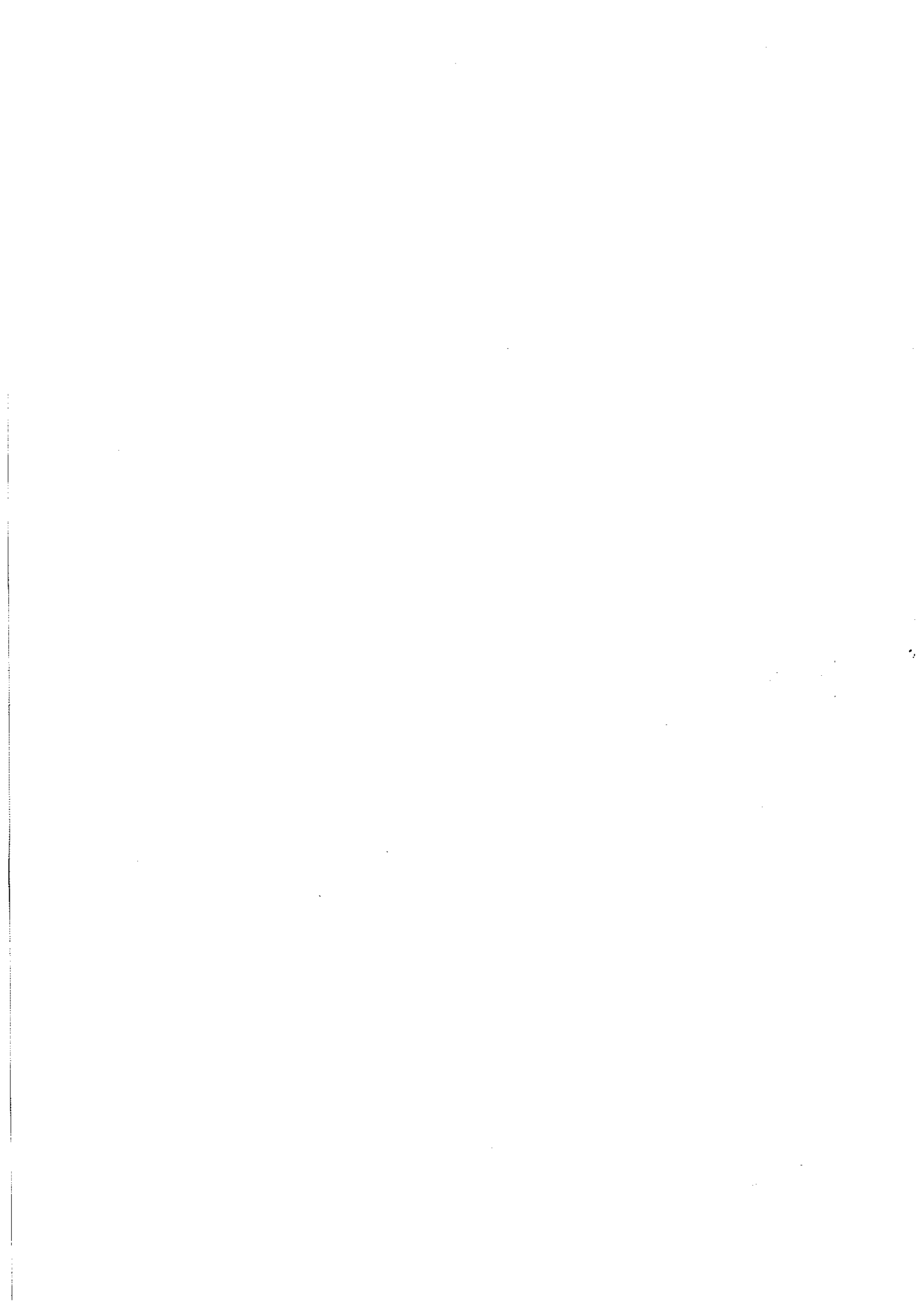




**Trees and Shrubs
for Landscape Use
in Jordan and
Neighbouring
Countries**

**Jan Cejka
Suad al-Aamiry**

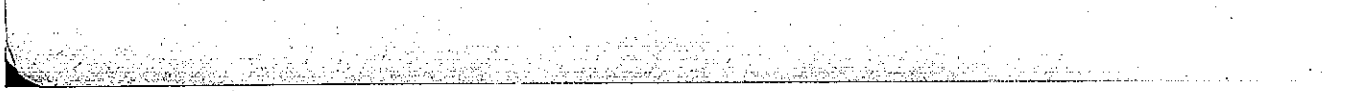
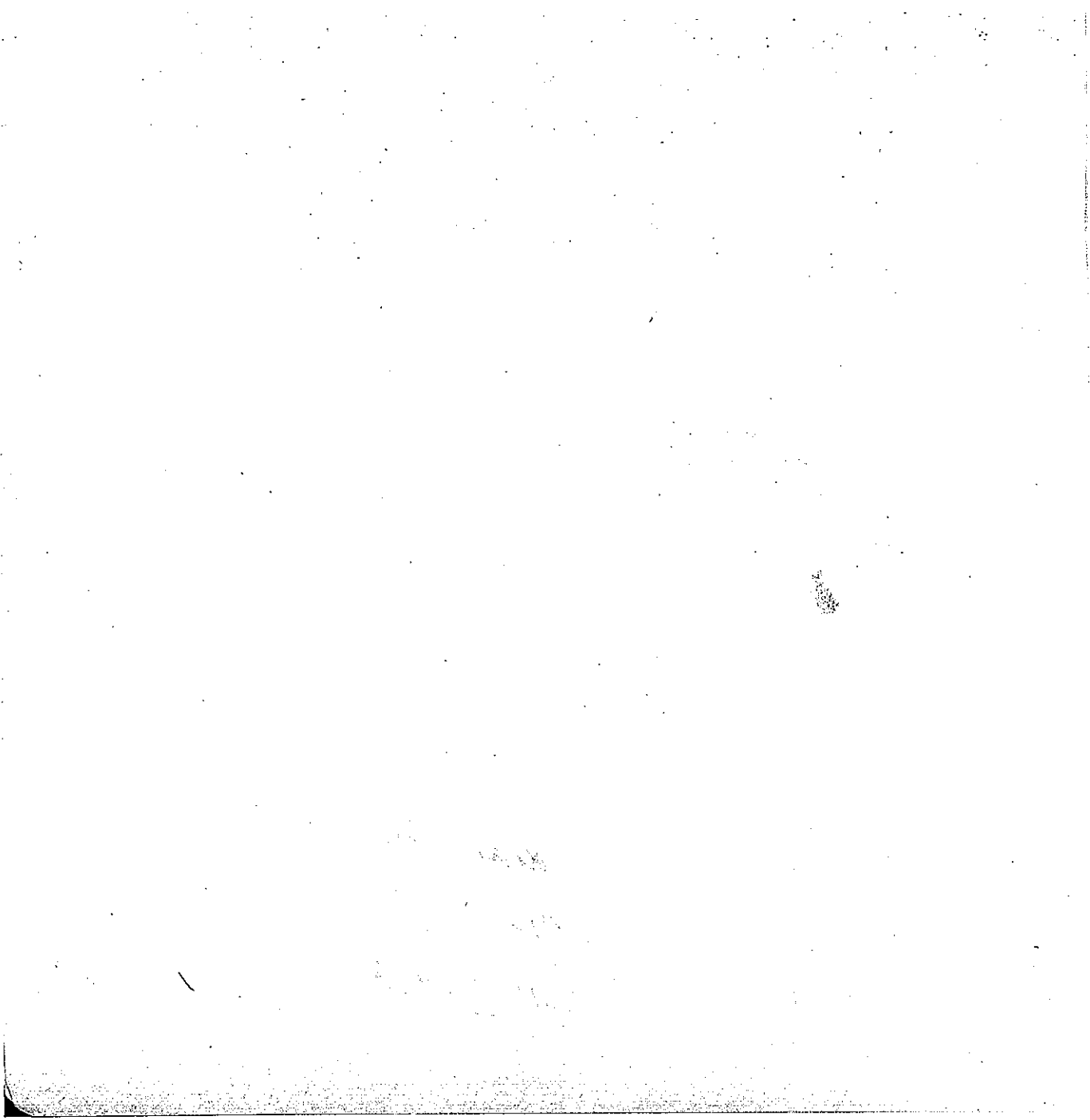
Selden & Tamm



**Trees and Shrubs for Landscape Use
in Jordan
and Neighbouring Countries**



To dear Awwa
Jim Kyle
15.11.1982



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Selden & Tamm

MNF 22

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Introduction

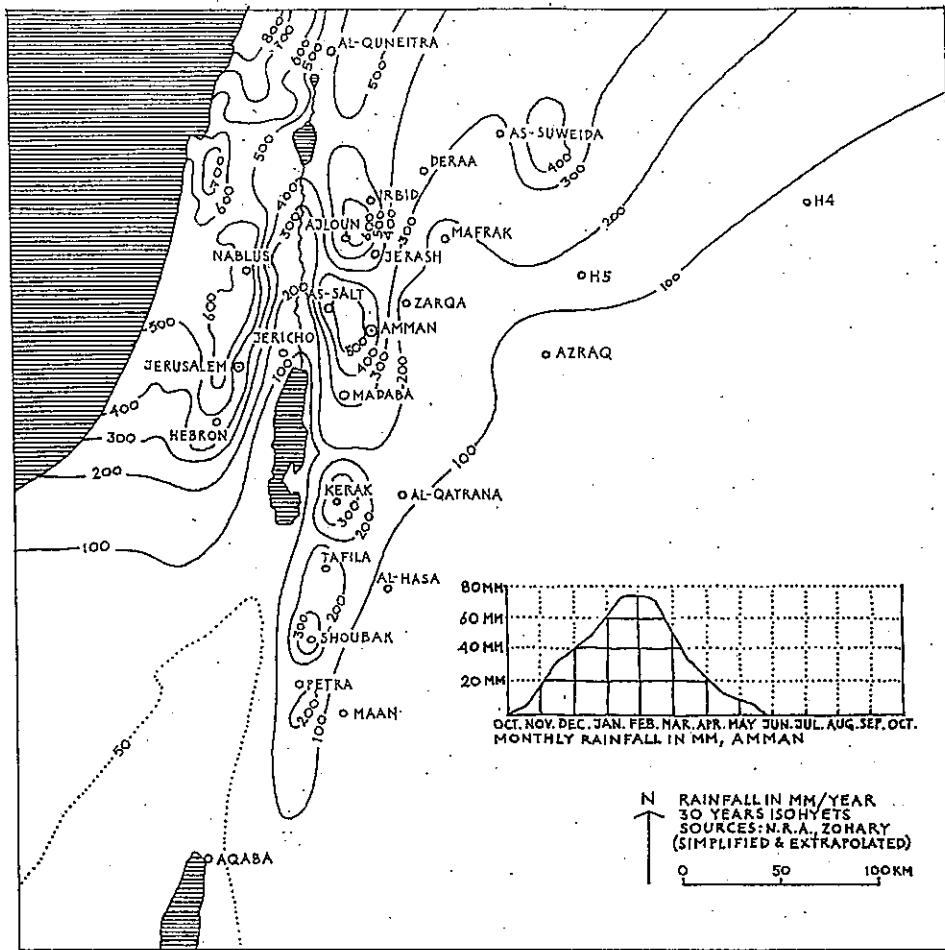
This book was originally intended to be a textbook for the students of architecture at the University of Jordan. However, it seems that the material collected may render the book a useful reference for landscape architects, horticulturists, hobby gardeners and general public. Only plants presently existing in the region were considered. Some of the wild species native to eastern Mediterranean and the Middle East were included, although they are not yet cultivated by professional nurseries. Since they are best adapted to the local climate and soils we think it necessary to include them in this collection. They can be easily propagated by seeds collected from the wild specimen. Special attention was paid to the adaptation to semi-arid conditions prevailing in the region. In this context the term "drought resistant" designates plants able to survive extended dry periods without additional watering. In order to make the descriptions of plants easily accessible to the general public, specialized botanical terms were avoided as far as possible. Information concerning the height and the spread of the species described are average dimensions and not the absolute maximum. Generally the plants remain somewhat smaller in the semi-arid climate compared to the same plants in more favourable conditions. Hence the difference between the information of this book and comparable data included in some other plant-material books imported from Europe or America.

The plants are arranged according to their landscape use, i.e. conifers, palms, evergreen and deciduous trees, evergreen and deciduous shrubs, evergreen and deciduous vines. Other landscape-use properties, as for example ground cover, wind break, screen etc. are included in the descriptions. Following more practical considerations, some of the shrubby perennial plants or perennial vines were included, although, strictly speaking, they do not belong to the categories mentioned in the title. The alphabetical index at the end of the book enables quick reference when either the scientific, the English or the Arabic name of the species is known to the reader. The linear drawings were reduced from the original drawings in scale 1:2, thus giving approximately half the size of the original plant.

The descriptions were not intended to serve botanical taxonomy. They are merely elucidating the visual representations and explaining the landscape use of the species concerned. Since the aim of this book is to facilitate plant selection from the material already available, information concerning the propagation of the plants is not included in order to keep the text concise.

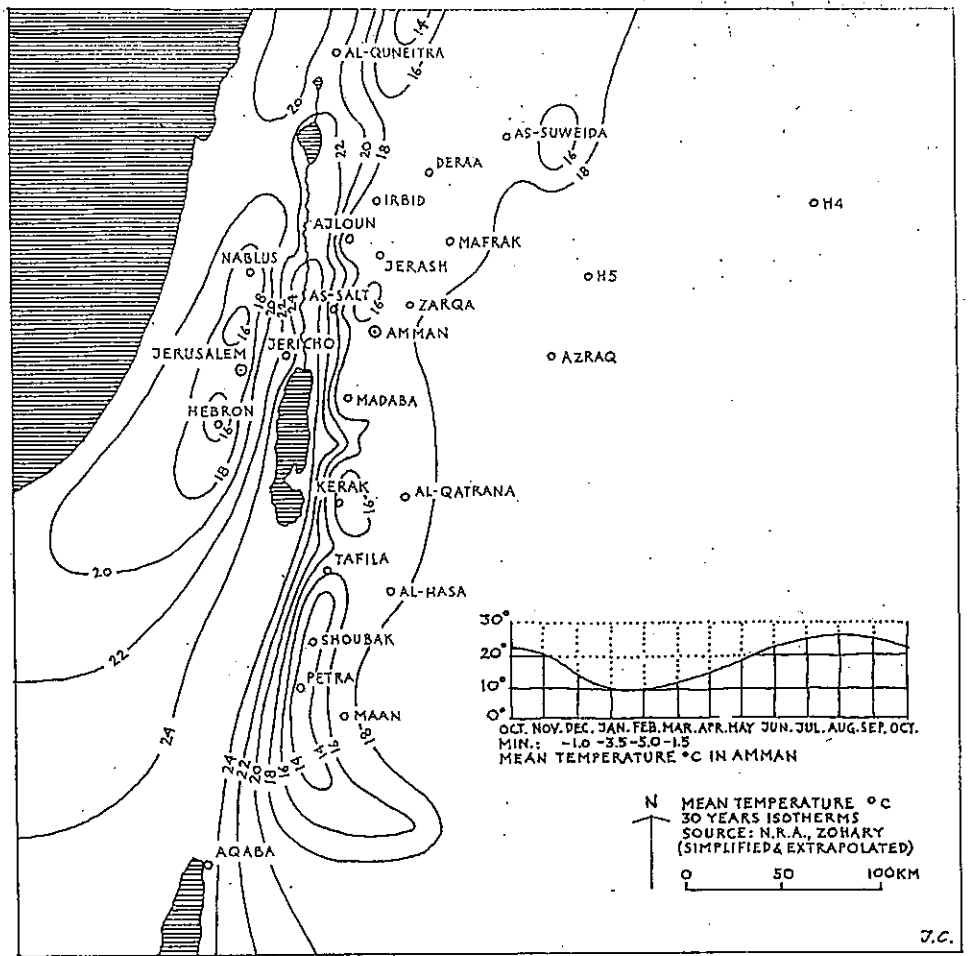
Amman, December 1981

Jan Cejka
Suad al-Aamiry



Rainfall

The annual rainfall is the most important factor for plant life in the region and to large extent determines the distribution of various species. 50-100mm per year can be considered as a limit of plant life, although under favourable conditions /wadis, depressions/ vegetation may sporadically occur. 100-350mm may be considered as semi-arid zone where only extremely drought resistant plants survive /*Retama raetam*, *Pistacia atlantica*, *Acacia raddiana* and similar/. 350-600mm is suitable for the typical mediterranean plants /*Vitis vinifera* - Grape, *Olea europaea* - Olive, *Prunus amygdalus* - Almond, *Ceratonia siliqua* - Carob and similar/. 600mm and more can be considered as sub-humid and suitable for forest-building /*Pinus halepensis* - Aleppo Pine and *Quercus calliprinos* - Live Oak forests/.



Temperature

Although less important than the annual rainfall, the temperature may limit the distribution of certain plants in the region. Typically the lines of equal mean temperature /isotherms/ follow the mountain ranges and the mean temperature decreases with altitude. However, some increase of mean temperature in the North-South direction is also noticeable. The mean annual temperature of 18°C and below generally means that in this zone frosts may occur and eventually endanger species that are not frost resistant. The mean annual temperature of 22°C may constitute the limit of some hot-region plants such as Date Palm /Phoenix dactylifera/ and Flamboyant /Delonix regia/ that would not grow in colder climate successfully.

Typical problems of semi-arid landscape

1. Sun

The sun affects the environment in four ways:

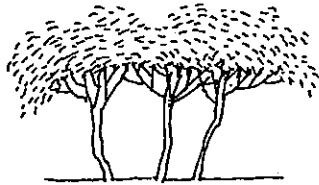
a/ direct sunrays harmful to people in summer

b/ direct sunrays desirable in winter

c/ glare reflected from light surfaces

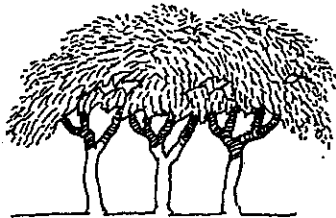
d/ increased evaporation caused by heat resulting in damage of vegetation and harsh microclimate

To provide protection against harmful sunrays in summer there are essentially three ways: Spreading trees providing a shading canopy of foliage, trellis, pergolas or arbors with climbing vines creating pools of shade, and architectural devices such as canopies, projections of upper floors and the like. The deciduous trees and vines have the advantage of letting the desirable winter sun shine through the skeleton of bare branches. On paved areas special attention should be paid to invasive roots which may be harmful to the pavement. Some examples of useful deciduous trees giving agreeable shade:



Canopy of deciduous trees giving light, filtered shade

Albizzia julibrissin /Silk Tree/
Jacaranda acutifolia /Jacaranda/
Olea europaea /Olive Tree/, litter!
Melia azedarach /China Berry/, litter!
Tamarix chinensis /Tamarisk/, invasive roots!
Parkinsonia aculeata /Jerusalem Thorn/, bushy!
Wisteria sinensis /Wisteria/



Canopy of deciduous trees giving solid shade

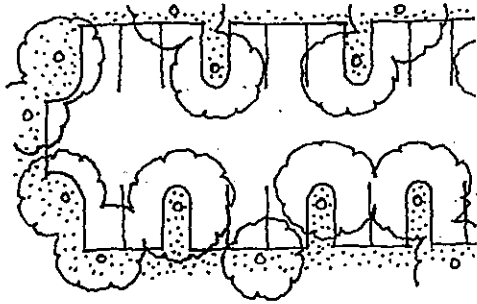
Platanus orientalis /Oriental Plane/
Ailanthus altissima /Tree of Heaven/
Prunus armeniaca /Apricot/
Robinia pseudoacacia /Black Locust/
Sophora japonica /Pagoda tree/
Pistacia atlantica /Wild Pistachio/
Morus nigra /Mulberry/, litter!
Juglans regia /Walnut/, litter!
Grevillea robusta /Silk Oak/, invasive roots!



Vitis vinifera /Grape/
 Campsis radicans /Trumpet Vine/
 Parthenocissus quinquefolia /Virgin. Creeper/
 Bougainvillea spectabilis /Bougainvillea/
 Wisteria sinensis /Wisteria/

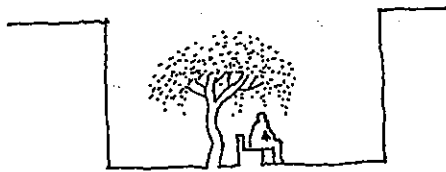
Trellis or pergola with deciduous vines

On parkings a combination of deciduous and evergreen trees will provide some year-round shade, protection from heat and glare and allow some winter sun to penetrate. Although slightly more expensive in the beginning, green islands should be left between the cars in order to provide the shade, which, in its turn, will protect the plastic and textile parts of cars and thus extend their life span. Some examples of plant material for this purpose:



Deciduous trees:
 Robinia pseudoacacia /Black Locust/
 Sophora japonica /Pagoda tree/
 Acer pseudoplatanus /Sycamore Maple/
 Evergreen trees:
 Ceratonia siliqua /Carob/
 Acacia cyanophylla /Blue-leaved Wattle/
 Eucalyptus camaldulensis /Red Gum/

As a shading canopy for limited spaces like patios, courtyards, terraces and similar, deciduous trees of moderate scale and attractive shape, foliage or blossoms should be used. Invasive roots may be problem to pavements, sewer lines and foundations, fruits that litter may stain the pavement and are problem of maintenance. Some examples:



Albizzia julibrissin /Silk Tree/
 Wisteria sinensis /Wisteria/
 Cercis siliquastrum /Judas Tree/
 Parkinsonia aculeata /Jerusalem Thorn/
 Bauhinia variegata /Orchid Tree/
 Tamarix chinensis /Tamarisk/, invasive!

Filtered shade, blossoming patio trees /deciduous/



Prunus armeniaca /Apricot/
Citrus aurantium /Sweet Orange/
Citrus Limon /Lemon/
Pistacia atlantica /Wild Pistachio/
Ficus carica /Edible Fig/, litter!
Punica granatum /Pomegranate/

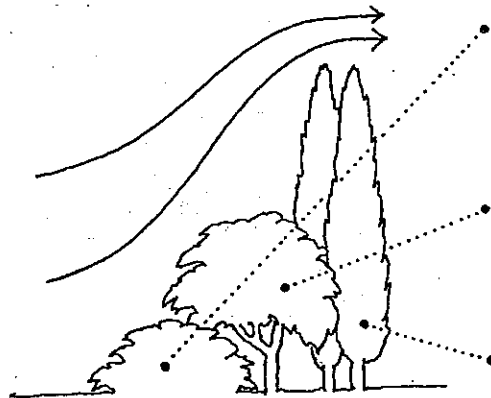
Solid shade patio trees /deciduous/

2. Wind and dust

The wind has to be controlled for several reasons: Strong wind makes outdoor spaces unpleasant and difficult to use, winds carry in arid and semi-arid areas dust particles, thus rendering outdoor spaces dirty and unattractive, winds accelerate evaporation and create dry, harsh microclimate, gales may damage vegetation and man-made structures.

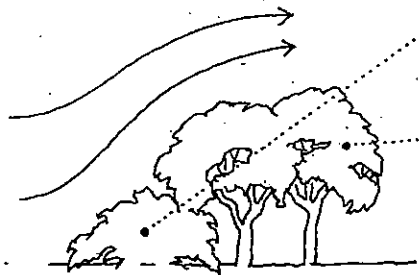
The most effective way to control wind is to create windbreaks of plant material. These are superior to any man-made windbreak because they are made of living plants producing humidity on the leaf-surface and consequently acting as efficient dust filters. Moreover, in a wind-sheltered area a pleasant microclimate may develop, more humid, cooler and cleaner than in unprotected areas. This can be augmented by introducing evaporation surfaces of pools or fountains. Such microclimate will also foster growth of plants and reduce maintenance since dust will be filtered by the screen of vegetation.

The windbreaks should be composed sturdy, evergreen species with dense foliage. Different heights should be combined to provide a solid, aerodynamically effective screen. High-trunked trees alone would not be of much help, combination with shrubs or hedges is necessary.



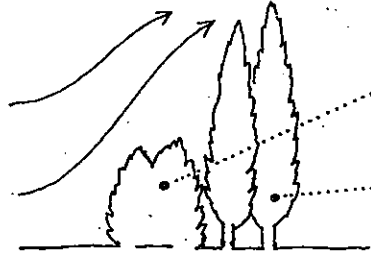
Evergreen shrubs:
Dodonaea viscosa /Hopseed Bush/
Euonymus japonica /Evergreen Euonymus/
Ligustrum japonicum /Privet/
Myoporum laetum /Myoporum/
Pyracantha coccinea /Firethorn/
 Medium height evergreen trees:
Schinus molle /Pepper Tree/
Acacia cyanophylla /Blue-leaf Wattle/
Ceratonia siliqua /Carob/
Quercus calliprinos /Palestine Live Oak/
 Vertical conifers:
Cupressus sempervirens /Italian Cypress/

Compound, multi-range windbreak for effective wind protection



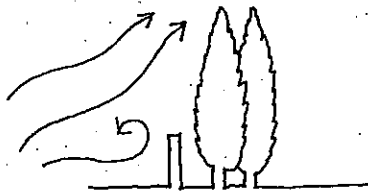
Windbreak composed of evergreen shrubs and trees of medium range

- Evergreen shrubs:
Ligustrum japonicum /Privet/
Myoporum laetum /Myoporum/
Pyracantha coccinea /Firethorn/
- Evergreen trees:
Grevillea robusta /Silk Oak/
Eucalyptus camaldulensis /Red Gum/
Casuarina equisetifolia /Casuarina/
Pinus halepensis /Aleppo Pine/



Windbreak composed of conifers

- Low range conifers:
Thuja orientalis /kept as hedge/
Cupressus sempervirens, var. horizontalis
/Horizontal Cypress/
- High range of conifers:
Cupressus sempervirens, var. stricta
/Italian Cypress/



Windbreak combined with a boundary wall

- Medium or high range conifers:
Thuja orientalis /Arbovitae/
Cupressus glabra /Smooth Arizona Cypress/
Cupressus sempervirens /Italian Cypress/
Thuja plicata /Western Red Cedar/

3. Rain and erosion

The landscape of the Middle East is generally lacking persistent ground cover and is thus exposed to excessive erosion during the winter rainy season. Moreover, the rainwater is not held and stored by vegetation and its root system, a situation that causes fast run-off and accelerated evaporation. All these are factors negatively influencing the establishment of permanent vegetation. Some socio-cultural factors like overgrazing by sheep and goats aggravate the situation.

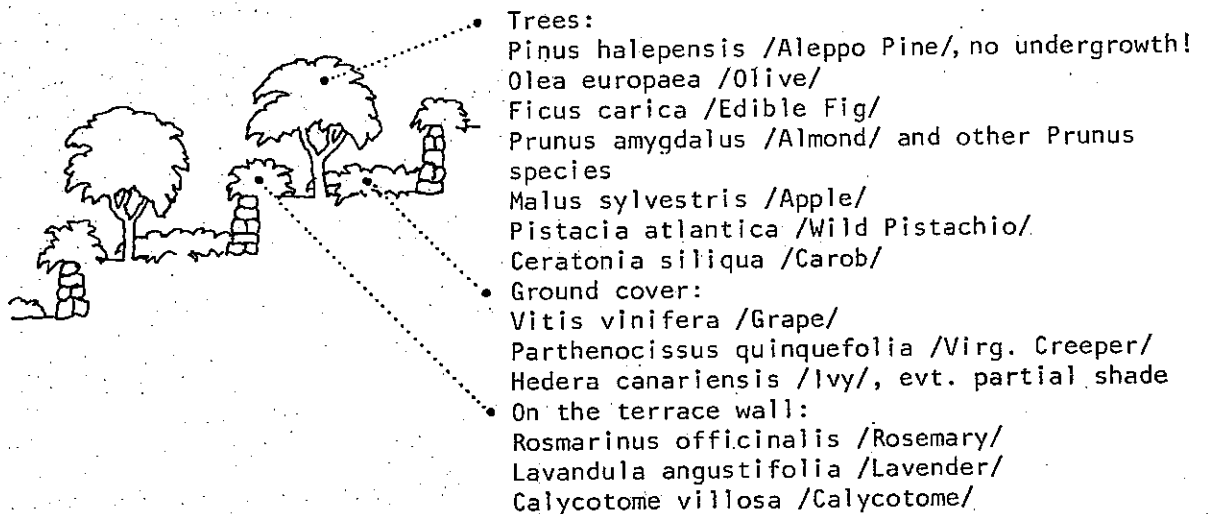
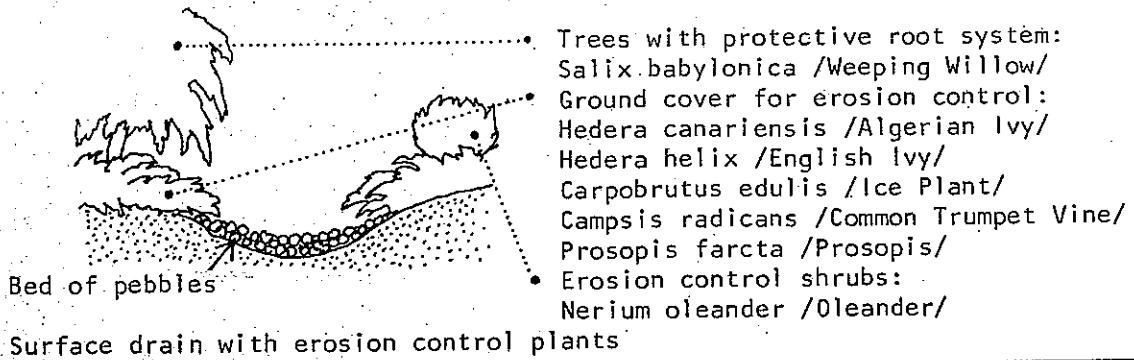
There are essentially four ways of dealing with the problem:

- a/ The run-off water should be directed to surface drains, protected against erosion by appropriate treatment.
- b/ Establishing of terraces and thus braking the fast run-off.

c/ Planting vegetation on terraces in order to store the run-off water over extending periods.

d/ Using erosion-control planting for otherwise neglected slopes.

All these measures should be used simultaneously to achieve positive results. A surface drain can be treated in following way:

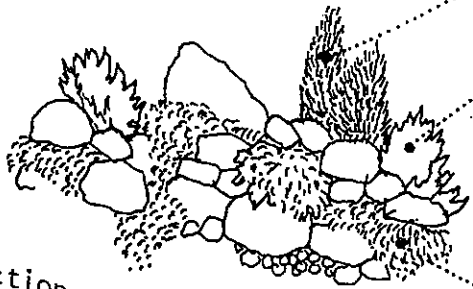


Terracing for erosion control and storage of humidity

4. Semi-arid areas with minimum rainfall

These places require special attention and are most difficult to handle successfully. Careful selection of drought resistant plants able to survive dry years with

...ted rainfall is an absolute must. This requirement is often combined with the desire of low or no maintenance, since such places are usually neglected. Other than the proper choice of plants there is also a possibility to create rock gardens or to use mineral materials such as pebbles, gravel, sand and boulders in a decorative way. Combining the "mineral" garden with some of the hardiest species may bring satisfactory results. Some suggestion of appropriate plant material:



- Drought resistant dwarf trees:
 - Cupressus sempervirens, var. horizontalis /Horizontal Cypress/
 - Tamarix chinensis /Tamarisk/
- Drought resistant shrubs:
 - Rosmarinus officinalis /Rosemary/
 - Lavandula angustifolia /Lavender/
 - Retama raetam /Retama/
 - Crataegus aronia /Palestinian Hawthorn/
 - Calycotome villosa /Calycotome/
- Drought resistant ground cover:
 - Prosopis farcta /Prosopis/
 - Carpobrutus edulis /Ice Plant/

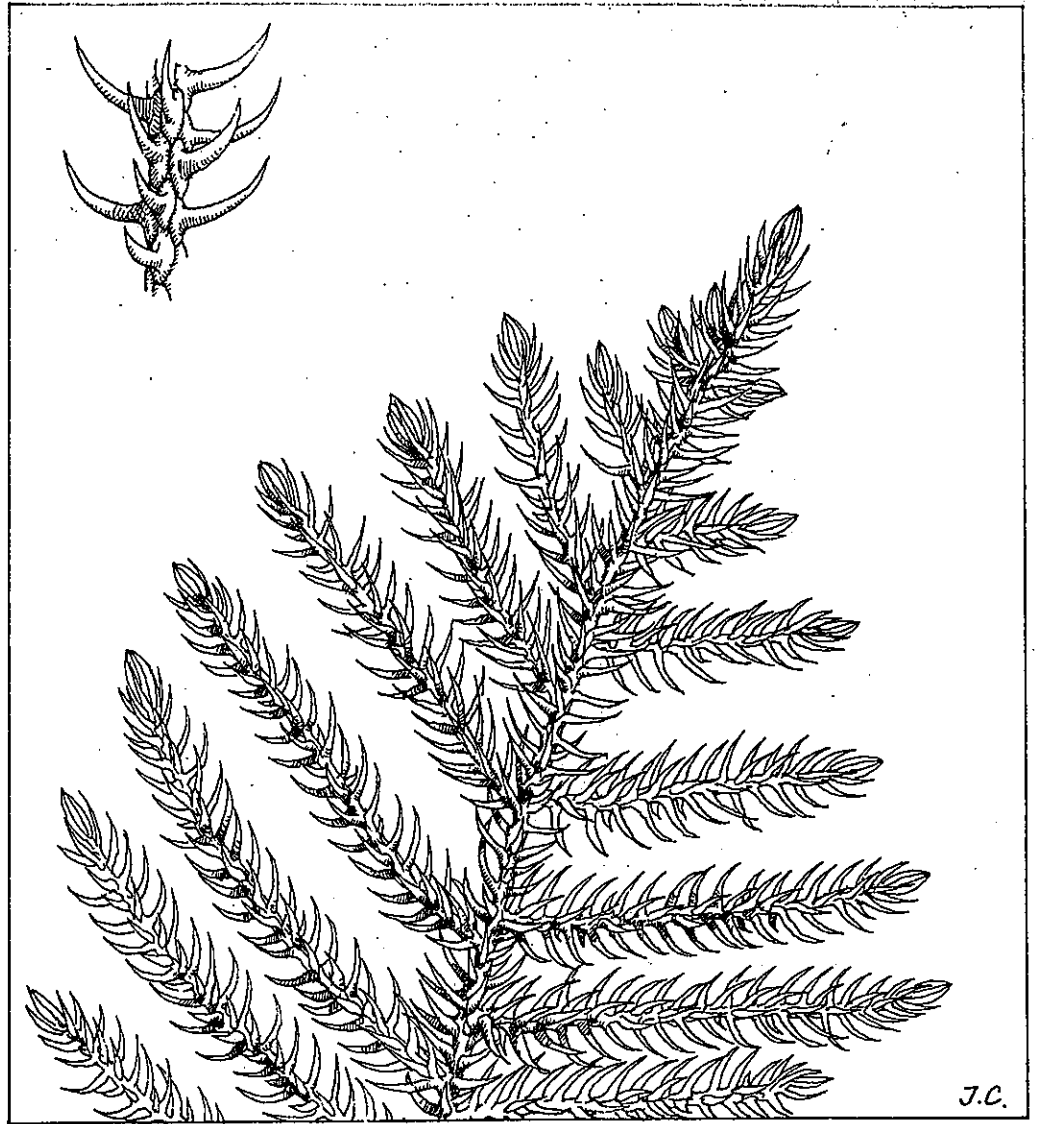
Selection of plants for a drought resistant rock garden



- Drought resistant trees:
 - Albizzia julibrissin /Silk Tree/
 - Acacia farnesiana /Sweet Acacia/
 - Acacia decurrens /Green Acacia/
 - Pistacia atlantica /Wild Pistachio/
 - Parkinsonia aculeata /Jerusalem Thorn/
 - Tamarix chinensis /Chinese Tamarix/
 - Schinus molle /Pepper Tree/
 - Quercus calliprinos /Palest. Live Oak/, bushy!

Drought resistant trees for neglected areas /providing some shade/

CONIFERS



Araucaria excelsa
 Araucaria, Norfolk Island Pine

اروكاريا



height 20m, spread 10m

Evergreen tree with a pyramidal shape, very regular and evenly spreading. Bright green leaves with sharp ends, curved, ab. 2cm long. Moderate growth, prefers moist and well drained soil, full sun or shade, needs watering. Sometimes planted in containers indoors.

Use: Formal looking specimen tree with interesting skyline, suited for parks, in dry climate requiring special care. Can be kept in containers.



Cedrus atlantica
Atlas Cedar

ارز

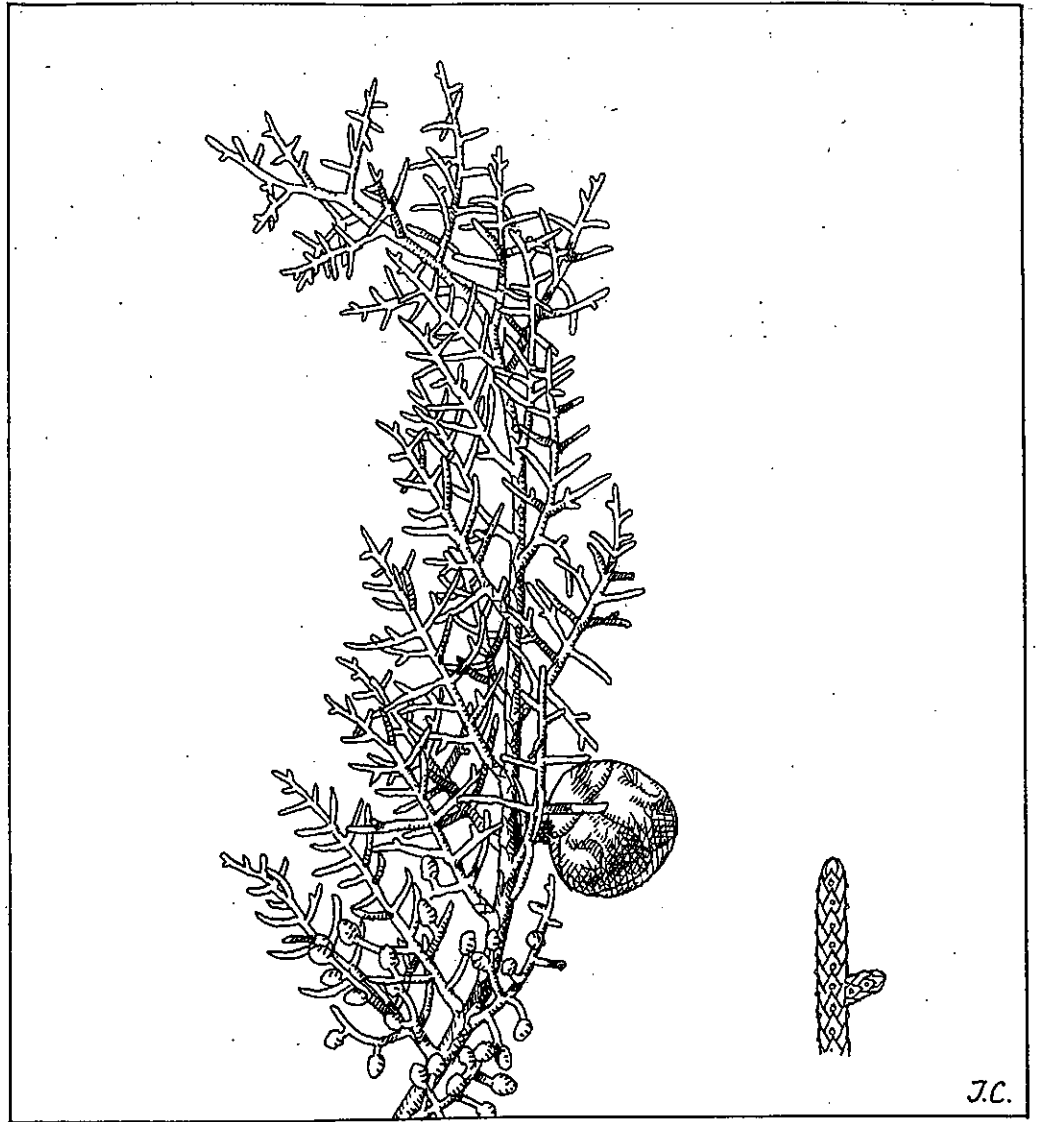
height 30m, spread 10m

Evergreen tree of pyramidal shape with horizontally spreading branches. Needles less than 3cm, bluish green, growing in small clusters. Cone scales fall down leaving a spiky core behind. The variety "glauca" has even shorter, silvery-blue needles. Moderate to slow growth, Mediterranean region. Needs well drained soil, is drought tolerant when established and resistant to wind.

Use: Good specimen tree, solitary, on lawn, interesting shape and foliage.

16





Cupressus glabra
Smooth Arizona Cypress

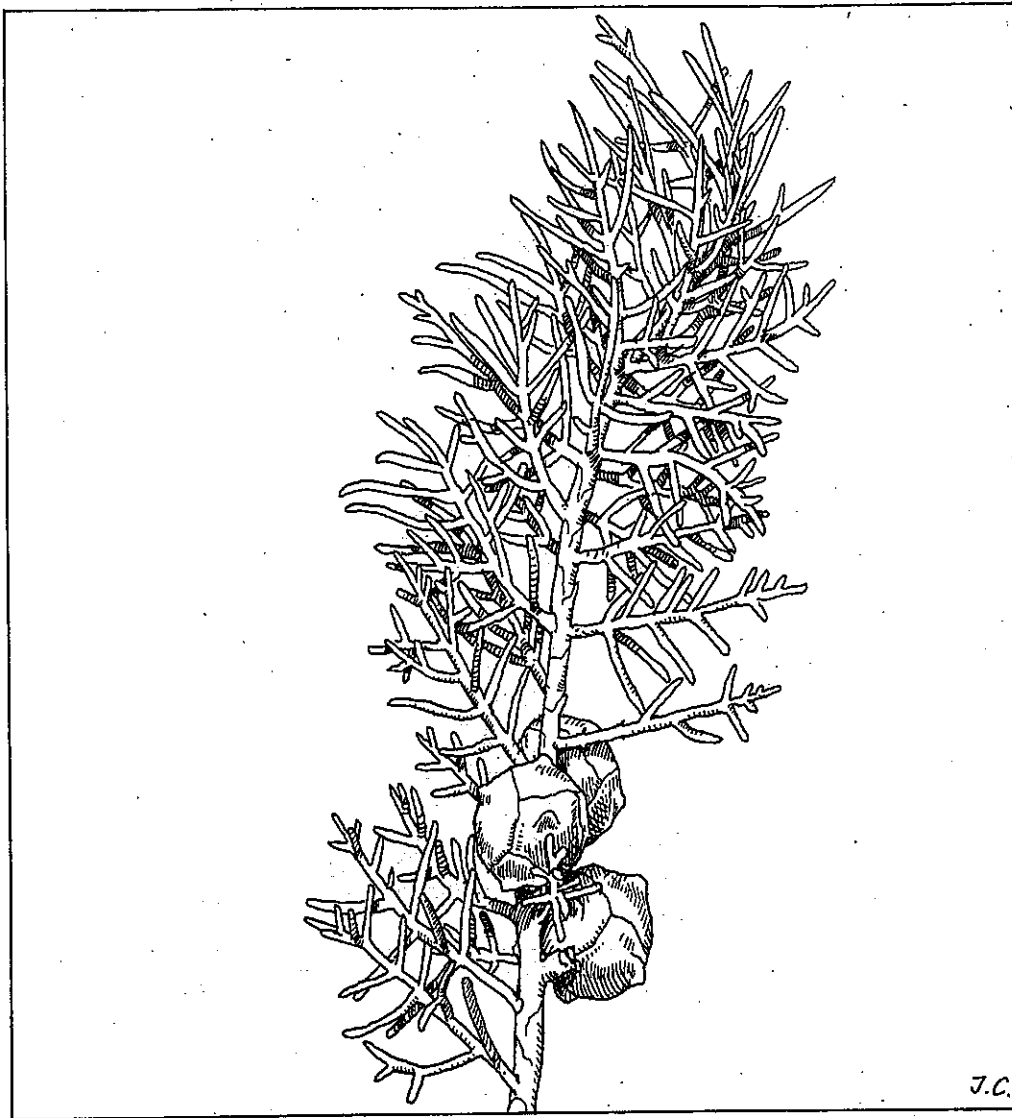
سرو



height 10m, spread 4m

Evergreen tree with pyramidal crown, smooth, red bark and fine, blue to grey green foliage. Spherical cones composed of 6 to 8 scales are ab. 2cm in diameter. Fast growing, extremely drought resistant when established, tolerates poor soils, full sun and strong wind. Very hardy species.

Use: Fast growing wind brakes in arid zones, screens, along roads and pathways. Also as specimen tree for its bluish-green foliage.



Cupressus sempervirens*, var. *stricta
Italian Cypress

سرو

height 20m, spread 2m

Dense columnar to pyramidal evergreen tree. Dark green scale-like leaves create fine texture. Cones round, 3-4cm in diameter. Fast to medium growth, native to Mediterranean region. Prefers alkaline rocky to coarse sandy soils. Drought tolerant but benefits from deep irrigation when young.

Use: For vertical accents when planted solitary, dense screen when about 1.5m apart. Also boulevard planting, alleys, wind-breaks.

Variety "horizontalis" has horizontally spreading growth and can be used as ground cover or for rock gardens. This type of growth can be also induced by cutting away vertical trunk on young plant of basic variety.





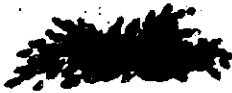
Juniperus chinensis pfitzerana
Pfitzer Juniper

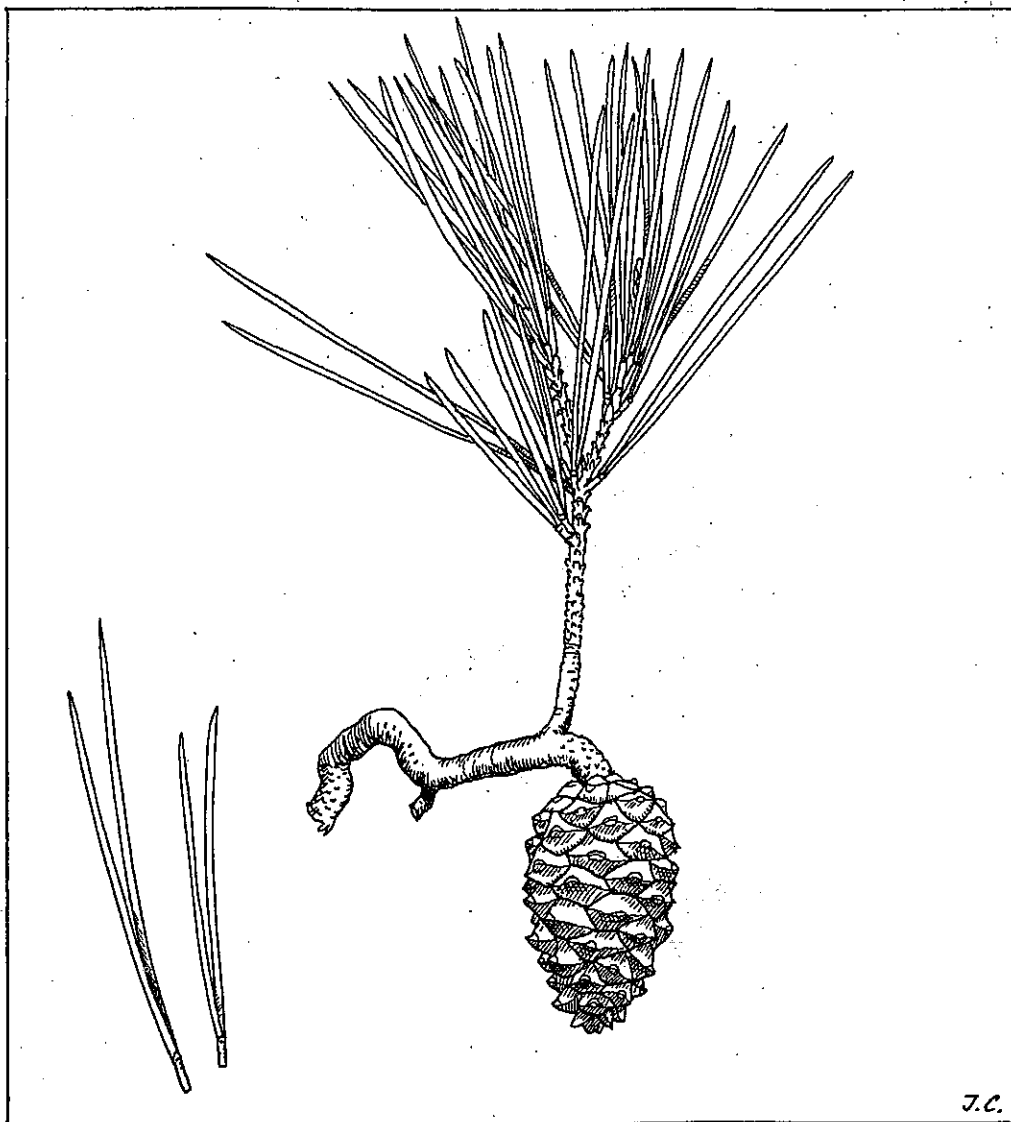
جونبير

height 1.5m, spread up to 5m

Evergreen, bushy and spreading tree, looking more as a shrub. Feathery, grey-green, sharp-needled foliage on horizontally spreading, arching branches. Varieties with golden and green foliage also available. Medium growth, not particular about soil, fairly drought resistant, full sun or partial shadow. Does not tolerate excessive heat.

Use: Ground cover on slopes, banks, excellent in rock gardens, also impressive horizontal specimen on lawns.





Pinus halepensis
Aleppo Pine

صنوبر

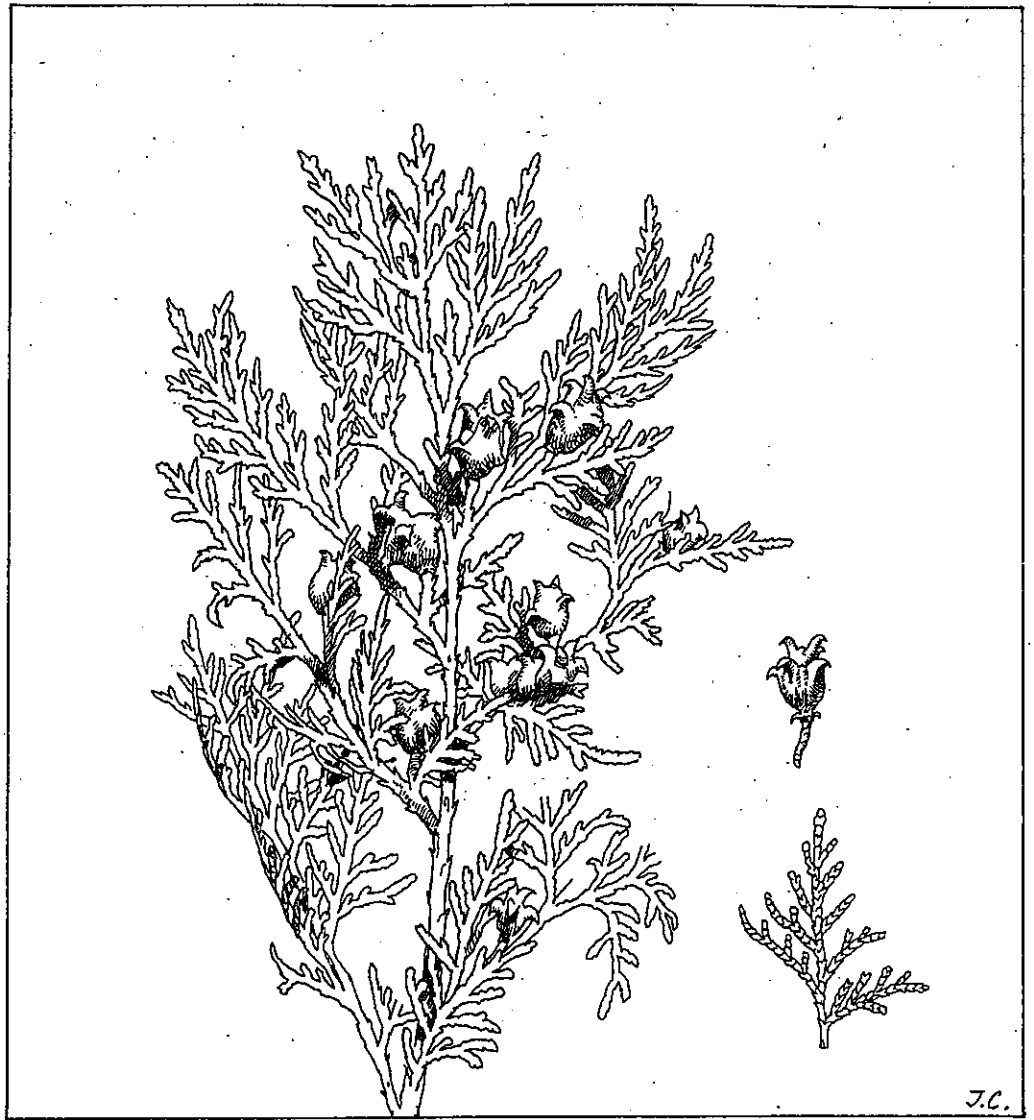
height 18m, spread 10m

Evergreen tree with irregular, dark green crown. Needles 6-10cm in pairs, light green cones turning reddish brown when ripe, up to 10cm long. Medium growth rate, prefers higher altitudes of the hilly region, native to eastern Mediterranean. When established tolerates heat, drought, poor soils and is wind resistant.

Use: Forests, parks, screens along walls, gives pleasant shade when planted in groups. For continuous umbrella-effect plant about 3m apart.

20





Thuja orientalis
Oriental Arborvitae

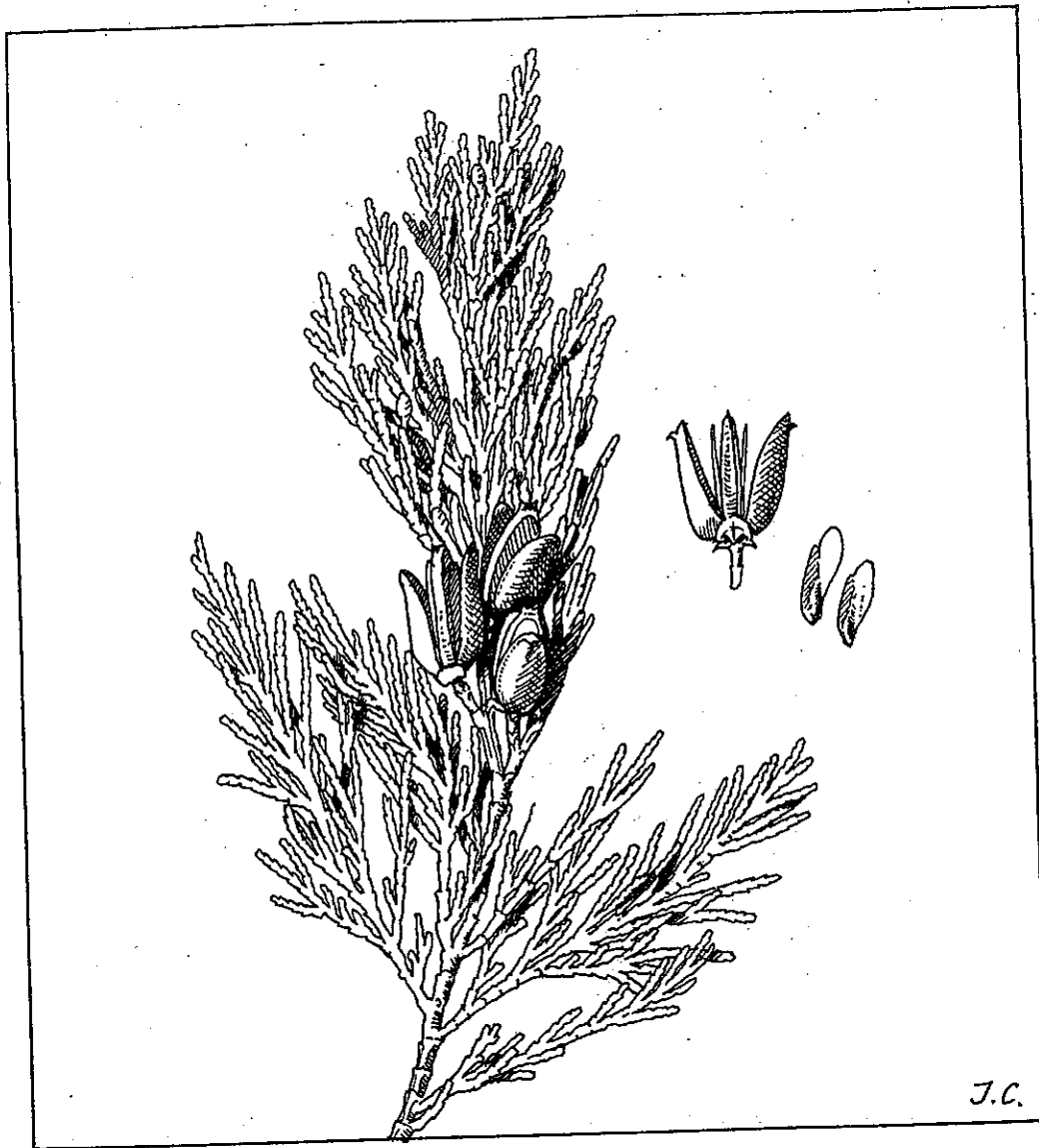
تويا



height 7m, spread 3m

Small evergreen tree with a neat, symmetrical and rather vertical crown. Scale-like leaves in flat sprays, dark green /yellowish varieties also available/. Small cones with few scales and typical hooks on the top. Fast growth, can be trained as a hedge. Adaptable to most soil conditions, fairly tolerant to drought and wind resistant.

Use: formal looking tree or screening hedge, also useful as wind-break.



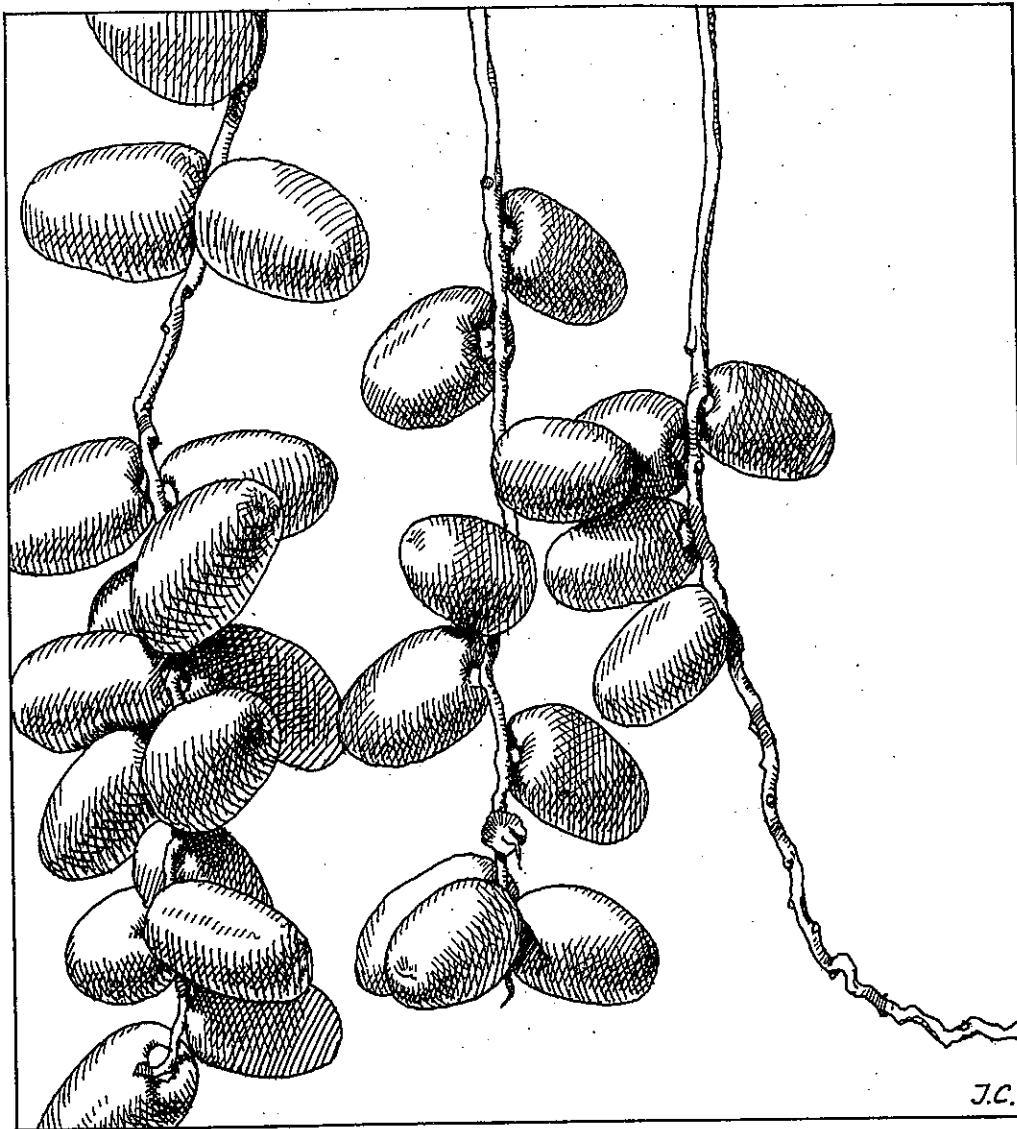
Thuja plicata
Western Red Cedar

تويا

height 15m, spread 4m
 Evergreen, pyramidal tree with drooping, graceful sprays of scale-like leaves.
 Brown cones ab. 2cm long split in the middle and open to release winged seeds.
 Medium growth, established trees tolerate drought, suspect to foliage burn in
 hot, dry summers. Species with columnar growth also available.
 Use: Specimen tree on lawns, tall screens.



PALMS



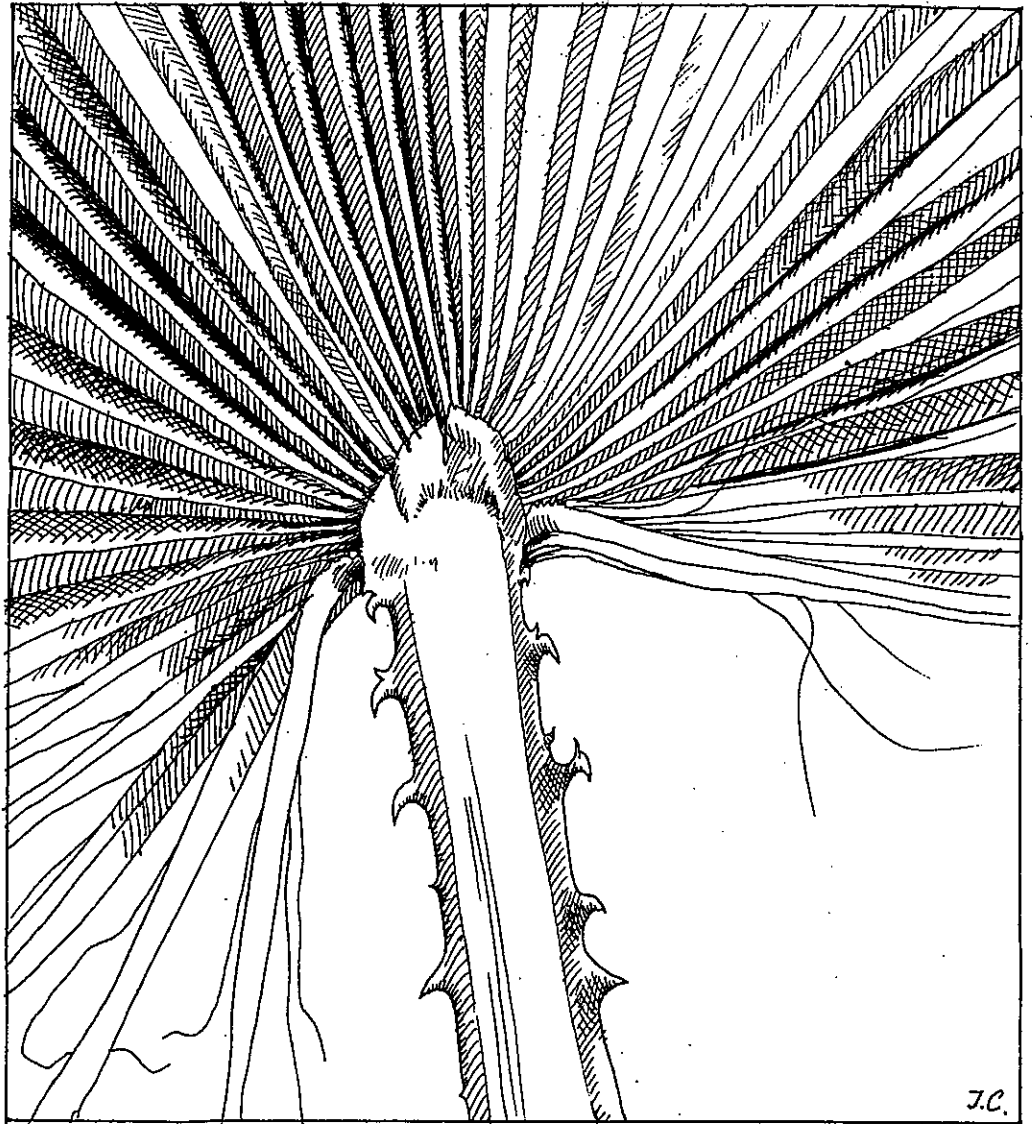
Phoenix dactylifera
Date Palm

نخلة

height 25m, spread 5m
 Large palm with trunk patterned by bases of old leaf-stalks. Left unattended will produce several trunks. Leaves with long, sharply pointed leaflets, ab. 50cm long, greyish green and stiff. Flowers small and yellowish in large, hanging sprays. In suitable, hot climate followed by clusters of edible fruits. Slow growing, likes heat and full sun, needs deep humidity at root level, prefers desert oasis and seaside. In colder climate does not bring fruits. Native to Middle East.

Use: Typical "movie" palm, good specimen tree, more frequently planted as crop tree for its edible dates.





Washingtonia filifera
California Fan Palm, Washingtonia

واشنتونيا



height 15m, spread 4m

Palm tree with long-stalked, fan shaped leaves ab. 1m across, forming loose crown. Erect, cylindrical stem is partly covered by withered leaves. Leaf stalks are spiny. Black fruits appear in clusters. Fast growing, adapted to desert climate, in its natural habitat growing near springs, needs little watering, rather hardy.

Use: One of the most frequently planted decorative palms, on lawns or along streets. Young trees also grown in containers.

EVERGREEN TREES

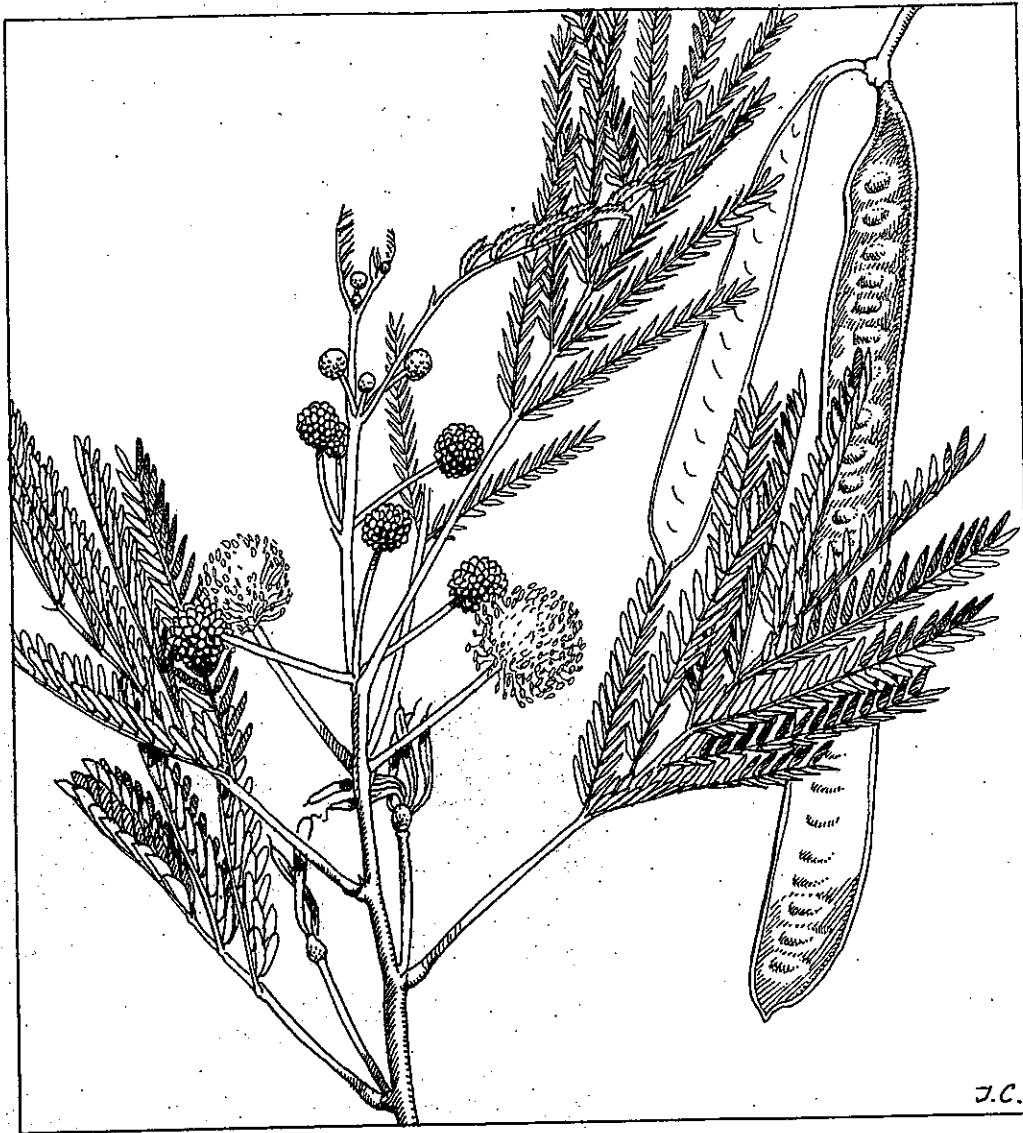


Acacia cyanophylla
Blue-Leaf Wattle, Mimosa

اكاشيا



height 6m, spread 7m
Evergreen tree with long, drooping branches and narrow, 10-20cm long, bluish green leaves. Flowers bright yellow to orange balls in clusters, very fragrant. Heavy bloom in early May. Fast growth, tolerates poor soils, drought and wind resistant, prefers full sun. Very hardy species.
Use: Along roads, banks, erosion control on hillsides, good screen, impressive in full bloom.



Acacia dealbata
Green Wattle

اكاشيا

height 8m, spread 6m
Evergreen tree with finely cut, feathery, compound leaves and smooth, silvery-grey branches. Flowers pale yellow balls in loose clusters, fruits flat, light grey pods with ab. 25 seeds. Fast growing, drought resistant, wind resistant, prefers full sun, not particular about soil but does not tolerate much salinity. Rather short-lived species.
Use: Interesting specimen tree in dry climate, good for screens, along fences.





Casuarina equisetifolia
Australian Pine, Casuarina

كازورينا



height 20m, spread 7m

Tall, evergreen tree with feathery foliage, somewhat resembling pine. Pendulous, grey-green branches have long, needle-like, bluish-green leaves. Fruits resemble cones. Grows rapidly in sand, tolerates both drought and wet soils, heat, wind and semi-arid conditions, very hardy.

Use: Useful wind break, along roads, in polluted areas or even semi-desert.



Ceratonia siliqua
Carob, St. Johns Bread

خروب

height 6m, spread 5m
 Evergreen, originally multi-stemmed tree with shrubby growth. When lower branches removed becomes dense, round headed tree with single trunk. Dark green, leathery, glossy leaves divided into 4-8 leaflets, ab. 5cm long. Inconspicuous flowers directly on the branches, female trees produce big, dark brown, flattened, leathery pods, up to 20cm long, with edible, sweet pulp. Slow growth, drought and wind resistant, tolerates poor soils, prefers full sun. Mediterranean species well adapted to semi-arid climate.
 Use: Very good shade tree, along roads. Agressive roots may break tiled areas.





Eucalyptus camaldulensis
Red Gum

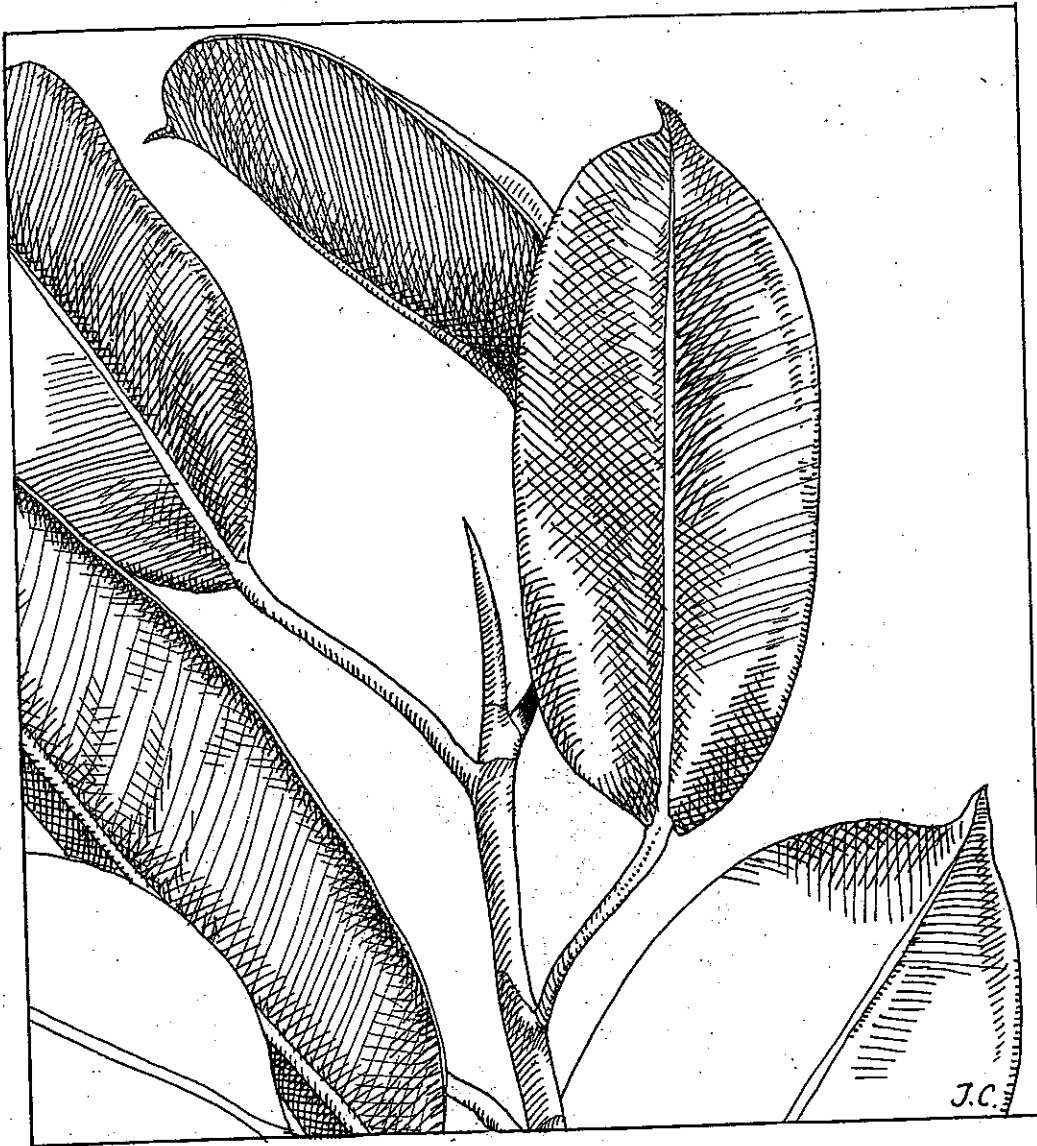
کینا، کافور

height 20m, spread 10m

Tall, evergreen tree with spreading crown and weeping branches. Bark flakes off in thin strips. Long, slender, lance-shaped, aromatic leaves up to 25cm long. Inconspicuous white to pale yellow flowers in drooping clusters followed by brownish capsules with lids that open to release the seeds. Fast growth, drought resistant, takes poor soils but grows best in alkaline soils, prefers full sun, tolerates strong wind and some salinity.

Use: Mighty tree for roadsides, parks, tall screens, river beds, creates interesting skylines. Useful for windbreaks. Somewhat littering.





Ficus elastica
Rubber Plant

كاوشوك

height 20m, spread 15m
Evergreen tropical tree with aerial roots. Used indoors and outdoors. Leaves are dark green, leathery and glossy, elliptical, 15-30cm long and 8-15cm wide. New leaves unfold from pink sheath. Fast growing, best in rich, well drained soils in tropical conditions. Tolerates sun, shade and wind but is not drought resistant and needs watering. Can suffer damage by frost.
Use: For decorative foliage, solitary as specimen tree, gives rich shade.





Ficus nitida
Laurel Fig

فيكس



height 10m, spread 10m

Evergreen tree with regular, round crown. Dense foliage of lustrous green leaves, about 7cm long, with blunt tip and tapering towards the stalk. The tree is suited to formal shearing. Prefers warm climate and rich soil. Needs some watering in summer.

Use: As a decorative specimen tree with a very regular, dense crown, giving rich shade.



Grevillea robusta
Silk oak

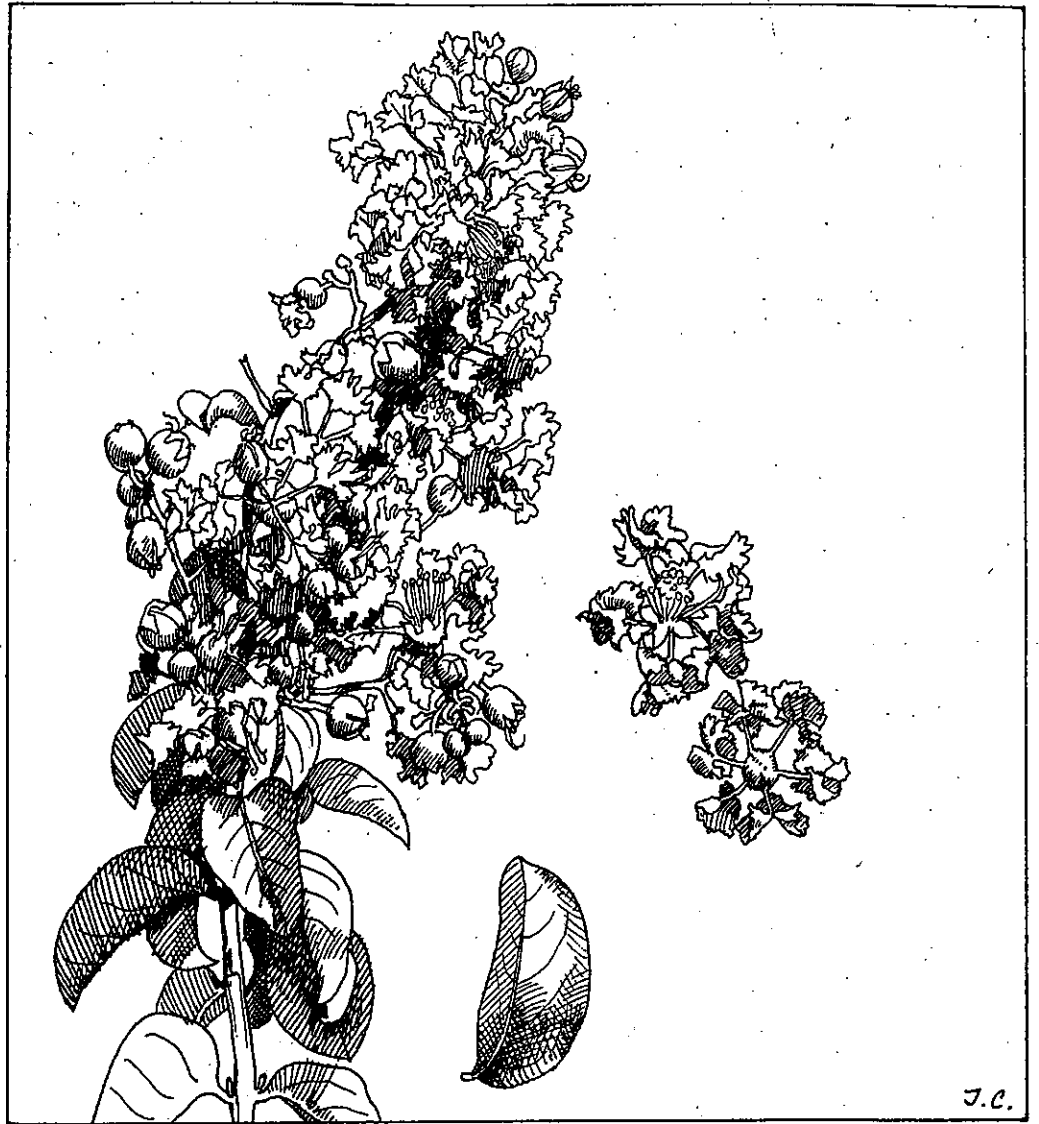
جرافليا، سنديان

height 20m, spread 10m

Evergreen tree with symmetrical crown, pyramidal when young, broad-topped when old. Graceful foliage of deeply lobed leaves, deep green above, silvery beneath. Bright orange clusters of flowers in early spring. Fast growth, tolerates poor soils, drought and full sun. Thrives in heat. Brittle branches easily damaged by wind.

Use: Quick, tall screening for arid zones, fast shade producer. Successful along streets.





Lagerstroemia indica
Crape Myrtle

لجسترونيا



height 5m, spread 3m

Evergreen, small tree with profuse bloom of bright pink, crinkled flowers during the summer season. Naturally multistemmed but grown with single trunk as well. Leaves are oval, on short stalks. Requires only average soil, is drought resistant but sensitive to extended frost periods. Full sun for best bloom. Tolerates traffic pollution.

Use: Along roads, pathways, good specimen tree, also useful on lawn.



Laurus nobilis
Sweet Bay, Laurel

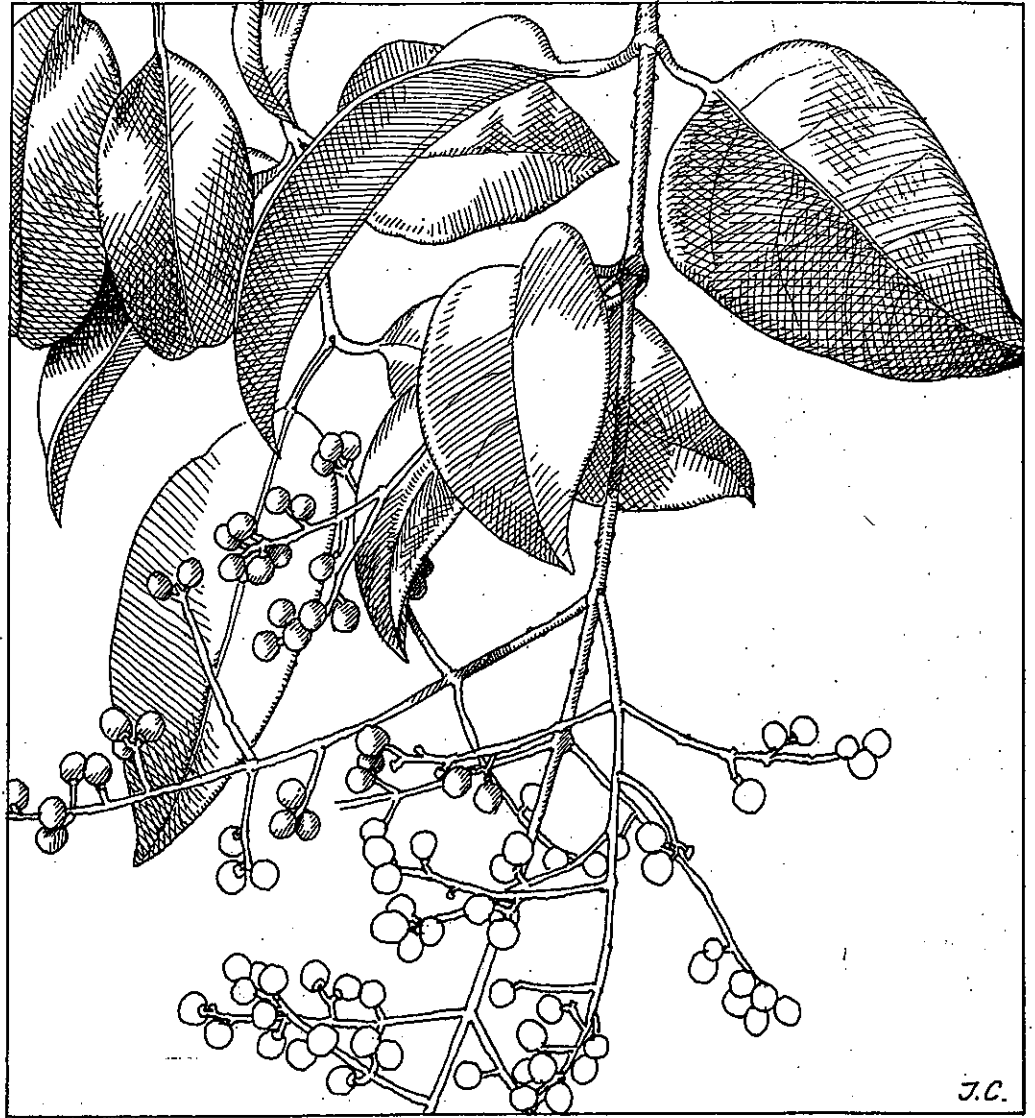
غار، رندا

height 6m, spread 4m

Evergreen, bushy tree or shrub, often multistemmed. Dark green, leathery, glossy, aromatic leaves ab. 8cm long, sometimes used for cooking. Small, inconspicuous, yellowish flowers are followed by dark purple, 1cm long berries. Slow growth, not particular about soils, drought resistant, wind resistant, grows best in filtered shade but tolerates full sun. Mediterranean species, well adapted to semi-arid climate.

Use: Formal looking plant, can be clipped to required shape, classic formal container plant. Good for dark, dense background and for windbreaks.





Ligustrum lucidum
Glossy Privet

لجسترم



height 10m, spread 8m
Evergreen tree with a round-headed crown and glossy, leathery leaves, medium green on both sides, ab. 10cm long, pointed. Large clusters of white flowers followed by blackish fruits. Can be kept low by pruning. Fast growing, full sun or partial shade, drought resistant but looks richer with some watering. Use: Grown for rich, attractive foliage; good street tree, for wind breaks, screens and clipped for hedges.



Magnolia grandiflora
Magnolia

مجنوليا

height 15m, spread 5m
Evergreen tree with beautiful foliage of 10-15cm long, deep green, leathery leaves. Outstanding, large, fragrant, white flowers with fleshy petals, 15cm across. Prefers rich soils, full sun to partial shade, warm climate, needs some watering. Does not tolerate wind, needs protection.
Use: Spectacular solitary specimen tree on lawn.





Quercus calliprinos
Palestinian Live Oak

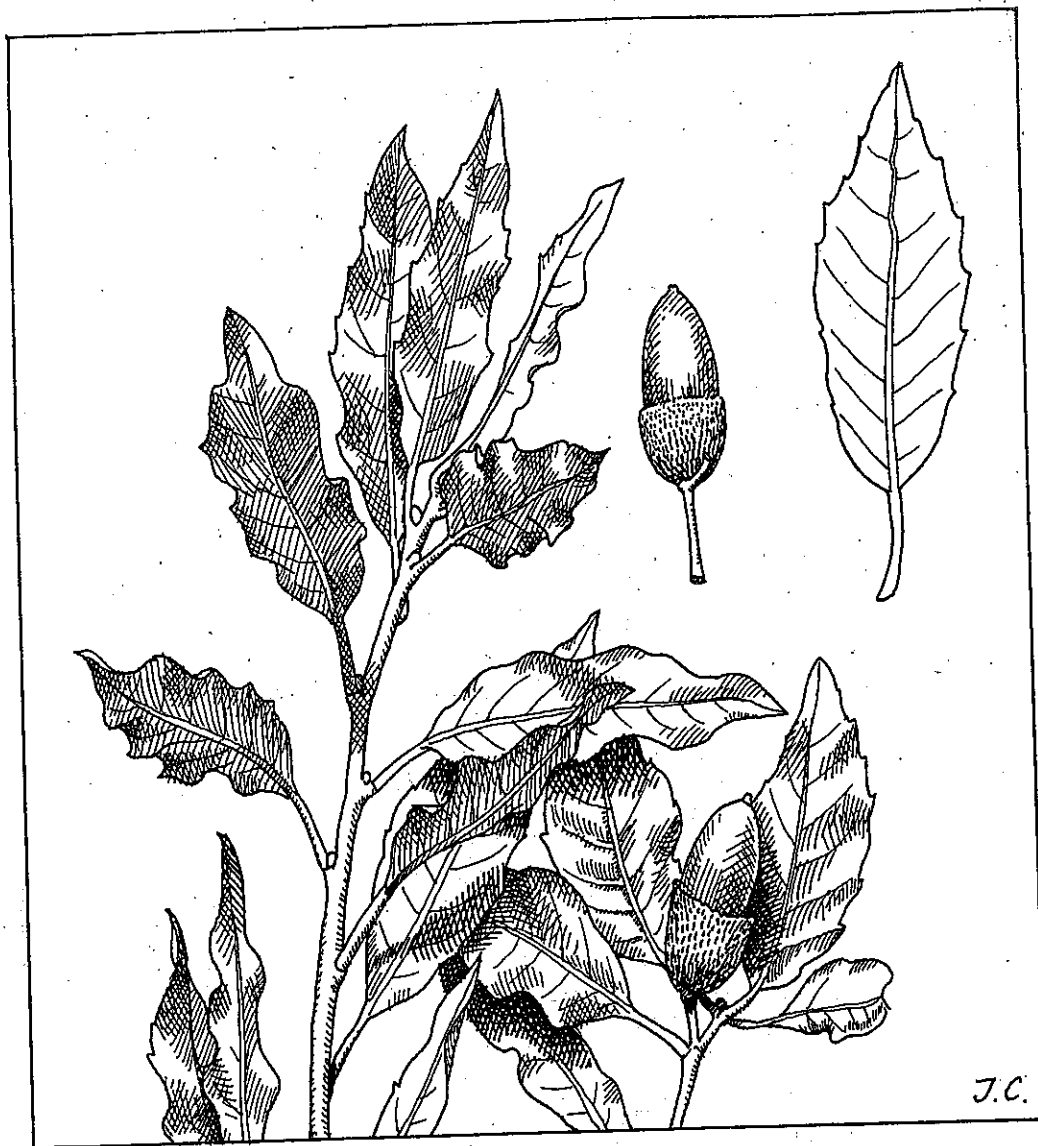
بلوط

height 6m, spread 6m

Evergreen tree or shrub with semiglobular, dense crown of dark green, spiny leaves, 2-4cm long. Native to hilly regions of the eastern Mediterranean, typical tree of the red soil areas /terra rossa/. Tolerates drought, winds and is resistant to goat and sheep grazing. Very slow growth, stays in the shrubby stage for years before becoming a tree.

Use: Worth keeping when existing on site, as a tree useful for shade, solitary or in small groups, as a shrub good for hedges, at fences, creates unpenetrable thickets. Fruits litter.





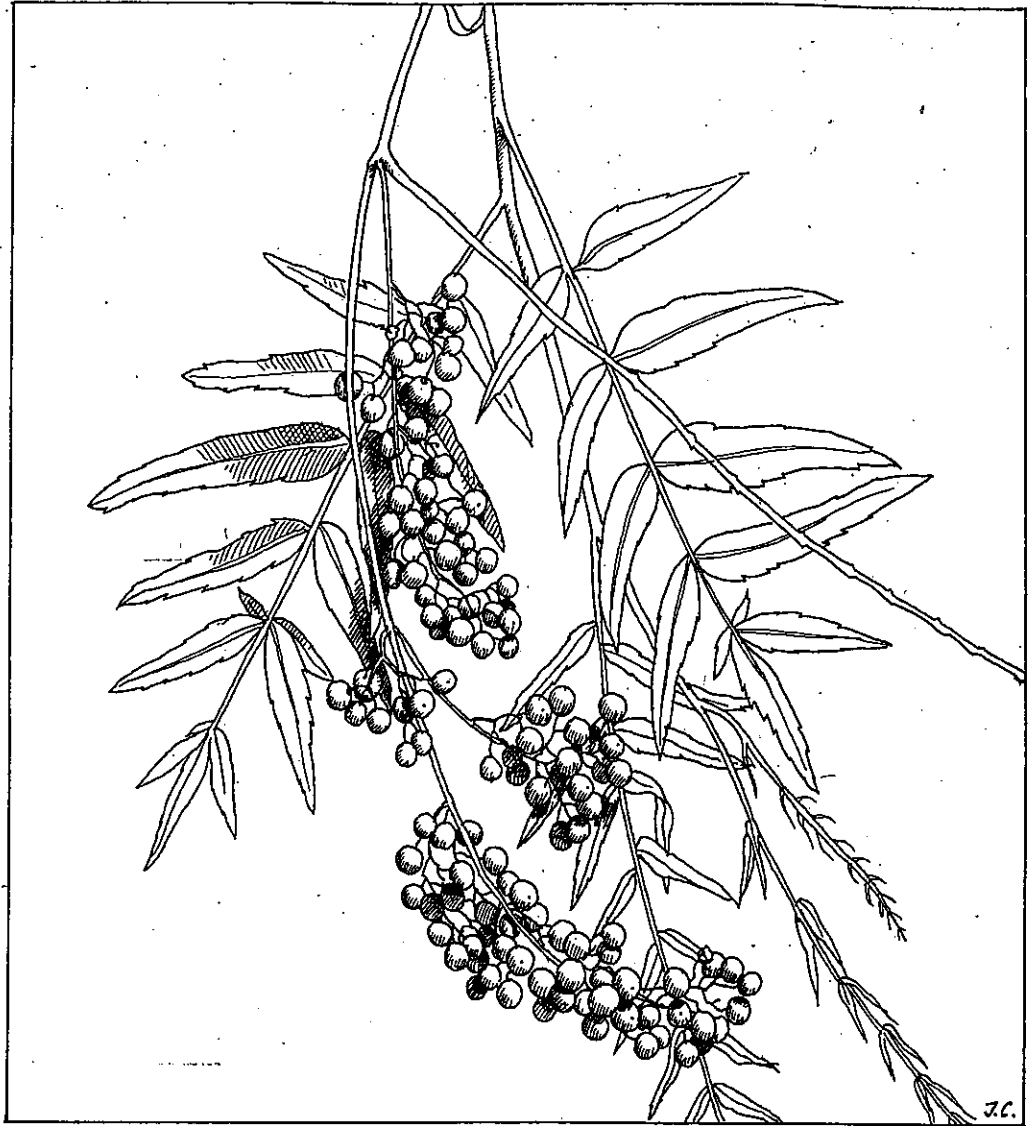
Quercus ilex
Holly Oak

بلوط

height 15m, spread 10m
 Evergreen tree with broad, oval, dense crown of elongated, leathery leaves, sometimes with spiny margins, ab. 10cm long, rich green above, silvery beneath. Small fruit /ab. 3cm long/ half covered by the shell made of greyish scales. Moderate growth, tolerates drought and wind, well adapted to Mediterranean climate.

Use: Good evergreen street or lawn tree, good shade.





Schinus molle
Pepper Tree

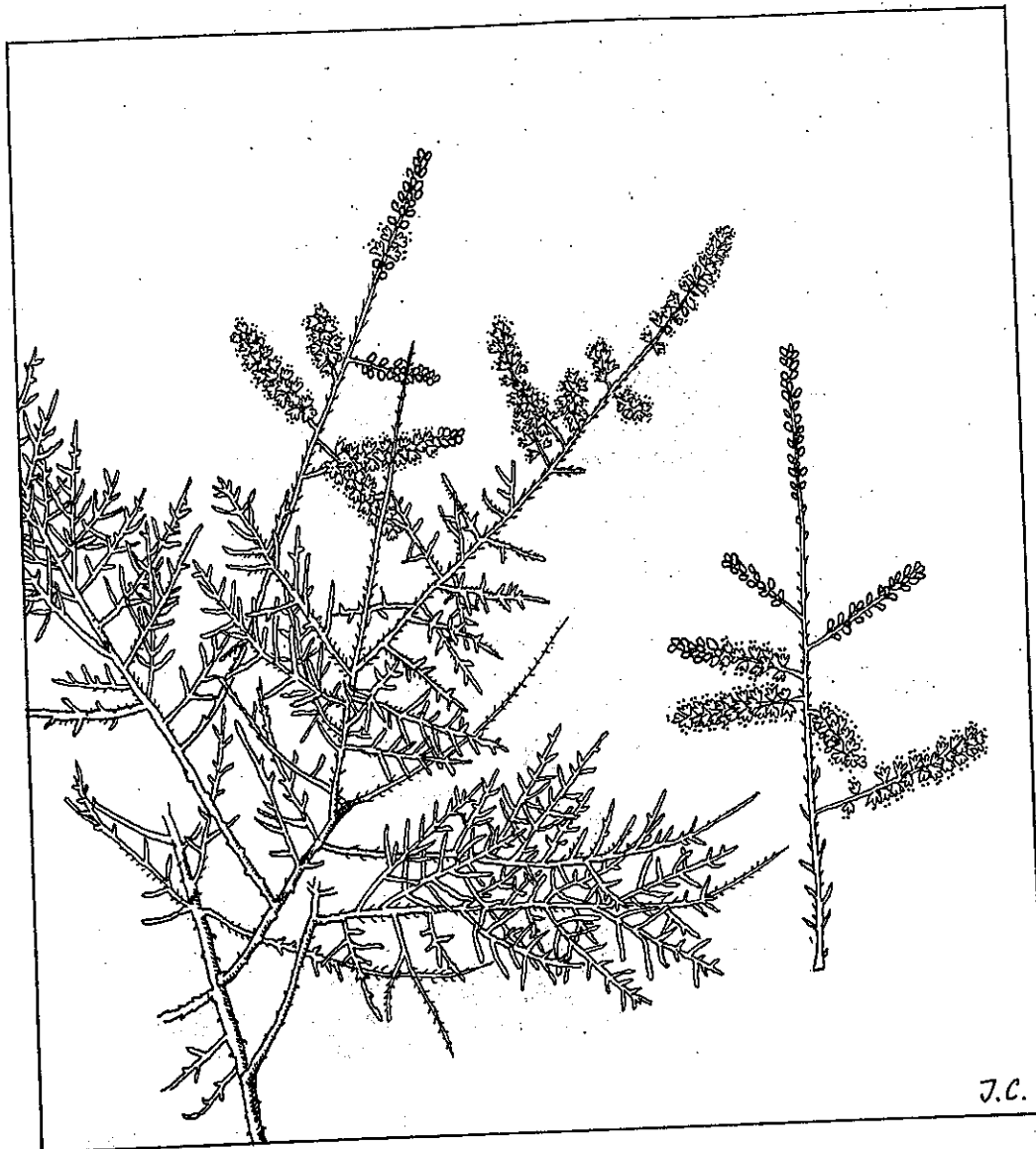
فلفل



height 8m, spread 8m

Evergreen tree with a loose crown of pendulous branches. Bright green leaves divided into many narrow, ab. 5cm long leaflets with toothed margin, strongly smelling when rubbed. Conspicuous clusters of small, rose-red fruits resembling Black Pepper. Moderate growth, very drought tolerant, wind resistant, takes heat, full sun and poor soils. Agressive roots may affect pavements or house foundations.

Use: Along roads in rural areas, filtered shade, attractive specimen tree with characteristic foliage, wind breaks. Not for paved areas.



Tamarix chinensis
Chinese Tamarisk

طرفاء

height 6m, spread 5m
 Evergreen tree with a bushy growth and greenish, feathery branches. Minute, scale-like leaves are bluish green. Delicate white to pink flowers in long clusters. Fast growing, tolerates saline soils, extremely drought and wind resistant. Roots are invasive.

Use: Good specimen tree in extreme conditions, delicate screen effect, wind brake. Avoid planting near sewer lines and pavements, invasive roots. Stains pavements and cars.

Native species *Tamarix palaestina* is even more resistant to extremely saline soils.



DECIDUOUS TREES



Acacia farnesiana
Sweet Acacia.

اكاشيا

height 5m, spread 5m

Semi-deciduous tree with small, feathery and finely divided leaves and zigzag-growing, thorny branches. Deep yellow, single balls appear in January and are followed by dark, rather thick, ab. 6cm long pods. Medium growth, extremely drought resistant, tolerates poor soils and strong winds, well adapted to desert conditions. Bushy growth when leading shoots removed.

Use: Dense, protective hedges in arid conditions.





Acer pseudoplatanus
Sycamore Maple

السنور



height 25m, spread 10m

Deciduous tree with spreading branches and regular crown, in its natural habitat /mountain forests/ reaching as high as 40m. 5-lobed leaves with toothed margin are darker green above and paler beneath, young leaves are reddish in colour. Fruits consist of two seeds with wings set at right angles. Moderate growth, long lived species, not particular about soil, suspect to sun burns in hot areas, needs some watering before well established. Hardy, pollution-resistant species.

Use: Along streets and sidewalks, gives good shade.



Aesculus hippocastanum
Horse Chestnut

اسکنوس

height 15m, spread 10m

Deciduous tree with dense foliage of large leaves consisting of 5-7 leaflets arranged like a fan, up to 30cm long. In spring vertical clusters of ivory flowers with pink spots, in autumn glossy, brown fruits with a white spot contained in spiny, greenish skin. Has invasive roots which may brake pavements. Needs average soil and some water in summer, in hot regions does not develop fully. Tolerates frost and wind.

Use: One of the best shade trees, good as solitary specimen tree, also along roads, forms impressive alleys.





Ailanthus altissima
Tree of Heaven

ايلنثس

height 20m, spread 10m

Elegant deciduous tree with erect trunk, nicely spreading branches and smooth, greyish bark. Leaves are 30-90cm long, divided into 13-15 leaflets 6-10cm long, disagreeably smelling when rubbed. Reddish fruits have twisted wings. Very fast growing in any soil, drought resistant, tolerates hot sun, strong winds and air pollution.

Use: As specimen tree for vertical accent, providing good shade. Can become weedy through suckers and self-seeding.



Albizzia julibrissin
Silk Tree

البيزيا

height 8m, spread 10m
Graceful, deciduous tree with a unique, flat-topped crown, short trunk and pendulous, horizontally spreading branches. Smooth bark, compound, light green, feathery leaves with 40-60 leaflets on each of the secondary stalks. Flowers are delicate, deep pink, pincushion-like fluffs. Medium rate growth, fairly hardy, withstands short frosts, prefers well drained soils, drought resistant and tolerating pollution. Best in full sun.
Use: Good canopy on lawns, filtered shade permits growth underneath. Nice specimen tree for flower effect, pleasant when viewed from above.





Bauhinia variegata
Orchid Tree

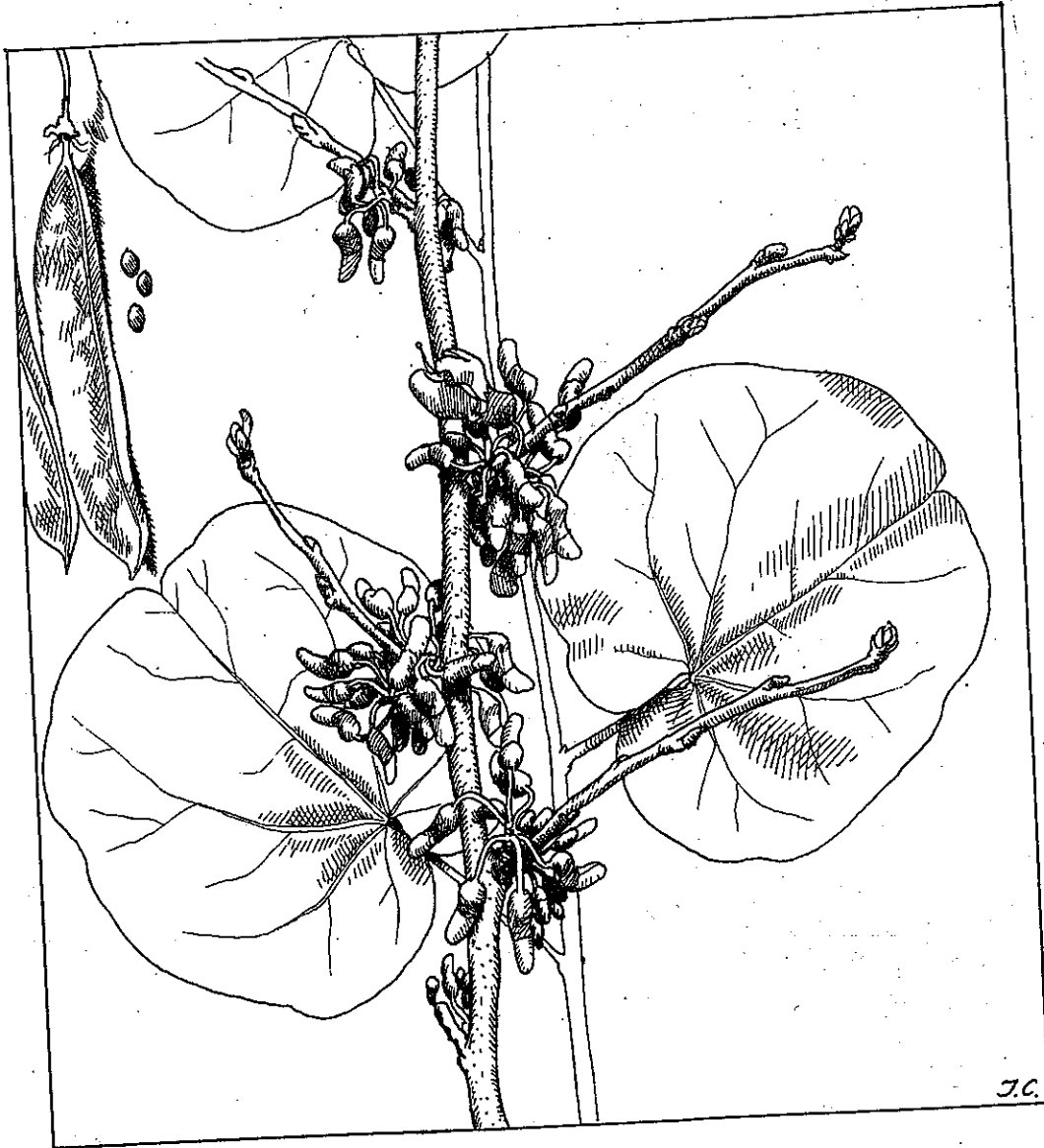
خف الجمل

height 4m, spread 6m

Deciduous, ornamental tree, planted for its beautiful, orchid-like flowers. Erect, multistemmed trunk with grey bark. Broad, light green, twin-lobed leaves. Flowers have 5 pink, club-shaped petals. One of them is larger than others and variegated in yellow and white. Masses of flowers come before leaves in January-April. Produces 50cm long pods which make the tree messy looking later in the season. Medium growth, alkaline, well drained soil, full sun. Needs moderate watering, mild winters. Wind resistant.

Use: Spectacular flowering specimen tree, along streets, in patios.



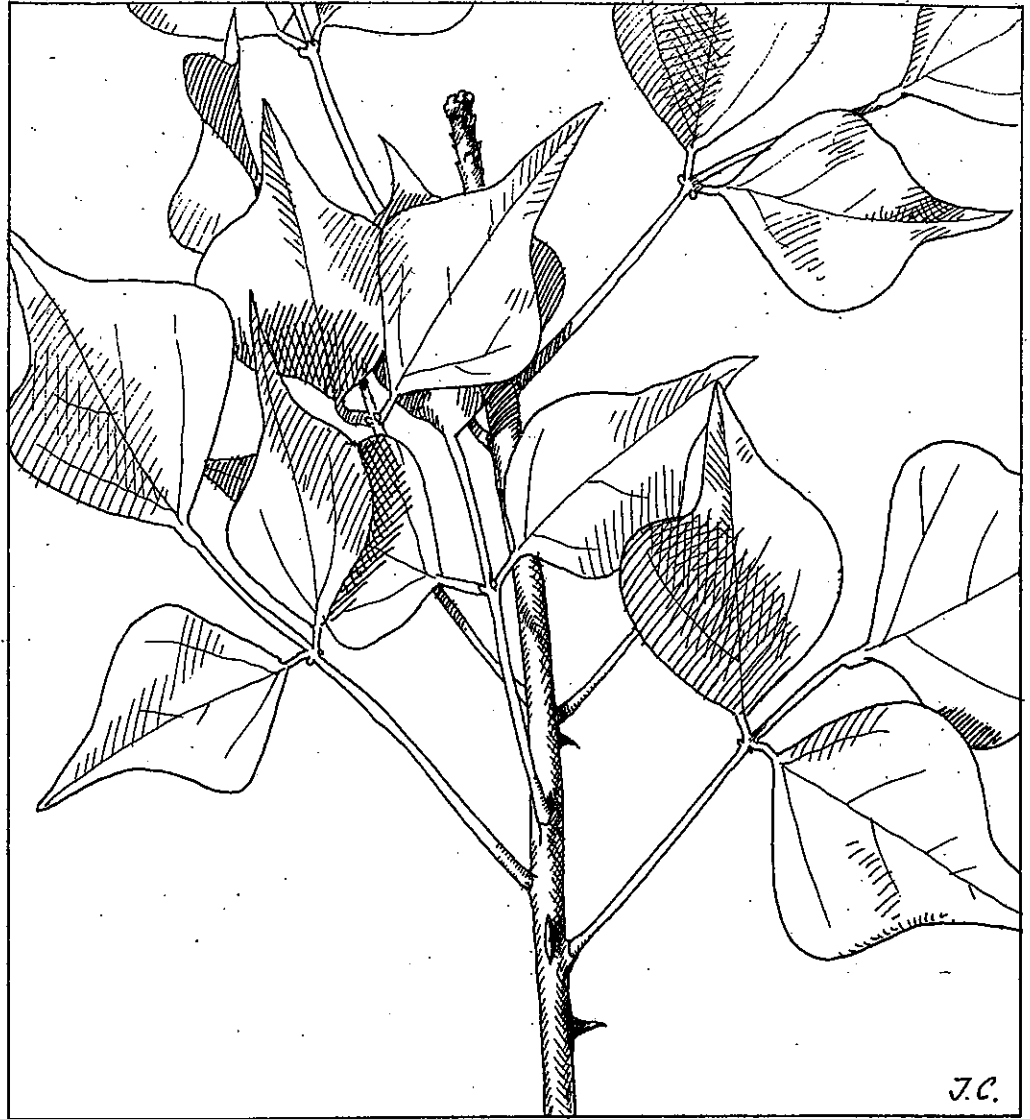


Cercis siliquastrum
Redbud, Judas Tree

سرسین

height 8m, spread 6m
 Small, deciduous, ornamental tree with blackish bark and zigzag twigs. Round leaves are heart-shaped at base, darker above, bluish beneath, ab. 8cm across. Masses of purplish-red flowers appearing directly on the branches before the leaves. Followed by clusters of brownish pods. Fast growth, average soils, full sun, fairly drought resistant. Mediterranean species well adapted to semi-arid conditions. Tolerant to pollution, does not resist long frosts.
 Use: Attractive specimen tree when in full bloom, becoming rather shabby later. Patio, entrance, solitary or in groups for colour accent in spring.





Erythrina caffra
Coral Tree

اريشينا



height 10m, spread 10m

Deciduous tree with thorny branches and characteristic leaves with three leaflets, ending in narrowed, pointed "beaks". Bare branches bear clusters of red, tubular flowers. Semi-tropical, full sun, needs watering during dry season, not particular about soil.

Use: Good specimen tree with attractive flowers, pleasant shade in summer.



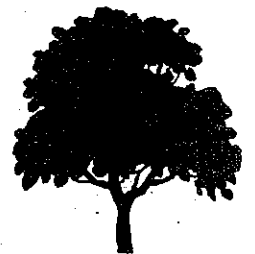
Delonix regia
Royal Poinciana, Flamboyant

ديلونكس

height 9m, spread 12m

One of the most ornamental, deciduous trees with horizontally spreading branches, knotty trunk and greyish-brown bark. Feathery leaves are composed of large number of bipinnate, tiny leaflets. Conspicuous, red flowers with 5 petals, one of them with white and yellow streaks. Fruits are long, red-brown pods. Grows fast in most soils, prefers hot sun and humidity, does not tolerate frost. Tropical species.

Use: Extremely ornamental specimen tree giving good shade. Striking in full bloom. Impressive also in groups.





Jacaranda acutifolia
Jacaranda

جكارندا

height 10m, spread 6m

Deciduous to semi-evergreen tree with open crown. Fern-like, compound leaves have ab. 10-16 secondary stalks, each bearing ab. 20 pairs of pointed, minute leaflets. Showy, blue to lavender flowers appear in pyramidal clusters, individual flower tubular, ab. 5cm long. Fruits roundish, fleshy capsules, ab. 8cm across. Medium growth, prefers mild climate, does not tolerate frosts before established, needs some irrigation. Not particular about soil. Older trees fairly hardy.

Use: Spectacular, flowering specimen tree, nice to view against sky, good on lawn.





Melia azedarach
China-Berry

زفرلخت

height 12m, spread 10m

Deciduous, spreading tree with fragile branches. Compound leaves consisting of many toothed, ab. 3cm long leaflets, arranged on secondary stalks. Lilac-coloured flowers with five petals and dark purple tube in the centre appearing in loose clusters. Fruits are yellow berries, ab. 1cm across, poisonous. Not particular about soil, drought tolerant, full sun, branches may break in strong wind. Fruits litter and leave stains on pavements.

Use: Pleasant, filtered shade, nice flower effect, good specimen. Dropping fruits are messy and poisonous, avoid playgrounds.





Parkinsonia aculeata
Jerusalem Thorn

برکنسونیا

height 6m, spread 6m

Deciduous tree with open crown of thorny, green twigs. Short trunk with low branches. Sparse foliage of narrow leaves with numerous, tiny leaflets. Loose clusters of yellow flowers in spring. Very fast growth, extremely drought tolerant, full sun, withstands some salinity. Needs well drained soil to avoid root rot. Mediterranean species well adapted to semi-arid conditions.

Use: Specimen tree, in groups for transparent screens, gives light, filtered shade.



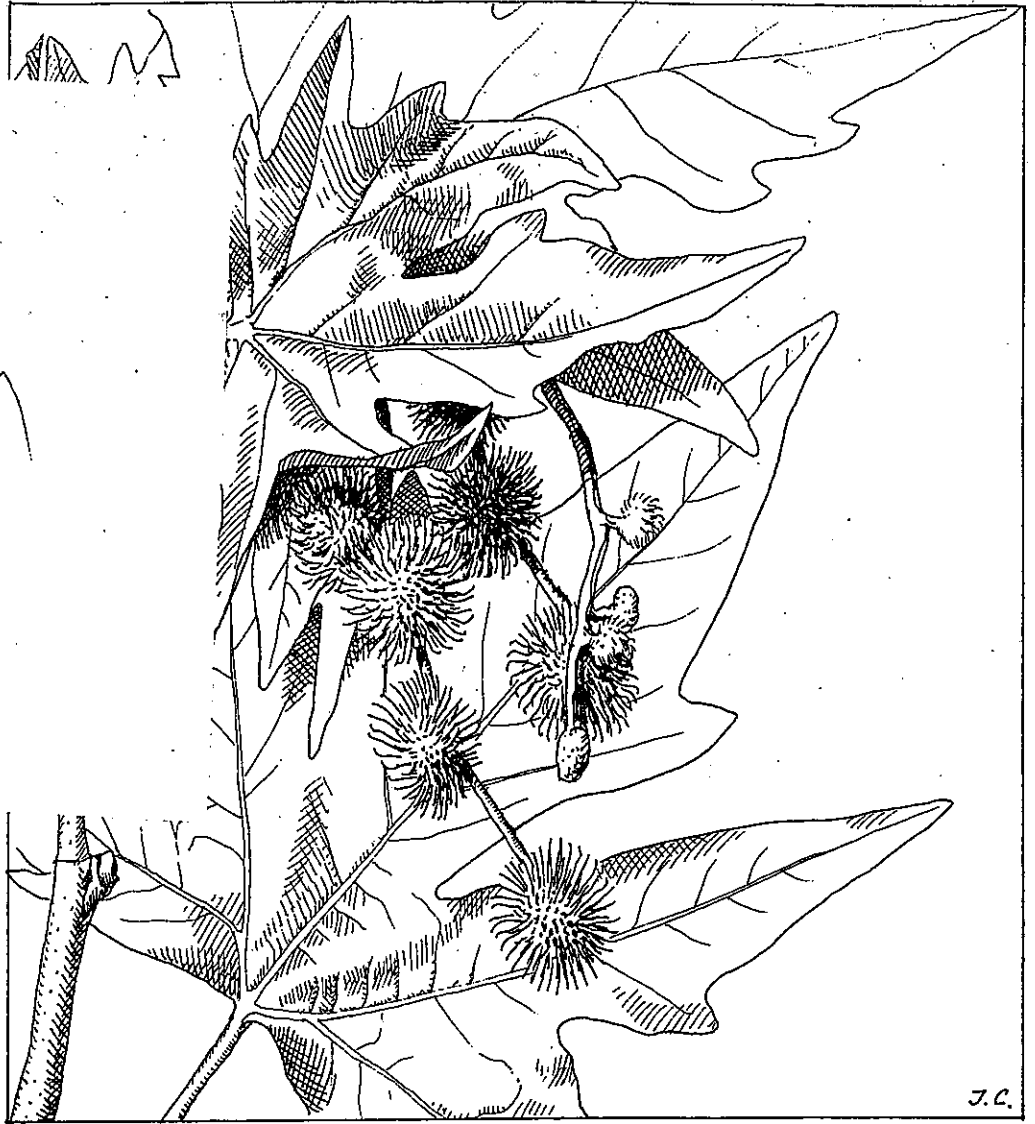


Pistacia atlantica
Wild Pistachio

بطم

height 4-15m, spread 4-10m
 Deciduous tree with a nice, rounded crown, varying in height according to soil and climatic conditions. Oblong leaves are 3 to 5 paired, fruits resemble the true pistachio but are smaller. Native to Western Asia, well adapted to arid climate, survives in steppes and semi-deserts. Tolerates drought, heat, some frost, poor soils and strong winds.
 Use: Good specimen tree with nicely shaped crown for poor soils and dry areas.





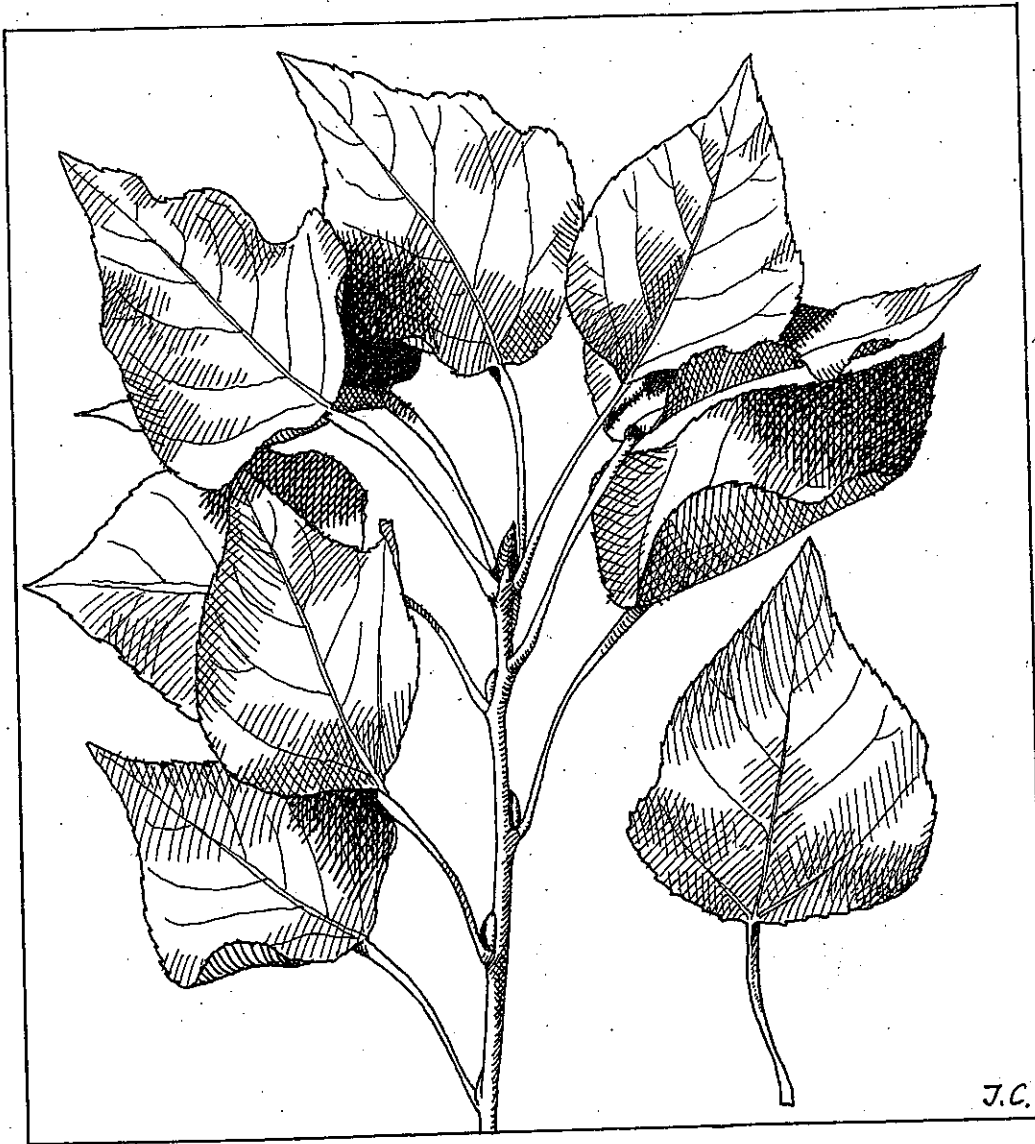
Platanus orientalis
Sycamore, Oriental Plane

شمار

height 25m, spread 12m

Large, deciduous tree with smooth, creamy bark that sheds in patches revealing pale new bark below. Maple-like leaves deeply lobed, ab. 20cm wide. Characteristic, bushy, spherical fruits hanging in small clusters, ab. 2cm across. Tolerates most soils, prefers summer watering, old trees fairly drought resistant. Tolerates traffic pollution.

Use: Parks, formal avenues, excellent shade canopy when planted in groups. Good for shading outdoor cafés and restaurants.



Populus nigra italica
Lombardy poplar

حور

height 20m, spread 4m
 Deciduous, columnar tree with upward reaching branches clinging to erect trunk. Rhomboid, light green leaves on flattened stalks causing quaking effect. Stalks tinged with pink. Rapid growth, drought tolerant where roots can reach deep underground water, full sun, tolerates poor soils, wind resistant. Invasive roots may disturb sewer lines or septic tanks, not for city streets.
 Use: Specimen tree with characteristic, columnar skyline, suitable for country places, low maintenance. In rows for country driveways and as windbreak.





Robinia pseudoacacia
Black Locust

روبينيا



height 20m, spread 10m

Deciduous tree with open crown and erect trunk with dark, furrowed bark and thorny branches. Leaves with 7-20 oval leaflets, ab. 25cm long, folding at night. Pendulous clusters of fragrant, white, pea-shaped flowers in early summer, followed by dark pods containing 4-10 seeds. Fast growth, drought tolerant, not particular about soil, very hardy. Aggressive roots. Dense, round-headed varieties also available /"umbraculifera"/.



Salix babylonica
Weeping Willow

صفصاف

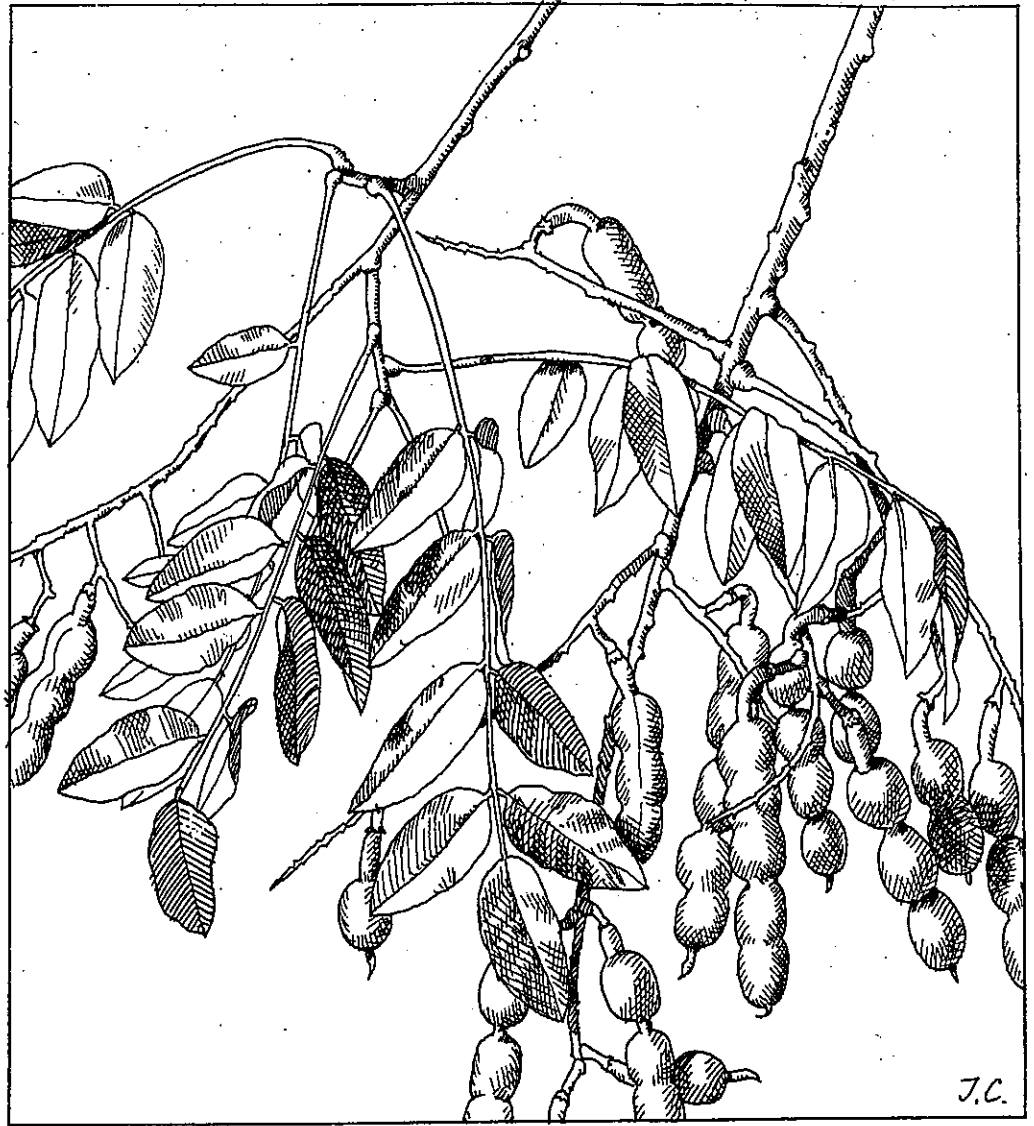
height 15m, spread 15m

Deciduous tree with weeping habit, heavy, rugged trunk and pendulous, green young branches drooping to the ground, narrow leaves with terminal point, ab. 10cm long. Fast growth, prefers humid soils, best on river banks, otherwise some watering needed.

Use: Specimen tree with distinctive, weeping shape, best next to reflective water body.

60





Sophora japonica
Japanese Pagoda Tree

صوفورا



height 7m, spread 6m

Deciduous tree with spreading branches and dark green, compound leaves, resembling Black Locust. Young branches smooth, dark green, old wood rugged. Yellowish-white, pea-shaped flowers in long, open clusters, followed by ab. 6cm long pods, narrowed between the seeds like beads. Moderate growth, not particular about soil, drought and wind resistant, full sun.

Use: Good street tree giving nice shade, also on lawn or shading a patio.



Terminalia catappa
Myrobalan

لوز هندي

height 18m, spread 12m
Deciduous, tropical tree with large, ovate, blunt-tipped leaves with prominent veins on underside, up to 30cm long. Inconspicuous, whitish flowers are followed by almond shaped fruits. Needs heat and moist soil, native to wet, tropical forests.

Use: Specimen tree with spectacular, large leaves. Needs humidity.





Zizyphus spina christi
Jujuba

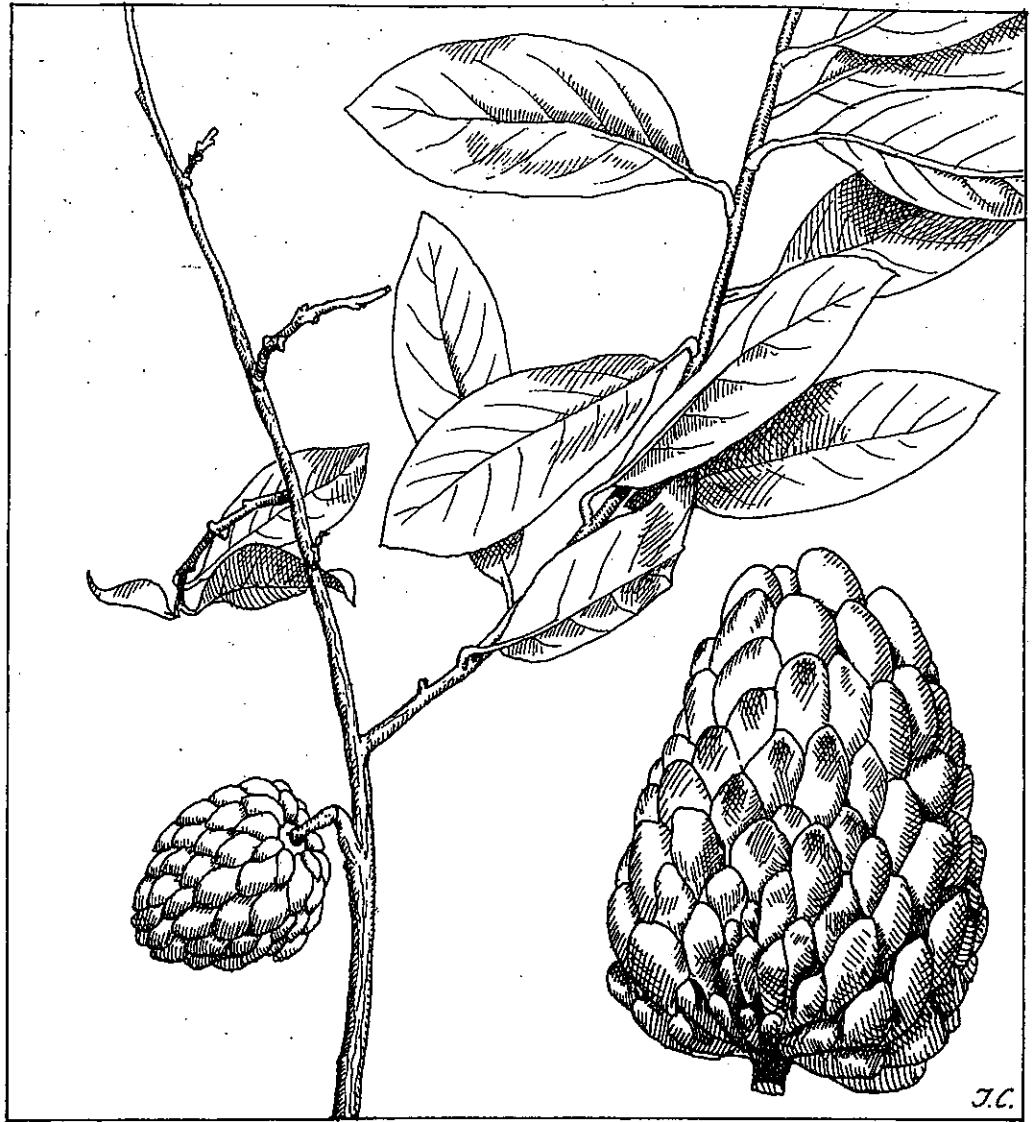
زیزفون، نبق



height 8m, spread 6m

Evergreen tree with oval crown and greyish-white, spreading and thorny branches. Leaves 3-veined, round, light green, ab. 4cm long. Inconspicuous flowers are followed by round, yellowish, edible fruit, ab. 1,5cm across. Very drought resistant, adapted to desert conditions, prefers full sun and hot climate. Use: For unpenetrable screens, along fences, also solitary specimen in extreme conditions.

FRUIT TREES



Annona cherimola
Chirimoya

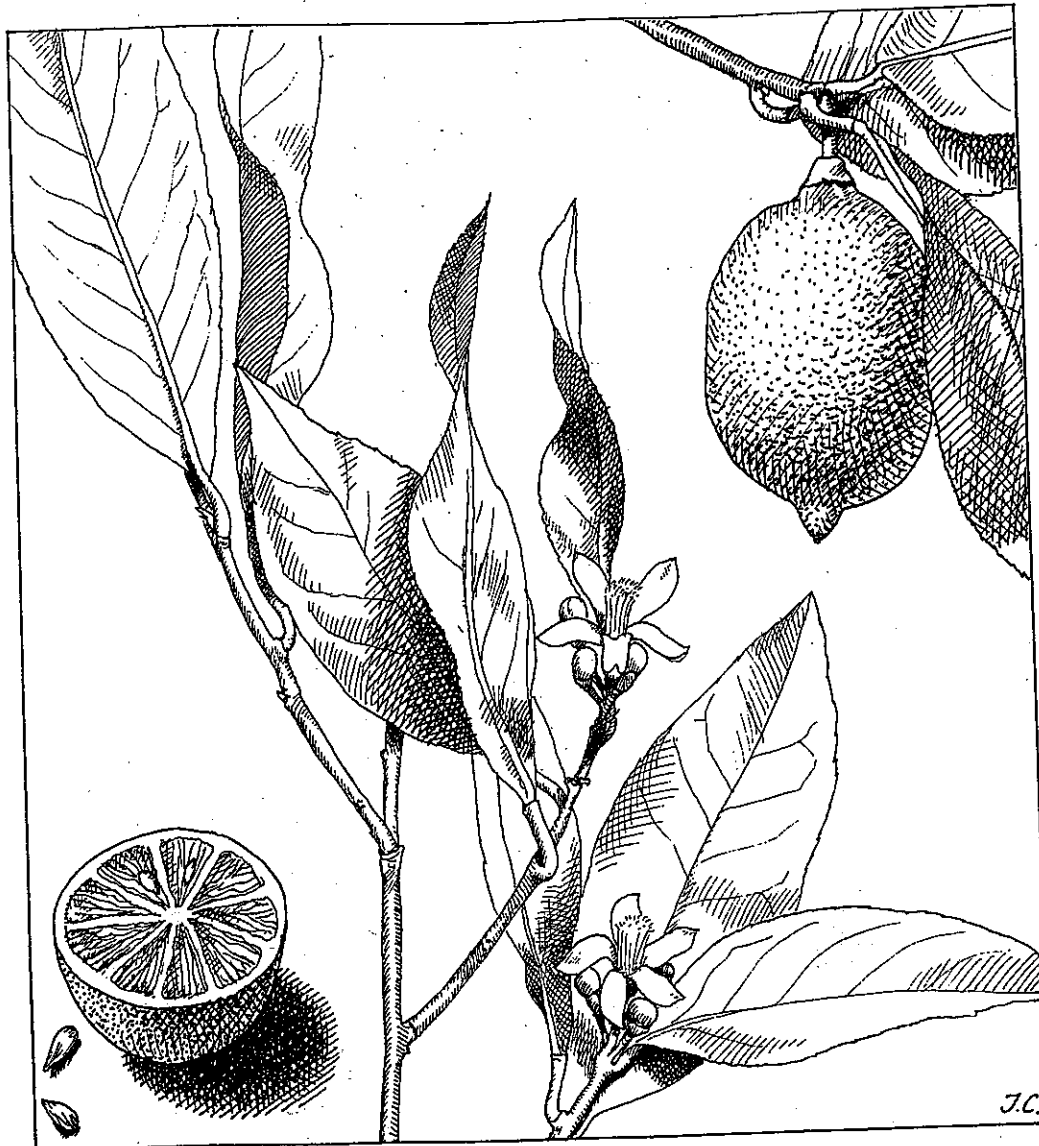
قشطة



height 5m, spread 4m

Small, semi-deciduous tree, sometimes of a shrubby habit. Leaves are dull green above, velvety beneath, ab. 8cm long, pointed. The flowers are inconspicuous but heavily scented. Large, green fruits with overlapping scales contain large black seeds and are edible. The flesh is white and very soft. Requires warm climate and rich soil, is not frost resistant.

Use: Crop tree grown for its edible fruit.

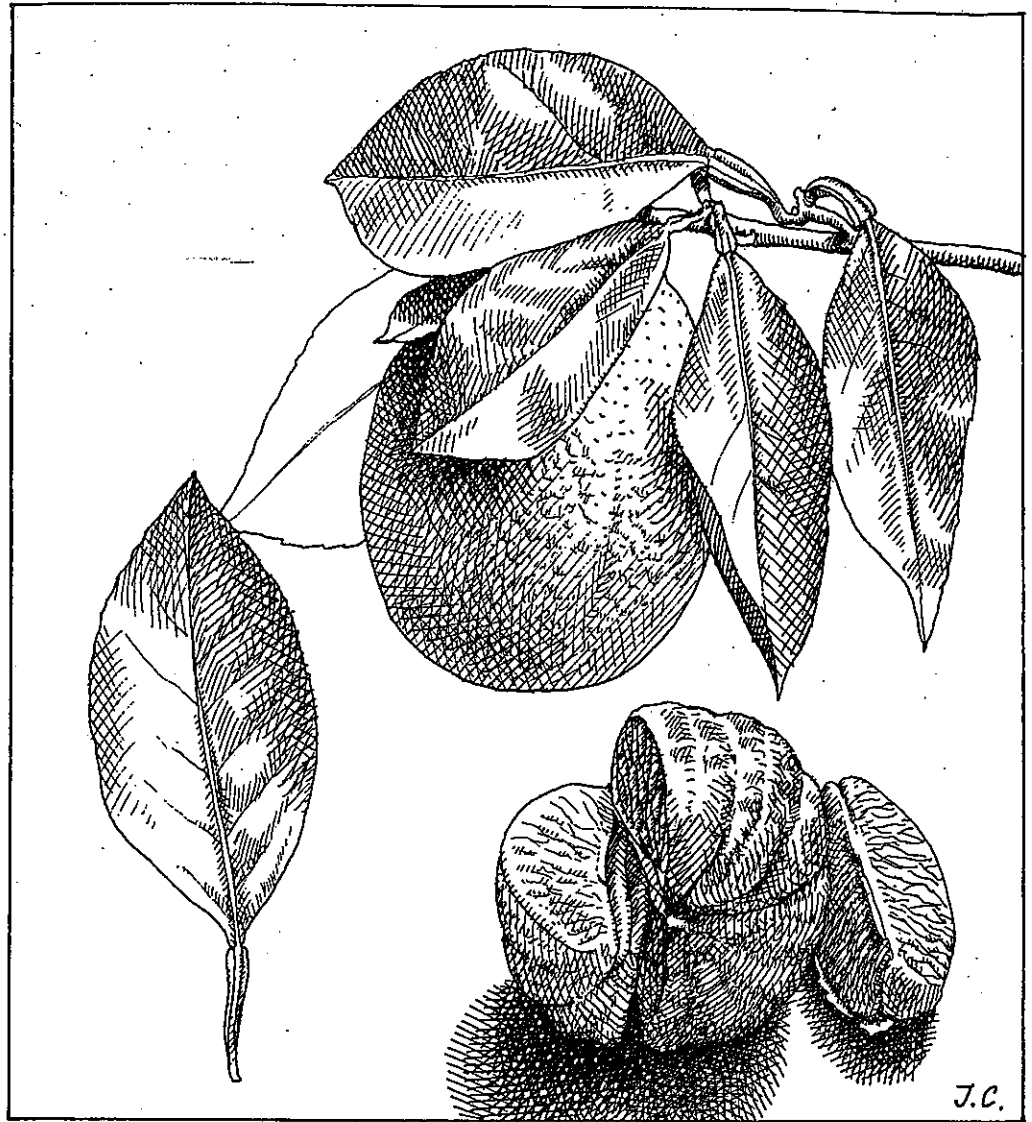


Citrus limon
Lemon

ليمون

height 5m, spread 4m
Small, evergreen tree with an open crown and thorns on the branches, highly valued for its fruit. Leathery, bright green leaves are pointed, ab. 12cm long. Highly scented flowers are white inside, streaked with pink outside. The juicy flesh of the fruit has high vitamin C content. Needs moderate to hot climate, well drained soil, some watering and wind protection.
Use: Crop tree, as landscaping tree good specimen with attractive foliage and flowers. Can be grown in containers as indoor-outdoor plant.





Citrus sinensis
Sweet Orange

برتقال

height 6m, spread 5m

Evergreen tree with a dense, rounded crown, grown for its valuable fruits. Deep green leaves are fragrant when crushed, 2-15cm long, with winged stalks. Fragrant, white flowers ab. 2cm across. Prefers well drained, fertile soil, higher temperatures for best flavour. Needs some watering, is more cold resistant than Lemon.

Use: Crop tree, also attractive specimen tree with regular crown, dense foliage and fragrant flowers.

Similar species: Citrus nobilis /Tangerine/, Citrus paradisi /Grapefruit/, Citrus maxima /Pomelo/, Citrus aurantifolia /Lime/.





Eriobotrya japonica
Loquat

اسكادينيا

height 6m, spread 6m

Evergreen tree with dense crown of leathery, large, veined, sharply toothed leaves, wooly underneath, up to 25cm long. New branches wooly. Small, white flowers in clusters, followed by edible fruits, yellow to orange in colour, with large, brown seeds. Slow to medium growth, drought resistant when established, grows better with some moisture. Full sun or shade.

Use: Ornamental tree with attractive foliage, good as lawn tree, frequently planted for its edible, acid fruits.

68





Ficus carica
Edible Fig

تين



height 8m, spread 8m

Deciduous fruit tree with spreading crown. Leaves rough textured, with 3 to 5 lobes, up to 20cm in diameter. Relatively fast growing, wide-spread in the Mediterranean area. Not particular about soil, prefers sun and good drainage. In poorer conditions bushy growth. Drought resistant when established. Gives good shade.

Use: Apart from its use as a crop tree quite decorative specimen tree for patios or at walls. Fruits drop on paving /litter/.



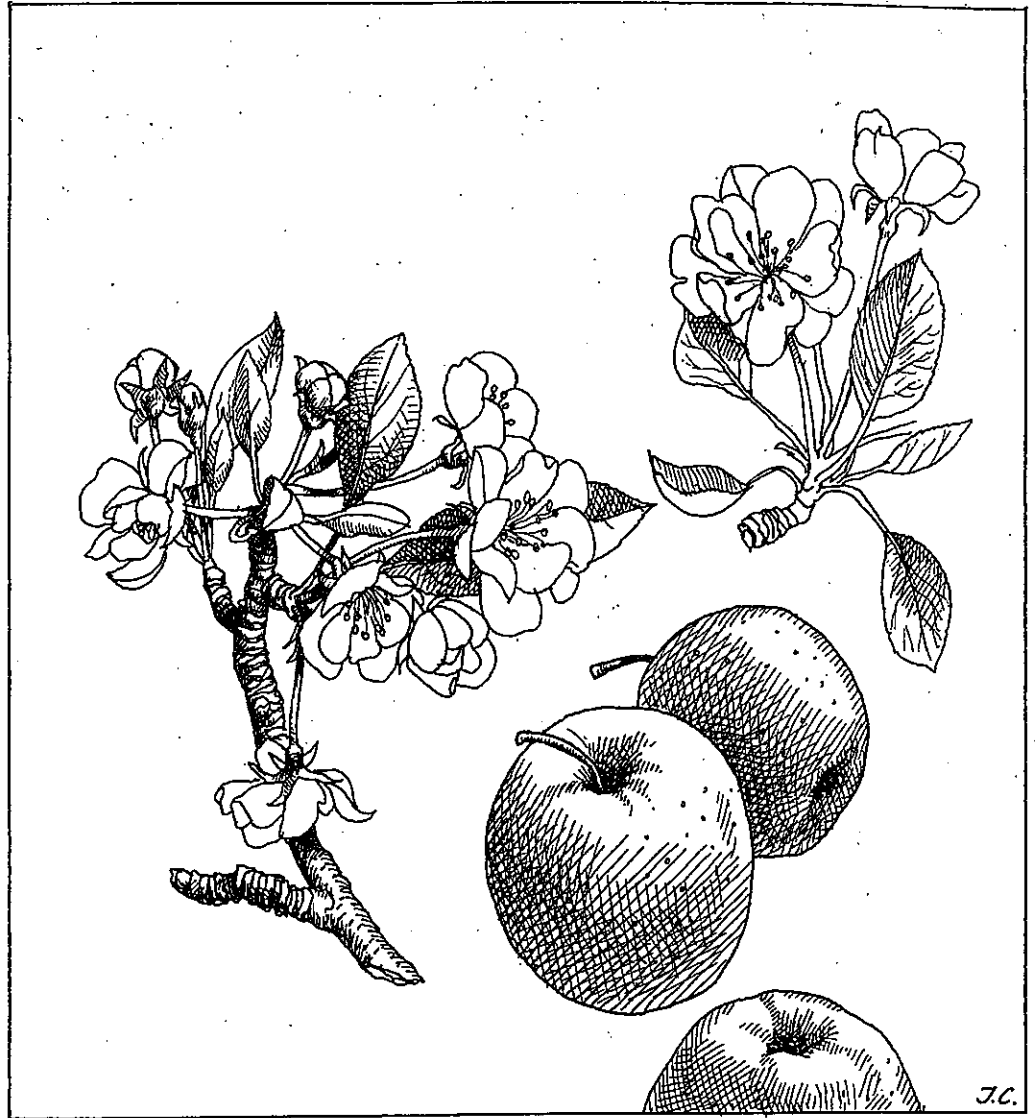
Juglans regia
Walnut

جوز

height 20m, spread 20m
Deciduous tree with spreading, horizontal branches, round crown and smooth, grey bark. Large, compound leaves with 5-7 leaflets. Grown for its oval fruits in fleshy husks, containing edible nuts. Fast growth, initially deep watering needed, when established fairly drought resistant.
Use: Crop tree, providing also pleasant shade, rather messy when fruits ripen, stays long periods without leaves.

70





Malus sylvestris
Apple

تفاح



height 8m, spread 7m

Deciduous tree with a rounded crown and somewhat leathery leaves with toothed margin. White to pink flowers appear with the leaves in early spring. The tree is grown for its edible fruit, crop varieties are usually grafted on more resistant stock. Prefers a deep, fertile, moist and well drained soil. To produce fruit, at least two varieties which bloom at the same time should be planted. Use: Crop tree, also good for shadow, pleasant in spring in full bloom.



Morus nigra
Black Mulberry

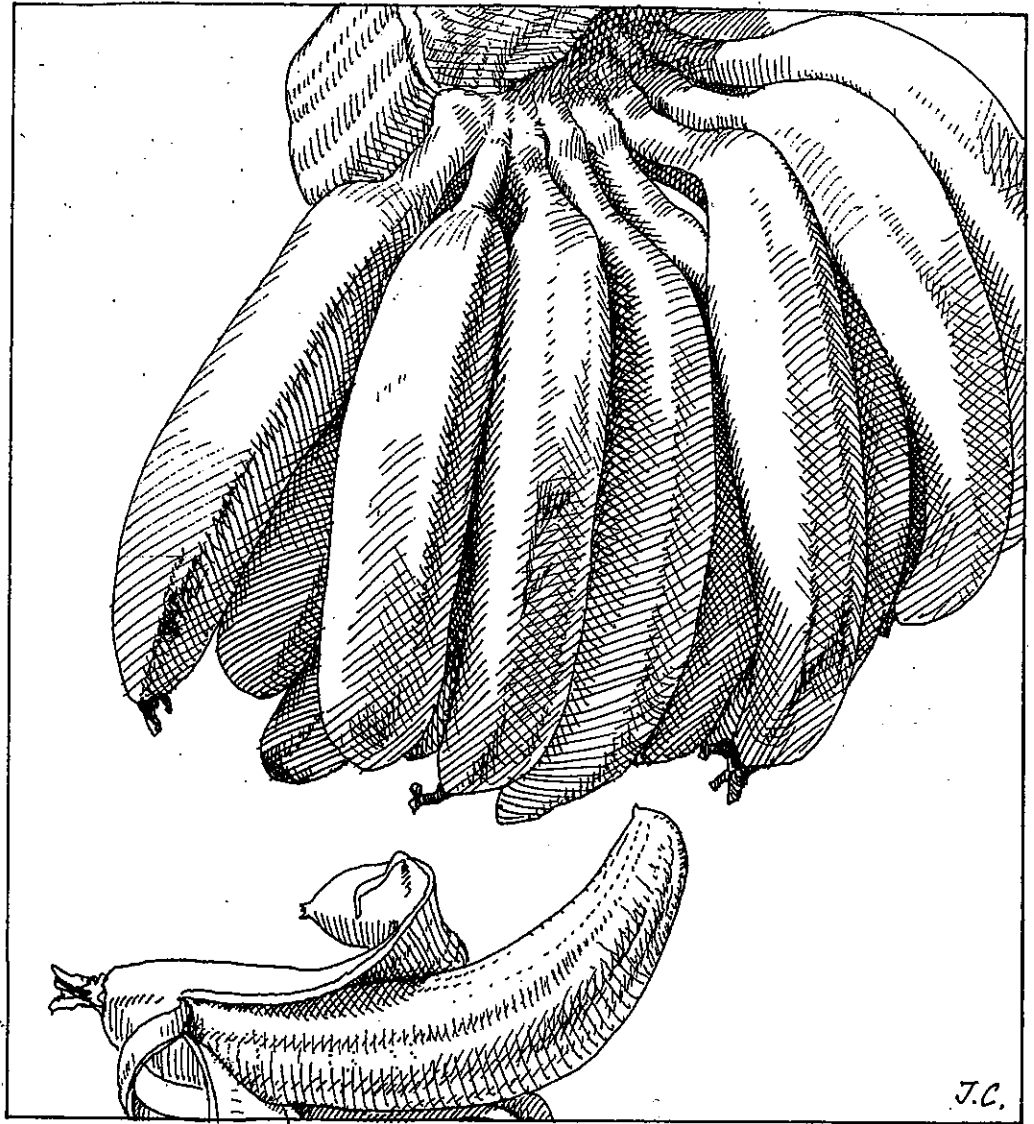
توت

height 15m, spread 15m

Deciduous tree, usually planted for its berries. Dense, broad crown of rich, dark green foliage, twisted branches, short trunk. Heart-shaped leaves with toothed margin, darker green above, paler and hairy beneath. Flowers are catkins, followed by raspberry-like, blackish-red, juicy, sweet, edible fruits. Widespread in the Mediterranean region, fast growing, drought resistant, prefers full sun and alkaline soils. Grows faster with watering.

Use: Excellent shade tree, rather messy when ripe fruits drop down. Edible fruits are attraction for children.





Musa paradisiaca
Banana Tree

موز



height 3m, spread 3m
Evergreen, palm-like, tropical tree with spectacular, long leaves, often tattered by strong winds. Long, edible fruits in hanging clusters. Fast growing, requires rich soil, full sun, enough of water and wind protection.
Use: Crop tree, also used as decorative specimen tree for its exotic leaves, good near swimming pools or on lawns.



Olea europaea
Olive

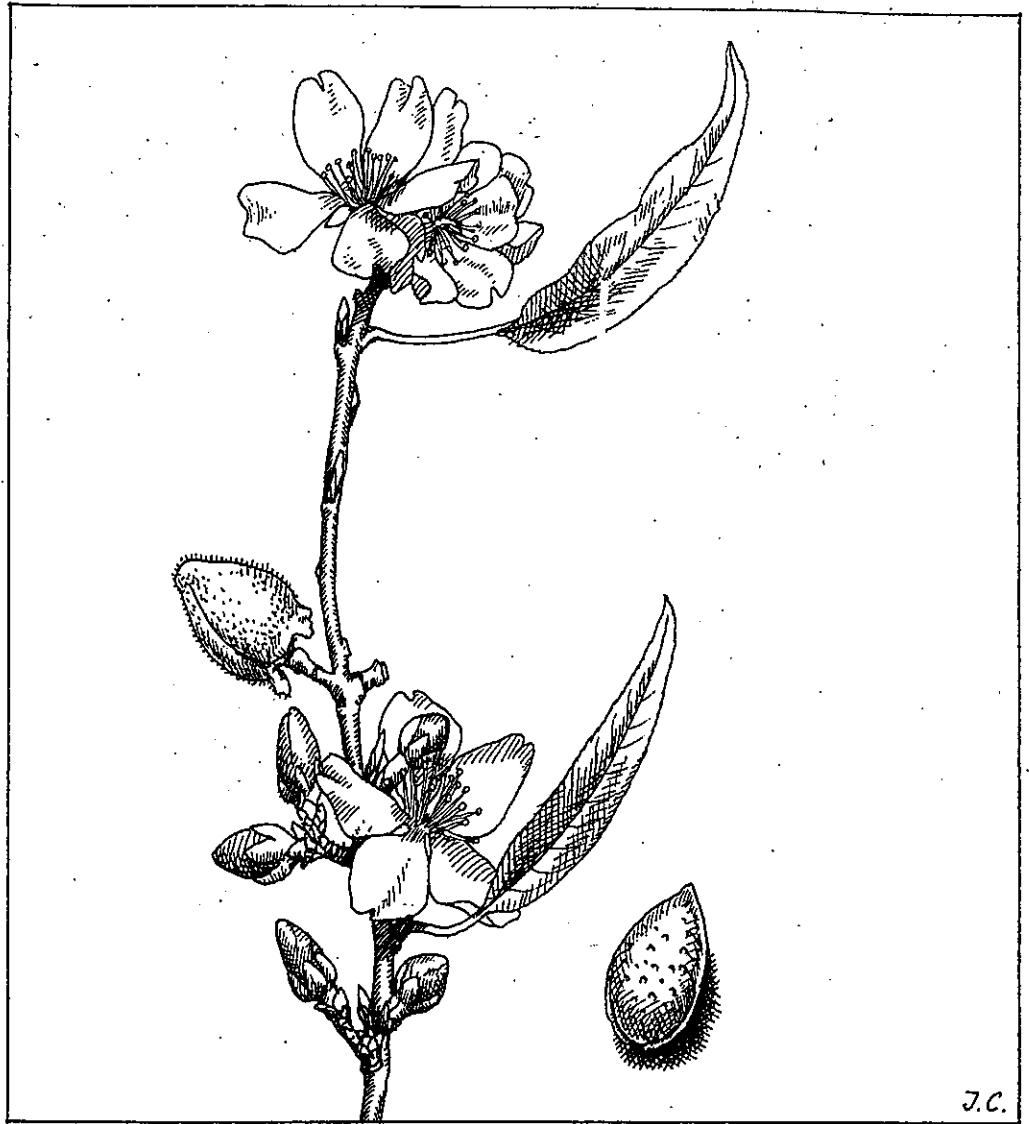
زیتون

height 6m, spread 6m

Long living, evergreen tree with spreading, bushy crown, grey smooth bark and grey-green to silver-green foliage. Leaves lance-shaped, ab. 5cm long. Small, white flowers are followed by egg shaped fruits containing edible oil. Slow growth, tolerates poor soils and rocky ground, drought resistant. Native to Mediterranean region, well adapted to semi-arid conditions.

Use: Crop tree, valued for its edible fruit and oil, also as specimen tree for its interesting foliage.





Prunus amygdalus
Almond

لوز



height 8m, spread 6m

Deciduous tree with narrow leaves on long stalks. The pink, showy flowers appear in early spring usually before the leaves. Whole fruits are edible when unripe, ripe fruits are collected for edible seeds inside the hard stones. Widely cultivated in the Mediterranean region. Tolerates poor soil but grows better in richer, well drained soils. Dislikes late frosts and strong winds. Use: Essentially a crop tree but useful as a specimen tree for its rich blossoms in spring.



Prunus armeniaca
Apricot

مشمش

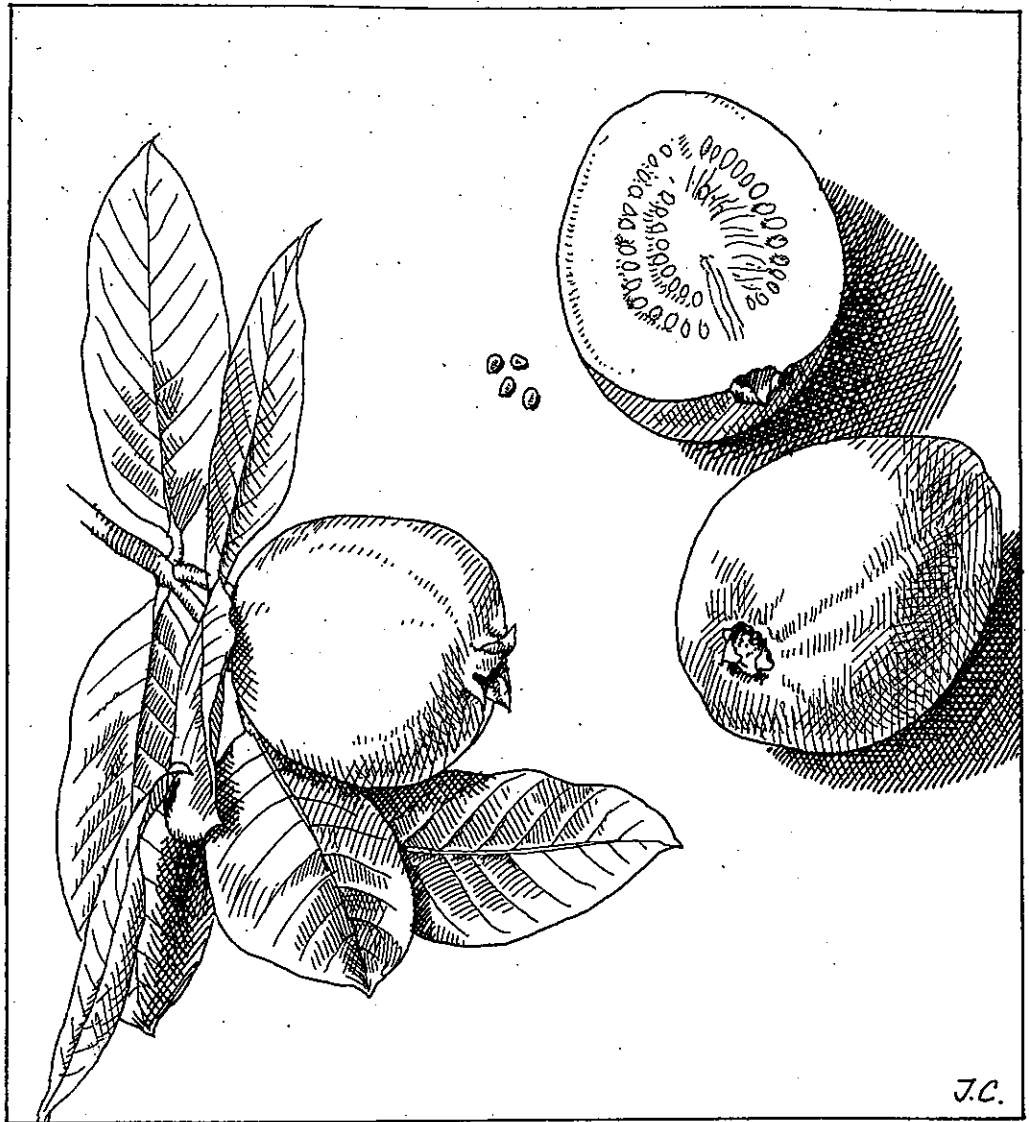
height 5m, spread 6m

Deciduous tree with a stout trunk and rather untidy branches forming a rounded crown. Oval leaves are sharply pointed and double toothed at the margin. White to pinkish flowers appear before the leaves. The orange, velvety fruit is edible. The crop varieties are usually grafted on more hardy stock. Likes temperate climate and rich, well drained soil, dislikes extended frosts and strong winds.

Use: Crop tree, useful also for its rich shade.

76





Psidium quajava
Guava

جوافة



height 6m, spread 5m

Evergreen tree with a rather slender trunk and scaly bark. Oval leaves are leathery and downy on the underside. The fruit is round, slightly pear-shaped, yellow when ripe. The flesh is edible and has a strong scent. Needs warm climate, watering and medium to rich soils. Does not tolerate frost.

Use: Crop tree grown for its exotic fruit.



Punica granatum
Pomegranate

رمان

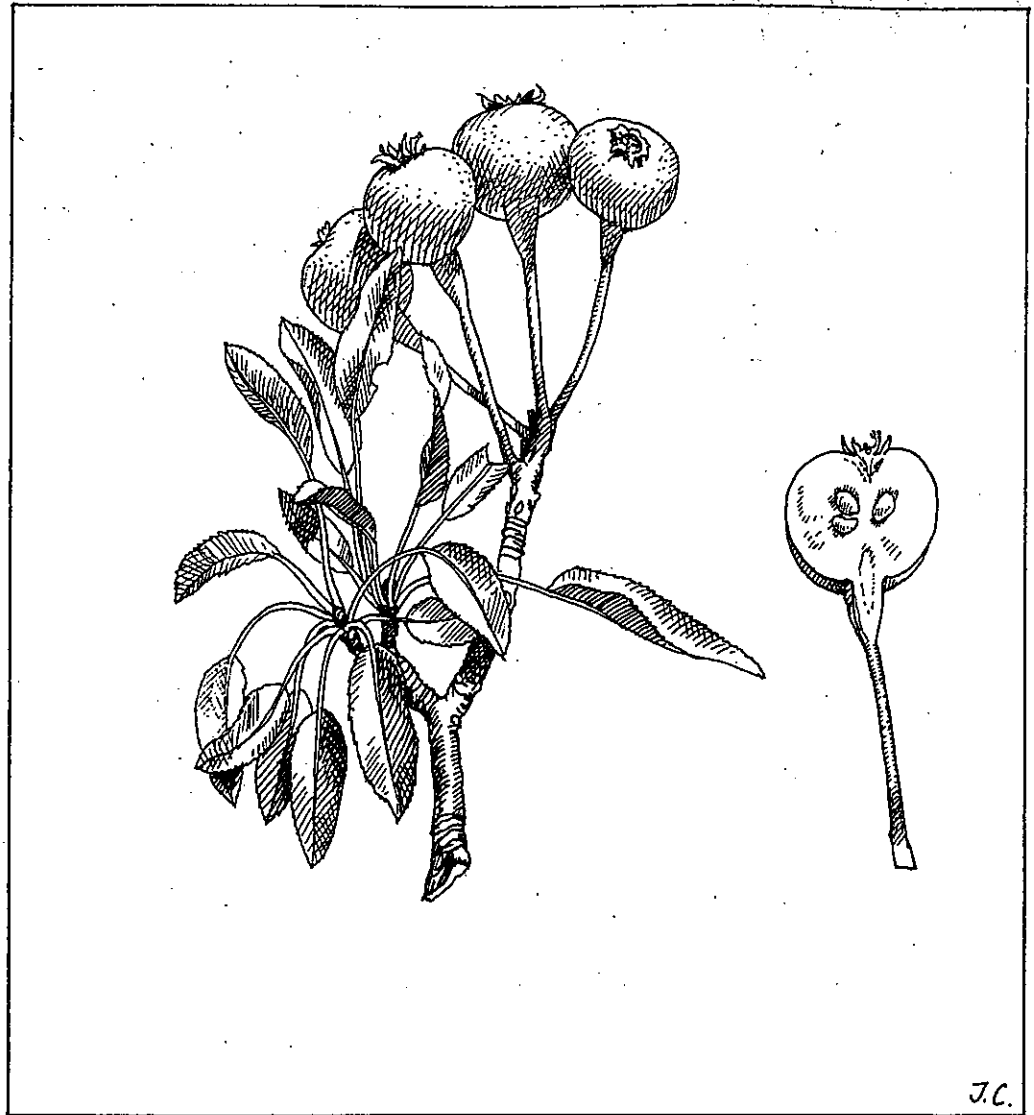
height 5m, spread 5m

Deciduous tree with shrubby growth and oblong, glossy green, entire leaves, ab. 5cm long. Flowers are red, with a bell shaped calyx. Red to purple fruits resembling apples are divided into many chambers containing juicy, edible seeds. Flourishes where olives grow, tolerates heat and even some salinity. Needs little water. Prefers full sun.

Use: Crop tree, also as specimen for its dense foliage and attractive flowers.

78





Pyrus communis
Common Pear

اجاص

height 10m, spread 6m

Deciduous tree with cracked, blackish bark and ovate, shiny, green leaves with toothed margin, ab. 4cm long. White flowers appear before the leaves. The edible fruit of the original variety is roundish, rather hard, of the cultivated varieties conical, fleshy and soft. The cultivated varieties are usually grafted on wild species. The wild variety, native to east Mediterranean, is a hardy, drought resistant tree, tolerating poor soils and preferring full sun. Use: Cultivated species as crop trees, landscape use as specimen tree, pleasant in full bloom, good shade later. Wild species /*Pyrus syriaca*/ good for screens.



EVERGREEN SHRUBS



Abutilon hybridum
Flowering Maple

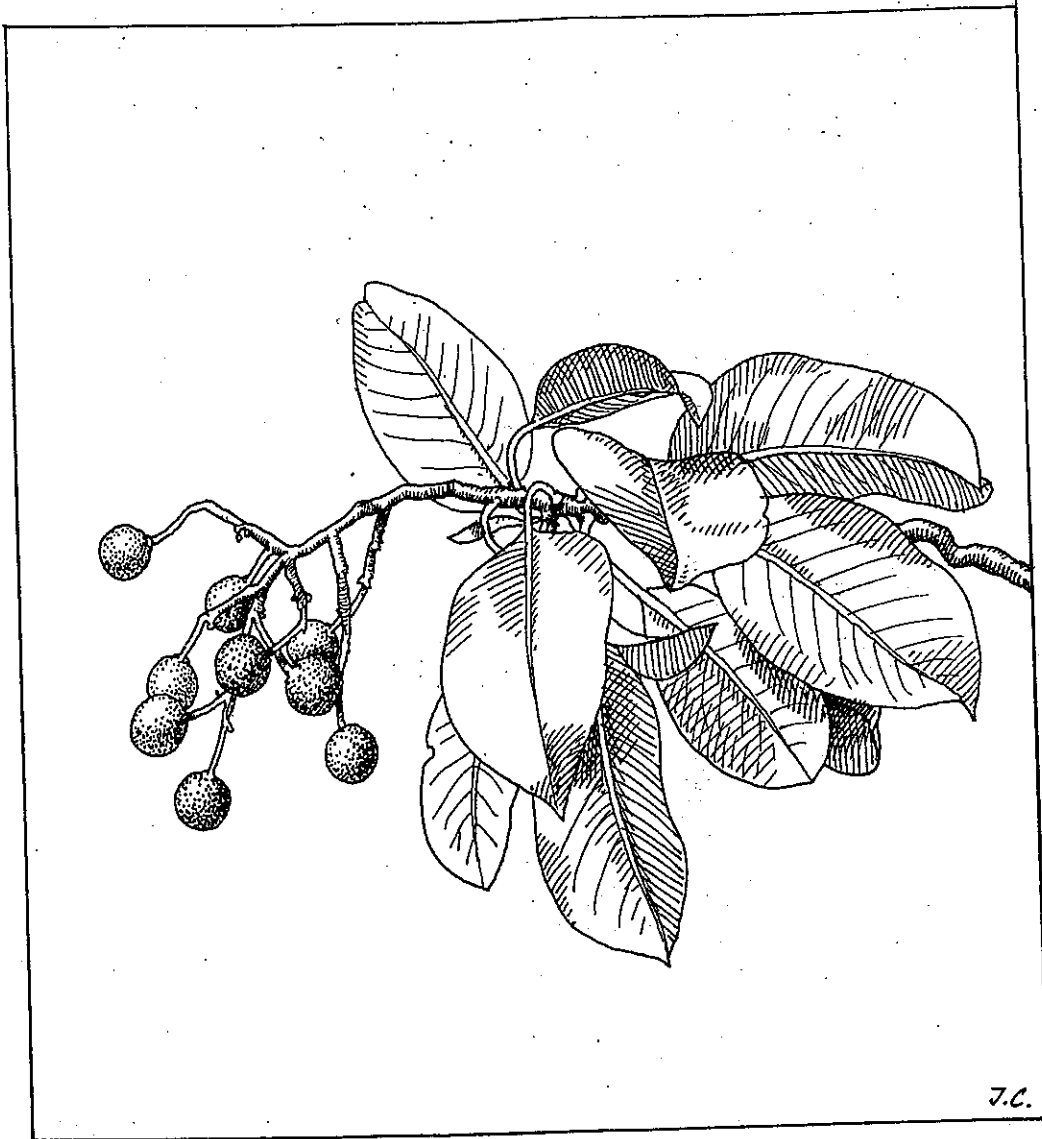
ابوتيلون



height 3m, spread 3m

Evergreen shrub with an informal, loose growth and bright green, maple-like leaves. Drooping bell-like flowers are orange with reddish veins, white and yellow varieties also available. Prefers partial shade and watering, sometimes grown as decorative plant indoors.

Use: Along pathways or in groups combined with other shrub species.

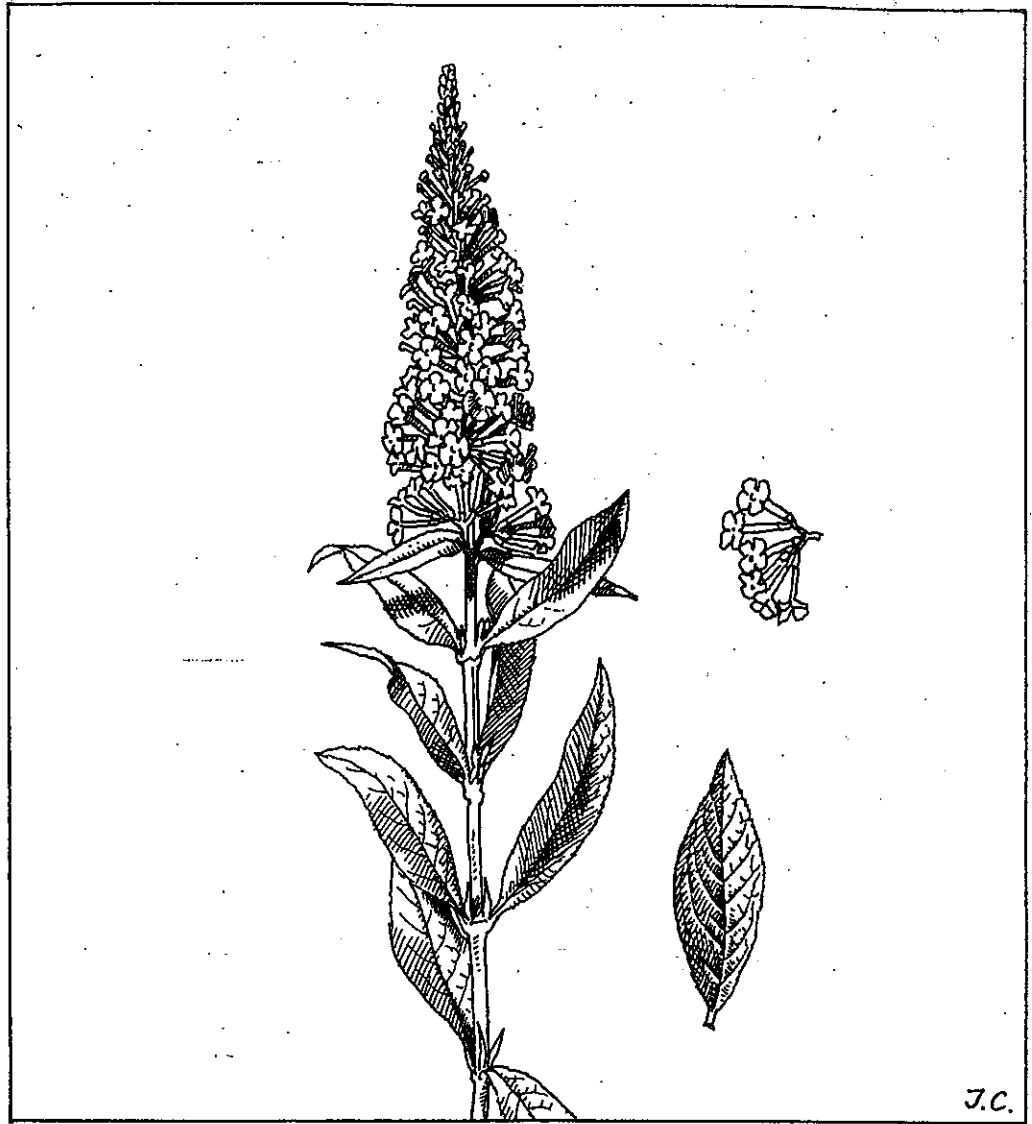


Arbutus andrachne
Strawberry Tree

أربيو تيس

height 3m, spread 3m
 Evergreen bush with smooth, orange-red bark and light green, glossy and somewhat leathery leaves with smooth margin, ab. 8cm long. Small whitish to pinkish flowers appearing in clusters are followed by orange-red fruits, round, coarse, resembling strawberries. Medium growth, prefers light, sandy or rocky soils. Drought and wind resistant, full sun or partial shade. Native to Mediterranean region, well adapted to semi-arid climate.
 Use: Screens, attractive for its fruits, combines well with Aleppo Pine /in its natural habitat undergrowth in Pine forests/.





Buddleia davidii
Butterfly Bush, Summer Lilac

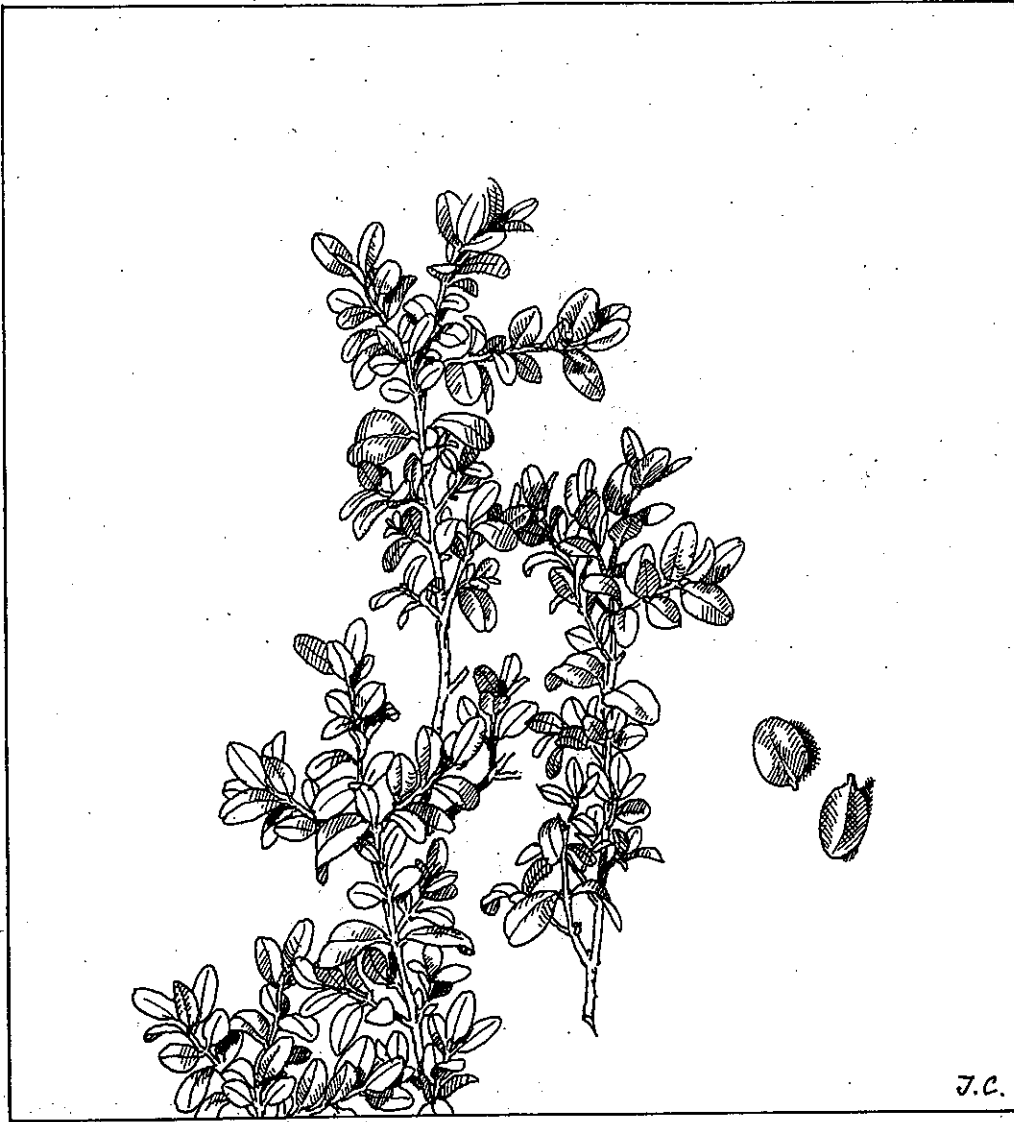
ظرف العروس



height 2m, spread 1.5m

Semi-evergreen shrub with arching branches. Pointed-oval, opposite leaves are dark green above, pale beneath. Dark blue to lilac flowers in dense panicles at branch ends, fragrant and attracting butterflies. Fast growing, full sun to light shade, relatively rich soil. Needs some watering for vigorous growth.

Use: Showy in groups for late summer bloom.



Buxus microphylla japonica
Japanese Boxwood

بکسوس

height 1m, spread 1m

Evergreen shrub with dense, fine textured foliage of small, round leaves, ab. 1cm long. Best suited to pruning to almost any shape. Slow growth, takes dry heat but prefers some watering, full sun or shade. Grown for its lively green foliage.

Use: Clipped as hedge or border edging, shaped into globes or pyramids for formal gardens, left unattended grows as pleasant, informal shrub.





Caesalpinia gilliesii
Poinciana, Bird of Paradise Bush

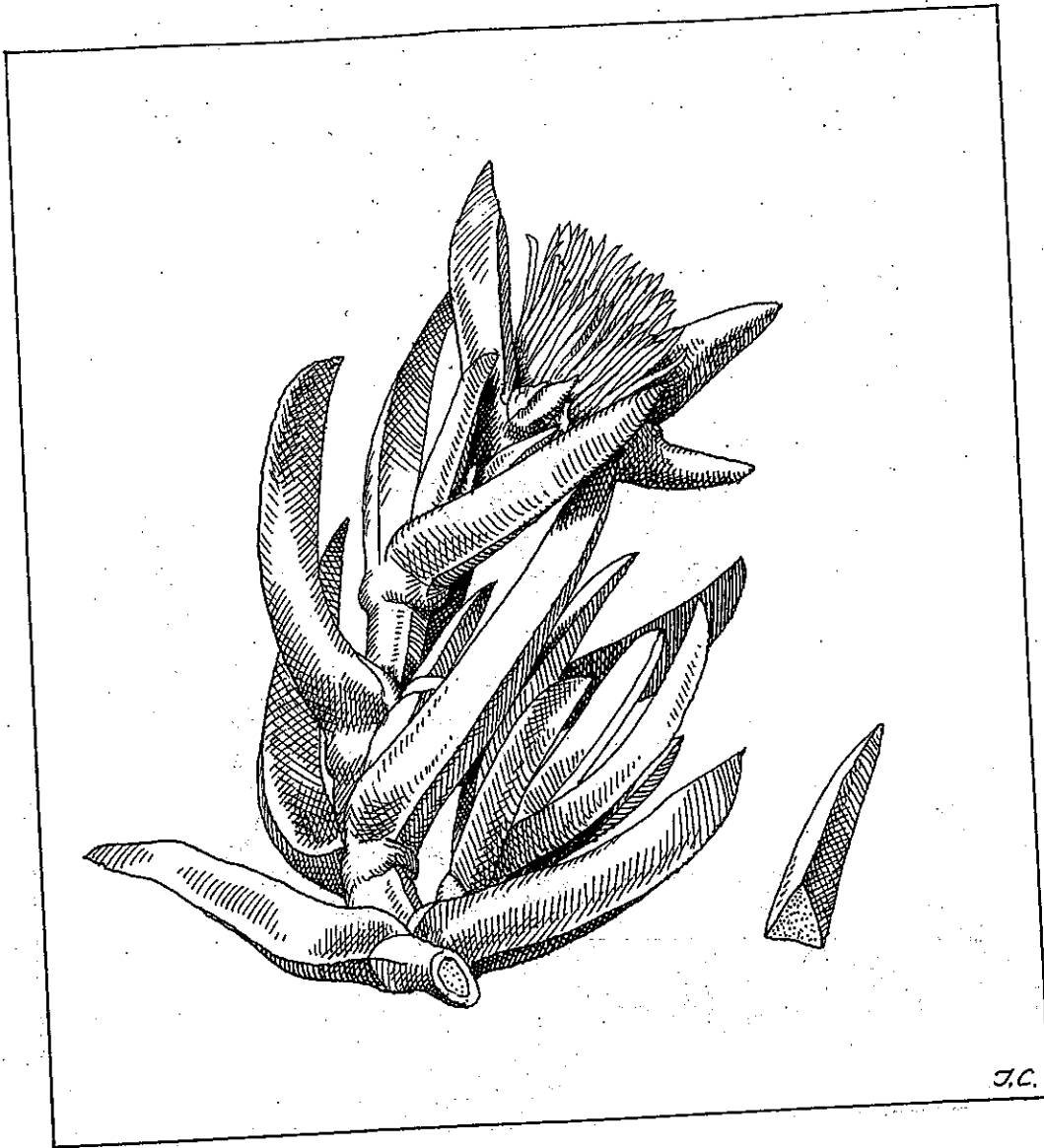
عصفور الجنة

height 3m, spread 3m

Semideciduous to evergreen bush or small tree with finely cut, feathery, bipinnate foliage. Attractive yellow flowers with long, red, protruding stamens. Clusters of flowers bloom all summer. Fast growth in hot weather, light soils. Needs infrequent, deep watering but is fairly drought resistant. Fruits are greyish pods.

Use: Very ornamental shrub used either as specimen or in masses as screen.

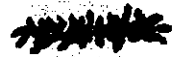




Carpobrotus edulis
Ice Plant

موس الحلاق

height 0.3m, spread 0.6m
Succulent sub-shrub with coarse leaves, triangular in section, ab. 10cm long.
Flowers pale yellow, round, with many radiating, narrow petals. Trailing plant,
drought resistant, not affected by diseases, fire resistant and tolerating
some salinity. Prefers full sun and sandy soils.
Use: Excellent ground cover for neglected areas, prevents erosion and binds
loose, sandy banks. Also useful in rock gardens. Plant 0.5m apart.





Cestrum nocturnum
Night Jessamine

كولونيا

height 2m, spread 2m

Evergreen shrub with light green, pointed leaves, ab. 10cm long. Tubular flowers of creamy-white colour appear in clusters, extremely powerfully fragrant at night, flowering during the summer season. Feeding and watering necessary, prefers sheltered spots and partial shade. Fast growth when attended.

Use: Grown for its fragrant flowers at night, around terraces and seating areas. The scent can be too powerful for some people.

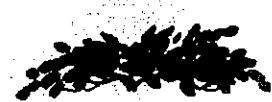




Cotoneaster horizontalis
Rock Cotoneaster

کوتنیاستر

height 0.6m, spread 3m
Semi-deciduous spreading shrub with stiff, angled branches that grow close to ground. Small, dark green leaves, glossy above, pale beneath. Inconspicuous, tiny flowers, round and shiny red berries in winter. Tolerates poor soil, prefers light shade and some watering but is reasonably drought resistant. Much slower growth in arid conditions.
Use: Rock gardens, cascading, erosion control, ground cover.





Dodonaea viscosa
Hopseed Bush

ديدونيا

height 3m, spread 3m

Evergreen, multistemmed bush with light green, willow-like leaves, ab. 8cm long. Can be trained to small tree by cutting out superfluous stems. Fast growing, takes dry, desert heat when established, accepts almost any soil, will tolerate also moist soils. Extremely adaptable to various conditions and hardy. Use: Can be pruned as hedge, unpruned forms informal screens along pathways and fences. For hedges plant 1m apart.



Duranta erecta
Sky Flower

درافتا

height 3m, spread 3m
Evergreen, multistemmed shrub with glossy green, toothed, pointed leaves, arranged in pairs, ab. 5cm long. Blue flowers in clusters followed by yellow berries. Fast growing, full sun, hot climate, requires constant moisture, not drought resistant.

Use: Fast screen where adequate watering possible, valued for pretty flowers.





Euonymus japonica
Evergreen Euonymus

مرجان

height 2m, spread 2m

Evergreen shrub with dense foliage of glossy and leathery deep green leaves ab. 4cm long. Flowers inconspicuous, red fruit appear in winter. Many varieties with yellow-edged leaves available. Older specimen can be pruned to form a small tree. Fast growing, hardy species. Tolerates poor soils, heat, drought, wind and pruning to almost any shape.

Use: Clipped for hedges and screens, also decorative in its natural form as spreading shrub with attractive foliage. Trained as miniature tree used in formal gardens.



Hibiscus rosa-sinensis
Chinese Hibiscus

جرس

height 3m, spread 2m
Evergreen shrub with showy, cup-like, single or double, red flowers up to 15cm across. White, yellow, orange and pink varieties also available. One of the showiest flowering bushes. Needs well drained garden soil, deep watering, full sun or partial shade, protection from frost and wind. Also grown in containers indoors.
Use: Showy specimen when in full bloom, also as a flowering screen or at walls.





Hibiscus schizopetala
Hibiscus

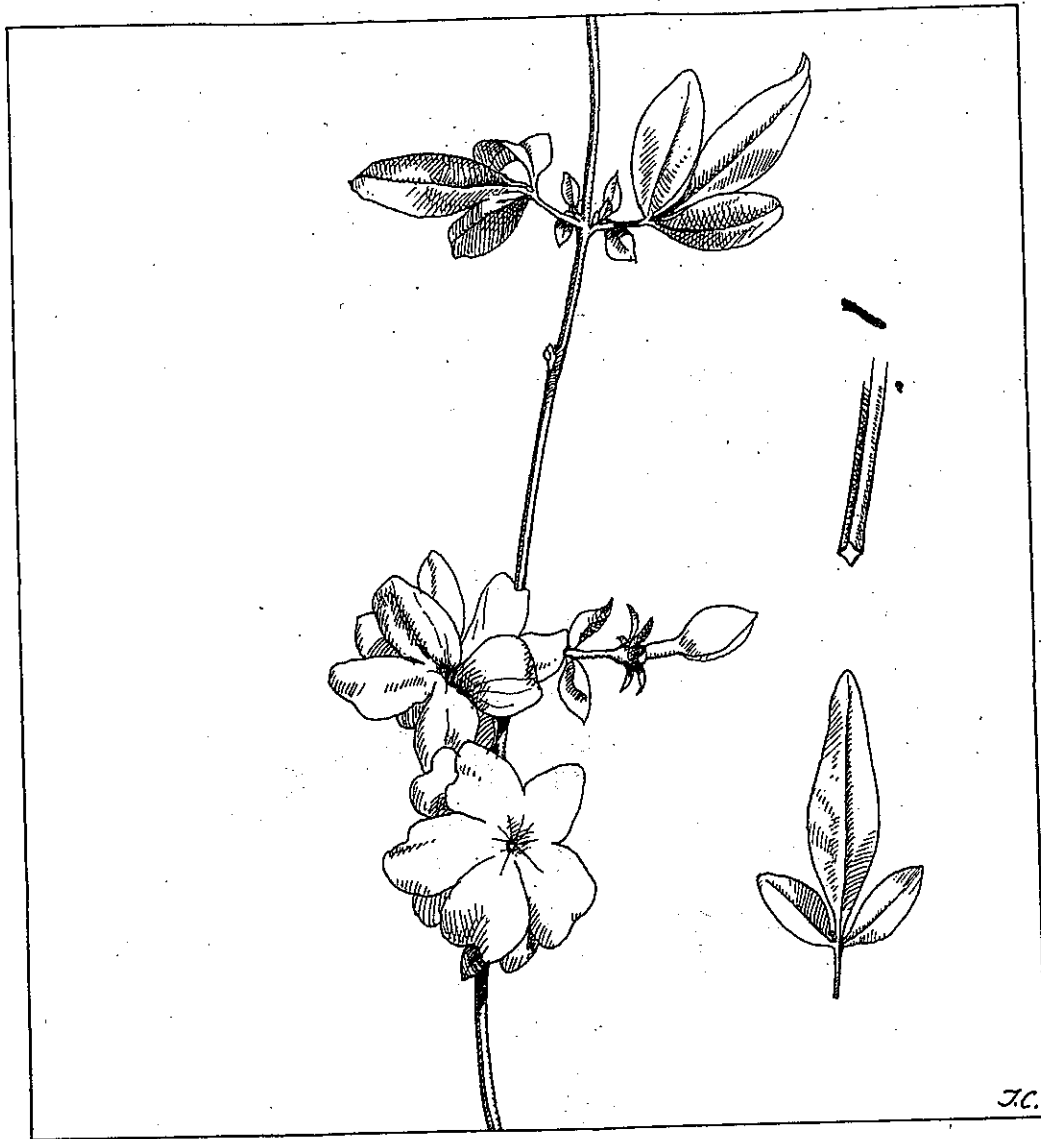
هیبیسکس

height 1.5m, spread 1.5m

Evergreen shrub with pointed, 5-veined leaves with irregularly toothed margin, ab. 10cm long. Flowers never open and remain elongated, closed trumpets, red or dark pink. Prefers full sun and garden soil, occasional watering during the dry season advisable. Not as showy as *Hibiscus rosa-sinensis* but hardier and more drought resistant.

Use: Decorative shrub at fences, walls, edges of terraces, bordures of lawns.





Jasminum primulinum / *J. mesnyi* /
Yellow Jasmine, Primrose Jasmine

ياسمين اصفر

height 2m, spread 2m
Evergreen shrub with long, arching branches and dark green leaves with three elongated leaflets. Stems are square in section. Flowers bright yellow, semi-double or double, unscented, appearing in early spring. Needs medium soil and some watering but is generally quite hardy. Looks best tied up and permitted to spill down. Can be also pruned to form a hedge.
Use: Along walls and fences, can be used even for a pergola.





Jasminum sambac flora-plena
Arabian Jasmin, Fil

فل

height 1m, spread 0.5m

Small, evergreen shrub with undivided glossy, dark green, rounded leaves, ab. 6cm long. Powerfully fragrant, white flowers 3cm across, in small clusters. Needs regular soil and some watering, prefers partial shade but tolerates sun, is not frost resistant and needs winter protection.

Use: Grown for fragrant flowers, frequently in containers which can be moved indoors in winter. Entrances, terraces.





Lantana camara
Lantana

ام كلثوم

height 1.5m, spread 1.5m
 Semideciduous, spreading, irregular shrub with rough, dark green, opposite leaves and square stems. Flowers in clusters are yellow turning orange, red, pink or white, sometimes combination of two colours in each cluster. Fruits are poisonous. Very fast growth, tolerates any soil, prefers full sun and requires infrequent watering, fairly drought resistant.
 Use: Good filler, bedding cover, ground cover, provides large patches of bright colour most of the year.





Lavandula angustifolia
Lavender

لافندر

height 1.5m, spread 1m

Evergreen, fragrant shrub with silvery grey, narrow leaves creating very dense, fine textured foliage. Violet flowers in long spikes, attract bees. Can be clipped to form hedges. Dried flowers used for sachets. Prefers light, sandy to rocky, well drained soils, full sun and is drought resistant. Native to Mediterranean area, well adapted to semi-arid conditions.

Use: Attractive hedge, rock gardens, along pathways, space filler.





Ligustrum japonicum
Waxleaf Privet

لجسترم

height 3m, spread 3m
Evergreen shrub with compact growth, oval leaves ab. 6cm long, medium green and glossy above, paler beneath, thick and waxy. Flowers white, fragrant, in clusters but not very showy. Small blackish berries follow blossoms. Medium growth, not particular about soil. Partial shade or full sun, in hot areas can suffer sun burns. Fairly drought resistant but grows better with regular watering.

Use: Excellent for hedges and screens, can be clipped to almost any shape.





Myoporum laetum
Myoporum

بزروميا

height 4m, spread 3m

Evergreen, large shrub with shining, pointed, elliptical leaves ab. 8cm long, with characteristic, translucent spots. Grown essentially for its massive foliage. Small, white flowers with purple markings are followed by small, reddish fruits. Fast growth, drought resistant when established, takes full sun, not particular about soil, rather hardy. Roots are invasive. Wind resistant.

Use: Perfect screen for wind and sound protection, along fences, also as ground cover for neglected places.





Nerium oleander
Oleander

وردة الحمير، دفلة

height 3m, spread 3m

Evergreen shrub with upright branches and 10-15cm long glossy, leathery, pointed, narrow leaves. Clusters of pink flowers at twig ends. Cultivated varieties with white, yellow and red flowers are also available but are not as hardy as the basic species. Native to the Mediterranean region and the Middle East, well adapted to semi-arid conditions. Medium growth, not particular about soil, tolerant to salt, drought resistant, withstands full sun, heat and strong winds. All the plant is poisonous.

Use: Good flowering shrub for extreme conditions, as a screen, along roads and pathways. Avoid children playgrounds, poisonous.





Pelargonium domesticum
Regal Geranium

جرانیوم

height 0.8m, spread 0.5m
 Shrubby perennial, erect or spreading. Kidney shaped leaves with crinkled, toothed margin, ab. 8cm broad. Large, pink flowers with purple veins and blotches on two upper petals. White, lavender and purple varieties also available. Long bloom from spring through summer. Full sun or light shade, needs watering and some additional feeding, well suited for pots.
 Use: Flower beds, planters, on balconies and terraces. Showy in full bloom.





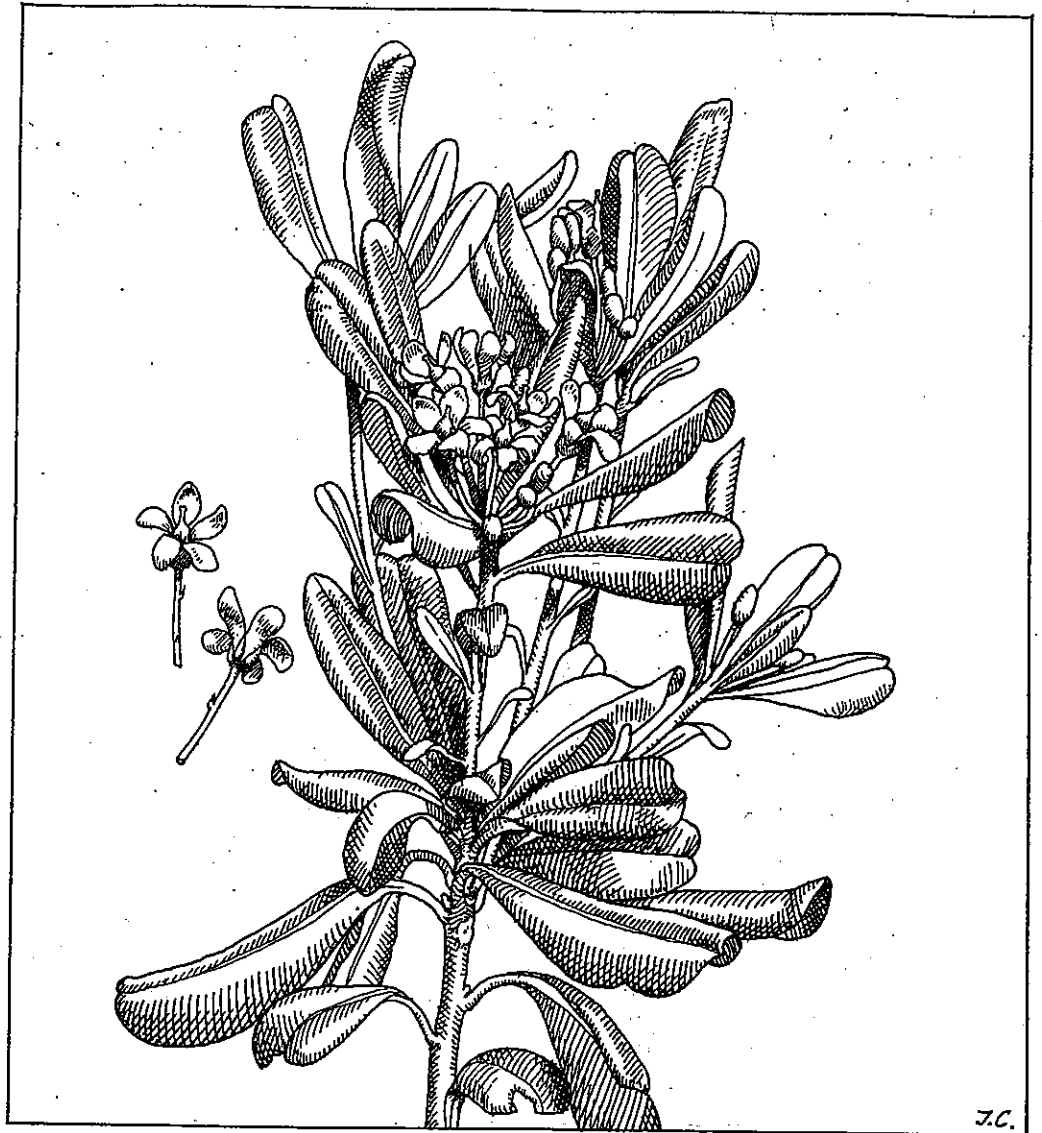
Pelargonium graveolens
Scented Geranium

ريحان

height 0.8m, spread 0.5m

Shrubby, trailing plant grown for the fragrance of its deeply lobed leaves with irregular margin, ab. 10cm long. Flowers resemble those of *Geranium domesticum* but are smaller and less showy. Full sun or light shade, needs watering and good garden soil, suited for planters.

Use: Balconies, terraces, usually in containers. Leaves fragrant when bruised. Also used in flower beds.



Pittosporum tobira
Tobira

توبيرا

height 2-3m, spread 2m

Evergreen, aromatic shrub with leathery, glossy, dark green leaves rounded at ends, ab. 8cm long, clustering at ends of twigs. White, fragrant flowers in clusters which turn into brownish fruit in fall and split to show orange seeds. Needs richer soil, partial shade or sun. Fairly drought resistant but grows better with regular watering.

Use: Hedges and screens, boundary planting, successful near swimming pools.





Plumbago capensis
Cape Plumbago

ياسمين ازرق

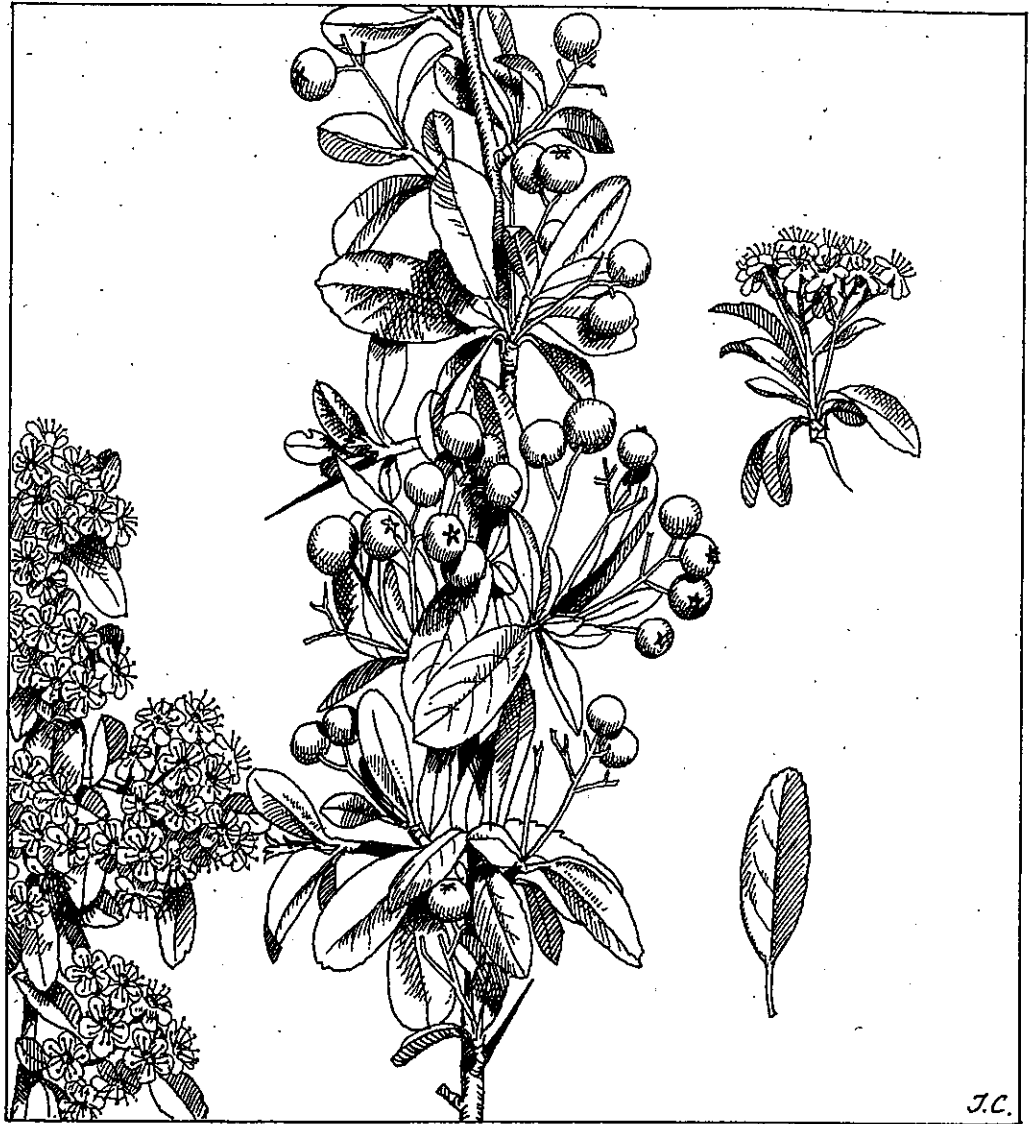
height 2m, spread 2m

Evergreen shrub with light green leaves, ab. 4cm long. Light blue, showy flowers appear in flat-topped clusters. Long blossoming season. White flowered variety also available. Full sun, needs some watering, fast growing, not particular about soil, rather hardy.

Use: Good for fences, along walls, banks, background and filler plant. Showy in full bloom.

104





Pyracantha coccinea
Firethorn

زعرور

height 2m, spread 2m

Evergreen, thorny shrub with irregular upward growth. Leaves are glossy green and have downward rounded edges, length 1-2cm. The bush is planted for masses of ornamental white flowers in small clusters followed in late summer by showy, orange-red berries. Fast growing species, requires occasionally moist soil but is reasonably drought resistant /should be protected from sprinklers/. Full sun for best bloom. Native to Mediterranean region, adapted to rougher, hilly climate.

Use: Screens, barrier plantings, on walls and fences.





Retama raetam
Retama, White Broom

رتام

height 2m, spread 2m

Evergreen shrub with spreading to upright wiry branches, almost leafless. Flowers in early spring, white with purplish tips, pea-shaped, scented. Native to Middle-Eastern deserts, well adapted to arid climate. Very deep roots /up to 15m/. Tolerates drought, heat and strong winds. Sandy, rocky and gravelled soils, needs good drainage.

Use: Useful under extreme conditions of soil and climate, showy in bloom, rather empty looking in summer. Rock gardens, at walls, in small groups.

106





Ricinus communis
Castor Bean

خروع



height 3m, spread 3m

Shrub-like plant providing a screen of large, multilobed leaves /50cm across/. Flowers are unimpressive, fruits are prickly shells containing attractive but poisonous seeds. Should not be planted where children play. Fast growing species, in warm climate becoming a small tree, prefers some humidity and full sun.

Use: One of the fastest growing foliage plants, up to 3m in one season. Good as background or screen. Avoid planting near playgrounds!

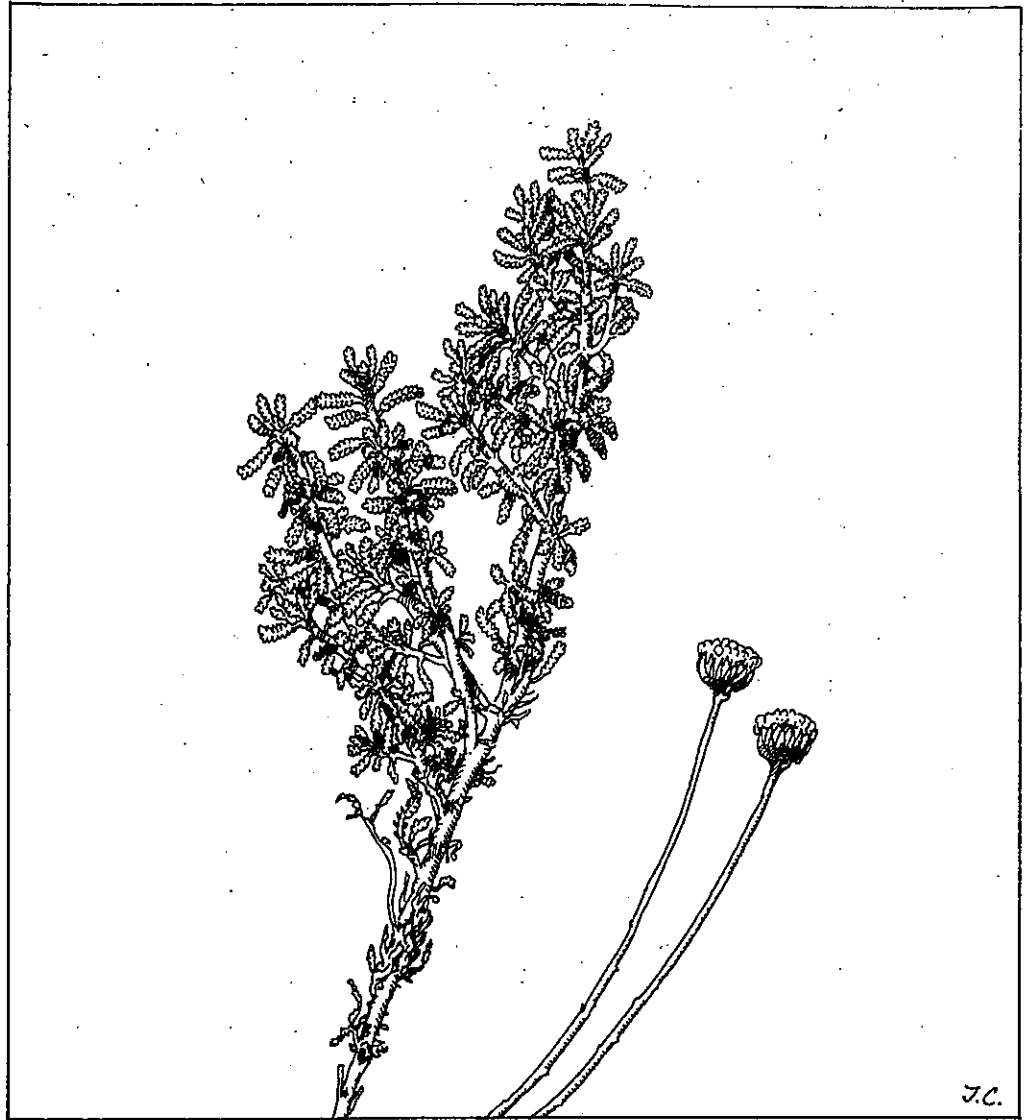


Rosmarinus officinalis
Rosemary

حصالبان

height 1.5m, spread 1m
Evergreen, fine textured shrub. Narrow, glossy and leathery leaves are dark green above and greyish beneath. Used as seasoning for their fragrance. Flowers in small clusters, light blue to lavender, appearing usually twice, in spring and in late summer. Mediterranean species, tolerant to drought and poor soils, prefers full sun. Old specimen need replanting.
Use: Rock gardens, hedges, can be clipped. Attracts bees.





Santolina chamaecyparissus
Lavender Cotton

شیح

height 0.3m, spread 0.6m

Evergreen subshrub with attractive, silvery grey foliage of finely divided leaves, ab. 1cm long, strongly fragrant when crushed. Flowers are yellow heads resembling buttons, appearing all summer. Full sun, drought tolerant, not particular about soil.

Use: Very good ground cover, for continuous cover plant ab. 0.5m apart. Also suited for edges of pathways and borders. Needs replacement after few years when it becomes too woody.





Senecio cineraria
Dusty Miller

سنيسيو

height 0.6m, spread 0.5m

Shrubby perennial, spreading plant with woolly, silvery, deeply lobed leaves, ab. 8cm long. Yellow flowers in clusters most of the season, ab. 1.5cm across. Average soil, full sun, little watering, easy to grow.

Use: In combination with other flowering plants, planted mainly for its striking silvery leaves.





Tecoma stans
Yellow Trumpet Flower

تكوما



height 4m, spread 3m
Evergreen shrub or small tree with leaves divided into 5-9 toothed leaflets, ab. 8cm long. Bright yellow, bell-shaped flowers in summer. To prolong bloom faded flowers should be cut. Needs warm climate and deep, rich soil. Some watering required. Full sun for best bloom.
Use: Very showy as solitary, in groups for screening.



Viburnum tinus
Laurustinus

فيبرنم

height 3m, spread 2m
 Evergreen shrub or small tree with dark green, leathery, oval leaves, ab. 5cm long. Clusters of white flowers in spring, lightly scented. New stems are reddish and the flower buds pink. In suitable location blossoms also in winter. Fruits are metallic blue berries. Prefers rich soils and may need some watering.
 Use: Good specimen bush, dense foliage makes it also suitable for screens and hedges.



DECIDUOUS SHRUBS



Berberis thunbergii
Japanese Barberry

بربريس

height 1.5m, spread 1.5m

Deciduous, dense growing shrub with spiny branches. Roundish leaves 1-3cm, deep green above, greyish below, rich red in autumn. The variety "atropurpurea" has purplish foliage all the year. Pale yellow inconspicuous flowers, bright red 1cm berries. Medium growth, full sun or light shade, tolerates poor soils and is reasonably drought resistant.

Use: Hedges, barriers, can be sheared; also nice solitary for its graceful growth and fine-textured foliage.

114





Calycotome villosa
Calycotome

قندول

height 1.5m, spread 1.5m
 Deciduous, spiny shrub with small, trifoliate leaves. Multistemmed, branches are evergreen and grooved. Masses of conspicuous, bright yellow flowers, pea-shaped and scented. Blossoms early in the spring. Native to Mediterranean region, one of the most common shrubs in Palestine. Tolerates drought and poor, rocky soils, full sun and strong winds. After the bloom it looks untidy. Extremely hardy.

Use: Rock gardens, stone walls, very spectacular in full bloom.





Crataegus aronia
Hawthorn

pg 2

height 3m, spread 2m

Deciduous, thorny shrub or small tree, usually multistemmed. Leaves are somewhat leathery, 3 to 5 lobed. Abundant white flowers in small clusters in early spring, followed by clusters of small yellowish berries in summer. Native to eastern Mediterranean, well adapted to the conditions of the hilly regions. Tolerates drought, wind and frost, survives even in a poor, rocky soil, prefers full sun.

Use: Thorny hedges along walls and fences, as a small tree even solitary, richly blossoming specimen.

116





Hydrangea hortensis
Hydrangea

هيدرنجيا

height 3m, spread 3m

Deciduous shrub with round crown and shiny, thick leaves, ab. 10cm long, with coarsely toothed margin. Conspicuous, ornamental flowers in large clusters, pink, red or blue according to the acidity of the soil. White flowered species also available. Fast growing, sensitive to frost; prefers rich, porous soils, slight shade and watering.

Use: Decorative specimen bush grown for its showy flowers, also good as screen or hedge.





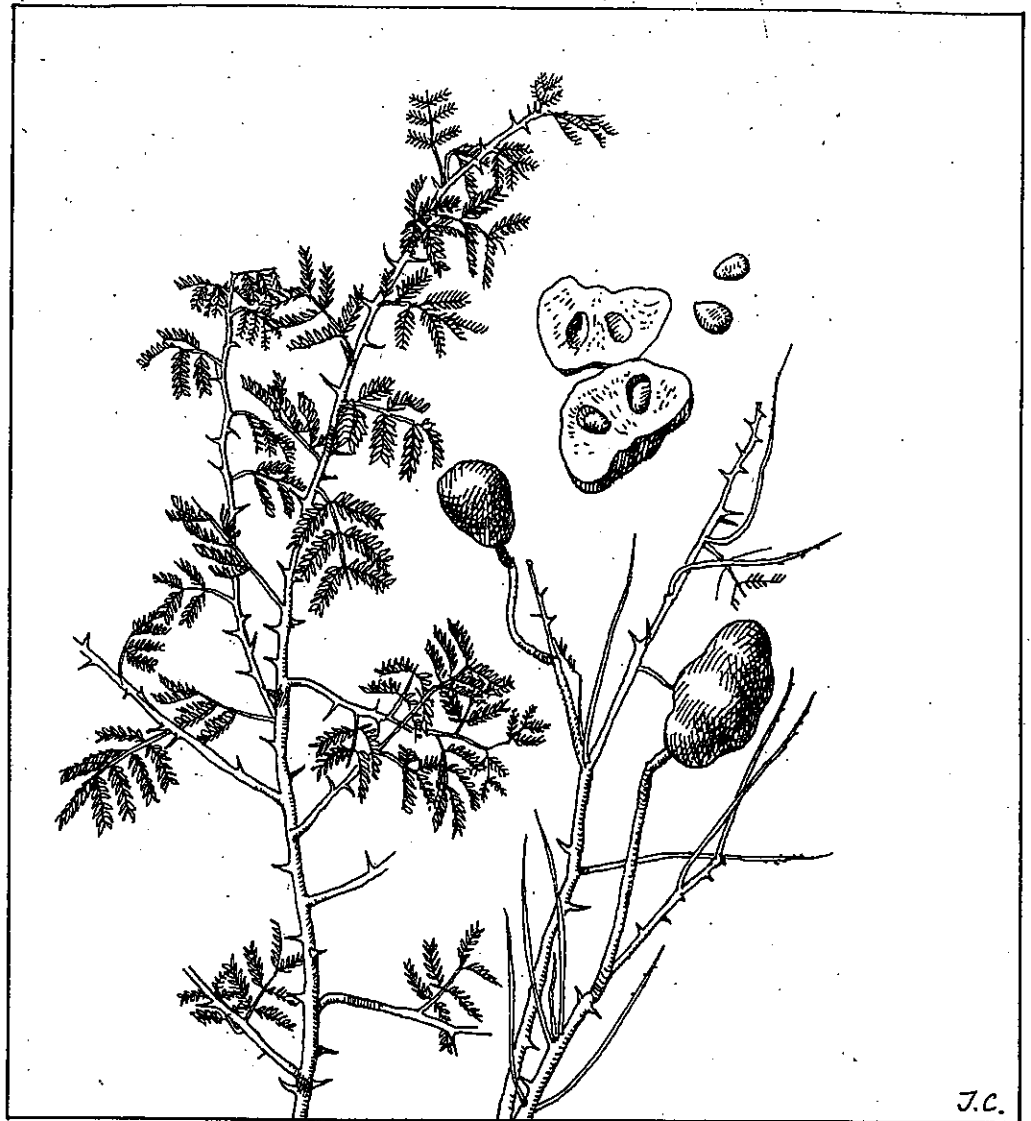
J.C.

Ligustrum ovalifolium
California Privet

لجسترم

height 2m, spread 2m
Semideciduous shrub, evergreen in warm region. Dark green, oval, about 5cm long leaves. Fast growth, tolerates heat but needs some watering and prefers richer soils. Aggressive roots. Frequent clipping encourages thick growth.
Use: Fast growing hedges, can be kept clipped to any height. For hedges plant 25cm apart.





Prosopis farcta
Prosopis

يهبوت

height 0.6m, spread 1.5m

Deciduous, spreading shrub with spiny branches and feathery, compound, grey-green leaves with numerous, tiny leaflets organized on 3-7 pairs of secondary stalks. Inconspicuous flowers are followed by swollen, dark brown pods with spongy flesh, ab. 3cm long. Fast growing, hardy species, prefers warm climate, full sun, extremely drought tolerant, grows well even in saline soils. The roots may reach 15m depth, in its native habitat a noxious weed. Native to the Middle East, well adapted to desert conditions.

Use: Excellent ground cover in arid conditions with attractive, feathery foliage. Once established very difficult to get rid of. Also used as pioneering plant in desert conditions and for erosion control.





Rosa grandiflora
Rose

ورد

height up to 2m, spread 1.5m
Deciduous shrub with thorny branches grown for its large, cuttable flowers and for their colour effect in the garden. Flowers are solitary, colours vary from red, pink to yellow and white. Blooms on new growth promoted by pruning every year. Prefers rich soils, afternoon shade in summer and some watering.
Use: Solitary or in groups, eventually in a specialized rose-garden. Grown primarily for their cuttable flowers.





Rosa polyantha
Polyantha Rose

ورد

height 1.5m, spread 1.5m
Bushy, deciduous shrub with dense, thorny branches. Grown for large quantities of small, clustered flowers /usually less than 4cm wide/. Blossoms most of the year, basic colour is pink, other varieties also available. The closely related Floribunda Roses produce also some climbing varieties. Prefers rich soil and some watering but is more drought and sun resistant than the Grandiflora Rose.

Use: Grown in groups for the massive, pink bloom, along pathways and fences, climbing varieties at walls and on trellis.





Sambucus nigra
Elderberry, European Elder

بيلسان

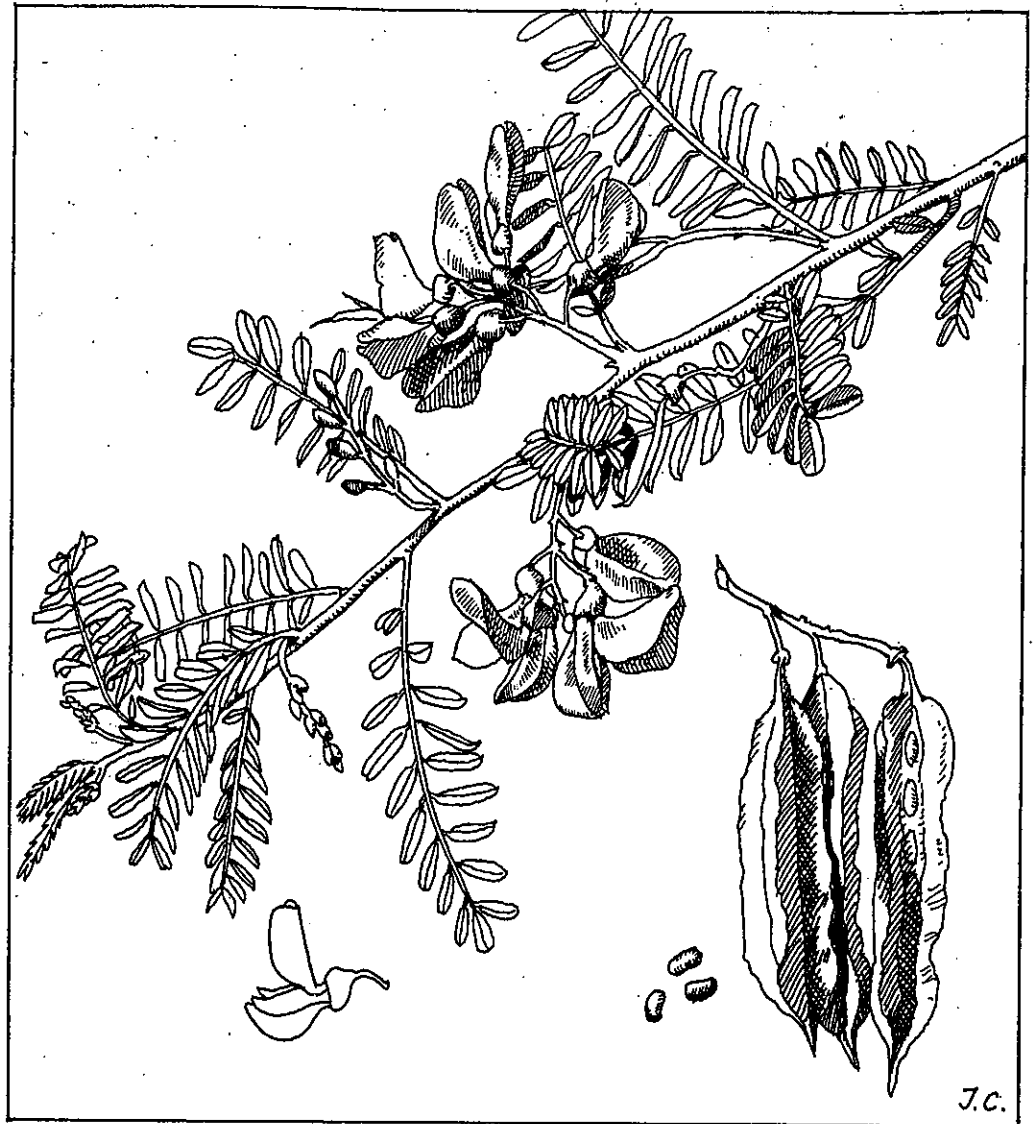
height 2m, spread 2m

Deciduous shrub, in its native habitat even a small tree /Europe/, with bright green leaves composed of 3-7 toothed leaflets. The scented, white flowers appear in large, flat-topped clusters. The fruits are black berries with red juice. Prefers medium soils, watering and partial shade. The berries attract birds. In dry conditions remains smaller.

Use: In groups for screens, along fences.

122





Sesbania tripetii
Scarlet Wisteria

سزبانیا

height 2.5m, spread 2m

Deciduous shrub or small tree with compound leaves consisting of ab. 12 pairs of small leaflets, giving the plant feathery look. Hanging clusters of orange-red, pea-shaped flowers in spring and summer, followed by characteristic, four-sided pods. Fast growing, not long lived, prefers heat and full sun, average to little watering, tolerates poor soils.

Use: Flowering shrub for quick effects, can be trained into a flat-topped tree.





Spiraea vanhouttei
Spiraea

سبیریا

height 1.5m, spread 1.5m

Deciduous shrub with arching, fountain-like branches, bluish green, coarsely toothed leaves ab. 3cm long. Showy snow-white flowers in rounded clusters covering the whole shrub when in full bloom. Tolerates poor soils but prefers watering. Full sun or light shade, fairly hardy. Pruning not advisable.

Use: Good specimen bush with graceful growth and massive bloom, also useful for hedges.





Syringa vulgaris
Common Lilac

ليلك



height 4m, spread 3m

Deciduous shrub or small, multi-stemmed tree with heart-shaped, pointed, 10cm long leaves. Lilac-colour flowers in upright clusters, dark mauve and white varieties also available. Flowers in May, known for its fragrance. Alkaline soils and watering needed, some additional feeding for rich bloom advisable. In hot climate light shade preferable.

Use: Attractive specimen plant grown for its cuttable flowers, also good for tall, colourful hedges and screens.

EVERGREEN VINES



Bougainvillea spectabilis
Bougainvillea

مجنوبة



climbs up to 6m
 Evergreen vine with shrubby growth and pointed, bright green leaves, ab. 5cm long. Masses of spectacular flowers most of the season, varying from mauve through red, orange to yellow and white. The basic, purple flowering species is the hardiest. Fast growing and vigorous, prefers full sun and some watering early in the season for better growth. Sensitive to frost and strong wind.
 Use: Spectacular vine for walls, patios, trellis. Without support makes sprawling bush useful for banks or as ground cover.



Hedera helix
English Ivy

هیدرا

climbs up to 10m
 Evergreen woody vine climbing almost any vertical surface by aerial rootlets. Large, glossy, leathery and slightly lobed leaves. Without possibility to climb becomes ground cover. Fast growing, prefers moist soil when young but becomes drought resistant when established. In hot climate prefers shade, well established plants would tolerate full sun.
 Use: Grown for vigorous, rich foliage and able to cover large wall areas. Climbs also on chain-link fences and trellis. Without support useful as effective ground cover. The species *Hedera canariensis* / Algerian Ivy / has more coarse growth and wider spaced leaves, often with whitish margin. This species needs more humidity and does not tolerate as much heat as *Hedera helix*.





Jasminum grandiflorum
Spanish Jasmine, White Jasmine

ياسمين ابيض



climbs up to 5m
Semi-evergreen vine with pendulous branches and glossy leaves with 5-7 leaflets ab. 3cm long, the terminal leaflet longer. White, fragrant flowers ab. 4cm across bloom all summer. Rapid growth, regular garden soil, some watering, sun or partial shade. Dry flowers stay on plant.
Use: In patios or around seating areas for its fragrant flowers, also at fences, walls, rails.



Jasminum officinale
Common White Jasmine

ياسمين

climbs up to 8m
Semi-evergreen vine with dark green leaves divided into three leaflets. White star-shaped flowers resemble somewhat *Jasminum grandiflorum* but are smaller and thinner. Needs rich soil and regular watering, sun or partial shade. May suffer from drought.
Use: Trellis, walls, eventually in partial shade, needs some shaping to control growth.

130





Jasminum grandiflorum
Spanish Jasmine, White Jasmine

ياسمين ابيض



climbs up to 5m
 Semi-evergreen vine with pendulous branches and glossy leaves with 5-7 leaflets ab. 3cm long, the terminal leaflet longer. White, fragrant flowers ab. 4cm across bloom all summer. Rapid growth, regular garden soil, some watering, sun or partial shade. Dry flowers stay on plant.
 Use: In patios or around seating areas for its fragrant flowers, also at fences, walls, rails.



ياسمين

Jasminum officinale
Common White Jasmine

climbs up to 8m
Semi-evergreen vine with dark green leaves divided into three leaflets. White star-shaped flowers resemble somewhat *Jasminum grandiflorum* but are smaller and thinner. Needs rich soil and regular watering; sun or partial shade. May suffer from drought.
Use: Trellis, walls, eventually in partial shade, needs some shaping to control growth.





Lonicera japonica
Japanese Honeysuckle

ياسمين عراقي



climbs up to 5m

Evergreen vine with deep green, oval, pointed leaves. White, purplish tinged flowers with sweet scent in late spring and summer. Fast growing, fairly drought resistant, full sun to partial shadow, tolerates poor drainage. When not curbed can become weed.

Use: Screens on chain-link and wire fences, privacy screens, ground cover and erosion control. Attractive in full bloom.



Lonicera sempervirens
Trumpet Honeysuckle

ياسمين عراقي

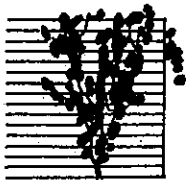
climbs up to 4m
Evergreen, twining vine, becoming shrubby without support. Oval, pointed leaves are ab. 4cm long. Trumpet-shaped, showy, orange to scarlet flowers are unscented, appear in clusters. Slow growth, average soils, fairly drought resistant, full sun to partial shadow.
Use: Pergola, flowering screen, ground cover. Showy in full bloom.





Passiflora incarnata
Passion Flower, Maypop

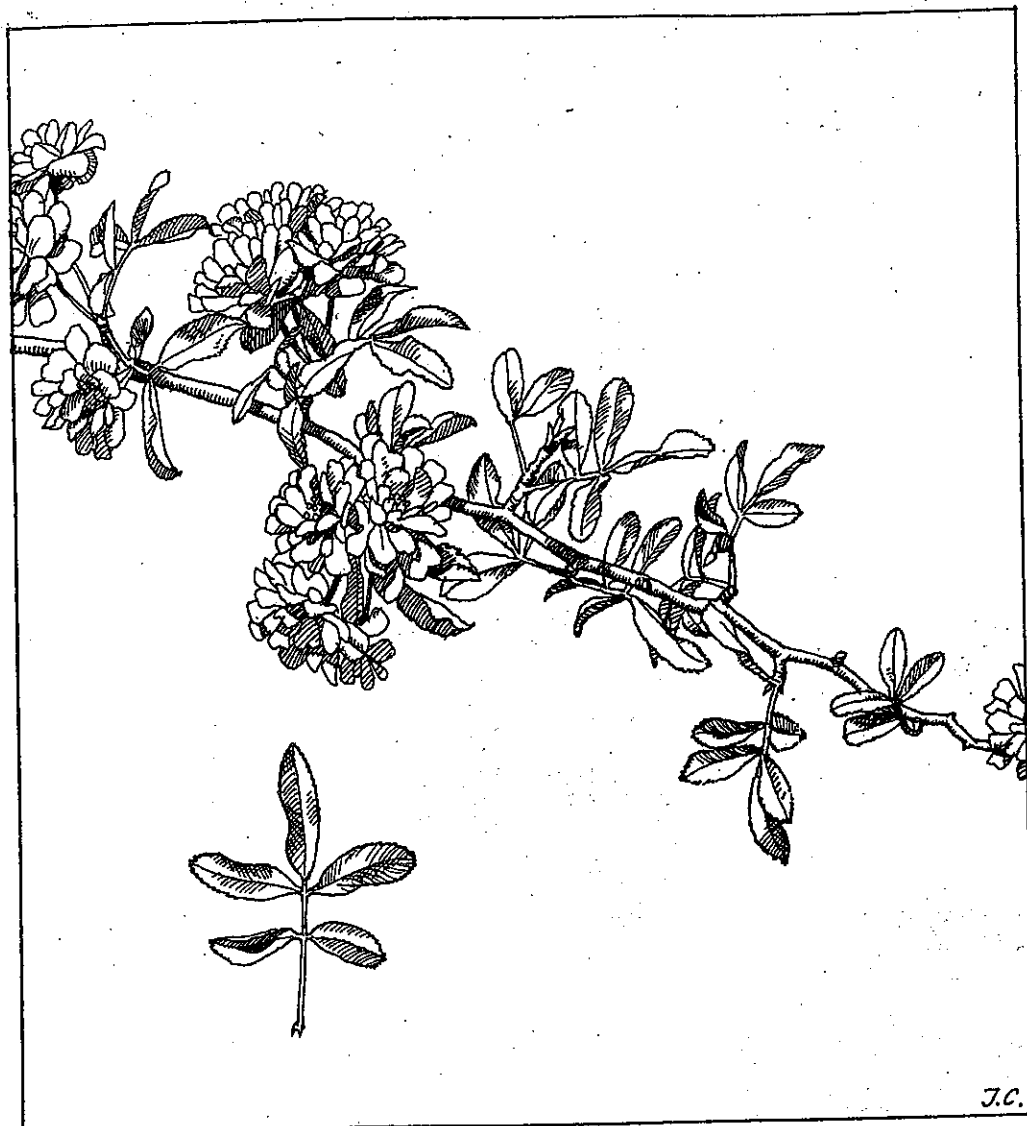
ساعة



climbs up to 10m

Perennial vine that climbs by tendrils and spreads by root runners. Deeply lobed, palmate leaves ab. 10cm across. Interesting flowers, white with purple, ab. 8cm diameter. Fruits yellowish-green, edible. Vigorous growth, prefers full sun, tolerates any soil, needs average water, dies back after exposure to frost, tends to overgrow and entangle.

Use: Trellis, wall-cover, also as bank cover.



Rosa banksiae
Lady Banks' Rose

روزا بنکسیا

climbs up to 6m
Evergreen climbing rose with small, dark green, glossy and leathery leaves with 3-5 leaflets. Flowers are small, yellowish-white, in clusters, occurring in late spring. Vigorous grower, prefers richer soils and some watering, relatively hardy species.
Use: At fences, banks, on trellis or hanging over walls.

134





Senecio macroglossus
Wax Vine

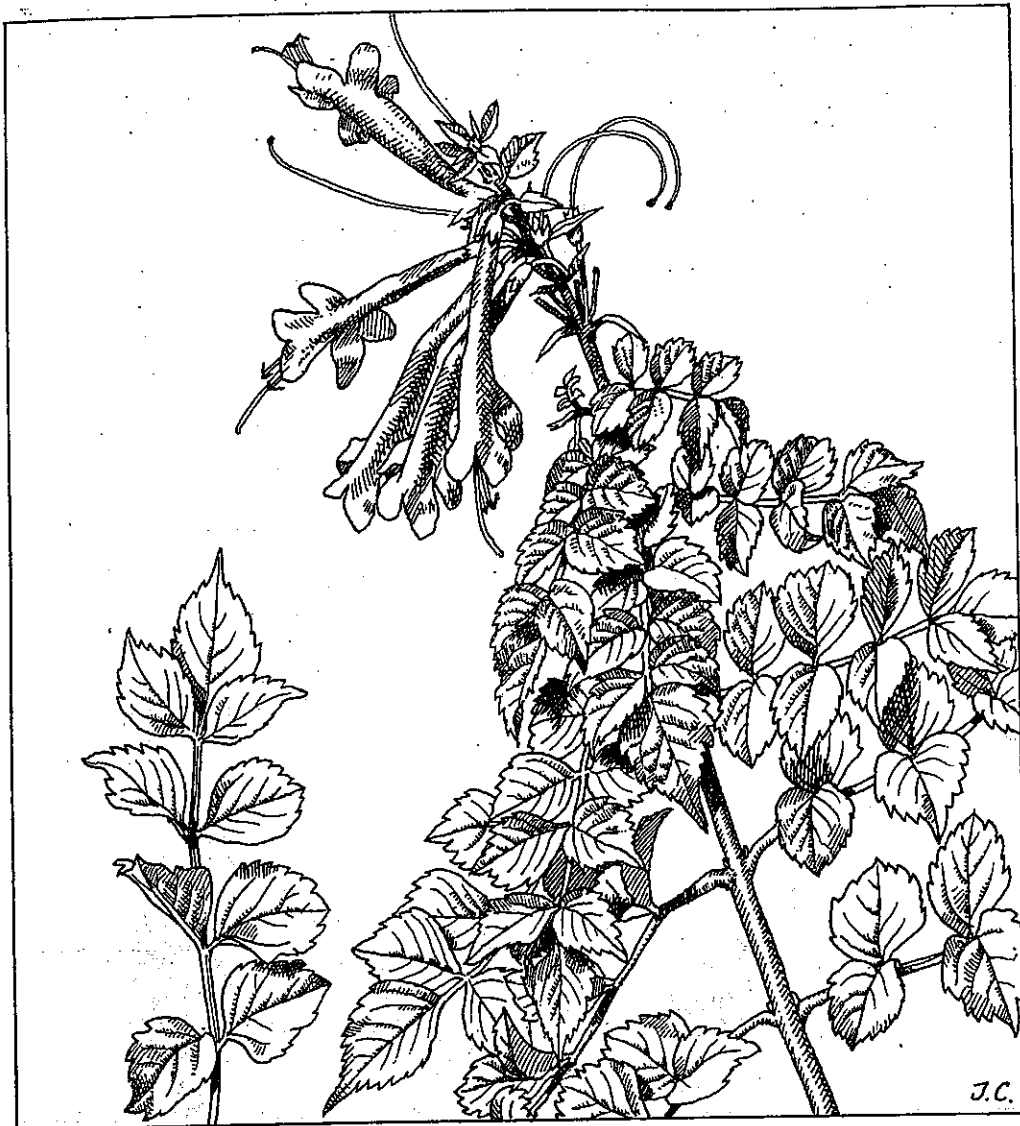
سنيسيو



climbs up to 4m

Evergreen vine with succulent stems and thick, waxy, slightly lobed leaves, ab. 5cm across. Yellow flowers appear in loose clusters. Fast growth, tolerates desert climate but prefers northern or eastern exposure. Infrequent watering. Can be grown in containers indoors.

Use: Good vine for northern walls in hot climate, though not too dense. Also pendulous from a balcony container.



Tecomaria capensis
Cape Honeysuckle

تکوماریا

climbs up to 8m
Evergreen vine with upward growth. Has dark green, glossy, compound leaves with 9-11 leaflets ab. 4cm across. Showy orange-red, tubular flowers in clusters, blossom late in the season. Fast growth, needs to be supported, prefers full sun or light shade, drought resistant when established, wind resistant.
Use: Espaliers, barrier hedge, also on slopes as bank cover. Nice flower effect.



DECIDUOUS VINES



Campsis radicans / *Bignonia radicans* /
Common Trumpet Vine

بجنونيا

climbs up to 10m
Deciduous vine clinging to various surfaces by aerial rootlets. Compound leaves with 9-11 toothed and pointed leaflets, ab. 6cm long, bright green. Very attractive, ab. 8cm long, orange-scarlet trumpet-like flowers in clusters. Fast growing, vigorous climber, needs average watering, prefers full sun, spreading by root suckers.
Use: Healthy climber with attractive flowers for walls, trellis, also as flowering hedge.





Parthenocissus quinquefolia
Virginia Creeper

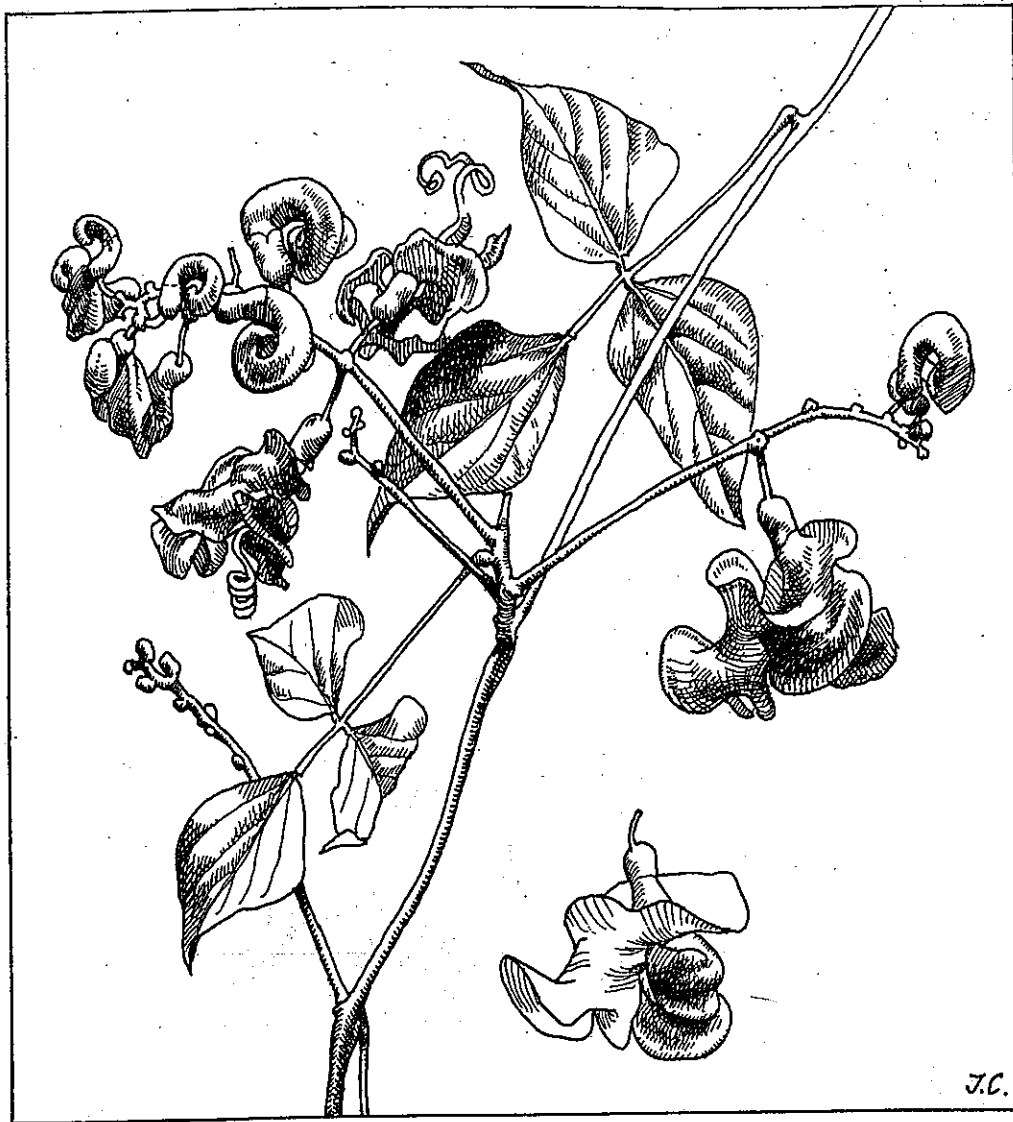
مخمسة



climbs up to 10m

Deciduous vine with vigorous growth, clinging to walls by sucker discs at ends of tendrils. Leaves are composed of 5 leaflets, each ab. 10-15cm long, pointed, with toothed margin. Leaves turn orange to scarlet in fall. Fast growth. Full sun or full shade, rather adaptable. Needs watering. Difficult to remove when grown on house wall.

Use: Vigorous vine for walls, fences, trellis. Also good ground cover on slope and for erosion control.

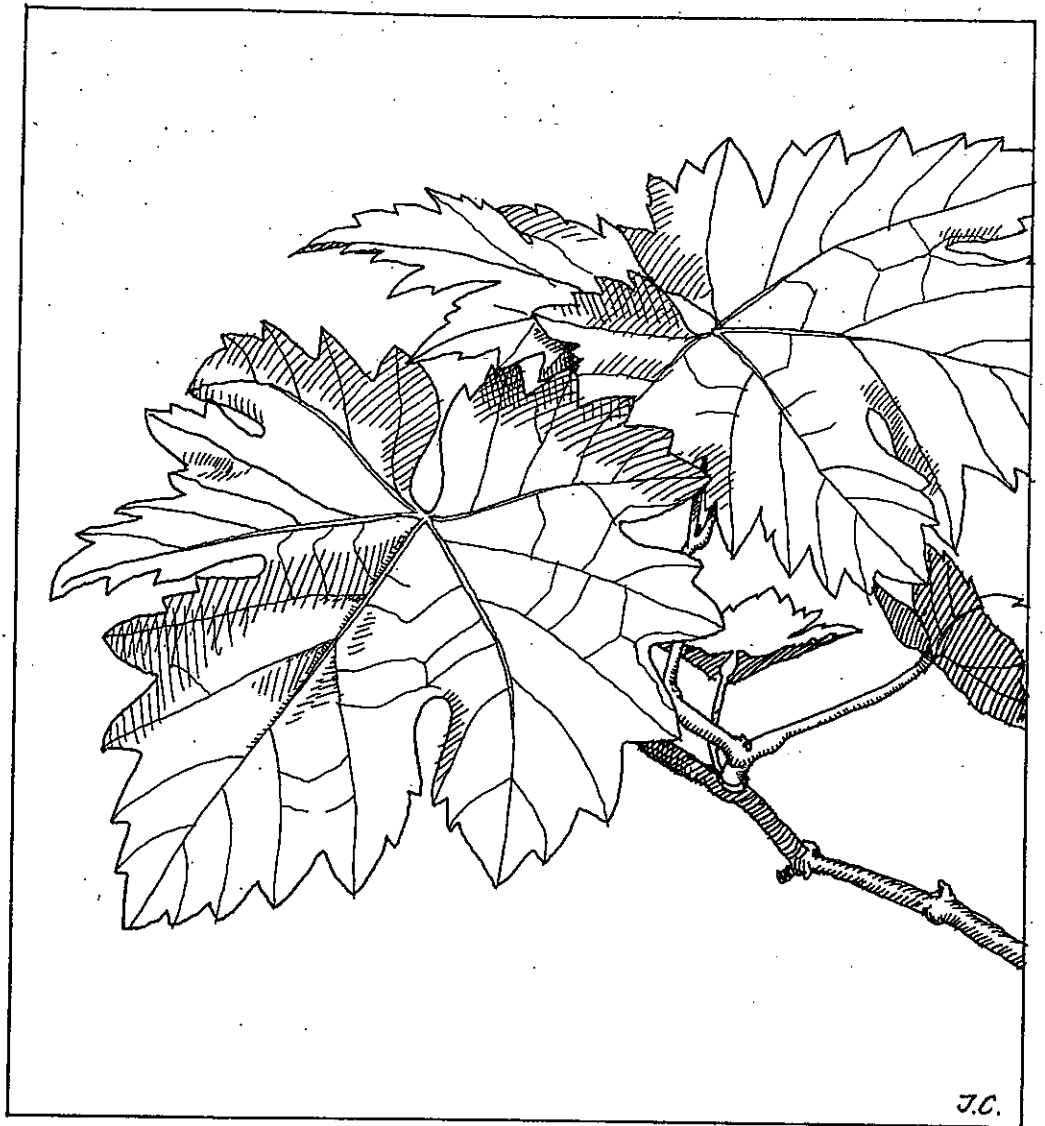


Vigna caracalla
Snail Vine

حلزون

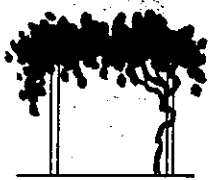
climbs up to 8m
 Perennial vine with trifoliate, bright green leaves. Flowers are twisted /hence the name/, cream-coloured with red marks, slightly fragrant, appearing in spring and summer. Prefers full sun, rich soil and watering.
 Use: Rich foliage covering extensive areas of walls, odd looking, interesting flowers make it an attractive vine.





Vitis vinifera
Grape

عنب



climbs up to 6m
Deciduous vine with intricate branch pattern and broad, palmate leaves with toothed margin, ab. 15cm across. Fruits are large, juicy, edible berries in dense, hanging clusters, green or red. Fast growing, producing enough new growth every year to cover a pergola. Prefers warm climate, full sun, tolerates drought but grows faster with some watering, adapted to variety of soils. Use: Planted mainly for edible grapes but also very successful for shade on trellis or pergola. Complicated branch pattern interesting in winter.



Wisteria sinensis
Chinese Wisteria

وستيريا

climbs up to 10m
 Deciduous, woody vine of large size. Compound leaves with pointed, ab. 8cm long leaflets. Spectacular, violet-blue, slightly fragrant, pea-shaped flowers in long, hanging clusters. Young plants need watering and feeding, older plants less demanding. Not particular about soils, sensitive to frost and wind, needs protected location. Pruning important for bloom production. Long lived plant. Use: Spectacular, flowering vine for trellis, patio, house wall. Can be also trained as multistemmed, weeping tree.



Short Bibliography:

- Adams, Robert and Marina Adams: Making the Desert Bloom. The Architectural Review, Vol.161, No.964, London, June 1977
- Adams, Robert, Marina Adams, Alan Willens, Ann Willens: Dry Lands, Man and Plants, London 1978
- Ali, Timothy Cochran and Jane Brown: Landscape Design for the Middle East, London 1978
- Arthurs, Kathryn L. /editor/: Lawns and Ground Covers, Menlo Park /Sunset Books/, 1980
- Berall, Julia S.: The Garden, An Illustrated History, Harmondsworth /Penguin Books/, 1978
- Clark, David E. /editor/: New Western Garden Book, Menlo Park /Sunset Books/, 1979
- Dickson, Violet: The Wild Flowers of Kuwait and Bahrain, London 1955
- Kelly, Kathleen and R.T. Schnadelbach: Landscaping the Saudi Arabian Desert, Philadelphia 1976
- Nehmé, Moustapha: Fleurs sauvages du Liban, Beirut 1977
- Lipscombe Vincett, Betty A.: Wild Flowers of Central Saudi Arabia, Milan 1976
- Noailles, Le Vicomte de and Roy Lancaster: Mediterranean Plants and Gardens, Nottingham 1977
- Polunin, Oleg and Anthony Huxley: Flowers of the Mediterranean, London 1965 /German edition: Blumen am Mittelmeer, München 1974/
- Post, George E.: Flora of Syria, Palestine and Sinai, Beirut 1932
- Sfikas, George: Bäume und Sträucher Griechenlands, Athens 1978
- Zohary, Michael: Flora Palaestina, Jerusalem 1966
- Zohary, Michael: Geobotanical Foundations of the Middle East, Amsterdam 1973
- Zohary, Michael: Plant Life of Palestine, New York 1962

Index

Abutilon hybridum	75	California Privet	112
Acacia cyanophylla	21	Calycotome villosa	109
Acacia dealbata	22	Campsis radicans	132
Acacia farnesiana	38	Cape Honeysuckle	130
Acer pseudoplatanus	39	Cape Plumbago	98
Aesculus hippocastanum	40	Carob	24
Ailanthus altissima	41	Carpobrotus edulis	80
* Albizzia julibrissin	42	Castor Bean	101
Aleppo Pine	14	Casuarina equisetifolia	23
Algerian Ivy	122	Cedar, Atlas	10
Almond	69	Cedar, Western Red	16
Annona cherimola	59	Cedrus atlantica	10
Apple	65	Ceratonia siliqua	24
Apricot	70	Cercis siliquastrum	44
Arabian Jasmine	88	Cestrum nocturnum	81
Araucaria excelsa	9	Cherimoya	59
Arbovitae	15	China-Berry	43
Arbutus andrachne	76	Chinese Tamarisk	36
Arizona Cypress	11	Chinese Wisteria	136
Atlas Cedar	10	Citrus aurantifolia	61
Australian Pine	23	Citrus limon	60
		Citrus maxima	61
		Citrus nobilis	61
		Citrus paradisi	61
Banana Tree	67	Citrus sinensis	61
Barberry	108	Common Jasmine	124
Bauhinia variegata	43	Common Lilac	119
Berberis thunbergii	108	Common Pear	73
Bignonia radicans	132	Common Trumpet vine	132
Bird of Paradise Bush	79	Conifers	8
Black Locust	53	Coral Tree	45
Black Mulberry	66	Cotoneaster horizontalis	82
Blue Leaf Wattle	21	Crape Myrtle	29
Bougainvillea spectabilis	121	Crataegus aronia	110
Boxwood	78	Creeper, Virginia	133
Buddleia davidii	77	Cupressus glabra	11
Butterfly Bush	77	Cupressus sempervirens	12
Buxus microphylla japonica	78	Cypress	11,12
Caesalpinia gilliesii	79	Date Palm	16
California Fan Palm	19	Deciduous shrubs	107

Deciduous trees	37	Hedera helix	122
Deciduous vines	131	Hibiscus rosa-sinensis	86
Delonix regia	46	Hibiscus schizopetala	87
Dodonaea viscosa	83	Holly oak	34
Duranta erecta	84	Honeysuckle	125
Dusty Miller	104	Honeysuckle, Cape	130
Edible Fig	63	Hopseed Bush	83
Elderberry	116	Horizontal Cypress	12
English Ivy	122	Horse Chestnut	40
Eriobotrya japonica	62	Hydrangea hortensis	111
Erythrina caffra	45	Ice Plant	80
Eucalyptus camaldulensis	25	Italian Cypress	12
Euonymus japonica	85	Jacaranda acutifolia	47
Europæan Elder	116	Japanese Barberry	108
Evergreen Euonymus	85	Japanese Boxwood	78
Evergreen shrubs	74	Japanese Honeysuckle	125
Evergreen trees	20	Japanese Pagoda Tree	55
Evergreen vines	120	Jasmine	88, 89, 123, 124
Ficus carica	63	Jasminum grandiflorum	123
Ficus elastica	26	Jasminum officinale	124
Ficus nitida	27	Jasminum primulinum	88
Fig	63	Jasminum sambac	89
Fl	89	Jerusalem Thorn	49
Firethorn	99	Jessamine	81
Flamboyant	46	Judas Tree	44
Flowering Maple	75	Juglans regia	64
Fruit trees	58	Jujuba	57
Geranium	25	Juniper	13
Glossy Privet	31	Juniperus chinensis pfitzerana	13
Grape	135	Lady Banks' Rose	128
Grapefruit	61	Lagerstroemia indica	29
Green Wattle	22	Lantana camara	90
Grevillea robusta	28	Laurel	30
Guava	71	Laurel Fig	27
Gum, Red	25	Laurus nobilis	30
Hawthorn	110	Laurustinus	106
Hedera canariensis	122	Lavandula augustifolia	91
		Lavender	91
			145

Lavender Cotton	103
Lemon	60
Ligustrum japonicum	92
Ligustrum lucidum	31
Ligustrum ovalifolium	112
Lilac, Common	119
Lilac, Summer	77
Lime	61
Live oak	33
Lombardy Poplar	52
Lonicera japonica	125
Lonicera sempervirens	126
Loquat	62
Magnolia grandiflora	32
Malus sylvestris	65
Maple	39
Maypop	127
Melia azedarach	48
Mimosa	21
Morus nigra	66
Mulberry	66
Musa paradisiaca	67
Myoporum laetum	93
Myrobalan	56
Nerium oleander	94
Night Jessamine	81
Norfolk Island Pine	9
Oak	33, 34
Olea europaea	68
Oleander	94
Olive	68
Orange	61
Orchid Tree	43
Oriental Arbovitae	15
Oriental Plane	51
Pagoda Tree	55
Palestinian Live Oak	33

Palms	17
Parkinsonia aculeata	49
Parthenocissus quinquefolia	133
Passiflora incarnata	127
Passion Flower	127
Pear	73
Pelargonium domesticum	95
Pelargonium graveolens	96
Pepper Tree	35
Pfitzer Juniper	13
Phoenix dactylifera	18
Pine, Aleppo	14
Pine, Norfolk Island	9
Pinus halepensis	14
Pistachio	50
Pistacia atlantica	50
Pittosporum tobira	97
Plane	51
Platanus orientalis	51
Plumbago capensis	98
Poinciana	79
Poinciana, Royal	46
Polyantha Rose	115
Pomegranate	72
Pomelo	61
Poplar	52
Populus nigra italica	52
Primrose Jasmine	88
Privet	31, 92, 112
Prosopis farcta	113
Prunus amygdalus	69
Prunus armeniaca	70
Psidium gaujava	71
Punica granatum	72
Pyracantha coccinea	99
Pyrus communis	73
Quercus calliprinos	33
Quercus ilex	34
Red Cedar	16

Red Gum	25
Redbud	44
Regal Geranium	95
Retama raetam	100
Ricinus communis	101
Robinia pseudoacacia	53
Rock Cotoneaster	82
Rosa banksiae	128
Rosa grandiflora	114
Rosa polyantha	115
Rose	114
Rosemary	102
Rosmarinus officinalis	102
Royal Poinciana	46
Rubber Plant	26
Salix babylonica	54
Santolina chamaecyparissus	103
Sambucus nigra	116
Scarlet Wisteria	117
Scented Geranium	96
Schinus molle	35
Senecio cineraria	104
Senecio macroglossus	129
Sesbania tripetii	117
Silk Oak	28
Silk Tree	42
Sky Flower	84
Smooth Arizona Cypress	11
Snail Vine	134
Sophora japonica	55
Spanish Jasmine	123
Spiraea vanhouttei	118
St. John's Bread	24
Strawberry Tree	76
Summer Lilac	77
Sweet Bay	30
Sweet Orange	61
Sycamore	51
Sycamore Maple	39
Syringa vulgaris	119

Tamarisk	36
Tamarix chinensis	36
Tangerine	61
Tecoma stans	105
Tecomaria capensis	130
Terminalia catappa	56
Thuja orientalis	15
Thuja plicata	16
Tobira	97
Tree of Heaven	41
Trumpet Flower	105
Trumpet Honeysuckle	126
Trumpet Vine, Common	132
Trumpet Vine, Yellow	105
Viburnum tinus	106
Vigna caracalla	134
Virginia Creeper	133
Vitis vinifera	135
Walnut	64
Wattle	21
Washingtonia filifera	19
Wax Vine	129
Waxleaf Privet	92
Weeping Willow	54
Western Red Cedar	16
White Broom	100
White Jasmine	123
Wild Pistachio	50
Willow	54
Wisteria, Scarlet	117
Wisteria sinensis	136
Yellow Jasmine	88
Yellow Trumpet Flower	105
Zizyphus spina christi	57

١٠٥	تكومــــا	٧٥	أبو تيلــــيون
١٣٠	تكومــــا	٧٣	اجــــاص
٩٧	تويــــرا	٧٦	أريوتــــس
٦٦	تــــوت	١٠	أرز
١٥٠١٦	تويــــا	٩	أروكارــــيا
٦٣	تيــــن	٧٥	أريثرنــــيا
		٣٩	أســــر
٢٨	جرافيلــــيا	٦٢	أسكاد ينيــــا
٩٥	جرانــــوم	٤٠	أسكلــــوس
٨٦	جــــرس	٤٢	البيزيــــا
٤٧	جكارنــــدا	٩٠	أم كلثــــوم
١٣	جنبيــــر	٤١	أيلنــــش
٧٢	جوافــــه		
٦٤	جــــوز	١٣٢	بجنونيــــة
		١٠٨	بريــــرس
١٠٢	حصالبــــان	٦١	برتقــــال
١٣٤	جلــــزون	٤٩	بركسونيــــا
٥٢	حــــور	٩٣	بنزوميــــا
		٥٠	بطــــم
٢٤	خــــروب	٧٨	بكمــــوس
١٠١	خــــروع	٣٤	بلــــوط
٤٣	خف الجمل	١١٦	بيلســــان
٨٤	درانتــــا	٦٥	تفــــاح

٥١	شَنَار	١١٠	دوم
١٠٣	شِيح	٨٣	ديدونيا
		٤٦	ديلونكس
٥٤	صَفَاف		
١٤	صَنَوِيَر	١٠٠	رتيم
٥٥	صَوَورَا	٧١	رمان
		٣٠	رندا
٧٧	ظرف العروس	٥٣	روينيا
		١٢٩	روزا بنكسيبا
٧٩	عصفور الجنة	٩٦	ريحان
١٣٥	عَنَب		
		٩٩	زعرور
٣٠	غَار	٤٨	ززلخت
		٦٨	زيتون
٨٩	فَل	٥٧	زيزفون
٣٥	فَلْفَل		
١٠٦	فَبِيرَنَم		
٢٧	فِيكْسَس	١٢٧	ساعة
		١١٨	سبيريا
٥٩	قَشَطَه	٤٤	سرسس
١٠٩	قَنَدُول	١١٠١٢	سرو
		١١٧	سزانيا
٢٣	كَازورِنَا	٢٨	سنديان
٢٥	كَافُور	١٠٤٠١٢٩	سينسيو

٨٧	هيبسكيس	٢٦	كاوشوك
١٢٢	هيدرة	٨٢	كوتياستر
١١١	هيدرنجيا	٨١	كولونيا
		٢٥	كينيا
١١٤ ٥ ١١٥	ورد		
٩٤	وردة الحمير		
١٣٦	وستيريا	٩١	لافندر
١٩	وشتونيا	٣١ ٥ ١٢ ٥ ١١٢	لجسترم
		٢٩	لجسترونيا
١٢٤	ياسمين	٦٩	لوز
١٢٣	ياسمين أبيض	٥٦	لوز هندي
٩٨	ياسمين أزرق	٨١	ليلك
٨٨	ياسمين أصفر	٦٠	ليمون
١٢٥ ٥ ١٢٦	ياسمين عراقي		
١١٣	يمبوث	٣٢	مجنوليا
		١٢١	مجنونيه
		١٣٣	مخمسه
		٨٥	مرجان
		٧٠	شمس
		٦٧	موز
		٨٠	موس الحلاق
		١٨	نخله