PLANTS AND PLANTING IN MEDITERRANEAN LANDSCAPES

(VOLUME 1)

Editors

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Chapter 5

SHRUBS

Subchapter 5.1 Introduction **Subchapter 5.2** Species

Subchapter 5.3 Commercialization, use and planting

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Subchapter 5.1

Introduction

Shrubs in gardening terms, refers to all woody plants with multiple or very short trunks and that measure between one and three meters. Smaller plants of this type are referred to as bushes.

Shrubs play an intermediate role between trees (volumes) and herbaceous plants (ground cover). They act on a more human scale and with their masses and groupings they can also add volume to areas and scenes in the garden. They are useful for establishing successive planes, layers, or levels in the green component of a park or a garden; they serve to conceal areas, limit others, or impede access to certain places without obstructing vision. Shrubs can also cover slopes and are frequently used to draw attention to a certain point or to break the monotony of a landscape.

Shrubs can provide privacy to an area or corner of the garden, or block unwanted views such as service areas, garbage containers, etc. Tall bushes can provide a background for planting beds and other plants of medium and small sizes.

By planting two tall shrubs or adequately arranging several of them, it is possible to frame and add perspective to an area and give it visual importance.

When choosing the right kind of shrub, the landscape architect needs to ask these four questions: Where? Why? When? Which one? The location, function, and season in which one species could be more spectacular than another is essential to improve the effects, arguments and purpose of the design.

The list of shrub species is very extensive, and their ornamental characteristics are varied: there are deciduous, evergreen, ornamental for their foliage, their flowers or their fruits, acidophilic and resistant to lime, and there are those adapted to very different ecological situations.

Shrubs provide the garden with its general shape and constitute the framework where the rest of the plants are located. Their functions in the garden are multiple, providing elements of separation and offering the advantages of evergreen plants, seasonal metamorphosis with a variety of colors in the case of deciduous shrubs, and a wide range of shapes and fragrances.

The arrangement of shrubs in the garden requires the application of compositional criteria that combine the different forms, masses, foliage, colors, of distinct shrub species.

By searching for the right harmony with shapes and colors or by contrasting them, an intelligent compositional use of shrubs will give rise to splendid results, provided that the set is not overloaded with an excess of species and/or the planting becomes too dense.

Care must be taken with the original habitat of each species and the ecological and cultural needs that derive from it. For example, rose bushes do not have the same requirements in terms of soil or lighting as azaleas do.

The choice of species is also related to the times of the year in which the garden is going to be used. For instance, if, in public parks, a green zone is to be in continuous use during the winter, evergreen species should be used more abundantly.

There are big shrubs such as *Prunus laurocerasus* that, due to their size, should be isolated. In other species such as *Nerium oleander*, *Pyracantha coccinea* or *Cotoneaster spp.*, their flowers and fruits and other special characteristics make them worthy of being planted individually or in monovarietal groups.

On other occasions, certain species of shrubs with lesser individual importance can play a positive role as part of a mixed groups as long as they meet the aforementioned criteria.

In a private and small garden, a single specimen of *Jasminum mesnyi* can offer a sufficiently expressive mass and color effect. However, in a large public park the sense of scale makes it necessary to group five, ten or more specimens so that they can be properly perceived by the observer at a medium or long distance. This group of plants will seem like one single large specimen with the typical characters of the species.

Another aspect to consider in the use of shrubs for landscape purposes is the formation of the undergrowth. When a grove is established, an intermediate plant layer must be created that gives support to the tree layer by offering a transition between the herbaceous plants and ground covers, and the crowns of the trees.

Some shrubs thrive well when grown in flower boxes or decorative containers and placed on patios, terraces, pool areas, etc... Some species belonging to *Viburnum, Escallonia, Mahonia, Euonymus* are commonly used for these purposes.

Shrubs can also serve as windbreakers by acting as a type of shield against cold winds. This is achieved by forming masses of medium to high shrubs that use their foliage as protection (*Myoporum*, *Pittosporum*, *Cornus*). They can also offer an interesting and decorative flowering (*Hibiscus*, *Nerium*, *Ficus*).

A practical detail when planting to achieve an appearance of a certain maturity in a newly planted garden is to include among the shrub specimens a certain number that have reached already half their development.

Subchapter 5.2

Species

This subchapter outlines **51** species of shrubs used in landscape design. They have been selected primarily for their ornamental use, botanical interest, or other characteristics. As a result, an in-depth analysis is carried out in this subchapter.

Firstly, a table shows the different parameters and values that have been used to describe each species in its specific botanic datasheet.

Each sheet gathers the information of a certain shrub species and describes its botanical and ecological aspects, uses, cultivation, and other characteristics of interest, including its commercialization. This information is complemented by photographic information, which shows the general appearance of the shrub species and different morphological details.

PARAMETERS AND VALUES	USED FOR THE BOTANIC DATASHEET
TAXONOMY	
TAXONOMIC RANKS	DIVISION, SUBDIVISION, TYPE, ORDER, FAMILY
VARIETIES	VARIETIES OF INTEREST
STRUCTURE	
SHAPE	GLOBE-SHAPED/ROUND, OVAL, COLUMNAR, CONE, EXTENDED, IRREGULAR, PARASOL, FAN-SHAPED, HORIZONTAL, PALMIFORM, PENDULAR
HEIGHT	AS APPROPRIATE- IN METERS (M) OR CENTIMETERS (CM)
DIAMETER	AS APPROPRIATE -IN M OR CM
TEXTURE	TEXTURE: LEAVES>10CM= COARSE. LEAVES OR LEAFLETS BETWEEN 2-10CM= MEDIUM. LEAVES OR LEAFLETS <2CM= FINE
SHADE	FULL, PARTIAL
ROOT	TAPROOT, FASCICULATE, OBLIQUE, HORIZONTAL, AERIAL, ADVENTITIOUS
MORPHOLOGY	
TRUNK	
BARK	SMOOTH, VERTICAL FISSURES, LONGITUDINAL FISSURES, DIAGONAL FISSURES; ROUGH, SCALY, CORKY WITH PLATES
COLOR OF BARK	GREYS, GREENISH GREY OR BLUISH GREY. SILVER; LIGHT GREEN, YELLOWISH, LIGHT BROWN, DARK, GREENISH, RED, REDDISH, PURPLE, YELLO,; BLACKISH, MARBLED, TWO-TONED, THREE-TONED, LIGHT GREY, DARK GREY
FOLIAGE	
LEAF TYPE	EVERGREEN, DECIDUOUS, SEMI-DECIDUOUS OR SEMI-EVERGREEN
LEAF SIZE	LENGTH (cm)
SIZE OF LEAFLET	LENGTH (cm)
COLOR OF UPPER SIDE (US)	PALE GREEN, LIGHT GREEN, DARK GREEN, BLUE/GREEN, GREY, PURPLE; PALE; YELLOW; VARIEGATED
COLOR OF LOWER SIDE (LS)	PALE GREEN, LIGHT GREEN, DARK GREEN, BLUE/GREEN, GREY PURPLE; PALE; YELLOW; VARIEGATED; RUST COLORED; SILVER
TEXTURE OF UPPER SIDE (US)	GLOSSY, ROUGH, GLABROUS, TOMENTOSE, HAIRY, ROUGH, SCALY, VISCOSE
TEXTURE OF LOWER SIDE (LS)	GLOSSY, ROUGH, GLABROUS, TOMENTOSE, HAIRY, ROUGH, SCALY, VISCOSE
COMPOUND LEAF	NO COMPOUND LEAVES YES. IMPARIPINNATE, PARIPINNATE, TRIFOLIATE, PALMATE, PALMIFORM, PALM, PINNATE, BIPINNATE
HARDNESS	CORIACEOUS, SOFT, SUCCULENT, HARD
ARRANGEMENT	OPPOSITE, ALTERNATE, WHORLED, ROSETTE
VENATION	PINNATE, PALMATE, PARALLEL, RETICULATE, ARCUATE, A3 MAIN VEINS
LEAF SHAPE	ROUNDED, LINEAR, LANCEOLATE, FALCATE, OVAL, OBLONG, ELLIPTIC, DELTOID, RHOMBOID, SPATU- LATE, ACICULAR GROUPS OF 2, ACICULAR GROUPS OF 3, ACICULAR GROUPS OF 5, ACICULAR GROUPS, ACICULAR IN 1 PLANE, ACICULAR IN SPIRAL, SCALE, PALMATE 7 LOBES, PALMATE 5 LOBES- PALMATE 3 LOBES, POLYMORPHIC, PANDURIFORM, PINNATIFIDA, SAGITATE, RENIFORM, CORDATE, ORBICULAR, OBOVATE, OBLANCEOLATE, LIRATE, HASTATE, RUNCINATE
LEAF MARGIN	ENTIRE, CILIATE, DENTATE, CRENATE, SERRATE, DOUBLY SERRATE, LOBED DOUBLE LOBED
APEX	ACUTE, CUSPIDATE, OBTUSE, RETUSE, MUCRONATE

LEAF BASE	ATTENUATE, CORDATE, ROUNDED, CUNEATE, OBLIQUE, SAGITATE, AURICULATE, HASTATE, ASYMMETRIC
PETIOLE	LONG, SHORT, SESSILE, WIDE
FLOWER	
SIZE	HERMAPHRODITE (OR MALE/FEMALE FLOWERS): CM OR MM
TYPE	UNISEXUAL, HERMAPHRODITE
REPRODUCTION	MONOECIOUS, DIOECIOUS, HERMAPHRODITE, POLYGAMY, SYNOICOUS, STERILE
FLOWERING	SOLITARY, INFLORESCENCE IN CORYMB, IN CYMOSE, IN RACEME, IN SPIKE, IN UMBEL, IN CATKIN, IN SPADIX, IN FLORET OR CAPITULUM, IN PANICLE (+ INFLORESCENCE SIZE (IN CM OR MM))
FRAGRANCE	YES, NO, UNPLEASANT
FRUIT	
SIZE	IN CM OR MM
ТҮРЕ	FOLLICLE, PLURIFOLLICLE, LEGUME, LOMENT, SAMARA, DOUBLE SAMARA, PLURISAMARA, CAPSULE; ACHENE, TETRACHENE, POLYACHENE, NUT, ACORN, SYCONIUM, HESPERIDIUM, SOROSIS, BERRY; RACEME, POME, BALAUSTA, DRUPE, STROBILUS, PSEUDO STROBILUS, CONE, UTRICLE
EDIBLE FRUIT	YES, NO
COLOR	RED, GREEN, YELLOW, BROWN, BLACK, PALE, WHITE, PURPLE
FRUITING SEASON	INTERVAL OF MONTHS: JAN, FEB, MAR, APR, MAY, JUN, JUL, AGO, SEP, OCT, NOV, DEC
DEVELOPMENT	
GROWTH	VERY SLOW, SLOW, MEDIUM, FAST, VERY FAST
LONGEVITY	<25 YEARS, 25 YEARS, 50 YEARS, 75 YEARS, 100 YEARS, 150 YEARS, 200 YEARS, 250 YEARS, 300 YEARS; >300 YEARS
ECOLOGY	
CLIMATE	
ALTITUDE	INTERVAL OF ALTITUDE / ELEVATION ABOVE SEA LEVEL
IRRIGATION	++HIGH, MODERATE, LOW, ++LOW (very low/low < 350 mm; Very high/high > 750 mm)
MINIMUM TEMPERATURE AND INTERNATIONAL CLASSI- FICATION	MINIMUM TEMPERATURES: DEGREES CELSIUS CLASSIFICATION ACCORDING TO EUROPEAN REGULATION: (SEE MAP) G2

EXPOSURE TO SUNLIGHT	FULL SUN, FULL-SHADE; PART SHADE, SHADE
DROUGHT RESISTANCE	YES, NO, MODERATE
RESISTANCE TO FROST	YES, NO, MODERATE
SOIL	
ОРТІМИМ РН	ALL TYPES. NEUTRAL, ACIDIC, BASIC OR ALKALINE (OR INTERVAL OF PH)
FERTILITY LEVEL	FERTILE, MODERATE, POOR
TEXTURE OF SOIL	SANDY, SILT OR LOAMY, CLAYEY, SANDY/LOAMY, CLAY LOAM, ALL TYPES
DRAINAGE	HIGH, MODERATE, LOW
RESISTANCE TO SALT	YES, NO, MODERATE
RESISTANCE TO LIME	YES, NO, MODERATE
USES	
RESISTANCES	
COASTAL	1 st LINE; 2 ND LINE, NO, MODERATE
RESISTANCE TO POLLU- TION	HIGH, MODERATE, LOW
RESISTANCE TO WIND	HIGH, MODERATE LOW
USE	
IN SLOPES IN LINES ON RIVERBANKS AS WIND BREAKERS IN HEDGES IN FIELD BORDERS IN GROUPS ISOLATED	YES, NO
SPACING	MINIMUM RECOMMENDED DISTANCE BETWEEN PLANTS: M; CM
PLANTING AND PLANT HEAL	тн
PLANTING AND PLANT HEALTH	
CALENDAR	
CHROMATIC CALENDAR	FOLIAGE, FLOWERING, FRUITING SEASON: the color white represented with grey or black cell
CULTIVATION CALENDAR	SOWING, PLANTING, PRUNING
TREATMENTS CALENDAR	FUNGICIDES, PESTICIDES, FERTILIZERS, HERBICIDES
COMMERCIALIZATION	
PRESENTATION	RD (BARE ROOT), CT (CONTAINER or POT (in liters), CE (ROOT BALL), CEY (ROOT BALL IN GYPSUM), ROOT BALL IN MESH
STEM GIRTH (TREES)	CM (usually measured at 1 meter above ground) or years
HEIGHT (SHRUBS, CONI- FERS AND PALMS)	СМ, М

LIST OF SHRUB SPECIES DESCRIBED

- 1. Abelia floribunda
- 2. Arbutus unedo
- 3. Atriplex halimus
- 4. Buddleia davidii
- 5. Buxus sempervirens
- 6. Callistemon citrinus
- 7. Callistemon speciosus
- 8. Capparis spinosa
- 9. Carissa macrocarpa
- 10. Cassia corymbosa
- 11. Cassia didymobotrya
- 12. Cestrum nocturnum
- 13. Chrysantemum frutescens
- 14. Cistus albidus
- 15. Coronilla valentina
- 16. Cotoneaster horizontalis
- 17. Cotoneaster pannosus
- 18. Cotoneaster salicifolius
- 19. Cytisus scoparius
- 20. Datura arborea
- 21. Datura sanguinea
- 22. Deutzia scabra
- 23. Echium fastuosum
- 24. Eleagnus pungens
- 25. Escallonia rubra
- 26. Euonymus japonicus

- 27. Genista monosperma
- 28. Hibiscus rosa-sinensis
- 29. Hibiscus svriacus
- 30. Jasminum officinale
- 31. Lantana camara
- 32. Laurus nobilis
- 33. Myoporum tenuifolium
- 34. Myrtus communis
- 35. Nerium oleander
- 36. Philadelphus coronarius
- 37. Photiniax fraseri
- 38. Pistacia lentiscus
- 39. Pittosporum tobira
- 40. Polygala Myrtifolia
- 41. Pyracantha coccinea
- 42. Rhamnus alaternus
- 43. Senecio petasitis
- 44. Senecio maritima
- 45. Solanum rantonnetti
- 46. Spartium junceum
- 47. Spirea x arguta
- 48. Syringa vulgaris
- 49. Teucrium fruticans
- 50. Viburnum tinus
- 51. Vitex agnus-castus

GROUPS: YES

WIND:

MODERAT

ISOLATED:

Abelia Abelia floribunda

ORNAMENTAL SHRUB SPANISH VALENCIAN Structure DIVISION: PHANEROGAMS VARIFTIES Shape Height Diameter SUBDIVISION: **ANGIOSPERMS** TYPE: DICOTYLEDONS Shade Root DIPSACALES Texture ORDER: MEDIUM ΡΑΡΤΙΔΙ SCATTERED FAMILY: CAPRIFOLIACEAE MORPHOLOGY Trunk Leaf HARDNESS SOFT EVERGREEN ARRANGEMENT: OPPOSITE SIZE: LEAF: 1.5-4 CN VENATION: PINNATE SHAPE OBLONG. COLOR: US: DK. GREEN MARGIN ENTIRE LS:SMOOTH APEX: SHARP EXTURE: US: SMOOTH LEAF BASE ACUTE LS: SMOOTH Type Reproduction Flower HERMAPHRODITE HERMAPHRODITE Flowering Fragrant NGLE/CLUSTERS Color Fruit ACHENE Edible Fruiting season SIZE Rate Longevity Growth MEDIUM 25 YEARS **ECOLOGY** Temperature Drought resistan Climate ALTITUDE: 200-800 Sun exposure Frost resistant IRRIGATION: MODERAT SUN/PARTIAL SHAD YES Texture Salt resistant Soil LOAMY/CLAYEY 6-7.5 Drainage Lime resistant FERTILITY: MODERAT MODERATE MODERATE/LOW USES Resistances Applications SLOPES YES HEDGE ROWS: NO RIVERBANKS: NO BORDERS: POLLUTION: MODERAT

POINTS OF INTEREST

Introduced in Europe in the middle of the 19th centry by the British diplomat Clark Abel -from whom it receives its name-, abelias are a clear example that excessive care is not always necessary to enjoy a truly beautiful plant. It is an evergreen shrunh s-semi-evergreen in cold areas with small oval leaves with a shiny upperside. It has arched branches that divide into smaller and more numerous ones. From June or July and until the arrival of the cold, the ends of these branches develop small white and pink funnel-like flowers that are sweetly scented.

SPACING: 1 M

PLANTING AND PLANT HEALTH

It tolerates areas of partial or light shade, but it grows better in sunny exposures, which is where it flowers profusely. It needs well-drained soil but with enough humidity in summer. Although it is not very demanding in terms of nutrients, it prefers lime soils where the proportions of organic matter are low. To obtain a compact or closed appearance, the main branches should be pruned to hall their length in winter or early spring. It is also advisable to eliminate damaged or diseased branches and those that are visibly aged.

CHROMATIC CALENDAR					
	F	oliage, Flowering	and Fruiting seas	son	
JAN FEB	MAR ABR	MAY JUN	JUL AUG	SEPT OCT	NOV DEC
		0.101.01			
		Cultivatio	n Calendar		
JAN FEB	MAR ABR	MAY JUN	JUL AUG	SEPT OCT	NOV DEC
X	XXXXXX				XXXX
Sowing Planting Pruning X					
		Treatmen	t Calendar		
JAN FEB	MAR ABR	MAY JUN	JUL AUG	SEPT OCT	NOV DEC
			\boldsymbol{H}		
Fungicides	Pestici	des	Fertilizers	<u> </u>	

COMMERCIALIZATION				
Presentation (L)	Height (cm)	Topiary shapes		
CT(5)	60-80			
CT(10)	80-100			
CT(30)	125-150			

Arbutus Arbutus unedo

ORNAMENTAL SHRUB

MADROÑO SPANISH

ARBORCER VALENCIAN STRAWBERRY TREE

ARBUSIE

Structure			
Shape	Height	Diameter	
OVOID	2.5-4 M	1.5-2.5 M	
Texture	Shade	Root	
MEDIUM	DENSE	FIBROUS	

DIVISION: SUBDIVISION: TYPE: ORDER: FAMILY: PHANEROGAMS
ANGIOSPERMS
DICOTYLEDONS
ERICALES
ERICACEAE

VARIETIES

COLOR:				
Т	runk			
	Leaf	COMPOUND:	NO	
Ι.	Leai	HARDNESS:	CORIACEOUS	
EVE	ERGREEN	ARRANGEMENT:	ALTERNATE	
SIZE:	LEAF: 4-11 CM	VENATION:	PINNATE	
		SHAPE:	OBLONG	
COLOR: U	IS: GREEN	MARGIN:	SERRATE	
L	S:DK/SMOOTH	APEX:	SHARP	
TEXTURE: U	s:SMOOTH	LEAF BASE:	ACUTE	
L	s:SMOOTH	PETIOLE:	SHORT	
EI	ower	Type	Reproduction	
"	OWEI	HERMAPHRODITE	HERMAPHRODITE	
SIZE:	FLOWER 0.6CM	Flowering	Fragrant	
	INFLOR: 5 CM	PANCILE	YES	
		Type	Color	
F	ruit	BERRY	RED/ORANGE	
		Edible	Fruiting season	
SIZE:	1.5-2.5 CM	YES	OCT	
G	rowth	Rate	Longevity	
L	OWLII	MEDIUM	50 YEARS	
	ECOLOGY			

	ECOLOGY				
Climate		Temperature	Drought resistant		
		-6°C,H4,Z6	MODERATE		
ALTITUDE:	100-1200	Sun exposure	Frost resistant		
IRRIGATION:	MODERATE	SUN/PARTIAL SHADE	YES		
0-:1		Texture	Salt resistant		
Soil		LOAMY/CLAYEY	MODERATE		
pH:	6-7.5	Drainage	Lime resistant		
FERTILITY:	MODERATE	MODERATE	MODERATE/LOW		

USES					
Resistances Applications			ations		
COASTAL:	2ND LINE	SLOPES:	NO	HEDGE ROWS:	NO
POLLUTION:	MODERATE	RIVERBANKS:	NO	BORDERS:	NO
WIND:	MODERATE	GROUPS:	YES	ISOLATED:	YES



POINTS OF INTEREST

Native to Southwest Ireland, Southwest Europe, and North Africa, in the Sclerophile forests. This is an outstanding specimen in the garden due to its ornamental value of its flowers and fruits. It is a hardy shurb and generally has a twisted trunk, branched at low height. The bark of the young species is reddish in color. Its fruit can be used to make jam and be fermented to obtain aguardiente. Its leaves can be used for tanning.

SPACING: 1.5 M

Topiary Shapes

PLANTING AND PLANT HEALTH

This species requires well drained soil and warm sites not exposed to dry winds. It can be propagated by seed and semi-ripe cuttings in late spring and summer. Its fruit is collected November/December. It can be cultivated into shrub or small tree form. It is recommended to let them grow to its natural size. It tends to branch from the base. This shrub tolerates pruning.

CHROMATIC CALENDAR

COMMERCIALIZATION

Presentation (L)

			Fo	oliage, Fl	owering	and Fruit	ing Seas	on			
JAN	FEB	MAR	ABR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC
			-	-	-	-	-				
				С	ultivatior	Calenda	ar				
JAN	FEB	MAR	ABR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC
						\blacksquare	$oldsymbol{\Pi}$				
Sowin	g	Plar	nting	P	runing	Х					
				Т	reatmen	Calenda	ar				
JAN	FEB	MAR	ABR	MAY	reatmen	Calenda JUL	ar AUG	SEPT	ОСТ	NOV	DEC
JAN	FEB	MAR	ABR					SEPT	ОСТ	NOV	DEC
JAN	FEB	MAR	ABR					SEPT	ОСТ	NOV	DEC
JAN		MAR	ABR	MAY	JUN		AUG	SEPT	ОСТ	NOV	DEC

CT(5)	60-80	
CT(10)	80-100	
CT(30)	125-150	

Atriplex Atriplex halimus

SALADOS SPANISH SALAT BLANC ORNAMENTAL SHRUB Structure DIVISION: PHANEROGAMS VARIETIES SUBDIVISION: ANGIOSPERMS Shape Height Diameter 2-3 M TYPE: DICOTYLEDONS Texture Shade Root ORDER: CARYOPHYLLALES MEDIUM DADTIA SCATTERIN FAMILY: CHENOPODIACEAE MORPHOLOGY Trunk COMPOUND: Leaf RANGEMENT: ALTERNATE SIZE: LEAF: 1-6 CM VENATION: PINNATE SHAPE OBLONG COLOR: US: GRAY MARGIN: ENTIRE APEX: ACUTE EXTURE: US: ROUGH LEAF BASE ACUTE LS : ROUGH PETIOI E SHORT Туре Reproduction Flower UNISEXUAI Туре Fragrant Type Color Fruit UTRICLE Edible ruiting seasor SIZE Longevity Growth ECOLOGY Temperature Drought resistan Climate -3°C.H5.Z6 MODERATE ALTITUDE: Sun Exposure IRRIGATION: MODERATE Texture Salt resistant Soil LOAMY Drainage Lime resistant FERTILITY: MODERATE MODERATE/HIGH MOD/LO

GROUPS: YES ISOLATED: YES

NC

POINTS OF INTEREST

Shrub 1 to 3 m tall and 3 m wide; leafy, with an extended and disorderly round shape, with a weak stem and numerous upright and silver-gray branches. It has an oblique and scattering root system. Its leaves are evergreen, alternate, entire or somewhat serrated, rhomboid-oval to oblong, with a short petiole and up to 6 cm long, with silver-gray scales. Its flowers are unisexual, greenish purple and very small. They are arranged in large diomerulous terminal, round and on aniculate clusters. Its fruits are bracteate utricle. Seeds are somewhat compressed.

SPACING: 0.80 M

PLANTING AND PLANT HEALTH

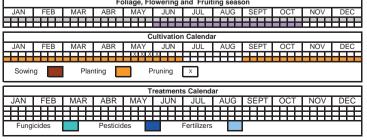
It is a temperate climate plant that tolerates light frosts and proximity to the sea. It is resistant to salty soils but needs to be well drained. It adapts to poor, sandy and dry soils. It is also drought resistar Requires moderate moisture, sunny lighting, and rejuvenation-only pruning, counting shoots in late spring and leaving only three buds from the ground to produce a glossy foliage.

CHROMATIC CALENDAR

COMMERCIALIZATION

Foliage, Flowering and Fruiting season

Presentation (L) Height



	Presentation (L)	Height	Topiary shapes
	CT(5)	60-80	·
	CT(10)	80-100	
	CT(30)	125-150	
ı			

Buddleia davidii **Buddleia** ORNAMENTAL SHRUB VALENCIAN STRUCTURE DIVISION: PHANEROGAMS VARIFTIES Shape Height Diameter SUBDIVISION: **ANGIOSPERMS** ALBA IRREGULAR TYPE: DICOTYLEDON MAGNIFICA Shade Root ORDER: LAMINALES HARLEQUIN Texture LIGHT ΡΔΡΤΙΔΙ SCATTERING FAMILY: SCROPHULARIACEA VEITCHIANA MORPHOLOGY Trunk COMPOUND: Leaf HARDNESS SOFT SEMI-DECIDIOUS ARRANGEMENT: OPPOSITE LEAF:10-250 VENATION: PINNATE SHAPE: LANCEGLATE COLOR: US: DK. GREEN MARGIN: ENTIRE LS: GRAY APEX: ACUTE XTURE: LS: ROUGH LEAF BASE ACUTE US: ROUGH Туре Reproduction Flower HERMAPHRODITE HERMAPHRODITE Flowering Fragrant PANICLE (10-20) Color Fruit Edible ruiting seasor Rate

ECOLOGY						
Clim	ate	Temperature -5aC,H4,Z6	Drought resistant MODERATE			
ALTITUDE:	0-1000	Sun exposure	Frost resistant			
IRRIGATION: MODERATE		SUN	YES			
So	il	Texture LOAMY	Salt resistant MODERATE			
pH:	6-7.5	Drainage	Lime resistant			
FERTILITY:	MODERATE	MODERATE	MODERATE			

FAST

Growth

Longevity

0-25 YEARS

Ì						
			USES			
	Resista	ances	А	pplic	ations	
	COASTAL:	1ST LINE	SLOPES:	NO	HEDGE ROWS:	NO
	POLLUTION:	LOW	RIVERBANKS:	NO	BORDERS:	NO
	WIND:	MODERATE	GROUPS:	YES	ISOLATED:	YES



POINTS OF INTEREST

Buddleja species native to China. It was discovered in the mid-19th century by the French missionary Armand David, from whom they get their specific name. When the English began to plant them heir gardens, they were called the butterfly bush since it attracted these insects to its sweet fragrance of their flowers. They are open shrubs with brittle, arching branches and a maximum height of 3.5 m. The leaves are very long (up to 25 cm) ending in a sharp spike and have a dull bluish-green color. Groups of small elongated conical flowers with a variety of colors sprout from the ends of these oranches in summer.

SPACING: 2 M

PLANTING AND PLANT HEALTH

n bright and sunny exposures it blooms profusely. A good fertilized soil in the garden guarantees optimal development; however, buddleja can survive even in poor soils. These shrubs admit an ype of pruning, even the most severe, sprouting vigorously the following year. This does not endanger its flowers since they sprout from the same year's wood. (Prune last year's stems at the eginning of spring until leaving 1 bud 5 cm away from old wood). Pruning in late fall prevents wind damage. A good formative pruning aims at leaving a single trunk with some branches that open up to the height of a person's head. They must have enough lateral space to allow for excellent development.

CHROMATIC CALENDAR

		Fo	liage, Flov	wering a	nd Fruit	ing seas	on				Presentation(L)	Height (cm)	Topiary Shape
JAN	FEB	MAR ABR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC	CT(5)	60-80	
	\mathbf{H}										CT(10)	80-100	
			Cu	Iltivation	n Calenda	ar					CT(30)	125-150	
JAN	FEB	MAR ABR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC			
		XXXXX			$\pm \pm \pm$								
Sowin	g	Planting	Pro	uning	Х								
			Tre	eatment	Calenda	ır							
JAN	FEB	MAR ABR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC			
			\blacksquare		$oldsymbol{\Pi}$	\blacksquare		\blacksquare	\blacksquare	\blacksquare			
Fungi	cides	Pesticio	des		Fertilizers								

Buxus sempervirens

ORNAMENTAL SHRUB BOIX VALENCIAN BOJ SPANISH FRENCH ENGLISH DIVISION: STRUCTURE VARIFTIES PHANEROGAMS Shape Diameter SUBDIVISION: ANGIOSPERMS ARBORESCENS Height TYPE: DICOTYLEDONS NANA Texture Shade Root ORDER: BUXALES ARGENTA FAMILY: COARSE PARTIA SCATTERING BUXACEAE GLAUCA MORFOLOGY Trunk COMPOUND: Leaf HARDNESS: CORIACEOUS EVERGREEN ARRANGEMENT: OPPOSITE SIZE: LEAF: 1-3 CM VENATION: PINNATE SHAPE: OBLONG COLOR: US: DK. GREEN BORDER: ENTIRE LS: YELLOW/GREEN APEX: ROUND EXTURE: US: SMOOTH LEAF BASE ACUTE LS:SMOOTH PETIOLE: Type Reproduction Flower UNISEXUAL MONOFCIOUS SIZE AND ∂/M 1-2mr Fragrant Туре TYPE: GLOMERULUS Туре Color GREEN/BLUE Fruit 3 LOBED CAPSUL Edible ruiting seasor SIZE: 0.8 CM NO Rate Longevity Growth **ECOLOGY** Temperature Drought resistan Climate 158C H2 75 ALTITUDE: 200-1200 Sun Exposure Frost resistant IRRIGATION: MODERAT SUN/PARTIAL SHADE Texture Salt resistant Soil LOAMY/CLAYEY MODERATE pH: 6-7.5 Drainage Lime resistant FERTILITY: USES Resistances Applications

POINTS OF INTEREST

This shrub is native to Europe, North Africa and Western Asia. It has slow growth and great longevity. It works well for hedges, wind breakers and topiary lasting many years. It is also excellent as a wooden plant, which can be cut into a cone or pyramid shape. Its wood is highly valued for turning and inlay work and ideal for wood engraving, buttons and chess pieces. It is also an excellent fuel. Sometimes it is used instead of hops to make beer. It is a toxic plant.

SPACING:1.5 M

PLANT AND PLANT HEALTH

It adapts to very hardy climates and resists the wind. Tolerates up to -15°C. It also survives in all types of soil, but thrive in dry and chalky places preferring well-drained soils. It requires normal irrigation but avoid saturation and waterlogging. Somewhat resistant to drought. The ideal is a medium humidity level and sunny or partial shade although it can also live in the shade. Pruning is not essential, at the end of summer. Unwanted branches can be removed or trimmed to give it the right shape. It tolerates severe pruning.

	CHROMATIC CALENDAR										
			Fo	oliage, Fl	owering	and Fruit	ing seas	on			
JAN	FEB	MAR	ABR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC
				С	ultivatior	n Calenda	ar				
JAN	FEB	MAR	ABR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC
X	XXXX	XX					Ш	XXXX	Х		
Sowin	g	Plar	nting	P	runing	Х					
				Т	reatmen	t Calenda	ar				
JAN	FEB	MAR	ABR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC

COMMERCIALIZATION								
Presentation (L)	Height (cm)	Topiary shapes						
CT(5)	60-80	Yes						
CT(10)	80-120	Yes						
CT(30)	125-150	Yes						

COASTAL:

WIND:

POLLUTION: MODERATE

MODERATE

SLOPES:

GROUP: YES

RIVERBANKS: NO

NO HEDGE ROWS: YES

BORDERS:

ISOLATED:

Callistemon

Callistemon citrinus

ORNAMENTAL SHRUB

STRUCTURE							
Shape	Height	Diameter					
ROUND	2-5 M	2 M					
Texture	Shade	Root					
LIGHT	PARTIAL	SCATTERED					

	DIVISION:
ı	SUBDIVISION:
	TYPE:
ı	ORDER:
	FAMILY

PHANEROGAMS ANGIOSPERMS DICOYILEDONS MYRTALES MYRTACEAE

ENGLISH

VARIETIES		
VIMINALLIS		

MORPHOLOGY					
Tro	unk				
	Leaf			NO	
				CORIACEOUS	
EVER	GREEN	ARRANGEMENT:		ALTERNATE	
SIZE:	LEAF: 4-9 CM	VENATION:		PARALLEL	
		SHAPE:	LIN	IEAR/LANCEOLATE	
COLOR: US:	GREEN	MARGIN:		ENTIRE	
LS:	LS:GREEN			ACUMINATE	
TEXTURE:	TEXTURE:			ACUTE	
LS	:SMOOTH	PETIOLE:		SHORT	
Flo	wer	Type		Reproduction	
	WEI	HERMAPHRODITE		MONOECIOUS	
SIZE AND	5-10CM	Flowering		Fragrant	
TIPE.	SPIKED IN	IFLORESCENCE		NO	
		Type		Color	
Fr	uit	CAPSULE		BROWN	
		Edible		Fruiting season	
SIZE:		NO		NOV-DEC	
Gro	wth	Rate		Longevity	
Git	/ VV L.1.	MEDIUM		25 YEARS	
		ECOLOGY			

	ECOLOGY						
Climate		Temperature	Drought resistant				
		-3ªC,H5,Z6	MODERATE				
ALTITUDE:	0-800	Sun Exposure	Frost resistant				
IRRIGATION:	MODERATE	SUN	YES				
So	:1	Texture	Salt resistant				
30	"	LOAMY	LOW				
pH:	6-7.5	Drainage	Lime resistant				
FERTILITY:	MODERATE	MODERATE	MODERATE				

í								
			USES					
	Resista	ances	Applications					
	COASTAL:	2ND LINE	SLOPES:	NO	HEDGE ROWS:	NO		
	POLLUTION:	LOW	RIVERBANKS:	NO	BORDERS:	NO		
	WIND:	MODERATE	GROUPS:	YES	ISOLATED:	YES		



VALENCIAN



POINTS OF INTEREST

Native to South Australia. Commonly known as Bottlebrush. As slow-growing shrub up to 5 m tall, it is suitable for coastal gardens both isolated and in groups or flowerbeds. Adapted to Mediterranean climates, it can tolerate light frosts but it should be placed in a sheltered area.

SPACING: 1.5 M

Topiary shapes

PLANTING AND PLANT HEALTH

It requires a normal irrigation programme and overwatering should be avoided. It supports drought and preferably medium humidity. It is advisable to prune the tips when young to stimulate growth. Completely remove the old withered branches, since the plant does not renew itself from mature ones. Immediately after flowering, in autumn, a light pruning can be carried out, removing only the stems that have flowered, to promote robust growth. Severe pruning is not necessary as it has a slow almost non-existent growth from the shoots in a dormant state. Propagation is by seed, softwood cuttings in summer or layering in autumn. This species roots very easily.

CHROMATIC CALENDAR

COMMERCIALIZATION on (L) Height (cm)

Presentation (L)

			Fo	oliage, Flo	owering	and Fruit	ing seas	on			
JAN	FEB	MAR	ABR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC
Cultivation Calendar											
JAN	FEB	MAR	ABR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC
						\Box	\Box		XXXX	XX	
Sowin	g	Pla	nting	P	runing	Х					
				Т	reatmen	t Calenda	ır				
JAN	FEB	MAR	ABR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC
HH	$\Pi\Pi$	HH	$\mathbf{H}\mathbf{H}$	HH	HH	HH	HH	HH	$\Pi\Pi$	HH	HH
ш			Щ								ш
Fungi	icides		Pesticio	des		Fertilizers		l			

60-80	
80-100	
125-150	
	80-100

Callistemon Callistemon speciosus MPIA TUBOS SPANISH ORNAMENTAL SHRUB VALENCIAN ENGLISH FRENCH STRUCTURE DIVISION: PHANEROGAMS VARIETIES SUBDIVISION: Shape Height Diameter **ANGIOSPERMS** TYPE: DICOTYLEDONS ORDER: Texture Shade Root MYRTALES LIGHT PARTIAI SCATTERED FAMILY: MYRTACEAE MORFOLOGY Trunk COMPOUND Leaf HARDNESS: CORIACEOUS EVERGREEN RRANGEMENT: ALTERNATE SIZE: LEAF: 5-13 CM VENATION: PARALLEL SHAPE: LINEAR/LANCEOLATE COLOR: US: GREEN/GRAY MARGIN: ENTIRE LS: GREEN/GRAY APEX: ACUMINATE EXTURE: US: SMOOTH LEAF BASE: LS :SMOOTH PETIOLE: SHORT Reproduction Туре Flower HERMAPHRODITI HERMAPHRODITE Flowering Fragrant Color Туре BROWN Fruit CAPSULE Edible Fruiting season SIZE

		MEDION	25 TEARS
		ECOLOGY	
Clim	ato.	Temperature	Drought resistant
Cilli	ale	-3°C,H5,Z6	MODERATE
ALTITUDE:	0-800	Sun exposure	Frost resistant
IRRIGATION:	MODERATE	SUN	YES
80	:1	Texture	Salt resistant
Soil		LOAMY	LOW
pH:	6-7,5	Drainage	Lime resistant
FERTILITY:	MODERATE	MODERATE	MODERATE/LOW

Rate

Growth

Longevity

USES						
Resista	ances	A	pplic	ations		
COASTAL:	2ND LINE	SLOPES:	YES	HEDGE ROWS:	NO	
POLLUTION:	LOW	RIVERBANKS:	NO	BORDERS:	NO	
WIND:	MODERATE	GROUPS:	YES	ISOLATED:	YES	



POINTS OF INTEREST

This species can be planted isolated, mixed or in shrubby clusters. Its leaves, with a prominent central nerve, give off a fragrant smell when crushed. It is typical of places with hardy climates or even extreme temperatures where it prefers medium humidity and full sun.

SPACING 1.5 M

Topiary shapes

PLANTING AND PLANT HEALTH

It tolerates hardy soils but prefers neutral, fertile and well-drained ones. It is drought resistant. This shrub requires light formative pruning, trimming to stimulate growth and rejuvenating pruning where appropriate. Its propagation is by seed, cutting of its tender wood in summer or layering in autumn. This species roots very easily.

CHROMATIC CALENDAR

COMMERCIALIZATION Height (cm)

Presentation (L)

	Foliage, Flowering and Fruiting season											
Γ	JAN	FEB	MAR	ABR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC
F	$\boldsymbol{\pi}$	ΗН	$\overline{}$	ΗН							H	-
Ē	Cultivation Calendar											
L												
ı	JAN	FEB	MAR	ABR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC
Е	ш		XXXX			ш				ш		
Н			-				-	шш				
L	Sowii	ng	Pla	nting	P	runing	Х					
Γ					Т	reatmen	Calenda	ar				
Γ	JAN	FEB	MAR	ABR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC
E										ш		
Н	+++		+++			+++			-		+++	
	Fung	icides		Pesticio	des		Fertilizers	S				

CT(5)	60-80	
CT(10)	80-100	
CT(30)	125-150	

Capparis Capparis spinosa

ORNAMENTAL SHRUB ALCAPARR SPANISH TAPERA VALENCIAN ENGLISH DIVISION: STRUCTURE PHANEROGAMS VARIETIES SUBDIVISION: Shape Height Diameter ANGIOSPERMS TYPE: DICOTYLEDON ORDER: BRASSICALES Texture Shade Root CAPPARACEAE LIGHT PARTIAL SCATTERED FAMILY:

N	IORPHOLOGY	
Trunk		
Leaf	COMPOUND:	NO
Leai	HARDNESS:	HARD
SEMI- EVERGREEN	ARRANGEMENT:	ALTERNATE
SIZE: LEAF:1.5-6 CM	VENATION:	PINNATE
	SHAPE:	ROUNDED
COLOR: US: GREEN	MARGIN:	ENTIRE
LS:PALE GREEN	APEX:	ACUMINATE
EXTURE: US:SMOOTH	LEAF BASE:	ROUND
LS: SMOOTH	PETIOLE:	SHORT
Flower	Type	Reproduction
	HERMAPHRODITE	HERMAPHRODITE
SIZE AND 3-10 CN		Fragant
TITE:	ISOLATED	YES
	Type	Color
Fruit	BERRY	OLIVE GREEN
	Edible	Fruiting season
SIZE: 1 CM	NO	
Growth	Rate	Longevity
GIOWIII	MEDIUM	25 YEARS
Growth	MEDIUM	

ECOLOGY						
Climate	Temperature	Drought resistant				
Cilliate	-5°C,H4,Z6	MODERATE				
ALTITUDE: 0-800	Sun exposure	Frost resistant				
IRRIGATION: MODERATE	SUN	YES				
Soil	Texture	Salt resistant				
3011	LOAMY/CLAYEY	MODERATE				
pH: 6.5-8	Drainage	Lime resistant				
FERTILITY: MODERATE	MODERATE	MODERATE				

		USES				
Resista	ances	Applications				
COASTAL:	2ND LINE	SLOPES:	YES	HEDGE ROWS:	NO	
POLLUTION:	LOW	RIVERBANKS:	NO	BORDERS:	NO	
WIND:	MODERATE	GROUPS:	YES	ISOLATED:	YES	



POINTS OF INTEREST

Native to the Mediterranean region. It can be found in rocky places and walls and often by the sea. Showy and large flowers, white or pink, with very long stamens with violet filaments, spiny rounded leaves, although the spines are not persistent.

The root, buds and fruits are used to combat arthritis, loss of appetite and inflammation of the spleen. It blooms on wood from the previous year, so pruning after flowering significantly enhances this process for the following spring. The Romans exploited the buds (capers) and the fruits (large capers), by pickling with salt.

Today, they are used as a condiment (tartar sauce) to accompany "steak tartare", smoked salmon or as a simple appetizer.

SPACING: 0.75 M

PLANTING AND PLANT HEALTH

The reproduction by seed as well as by cutting presents certain difficulty. Seed germination is slow with rather low average percentages. Also the reproduction by cutting is not easy and should be carried out in the summer months using robust one year old herbaceous or semi-ligneous cuttings.

CHROMATIC CALENDAR	COM	WERCIALIZATIO)N
Foliage, Flowering and Fruiting season	Presentation(L)	Height (cm)	Topiary shapes
JAN FEB MAR ABR MAY JUN JUL AUG SEPT OCT NOV DEC	CT(5) CT(10)	60-80 80-100	
Cultivation Calendar JAN FEB MAR ABR MAY JUN JUL AUG SEPT OCT NOV DEC Sowing Planting Pruning X	CT(30)	125-150	
JAN FEB MAR ABR MAY JUN JUL AUG SEPT OCT NOV DEC			

Carissa

Carissa macrocarpa

ORNAMENTAL SHRUB					
STRUCTURE					
Shape	Height	Diameter			
ROUND 2-3 M 2 M					
Texture	Shade	Root			

MORPHOI OGV

1	DIVISION:	PHANEROGAMS	VARIETIES
1	SUBDIVISION:	ANGIOSPERMS	
ı	TYPE:	DICOTYLEDONS	
1	ORDER:	GENTIANALES	
ı	FAMILY:	APOCYNACEAE	
=			
J			Shubbanda Andrews

VALENCIAN

	WORFHOLOGI						
Tı	unk						
	eaf	COMPOUND:	NO				
-	eai	HARDNESS:	HARD				
EVE	RGREEN	ARRANGEMENT:	OPPOSITE				
SIZE:	LEAF: 3-6 CM	VENATION:	PINNATE				
		SHAPE:	OVAL				
COLOR: US	: GREEN	MARGIN:	ENTIRE				
LS	PALE GREEN	APEX:	ACUTE				
TEXTURE: US	S: SMOOTH	LEAF BASE:	ROUNDED				
LS	:SMOOTH	PETIOLE:	SHORT				
Flo	wer	Type	Reproduction				
	WCI	HERMAPHRODITE	HERMAPHRODITE				
SIZE AND	3.5 CM	Flowering	Fragrant				
1111 E.		SINGLE	YES				
		Type	Color				
F	ruit	FLESHY	RED				
		Edible	Fruiting season				
SIZE:	2.5 -5 CM	YES	SEPT-NOV				
Gr	owth	Rate	Longevity				
O.O.W.II		MEDIUM	25 YEARS				
		ECOLOGY					
Climate			Drought resistant				

	ECOLOGY					
Climate	Temperature	Drought resistant				
Cilliate	-5°C,H4,Z6	MODERATE				
ALTITUDE: 0-800	Sun exposure	Frost resistant				
IRRIGATION: MODERATE	SUN	YES				
Soil	Texture	Salt resistant				
3011	LOAMY/CLAYEY	MODERATE				
Ph: 6.5-8	Drainage	Lime resistant				
FERTILITY: MODERATE	MODERATE	MODERATE				

USES					
Resista	nces	A	pplic	ations	
COASTAL:	2ND LINE	SLOPES:	YES	HEDGE ROWS:	NO
POLLUTION:	LOW	RIVERBANKS:	NO	BORDERS:	NO
WIND:	MODERATE	GROUPS:	YES	ISOLATED:	YES



POINTS OF INTEREST

This shrub can measure up to 9m high. Known commonly as the Natal Plum, it is native to the tropical and subtropical parts of South Africa. It is used as a shrub in tropical and subtropical gardens and its flesh is used in fruit salads. Its large fruits and persistent leaves make it a spectacular shrub. Its spines are bifrucate and can measure up to 4 cm.

SPACING: 0.75 M

Topiary shapes

PLANTING AND PLANT HEALTH

This species of shrub is not resistant to frost and therefore will do better in warm climates. It is very resistant to and suitable for poor or sandy soils. It must have a low irrigation programme during its growth and then progressivley less. It is drought resistant. It prefers partial shade, although it grows well in the sun. No more than a light maintenance pruning is required. Flowering stalks are cut back halfway after flowering. Its propagation by seed is not difficult. It can also be propagated by semi-woody cutting in summer or by layering.

CHROMATIC CALENDAR

COMMERCIALIZATION Height (cm)

Presentation (L)

			Fo	liation, F	lowering	and Frui	iting seas	son			
JAN	FEB	MAR	ABR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC
			-				-				
=				_	ultivation	Caland					
				C	uitivatioi	Calenda	ar				
JAN	FEB	MAR	ABR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC
									XXXX	XXXX	
Sowir	ng 🔃	Plan	nting	P	runing	Х					
				Т	reatment	Calenda	ır				
JAN	FEB	MAR	ABR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC
+		-			-	-			-	-	
Fung	icides		Pesticio	des		Fertilizers					

CT(5)	60-80	
CT(10)	80-100	
CT(30)	125-150	

Texture

LIGHT

Cassia Cassia corymbosa

CASIA DE BUENOS AIRES SPANISH ORNAMENTAL SHRUB FRENCH VALENCIAN ENGLISH STRUCTURE DIVISION: PHANEROGAMS VARIETIES SUBDIVISION: Shape Diameter **ANGIOSPERMS** Height OVOID TYPE: DICOTYLEDONS

FABALES

FABACEAE

ORDER:

FAMILY:

Root

SCATTERED

MORPHOLOGY				
Tr	unk			
1.	eaf	COMPOUND:	YES	
	eai	HARDNESS:	SOFT	
PERS	SISTENT	ARRANGEMENT:	ALTERNATE	
SIZE:	LEAF: 10 CM	VENATION:	PINNATE	
	LEAFLET:4-6	SHAPE:	LANCEOLATE	
COLOR: US	: GREEN	MARGIN:	ENTIRE	
LS	:GREEN	APEX:	ACUTE	
TEXTURE: US	: SMOOTH	LEAF BASE:	ATTENUATE	
LS	SMOOTH	PETIOLE:	SHORT	
Ele	wer	Type	Reproduction	
	WEI	HERMAPHRODITE	HERMAPHRODITE	
SIZE AND	2-3 CM	Flowering	Fragrant	
IIFE.	INFLORESCENC	E IN CORYMB (3-8 CM)	IN NOV	
		Туре	Color	
Fruit		LEGUME		
		Edible	Fruiting season	
SIZE:	5 CM		NOV	
Growth		Rate	Longevity	
Gr	owth	rtate	. 5,	
Gro	owth	FAST	0-25 YEARS	

Shade

PARTIAI

ECOLOGY					
Climate	Temperature -2°C,H5,Z6	Drought resistant MODERATE			
ALTITUDE: 100-500	Sun exposure	Frost resistant			
IRRIGATION: MODERATI	SUN	LOW			
Soil	Texture LOAMY	Salt resistant Low			
pH: 6.5-8	Drainage	Lime resistant			
FERTILITY: MODERATI	MODERATE	MODERATE			

USES					
Resista	nces	A	pplic	ations	
COASTAL:	2ND LINE	SLOPES:	NO	HEDGE ROWS:	NO
POLLUTION:	HIGH	RIVERBANKS:	NO	BORDERS:	NO
WIND:	LOW	GROUPS:	YES	ISOLATED:	YES





POINTS OF INTEREST

Native to Argentina, Uruguay and Brazil. Commonly known as Casia de Buenos Aires. It can be used as an isolated shrub or in flowerbeds as a flowering bush. This is a fast growing species and does not live more than 25 years.

SPACING: 1.5 M

PLANTING AND PLANT HEALTH

It requires warm temperatures and is able to resist light frosts. It can reach heights of 100-500 m and is not resistant to wind but tolerates the second line of coastal areas and can cope with urban pollution. It does well in all types of soils, but prefers those that are salt-free with normal to humus-rich content and very permeable. It requires low humidity in watering and medium-high humidity in the environment, and sunny or partially shaded areas. Parts damaged during the winter must be pruned, the crowded parts thinned and topped. Flowering branches must be cut at the end of spring, to give the plant compactness.

CHROMATIC CALENDAR					
	Foliage, Flowering and Fruiting season				
JAN FEB	MAR ABR MAY JUN JUL AUG SEPT OCT NOV DEC				
	Cultivation Calendar				
JAN FEB	MAR ABR MAY JUN JUL AUG SEPT OCT NOV DEC				
Sowing	Planting Pruning X				
	Treatment Calendar				
JAN FEB	MAR ABR MAY JUN JUL AUG SEPT OCT NOV DEC				
Fungicides	Pesticides Fertilizers				

Presentation(L)	Height (cm)	Topiary shapes
CT(5)	60-80	
CT(10)	80-100	
CT(30)	125-150	
Į.		

Cassia

Texture

LIGHT

Cassia didymobotrya

ORNAMENTAL SHRUB STRUCTURE Shape Height Diameter

Shade

PARTIAL

Root

SCATTERED

DIVISION: SUBDIVISION: TYPE: ORDER: FAMILY: PHANEROGAMS ANGIOSPERMS DICOYILEDONS FABALES FABACEAE VARIETIES SHRUB COMPOUND FOLIAGE

MORPHOLOGY											
Ti	runk										
	.eaf	COMPOUND:	YES								
	.eai	HARDNESS:	SOFT								
PER	SISTENT	ARRANGEMENT:	ALTERNATE								
SIZE:	LEAF: 2.5 CM	VENATION:	PINNATE								
	LEAFLET:10-20CM	SHAPE:	LANCEOLATE								
COLOR: U	S: GREEN	MARGIN:	ENTIRE								
LS	S: GREEN	APEX:	ACUTE								
TEXTURE: U	S: SMOOTH	LEAF BASE:	ATTENUATE								
LS	S: SMOOTH	PETIOLE: SHORT									
E		Type	Reproduction								
Flo	ower	Type HERMAPHRODITE	Reproduction HERMAPHRODITE								
FIG SIZE:	ower 2-3 CM										
	2-3 CM	HERMAPHRODITE	HERMAPHRODITE								
	2-3 CM	HERMAPHRODITE Flowering	HERMAPHRODITE Fragrant								
SIZE:	2-3 CM	HERMAPHRODITE Flowering IN RACEME (5-10 units)	Fragrant NO								
SIZE:	2-3 CM INFLORESCENCE	HERMAPHRODITE Flowering IN RACEME (5-10 units) Type	Fragrant NO Color GRAY/BLACK								
SIZE:	2-3 CM INFLORESCENCE	Flowering IN RACEME (5-10 units) Type LEGUME	Fragrant NO Color GRAY/BLACK								
SIZE:	2-3 CM INFLORESCENCE Truit	Flowering IN RACEME (5-10 units) Type LEGUME	Fragrant NO Color GRAY/BLACK								
SIZE:	2-3 CM INFLORESCENCE	HERMAPHRODITE Flowering IN RACEME (5-10 units) Type LEGUME Edible	Fragrant NO Color GRAY/BLACK Fruiting seasor								
SIZE:	2-3 CM INFLORESCENCE Truit	HERMAPHRODITE Flowering IN RACEME (5-10 units) Type LEGUME Edible Rate	HERMAPHRODITE Fragrant NO Color GRAY/BLACK Fruiting season Longevity								

ECOLOGY													
Climate	Temperature	Drought resistant											
Cilillate	-2ªC,H5,Z6	MEDERATE											
ALTITUDE: 100-500	Sun exposure	Frost resistant											
IRRIGATION: MODERATE	SUN	LOW											
Soil	Texture	Salt resistant											
3011	LOAMY	LOW											
pH: 6.5-8	Drainage	Lime resistant											
FERTILITY: MODERATE	MODERATE	MODERATE											

		USES			
Resista	nces	A	pplic	ations	
COASTAL:	2ND LINE	SLOPES:	NO	HEDGE ROWS:	NO
POLLUTION:	HIGH	RIVERBANKS:	NO	BORDERS:	NO
WIND:	LOW	GROUPS:	YES	ISOLATED:	YES



VALENCIAN



POINTS OF INTEREST

Native to Ethiopia. This species is comprised of many branches. It has a round shape and is used in mixed flowerbeds or shrubby compositions.

SPACING: 1.5 M

Topiary shapes

PLANTING AND PLANT HEALTH

It must be protected from frost. Although it tolerates most garden soil conditions, it should be planted in cool, rich and loamy soils. It requires a normal irrigation programme, however waterlogging must be avoided. It requires medium humidity and full sun. Propagation is by seed.

CHROMATIC CALENDAR

COMMERCIALIZATION on (L) Height (cm)

Presentation (L)

											F	Fo	lia	ge	, F	Flo	we	eri	ng	an	d I	ru	itiı	ng	se	as	on													7
JAN	Π	F	E	3	Г	MΑ	١R	Т	-	۱B	R	Т	-	MΑ	١Y	Т	,	JU	N	Т	Jl	JL	Т	Α	UG	}	S	EF	РΤ	Т	C	CT	Γ	Г	NC	ΟV	Т	DE	С	7
===	Н	7	Ŧ	F	Е		7	7	7	7	7	7	7	7	7	7	7	Ŧ	Ŧ	F	F	7	Ŧ	Ŧ	F	F	Ħ	7	Ŧ	Ŧ	Ŧ	Ŧ	F	F	Я	Ŧ	Ŧ	Ħ	7	4
=	Cultivation Calendar																																							
JAN	JAN FEB MAR ABR MAY JUN JUL AUG SEPT OCT NOV DEC																																							
ш																																								
So	win	g					Ρl	ant	tin	g						Pr	run	inę	9		Х																			
																Tr	ea	tm	en	t C	ale	nc	lar																	٦
JAN	1	F	E	3	П	MΑ	۱R	Т	F	۱В	βR	Т	ľ	MΑ	١Y	Т	Ų	IU	N	Т	Jl	JL	Т	Α	UC	3	S	ΕF	PΤ	Т	С	C	Γ	П	NC	ΟV	Т	DE	С	٦
		т	т						П	1			1	1	П		1	I	т			т	1	т				Т	т	1	т	т				т	1	П	т	3
\blacksquare	П	_		П	Ц	П	4	4	4	4	4	4	4	4	4	4	4	4	T	Т	Ц	_	4	\bot	Г	Е	Ц	4	4	4	4	Ţ	Е	Е	Ц	Т	4	П	_	4
ш	ш	_	_	_	ш	щ		_	_	_	_	_	_	_	4		4	_	_	_	щ		_	_	_	ᆫ	ш	_	_	_	_	_	L	_	Ш		_	\perp	_	4
Fu	ngi	cid	es						Ρ	es	tic	ide	es		Į					Fe	rtil	ze	'S																	

01(3)	00-00	
CT(10)	80-100	
CT(30)	125-150	

Cestrum

Cestrum nocturnum

ORNAMENTAL SHRUB

GALAN DE NO SPANISH

VALENCIAN

FRENCH

Shape Height Diameter Texture Shade Root MEDIUM PARTIAL SCATTERED

DIVISION: SUBDIVISION: TYPE: ORDER: FAMILY:

PHANEROGAMS ANGIOSPERMS DICOTYLEDONS SOLANALES SOLANACEAEA

ENGLISH

VARIFTIES

	M	ORPHOLOGY							
Tr	unk								
-	eaf	COMPOUND:	NO						
-	cai	HARDNESS:	SOFT						
EVER	RGREEN	ARRANGEMENT:	OPPOSITE						
SIZE:	LEAF: 12-15CN	VENATION:	PINNATE						
		SHAPE:	LANCEOLATE						
COLOR: US	S: GREEN	MARGIN:	ENTIRE						
LS	:GREEN	APEX:	ACUTE						
TEXTURE: US	S: SMOOTH	LEAF BASE : ATTENUATE							
LS	:SMOOTH	PETIOLE:	SHORT						
Flo	wer	Type	Reproduction						
		HERMAPHRODITE	HERMAPHRODITE						
SIZE AND	2.5 CM	Flowering	Fragrant						
11112.		CYMOSE INFLORESCENCE	YES						
		Type	Color						
F	ruit	BERRY	WHITE						
		Edible	Fruiting season						
SIZE:		NO							
Gr	owth	Rate	Longevity						
		MEDIUM	25 YEARS						

		ECOLOGY	
Clim	oto.	Temperature	Drought resistant
Cilli	ale	-3°C,H5,Z6	MODERATE
ALTITUDE:	0-500	Sun exposure	Frost resistant
IRRIGATION:	MODERATE	SUN	LOW
So	:1	Texture	Salt resistant
30	"	LOMAY/CLAYEY	MODERATE
pH:	6.5-8	Drainage	Lime resistant
FERTILITY:	MODERATE	MODERATE	MODERATE

ı			USES									
ı	Resista	ances	Applications									
ı	COASTAL:	2ND LINE	SLOPES:	NO	HEDGE ROWS:	NO						
ı	POLLUTION:	MODERATE	RIVERBANKS:	NO	BORDER:	NO						
ı	WIND:	MODERATE	GROUPS:	YES	ISOLATED:	YES						

.IAN

Sowing





POINTS OF INTEREST

Native to Antilles and surrounding regions. Commonly known as queen of the night. It is used in Mediterranean gardens and near houses. Since it blooms nocturnally, a deep and pleasant scent can be enjoyed on summer nights. It can also be seen used on patios. It is widely distributed in cities and gardens in Southern Spain.

SPACING: 2 I

PLANTING AND PLANT HEALTH

It resists light frosts and hardy soils, but prefers those that are fertile and well-drained. This shrub is quite sensitive to drought and adapted to medium humidity and full sun or partial shade. Damaged and overgrown branches must be pruned at the end of winter or spring, even the young lateral ones. Propagation is by cuttings in winter.

Foliage, Flowering and Fruiting season ABR MAY JUN JUL AUG SEPT NOV Cultivation Calendar FFR MAR ABR MAY JUN JUL AUG SEPT OCT NOV DEC Planting Pruning

	Treatment Calendar															
JAN	JAN FEB MAR ABR MAY JUN JUL AUG SEPT OCT NOV DEC															
	WIN 125 MIN 100 100 100 100 100 100 100 100 100 10															
Fungi	Fungicides Pesticides Fertilizers															٦

CHROMATIC CALENDAR

Presentation (L)	Height (cm)	Topiary shapes
CT(5)	60-80	
CT(10)	80-100	
CT(30)	125-150	

Chrysanthemum

Chrysanthemum frutescens

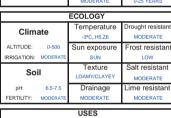
ORNAMENTAL SHRUB		MARGARITA DE BOLA SPANISH	A VALENCIAN	MARGUERITE DAISY ENGLISH	MARGUERITE DE PARIS FRENCH
STRUCTURE	DIVISION:	PHANEROGAMS		VARIETIES	

	STRUCTURE										
Shape	Height	Diameter									
ROUND	0.7-1 M	0.7-1									
Texture	Shade	Root									
MEDIUM	PARTIAL	SCATTERED									

DIVISION: PHANEROGAMS
SUBDIVISION: ANGIOSPERMS
TYPE: DICOTYLEDONS
ORDER: ASTERALES
FAMILY: ASTERACEAE

VARIETIES						

	MORPHOLOGY									
Tr	unk									
	eaf	COMPOUND:	NO							
_	cai	HARDNESS:	SOFT							
EVERGREEN		ARRANGEMENT:	ALTERNATE							
SIZE:	LEAF: 8-10 CM	VENATION:	PINNATE							
		SHAPE: C	VAL/LANCEOLATE							
COLOR: US	: GREEN	MARGIN:	DIVIDED							
LS: GREEN TEXTURE: US: SMOOTH LS: SMOOTH		APEX:	ACUTE							
		LEAF BASE:	ATTENUATE							
		PETIOLE:	SHORT							
		Type	Reproduction							
	11105	Type	Reproduction							
Flo	wer	UNISEXUAL	MONOCEIOUS							
SIZE AND	ower 2 CM									
		UNISEXUAL	MONOCEIOUS							
SIZE AND		UNISEXUAL	MONOCEIOUS Fragrant							
SIZE AND TYPE:		UNISEXUAL Flowering INFLOR. IN FLORET	Fragrant NO							
SIZE AND TYPE:	2 CM	Flowering INFLOR. IN FLORET Type	Fragrant NO							
SIZE AND TYPE:	2 CM	UNISEXUAL Flowering INFLOR. IN FLORET Type ACHENE	Fragrant NO Color							
SIZE AND TYPE: FI SIZE:	2 CM	UNISEXUAL Flowering INFLOR. IN FLORET Type ACHENE	Fragrant NO Color							
SIZE AND TYPE: FI SIZE:	2 CM	UNISEXUAL Flowering INFLOR. IN FLORET Type ACHENE Edible	Fragrant NO Color Fruiting season							
SIZE AND TYPE: FI SIZE:	2 CM	UNISEXUAL Flowering INFLOR. IN FLORET Type ACHENE Edible Rate	Fragrant NO Color Fruiting season Longevity							



USES												
Resista	inces	Applications										
COASTAL:	1ST LINE	SLOPES:	NO	HEDGE ROWS:	NO							
POLLUTION:	MODERATE	RIVERBANKS:	NO	BORDERS:	NO							
WIND:	MODERATE	GROUP:	YES	ISOLATED:	YES							



POINTS OF INTEREST

Excellent for quick color, coastal gardens and impatient gardeners. This is an easy shrub to grow specially for beginners.

SPACING: 0.50 M

PLANTING AND PLANT HEALTH

In Mediterranean climates the daisy is an evergreen and enjoys sunny, well-drained gardens. Generous mulching conserves water. Keep quite dry to promote compact growth and reduce health problems. Propagation by tender cuttings in spring. Cuttings reach flowering in a few months. Deadhead or moderately prune to thin out and gather the branches. This will to make the shrub more compact.

Foliage, Flowering and Fruiting season ABR MAY JUN JUL AUG SEPT OCT NOV DEC Cultivation Calendar

JAN FEB MAR ABR MAY JUN JUL AUG SEPT OCT NOV

Sowing Planting Pruning X

	Treatment Calendar																																						
JAN	F	EΒ		Ν	lΑ	R	I	Α	BF	?		M	A١	/		Jl	JN	I		Jι	JL		A	٩U	G	Τ	SE	ΞP	Т	(ЭC	ïΤ	Τ	Ν	0\	/		DE	С
		E		Ŧ	Ŧ	Ŧ	ŧ	Ŧ	Ē	E	F	E	E	E	E	E	E	E	E		=		=	=	Ŧ	ŧ	Ŧ	ŧ	E	H	#	Ŧ	ŧ	F	E	E	H	=	Ŧ
Fungi	icide	S	Į					Рє	st	icio	de	S							Fe	rtil	ze	ers		I															

CHROMATIC CALENDAR

	Presentation (L)	Height (cm)	Topiary shapes					
	CT(5)	60-80						
i								
ı								
ı								
ı								
ı								

Cistus Cistus albidus

ORNAMENTAL SHRUB

JARA BLANCA SPANISH STEPA D'ESCUR VALENCIAN

ENGLISH VARIFTIES

CISTE BLAI

5	STRUCTURE										
Shape	Height	Diameter									
ROUND	0.4-2 M	0.6-2 M									
Texture	Shade	Root									
MEDIUM	PARTIAL	SCATTERED									

DIVISION: SUBDIVISION: TYPE: ORDER: FAMILY: PHANEROGAMS ANGIOSPERMS DICOTYLEDONS MALVALES CISTACEAE

100

	M	ORPHOLOGY	
Tr	unk		
Leaf		COMPOUND:	NO
-	eai	HARDNESS:	SOFT
EVER	RGREEN	ARRANGEMENT:	OPPOSITE
SIZE:	LEAF: 3-10 CM	VENATION:	PINNATE
		SHAPE:	BROADLY OVAL
COLOR: US	GRN/GRAY	MARGIN:	SMOOTH
LS	: GRN./GRAY	APEX:	ROUNDED
TEXTURE: US	: TOMENTOSE	LEAF BASE:	ATTENUATE
LS	:TOMENTOSE	PETIOLE:	SHORT
EL	ower	Type	Reproduction
	JWEI	HERMAPHRODITE	HERMAPHRODITE
SIZE AND TYPE:	4-6 CM	FLOWERING	Fragrant
TIFE.		CYMOSE INFLORESCENCE	NO
		Type	Color
F	ruit	CAPSULE	
		Edible	Fruiting season
SIZE:			
Gr	owth	Rate	Longevity
Gi	OWLII	MEDIUM	0-25 YEAR
		E001 00V	

ECOLOGY												
Clima	40	Temperature	Drought resistant									
Cilina	ite	-8°C,H4,Z6	HIGH									
ALTITUDE:	0-800	Sun exposure	Frost resistant									
IRRIGATION:	LOW	SUN	MODERATE/HIGH									
Soil	i	Texture	Salt resistant									
3011	ı	ALL TYPES	MODERATE									
pH:	6.5-8	Drainage	Lime resistant									
FERTILITY:	MOD/LOW	MODERATE	HIGH									

USES											
Resista	ances	A	pplic	cations							
COASTAL:	1ST LINE	SLOPES:	NO	HEDGE ROWS:	NO						
POLLUTION:	MODERATE	RIVERBANKS:	NO	BORDERS:	NO						
WIND:	MODERATE	GROUPS:	YES	ISOLATED:	YES						



POINTS OF INTEREST

Commonly known as gray-leaved cistus. It is a wild species that grows in almost all the dry hills of the southern part of the European continent, where they are widely spread in fields and shrubland with their unmistakable color and from which many hybrids and some cultivated varieties have been obtained. This shrub species is highly valued in gardening both for its beautiful flowers and ease to cultivate. They are recommended for hardy or wild garden scenes. Isolated specimens can be included in mixed bush formations. Due to the unpleasant odor it gives off on hot days, it should be avoided in transit or living places.

SPACING: 0.50 M

PLANTING AND PLANT HEALTH

The gray-leaved cistus should be placed in full sun. It is highly recommended for inland and coastal areas. They thrive in sandy and rocky terrain, regardless of soil quality. In any case, an excellent drainage capacity is essential. Prune to clean at the end of winter or early spring and when appropriate. It is resistant to droughts, frosty winters and proximity to the sea. Propagation by seed in autumn or tender cuttings in summer.

CHROMATIC CALENDAR Foliage, Flowering and Fruiting season ABR MAY JUN JUL AUG SEI **Cultivation Calendar** FFR MAR ABR MAY JUN JUI AUG SEPT OCT NOV DEC Sowing Planting Pruning Treatment Calendar MAR ABR MAY JUN JUL AUG SEPT OCT JAN FEB

Fertilizers

Presentation (L) Height (cm) Topiary shapes

CT(5) 60-80

Coronilla Coronilla subs.

ORNAMENTAL SHRUB CAROLINA CORONETA SCORPION VETCH CORONILA FRENCH STRUCTURE DIVISION: PHANEROGAMS VARIETIES VARIETIES

STRUCTURE											
Shape	Height	Diameter									
ROUND	1.5-3 M	1.5-3 M									
Texture	Shade	Root									
COARSE	FULL	SCATTERED									

DIVISION:
SUBDIVISION:
TYPE:
ORDER:
FAMILY:

PHANEROGAMS ANGIOSPERMS DICOTYLEDONS FABALES FABAECEAE

VARIETIES

DENSE

GREEN BLUEISH LEAVES

	M	ORPHOLOGY	
Tr	unk		
<u> </u>		COMPOUND:	YES. IMPARIPINNATE
L	eaf	HARDNESS:	SOFT
PERS	SISTENT	ARRANGEMENT:	OPPOSITE
SIZE.	LEAF: 3 CM	VENATION:	PINNATE
	LEAFLET: 5-7	SHAPE:	OVAL
COLOR: US	: GREEN	MARGIN:	ENITE
LS	: LIGHT GREEN	APEX:	ROUNDED
TEXTURE: US	S: SMOOTH	LEAF BASE:	ATTENUATE
LS	: SMOOTH	PETIOLE:	SHORT
Ele	wer	Type	Reproduction
	wei	HERMAPHRODIT	TE HERMAPHRODITE
SIZE AND	0.7-1.2 CM	Flowering	Fragrant
TIPE.	UMBEL INFLORES	SCENCE (2-5 FLOWERS	S) NO
		Type	Color
F	ruit	LEGUME	
		Edible	Fruiting season
SIZE:			
Gr	owth	Rate	Longevity
		MEDIUM	0-25 YEARS
		ECOLOGY	
OI:		Temperature	e Drought resistant
ı Cili	mate		1

Growth	MEDIUM	0-25 YEARS
	ECOLOGY	
Climate	Temperature	Drought resistant
Omnate	-3°C,H5,Z6	MODERATE
ALTITUDE: 100-500	Sun exposure	Frost resistant
IRRIGATION: MODERATE	SUN	LOW
Soil	Texture	Salt resistant
3011	LOAMY	MODERATE
pH: 6.5-8	Drainage	Lime resistant
FERTILITY: MODERATE	MODERATE	MODERATE
	USES	

		USES			
Resista	inces	A	pplica	ations	
COASTAL:	2ND LINE	SLOPES:	NO	HEDGE ROW:	NO
POLLUTION:	HIGH	RIVERBANKS:	NO	BORDERS:	NO
WIND:	LOW	GROUPS:	YES	ISOLATED:	YES









POINTS OF INTEREST

Commonly known as scorpion vetch. Found mainly in the Mediterranean region. It is a dense rounded shrub that can be used isolated or in groups. Its golden flowers perfume the air from winter to spring. It is important to be aware that if irrigated directly above the plant, it will cause premature death. Remove diseased or old branches. To achieve a more compact shrub, cut the rest of the shoots in half in the springtime.

SPACING: 1 M

PLANTING AND PLANT HEALTH

It prefers warm places, but tolerates some cold. Soil should be light and with good drainage. It is somewhat drought resistant and is better adapted to hardy humidity and full sun. It should only be pruned for rejuvenatation or reinvigoration purposes. They are easily propagated by seed or tender cuttings in summer.

CHROMATIC CALENDAR Foliage, Flowering and Fruiting season ABR MAY JUN JUL AUG SEPT Cultivation Calendar FEB MAR ABR MAY JUN JUL AUG SEPT OCT NOV Sowing Planting Pruning Treatment Calendar MAR ABR JUN JUL AUG SEPT OCT NOV DEC Pesticides

001111	ILITOIALILATIO	,,,,
Presentation (L)	Height(cm)	Topiary shapes
CT(5)	60-80	
CT(10)	80-100	
CT(30)	125-150	
I		

GROUPS: YES

WIND:

ISOLATED: YES

Cotoneaster

Cotoneaster horizontalis

Cotone	aster				Coto	<u>neaster ne</u>	orizontalis
ORNAMEN	TAL SHRUB			COTONEASTER HORIZONTAL. SPANISH	VALENCIAN	PROSTRATE ROCK COTONEASTE ENGLISH	R COTONEASTER RAMPANT FRENCH
	STRUCTURE		DIVISION:	PHANEROGAMS		VARIETY	
Shape	Height	Diameter	SUBDIVISION:	ANGIOSPERM			
SPREADING	0.3-0.8 M	1.5 M	TYPE:	DICOTYLEDONS			
Texture	Shade	Root	ORDER:	ROSALES			
LIGHT	PARTIAL	SCATTERED	FAMILY:	ROSACEAE			
	MORPHOLOGY						
Trunk				\$ 1. Take	//		
Leaf	COMPOUND:	NO					
	HARDNESS:	CORIACEOUS					
PERSISTENT SIZE: LEAF: 1-4	ARRANGEMENT:	ALTERNATE					Valle Time
SIZE: LEAF: 1-4		PINNATE		The state of the s			
COLOR: US: GREEN	SHAPE: MARGIN:	OVAL ENTIRE		Sales Shall be a state			
LS: GREEN	APEX:	ROUNDED					400
TEXTURE: US: SMOOTH		ATENUATE					***************************************
LS: TOMENT		SHORT					
	Type	Reproduction					
Flower	HERMAPHRODITE	HERMAPHRODITE					
SIZE AND 0.5-0.7		Fragrant				# · · · · · · · ·	The state of
TYPE: SOLITARY II	NFLOR. OR IN RACEME (3-7 FLOWERS)	NO			Walter All Control	100	
	Type	Color		Control of the Control			
Fruit	POME	RED		A REPORT OF THE PARTY OF THE PA		1	
SIZE: 5mn	Edible NO	Fruiting season OCT-NOV					
Growth	Rate	Longevity	1				
Growth	MEDIUM	0-25 YEARS					ASSESSMENT OF THE PARTY OF THE
	ECOLOGY					A STATE OF THE STA	
Climate	Temperature -5°C,H4,Z6	Drought resistant MODERATE	10 10 10				
ALTITUDE: 0-10	Sun exposure	Frost resistant			Bart was a	30 St. 18 W.	
IRRIGATION: MODE		MODERATE				PER STATE OF THE PERSON NAMED IN COLUMN TWO IS NOT THE PERSON NAMED IN COLUMN TWO IS NAMED IN COLUMN TWO	- La Sea
Soil	Texture	Salt resistant		The Park of the Land		77	- 50 m
3011	LOAMY	MODERATE			The second second		The state of the s
pH: 6.5-		Lime resistant			17 100	70 80	C 000 = 5"
FERTILITY: MODE	_	MODERATE	10 30 10				of the same
	USES		War Carlo				
Resistances		cations	2		The company	A COLUMN	Mark Market
COASTAL: 2ND L		HEDGE ROWS: NO	A 77 W		V. Carlotte	Control of the second	ACC.
POLLUTION: HIG	RIVERBANKS: NO	BORDERS: NO	100 m				THE REAL PROPERTY.

POINTS OF INTEREST

Due to their variety of heights and types of growth, cotoneasters have a wide range of uses in gardens, terraces or balconies. Any location or corner can be decorated in a graceful and proportionate way. They provide good groundcovers due to the creeping growth of their multi-branched stems. The hanging feature of its branches allows dressing window boxes on balconies and buildings very effectively. This is a very elegant species when planted in pots on terraces, porches and entrance ways to gardens or buildings.

SPACING: 0.80 M

PLANTING AND PLANT HEALTH

They grow best in full sun, although they tolerate partial shade. They are very undemanding in terms of soil: any normal type of soil that is not too dry or excessively heavy will do. Pruning tasks are not essential since each cotoneaster develops a characteristic shape and size that should not be altered. Some of these shrubs however, are modeled according to a formal pattern by trimming their branches in early spring. This operation is done with a secateur, cutting each branch just above a leaf. Pruning after flowering makes it possible to remove weak or dry branches.

				CHE	ROMATIC	CALENI	DAR								
			Fo	liage, Fl	owering	and Fruit	ing seas	on							
JAN	JAN FEB MAR ABR MAY JUN JUL AUG SEPT OCT NOV DEC														
	Cultivation Calendar														
1	Cultivation Calendar														
JAN	JAN FEB MAR ABR MAY JUN JUL AUG SEPT OCT NOV DEC														
Sowin	Sowing Planting Pruning X														
	Treatments Calendar														
JAN															
\blacksquare					\mathbf{H}		ш		\mathbf{H}						
	+++				+++		+++		+++	-					
Fungi	Fungicides Pesticides Fertilizers														

Presentation (L)	Height (cm)	Topiary shapes
CT(5)	60-80	
CT(10)	80-100	
CT(30)	125-150	

COTONEASTER

Cotoneaster pannosus

ORNAMENTAL SHRUB VALENCIAN

5	STRUCTURE	
Shape	Height	Diameter
SPREADING	1.5-3 M	1.5-3 M
Texture	Shade	Root
LIGHT	PARTIAL	SCATTERED

DIVISION: SUBDIVISION: TYPE: ORDER: FAMILY:

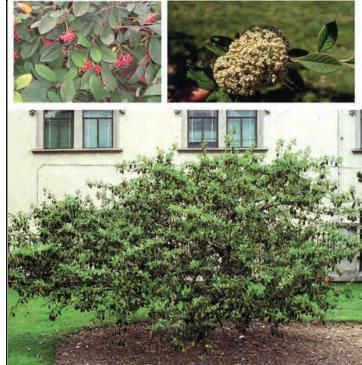
PHANEROGAMS **ANGIOSPERMS** DICOTYLEDONS ROSALES ROSACEAE

VARIETIES

Tı	unk		
	eaf	COMPOUND:	NO
_	eai	HARDNESS:	SOFT
SEMI-PI	ERSISTENT	ARRANGEMENT:	ALTERNATE
SIZE:	LEAF: 2-5 CM	VENATION:	PINNATE
		SHAPE:	OBLONG
COLOR: US	: GREEN	MARGIN:	ENTIRE
LS	: GRAY	APEX:	ROUNDED
TEXTURE: US	: SMOOTH	LEAF BASE:	ATENUATE
LS	:TOMENTOSE	PETIOLE:	SHORT
El/	ower	Type	Reproduction
	JW CI	HERMAPHRODITE	HERMAPHRODITE
SIZE AND	0.5-0.8 CM	Flowering	England at
	0.5-0.8 CM	rioweiling	Fragrant
TYPE:		E IN CORYMB (1.5-4 CM)	NO
TYPE:	INFLORESCENC		
TYPE:		E IN CORYMB (1.5-4 CM)	NO
TYPE:	INFLORESCENC	E IN CORYMB (1.5-4 CM) Type	Color RED Fruiting season
TYPE:	INFLORESCENC	Type POMES	NO Color RED
TYPE: F SIZE:	nflorescence ruit 6mm	Type POMES Edible	Color RED Fruiting season
TYPE: F SIZE:	INFLORESCENC	E IN CORYMB (1.5-4 CM) Type POMES Edible NO	Color RED Fruiting season OCT-MAR

		ECOLOGY	
Clima	4-	Temperature	Drought resistant
Cilina	ite	-5°C,H4,Z6	MODERATE
ALTITUDE:	0-1000	Sun exposure	Frost resistant
IRRIGATION:	MODERATE	SUN/PARTIAL SHADE	MODERATE
Soi		Texture	Salt resistant
301	'	LOAMY	MODERATE
pH:	6.5-7.5	Drainage	Lime resistant
FERTILITY:	MODERATE	MODERATE	MODERATE
		·	

		USES			
Resista	nces	A	pplic	ations	
COASTAL:	2ND LINE	SLOPES:	YES	HEDGE ROWS:	NO
POLLUTION:	HIGH	RIVERBANKS:	NO	BORDERS:	YES
WIND:	LOW	GROUPS:	YES	ISOLATED:	YES



POINTS OF INTEREST

Native to Southeastern China in the Yunnan province. It is cultivated for its abundant fruits and has beautiful autumn colors. If planted isolated on a meadow, it will exhibit and highlight its natural appearance or exhibit geometric or more compact shapes. They do very well in mixed borders and can be used as small border plants Used as a background element or in intermediate locations can provide foliar textures and vivid winter tones.

SPACING: 0.80 M

PLANTING AND PLANT HEALTH

It prefers temperate climate but has good resistant to cold. It does not support excessve moisture in the soil, but can withstand medium humidity in the environment and sun or partial shade. Pruning is not necessary (at most every 4-5 years). It propagates by seed, of slow germination, after stratification. Also by grafting, cutting or layering.

CHROMATIC CALENDAR

COMMERCIALIZATION Height(cm)

Е													Fc	lia	ag	e,	Fle	ow	/ei	rin	g a	ane	d F	ru	iti	ng	se	eas	108	า													
Г	JAN FEB MAR ABR MAY														MAY JUN				JN	N JUL A					١U	G	SEPT				Т	OCT			Γ	NOV			С	E)		
Е																			Ŧ	Ŧ	Е	F	Ŧ	Ŧ	Ŧ	Е	Е	Е	Е		7	7	Ŧ	Е									
Cultivation Calendar																																											
r	JAN FEB MAR ABR MAY JUN JUL AUG SEPT OCT NOV DEC)																											
									E	E	Е	Б	E	П	П	Η	Н	\exists	7	7	Ŧ	Ŧ	Ŧ	E	E	I	I	E	E	E	Е	E	П	3	Ŧ	E	Е						
	So	win	g					Ρ	lar	itir	ng						Р	ru	nir	ng)	(
Г	Treatment Calendar																																										
JAN FEB MAR ABR MAY JUN															JL	JL	Т	Α	ιU	G	Т	SE	ΞP	Т	Τ	0	C.	Γ	Г	N	D۷	Т	D	E)								
Ε	Н	В	В	\exists	Ξ	Е		Е	В	В	Е	Е	Е	Е	Е	Е	Е	Е	Е	В	В	3	\exists	\exists	3	\pm	Ξ	Ŧ	Ε	Ε	Ε	Ε	Ε	Ε	Ε	Ε	Ε	Е	Н	\exists	Ŧ	Ξ	В
Fungicides Pesticides													3						F	eı	rtili	ze	rs		1		ľ			_									_		_		

Presentation (L)	Height(cm)	Topiary shapes
CT(5)	60-80	
CT(10)	80-100	
CT(30)	125-150	

Cotoneaster

FINE

Cotoneaster salicifolius

COTONEASTER SPANISH ORNAMENTAL SHRUB VALENCIAN FRENCH ENGLISH DIVISION: PHANEROGAMS STRUCTURE VARIETIES SUBDIVISION: Shape Height Diameter **ANGIOSPERMS** IRREGULAR TYPE: DICOTYLEDONS ORDER: ROSALES Texture Shade Root

ROSACEAE

MORPHOLOGY								
Trunk								
Leaf	COMPOUND:	NO						
Lear	HARDNESS:	SOFT						
PERSISTENT	ARRANGEMENT:	ALTERNATE						
SIZE: LEAF: 3-9 CM	VENATION:	PINNATE						
	SHAPE:	LANCEOLATE						
COLOR: US: DK.GREEN	MARGIN:	ENTIRE						
LS: GRAY	APEX:	ACUMINATE						
TEXTURE: US: ROUGH	LEAF BASE:	ATENUATE						
LS:TOMENTOSE	PETIOLE:	SHORT						
Flower	Type	Reproduction						
	HERMAPHRODITE	HERMAPHRODITE						
SIZE AND 0.5-0.8 CM	Flowering	Fragrant						
INFLORESCENCE	IN CORYMB (3-5)	NO						
	Type	Color						
Fruit	POME	RED						
	Edible	Fruiting seasor						
SIZE: 6mm	NO	OCT-MAR						
Growth	Rate	Longevity						
Growth	MEDIUM	0-25 YEARS						
	ECOLOGY	<u> </u>						

PARTIAL

SCATTERED

FAMILY:

ECOLOGY							
Clim	-4-	Temperature	Drought resistant				
Cilin	ate	-5°C,H4,Z6	MODERATE				
ALTITUDE:	0-1000	Sun exposure	Frost resistant				
IRRIGATION:	MODERATE	SUN/PARTIAL SHADE	MODERATE				
۰,	ii	Texture	Salt resistant				
So	il	Texture LOAM	Salt resistant MODERATE				
So pH:	6.5-7.5						
		LOAM	MODERATE				

USES							
Resista	nces	A	pplic	ations			
COASTAL:	2ND LINE			HEDGE ROWS:	NO		
POLLUTION:	MODERATE	RIVERBANKS:	NO	BORDERS:	NO		
WIND:	MODERATE	GROUPS:	YES	ISOLATED:	YES		



POINTS OF INTEREST

Native to Western China, this species of shrub can reach heights of four meters. As its name indicates, it has leaves similar to those of willows, that is, long and narrow. Its arching branches help give it an elegant appearance. They are cultivated for their beautiful autumn fruits, as isolated shrubs and forming free-growing hedges.

SPACING: 3 M

PLANTING AND PLANT HEALTH

This shrub is resistant to cold and to all types of soil, but it prefers medium humidity and has low resistence to moisture in the soil. It prefers full sun, but can suppor full shade. The previous year's branches should be shortened at the end of spring, leaving the withered flowers to form the fruit in autumn. Propagation by semi herbaceous cuttings and grafting. Pruning will shorten last year's branches in late spring, letting faded flowers develop fruit in the fall.

	Foliage, Flowering and Fruiting season										
JAN	FEB	MAR	ABR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC
				С	ultivation	n Calenda	ar				
JAN	FEB	MAR	ABR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC
				XX	XX	FFF	$oldsymbol{\Pi}$				
Sowir	g	Plar	nting	P	runing	Х					
				Т	reatment	t Calenda	ır				
JAN	FEB	MAR	ABR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC
+++		\mathbf{H}	$oldsymbol{H}$	$\overline{\mathbf{H}}$	$\overline{\mathbf{H}}$	$\boldsymbol{+}$	-	$\overline{\mathbf{H}}$	$\overline{}$		HH
Fung	Fungicides Pesticides Fertilizers										

CHROMATIC CALENDAR

Presentation (L)	Height (cm)	Topiary shapes
CT(5)	60-80	
CT(10)	80-100	
CT(30)	125-150	

Cytisus

Cytisus scoparius

ORNAMENTAL SHRUB

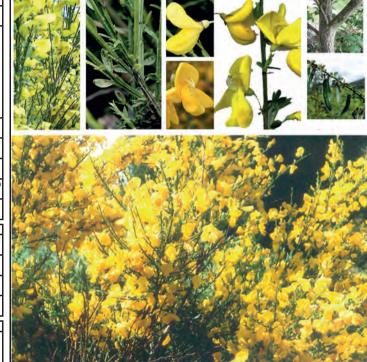
STRUCTURE								
Shape IRREGULAR	Height 3 M	Diameter 3 M						
Texture	Shade	Root						

_			
٦	DIVISION:	PHANEROGAMS	VARIETIES
٦	SUBDIVISION:	ANGIOSPERMS	
1	TYPE:	DICOTYLEDONS	
٦	ORDER:	FABALES	
1	FAMILY:	FABACEAE	

	MORPHOLOGY							
Trunk								
		COMPOUND:	PINNATE					
Leaf		HARDNESS:	SOFT					
DEC	IDUOUS	ARRANGEMENT:	ALTERNATE					
SIZE:	LEAF: 0.5 CM	VENATION:	PINNATE					
	LEAFLET:1-3 CM	SHAPE:	OVOID					
COLOR: US	S: DK. GREEN	MARGIN:	ENTIRE					
LS	: GREEN	APEX:	ROUNDED					
TEXTURE: US	S: SMOOTH	LEAF BASE:	ATTENUATE					
LS	: SMOOTH	PETIOLE:	SHORT					
Ele	ower	Type	Reproduction					
FIC	owei	HERMAPHRODITE	HERMAPHRODITE					
SIZE AND	1-2 CM	Flowering	Fragrant					
TIFE.	SOLITAR	RY OR IN PAIRS	NO					
		Type	Color					
F	ruit	LEGUME	GRAY/BLACK					
		Edible	Fruiting season					
SIZE:								
Gr	owth	Rate	Longevity					
Growth		MEDIUM	0-25 YEARS					
		ECOLOGY						
		Temperature	Drought resistant					
Climate		remperature	Drought roototant					
Cli	mate	-5°C,H4,Z6	MODERATE					

ECOLOGY								
Climate	Temperature	Drought resistant						
Cilmate	-5°C,H4,Z6	MODERATE						
ALTITUDE: 0-1000	Sun exposure	Frost resistant						
IRRIGATION: MODERATE	SUN	MODERATE						
Soil	Texture	Salt resistant						
3011	LOAMY	MODERATE						
pH: 6.5-7.5	Drainage	Lime resistant						
FERTILITY: MODERATE	MODERATE	MODERATE						

USES								
Resista	nces	Applications						
COASTAL:	2ND LINE	SLOPES:	NO	HEDGE ROWS:	NO			
POLLUTION:	MODERATE	RIVERBANKS:	NO	BORDERS:	NO			
WIND:	MODERATE	GROUPS:	YES	ISOLATED:	YES			



POINTS OF INTEREST

Commonly known as broom or cythysse. These shrubs are resistant, fast-growing and are made up of multiple and very thin branches. It is recommended to plant brooms with other shrubs and perennial plants in groups to recreate scenes with a strong natural accent. Given its tendency to become bare at its lower part over time (which can be considered unsightly) planting smaller-growing species (such as medium-growing heathers) at its base is recommended. It is used as a rockery plant. Although it is considered a deciduous shrub, it acts as an evergreen.

PLANTING AND PLANT HEALTH

They prefer sunny or very bright exposures but should be planted at a good distance from coastal areas. Although they prefer acidic soils, they support poor and loose ones. Prune only when absolutely necessary and after flowering. If pruned during the winter the following season's growth will be at risk. No more than half of the stems that have given flowers should be pruned. This shrubs supports moderate irrigation, without overwatering or waterlogging. Propagation is by seed. Hybrids are propagated by cuttings in summer, after flowering.

CHROMATIC CALENDAR											
			Fo	liage, Flo	owering a	and Fruiti	ng seasc	n			
JAN I	FEB	MAR	ABR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC
				С	ultivation	Calenda	r				
JAN F	FEB	MAR	ABR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC
						\blacksquare	XXXX	XX			
Sowing		Plan	ting	P	runing	Х					
				Т	reatment	Calenda	r				
JAN F	FEB	MAR	ABR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC
	\blacksquare										
Fungicid	les		Pesticid	es		Fertilizers					

COMMERCIALIZATION								
Presentation (L)	Height (cm)	Topiary shapes						
CT(5)	60-80							
CT(10)	80-100							
CT(30)	125-150							

Datura Datura arborea

ROMPO FRARI VALENCIAN ORNAMENTAL SHRUB FRENCH SPANISH ENGLISH STRUCTURE DIVISION: PHANEROGAMS VARIFTIES Shape Height Diameter SUBDIVISION: ANGIOSPERMS TYPE: DICOTYLEDONS Texture Shade Root ORDER: SOLANALES MEDIUM PARTIAL SCATTERED FAMILY: SOLANACEAE

MORPHOLOGY						
Tr	unk					
1.	eaf	COMPOUND:	NO			
_	cai	HARDNESS:	SOFT			
SEMI-P	ERSISTENT	ARRANGEMENT:	ALTERNATE			
SIZE:	LEAF:10-12CM	VENATION:	PINNATE			
		SHAPE:	OVOID			
COLOR: US	: GREEN	MARGIN:	ENTIRE			
LS	:GREEN	APEX:	ACUTE			
TEXTURE: US: PUBESCENT LS: PUBESCENT		LEAF BASE:	ATTENUATE			
		PETIOLE:	SHORT			
Flower		Type	Reproduction			
	WEI	HERMAPHRODITE	HERMAPHRODITE			
SIZE AND	15-30 CM	Flowering	Fragrant			
TIPE.	SINGLE IN	FLORESCENCE	YES			
		Type	Color			
F	ruit					
SIZE:		Edible	Fruiting season			
Gr	owth	Rate	Longevity			
GIV	J WY L I I	MEDIUM	0-25 YEARS			
		ECOLOGY				

ECOLOGY							
Clim	ata.	Temperature	Drought resistant				
Cillin	ale	-3°C,,H4,Z6	MODERATE				
ALTITUDE: 0-500		Sun exposure	Frost resistant				
IRRIGATION:	MODERATE	SUN	MODERATE				
So		Texture	Salt resistant				
30	"	LOAMY	MODERATE				
pH:	6.5-8	Drainage	Lime resistant				
FERTILITY:	MODERATE	MODERATE	MODERATE				

USES									
Resista	ances	Applications							
COASTAL:	2ND LINE	SLOPES:	NO	HEDGE ROWS:	NO				
POLLUTION:	MODERATE	RIVERBANKS:	NO	BORDERS:	NO				
WIND:	MODERATE	GROUPS:	YES	ISOLATED:	YES				











POINTS OF INTEREST

Commonly known as "Trumpet of Judgment" or "Tree of Trumpets". It is native to Peru, Chile and Ecuador. Of medium-fast growth, it is used as an isolated shrub in gardens due to its striking tubular-bell-shaped hanging flowers which are fragrant at sunset. However, care must be taken due to its toxicity.

SPACING: 2 M

PLANTING AND PLANT HEALTH

Suitable for hot climates, it is sensitive to frost, although it resists light ones. It prefers hardy, light and healthy soils, rich in organic matter. Somewhat resistant to drought and partial shade, but better suited to sun and medium humidity. It requires severe pruning in early spring. Propagation is easy by herbaceous cuttings ir spring.

CHROMATIC CALENDAR COMMERCIALIZATION Foliage, Flowering and Fruiting Season Presentation (L) Height (cm) Topiary shape MAR ABR MAY JUN JUL AUG SEPT OCT CT(5) 60-80 CT(10) 80-100 CT(30) 125-150 Cultivation Calendar FEB MAR ABR MAY JUN JUL AUG OCT NOV DEC Sowina Planting Pruning Treatment Calendar MAR ABR MAY JUN JUL AUG JAN FFB SEPT OCT NOV DEC

FRENCH

Datura

Datura sanguinea

ORNAMENTAL SHRUB STRUCTURE Shape Height Diameter OVAL 3-5 M 3 M Texture Shade Root

DIVISION: SUBDIVISION: TYPE: ORDER: FAMILY: SPANISH
PHANEROGAMS
ANGIOSPERMS
DICOTYLEDONS
SOLANALES
SOLANACEAE

VARIETIES

ME	DIUM	PARTIAL	SCATTERED				
	M	ORPHOLOGY					
Ti	Trunk						
	eaf	COMPOUND:	NO				
-	eai	HARDNESS:	SOFT				
SEMI-P	ERSISTENT	ARRANGEMENT:	ALTERNATE				
SIZE: LEAF: 15-25CM		VENATION:	PINNATE				
		SHAPE:	OVOID				
COLOR: US	S: GREEN	MARGIN:	ENTIRE				
LS	: GREEN	APEX:	ACUTE				
LS:PUBESCENT LS:PUBESCENT		LEAF BASE:	ATTENUATE				
		PETIOLE:	SHORT				
		Type	Reproduction				
Ľ	JWEI	HERMAPHRODITE	HERMAPHRODITE				
SIZE AND	15-20 CM	Flowering	Fragrant				
11112.	SINGLE IN	IFLORESCENCE	YES				
		Type	Color				
F	ruit	CAPSULE					
		Edible	Fruiting season				
SIZE:							
Gr	owth	Rate	Longevity				
31	OWIII	MEDIUM	0-25 YEARS				
		ECOLOGY					
Temperature Drought resistant							
Cli	mate	Temperature	Drought resistant				

Grow	rtn	MEDIUM	0-25 YEARS						
	ECOLOGY								
Climate		Temperature -3°C,H5,Z6	Drought resistan						
ALTITUDE: IRRIGATION:	0-500 MODERATE	Sun exposure	Frost resistan						
Soil		Texture LOAMY	Salt resistant						
pH: FERTILITY:	6.5-8 MODERATE	Drainage MODERATE	Lime resistant MODERATE						
		USES							

USES								
Resista	nces	A	oplic	ations				
COASTAL:	2ND LINE	SLOPES:	NO	HEDGE ROWS:	No			
POLLUTION:	MODERATE	RIVERBANKS:	NO	BORDERS:	No			
WIND:	MODERATE	GROUPS:	YES	ISOLATED:	YES			



VALENCIAN

POINTS OF INTEREST

Native to Colombia, Chile and Peru. It is used as an isolated shrub or in shrub-tree compositions or mixed flowerbeds. It is very decorative due to its elegant flowering. Care must be taken due to its toxicity.

SPACING: 2 M

PLANTING AND PLANT HEALTH

Is sensitive to cold and does not tolerate strong frosts and therefore best adapted to warm climates. It requires hardy, moderately clayey, humus-rich soil with good drainage. Somewhat resistant to drought but welcomes a high irrigation programme in the summer. It is sensitive to root asphyxiation. It prefers medium humidity and sun, although it tolerates partial shade. After flowering it is advisable to reduce the length of the branches by pruning to stimulate new appearance of flowers. Propagation is easy by herbaceous cuttings in spring-summer. Layering to be carried out in spring.

Foliage, Flowering and Fruiting Season JAN FEB MAR ABR MAY JUN JUL AUG SEPT OCT NOV DEC Cultivation Calendar JAN FEB MAR ABR MAY JUN JUL AUG SEPT OCT NOV DEC Sowing Planting Pruning X Treatment Calendar

CHROMATIC CALENDAR

Treatment Calendar											
JAN	FEB	MAR	ABR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC
₩	\blacksquare	${f H}{f H}$	$\overline{}$	${}^{\rm HH}$	\blacksquare	\blacksquare	\blacksquare		$\pm \pm \pm$	\blacksquare	$_{\rm HH}$
Fung	icides		Pesticio	les		Fertilizers					

	Presentation (L)	Height (cm)	Topiary shapes
	CT(5)	60-80	
	CT(10)	80-100	
	CT(30)	125-150	
П			

STRUCTURE

Height

Shade

PARTIAL

Diameter

Root

SCATTERED

Deutzia

Shape

IRREGULAR

Texture

MEDILIM

Deutzia scabra var. candidissima

VALENCIAN

ORNAMENTAL SHRUB

DIVISION: SUBDIVISION: TYPE: ORDER:

FAMILY:

PHANEROGAMS
ANGIOSPERMS
DICOYILEDONS
CORNALES
HYDRANGEACEAE

VARIETIES
PRIDE OF ROCHESTER

	MORPHOLOGY						
Tı	runk						
	eaf	COMPOUND:	NO				
-	cai	HARDNESS:	SOFT				
DEC	IDUOUS	ARRANGEMENT:	OPPOSITE				
SIZE:	LEAF: 3-8 CM	VENATION:	PINNATE				
		SHAPE:	OVAL				
COLOR: US	: DK. GREEN	MARGIN:	DENTATE				
LS	: DK. GREEN	APEX:	ACUTE				
TEXTURE: LS	: ROUGH	LEAF BASE:	ATTENUATE				
US	: TOMENTOSE	PETIOLE:	2-4 mm				
Ele	wer	Type	Reproduction				
	wei	HERMAPHRODITE	HERMAPHRODITE				
SIZE AND	2-4 CM	Flowering	Fragrant				
TIPE.	INFLORESCENC	E IN RACEMES (6-12 CM)	NO				
		Type	Color				
F	uit	CAPSULE					
		Edible	Fruiting season				
SIZE:							
Gr	owth	Rate	Longevity				
l Gi	OWLII	MEDIUM	0-25 YEARS				
FCOLOGY							

	ECOLOGY							
Climate		Temperature	Drought resistant					
		-5°C,H4,Z6	MODERATE					
ALTITUDE:	0-1000	Sun exposure	Frost resistant					
IRRIGATION: M	ODERATE	SUN/PARTIAL SHADE	MODERATE					
Soil		Texture	Salt resistant					
Soil		LOAMY	MODERATE					
pH:	6.5-7.5	Drainage	Lime resistant					
FERTILITY: M	ODERATE	MODERATE	MODERATE					

USES								
Resista	ances	Applications						
COASTAL:		SLOPE:	NO	HEDGE ROWS:	NO			
POLLUTION:	MODERATE	RIVERBANKS:	NO	BORDERS:	NO			
WIND:	MODERATE	GROUPS:	YES	ISOLATED:	YES			



POINTS OF INTEREST

Native to China and Japan. If this shrub has ample space to grow, it will bloom profusely. Given its medium size and low density, it is recommended in small gardens or to form groups in large gardens. It covers its graceful arching branches with snow white flowers in spring. It requires generously mulched soil, dappled shade, and weekly irrigation. Planting evergreens is recommended to hide its characteristic bare base.

SPACING: 1 M

PLANTING AND PLANT HEALTH

It resists frosts but it is affected by late ones. Although undemanding in terms of soil (as long as it is permeable) it prefers fertile ones. It is advisable to maintain a moderate irrigation programme in the summer. It adapts well to sunny or partial shade exposures and medium humidity. It is easy to grow and should be pruned every year after flowering, removing the stems that have flowered and also removing old, unproductive branches. Propagation by semi-woody or woody cuttings in summer autumn.

Foliage, Flowering and Fruiting season ABR MAY JUN JUL AUG SEPT 1 10 10 10 10 10 10 10 Cultivation Calenda FEB MAR ABR MAY JUN AUG NOV Sowing Planting Pruning X Treatments Calendar JUN JUL AUG SEPT OCT NOV JAN FFR MAR ABR MAY

CHROMATIC CALENDAR

opiary Shape
opially Shape

Echium

Echium fastuosum

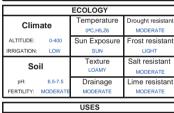
ORNAMENTAL SHRUB VIVORERA SPANISH VALENCIAN ENGLISH FRENCH FRENCH

STRUCTURE					
Shape	Height	Diameter			
IRREGULAR	0.6-1 M	0.6-1 M			
Texture	Shade	Root			
MEDIUM	PARTIAL	SCATTERED			

DIVISION:
SUBDIVISION:
TYPE:
ORDER:
FAMILY:

PHANEROGAMS ANGIOSPERMS DICOTYLEDONS BORAGINALES BORAGINACEAE VARIETIES

MORPHOLOGY					
MORPHOLOGY					
Т	runk				
		COMPOUND:	NO		
	_eaf	HARDNESS:	SOFT		
PER	SISTENT	ARRANGEMENT:	ALTERNATE		
SIZE:	LEAF 5-10 CM	VENATION:	PINNATE		
		SHAPE:	LANCEOLATE		
COLOR: U	S:GREEN/GRAY	MARGIN:	ENTIRE		
L	S: GREEN	APEX:	ACUTE		
TEXTURE: U	S: TOMENTOSE	LEAF BASE:	ATTENUATE		
L	S:TOMENTOSE	PETIOLE:	SHORT		
Flower		Type	Reproduction		
FIG	owei	HERMAPHRODITE	HERMAPHRODITE		
SIZE AND		Flowering	Fragrant		
TYPE:	INFLORESCENCE	IN PANICLE (15-25 CM)	NO		
		Type	Color		
F	ruit	NUT			
		Edible	Fruiting season		
SIZE:					
Growth		Rate	Longevity		
G	OWLII	MEDIUM	0-25 YEARS		
		ECOLOGY			
	imata	Temperature	Drought resistant		
Climate		08C H5 76	MODERATE		



USES							
Resista	Resistances Applications						
COASTAL:	2ND LINE	SLOPES:	NO	HEDGE ROWS:	No		
POLLUTION:	MODERATE	RIVERBANKS:	NO	BORDERS:	NO		
WIND:	MODERATE	GROUPS:	NO	ISOLATED:	YES		



POINTS OF INTEREST

Native to the Canary Islands. Given its beautiful flowering, it is primarily used in isolated groups. It is a striking and undemanding plant related to the edible borage.

SPACING: 1 M

Topiary shape

PLANTING AND PLANT HEALTH

This shrub is delicate to the cold, requires good exposure. It is undemanding in terms of soil although it prefers light and loamy ones. Overwatering and waterlogging must be avoided. It is also hardy when it comes to humidity, preferring full sun. Dry flowering stems should be removed. It can be propagated by seed and cuttings.

CHROMATIC CALENDAR

COMMERCIALIZATION (L) Height (cm)

Γ					Foliage, Flowering Fruiting season							Presentation (L)	
Γ	JAN	FEB	MAR	ABR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC	CT(5)
Е	H												
Ē					С	ultivation	n Calenda	ar					
Г	JAN	FEB	MAR	ABR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC	
Е						XXXX							
	Sowin	g	Plai	nting	Р	runing	Х						
Г					Т	reatmen	t Calenda	ar					
Г	JAN	FEB	MAR	ABR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC	
F	HF	${f H}{f H}$	$oldsymbol{\Pi}$		${f H}{f H}$	${f H}{f H}$		\blacksquare	\blacksquare	\blacksquare	${f H}{f H}$	$\overline{\mathbf{H}}$	
F	ЦП										ш	ш	
L	Fungi	icides		Pesticio	ies		Fertilizers	5	l				

CT(5)	60-80	

Eleagnus Eleagnus pungens

ELEAGNO SPANISH ORNAMENTAL SHRUB VALENCIAN FRENCH ENGLISH DIVISION: STRUCTURE PHANEROGAMS VARIETIES SUBDIVISION: Shape Height Diameter **ANGIOSPERMS** AUREA TYPE: DICOYILEDONS MACULATA ORDER: Texture Shade Root **ROSALES** MEDIUM PARTIAL SCATTERED FAMILY ELEAGNACEAE

MORPHOLOGY				
Tr	unk			
Leaf		COMPOUND:	NO	
	eai	HARDNESS:	SOFT	
PERS	SISTENT	ARRANGEMENT:	ALTERNATE	
SIZE:	LEAF: 4-8 CM	VENATION:	PINNATE	
		SHAPE:	OBLONG	
COLOR: US	: DK. GREEN	MARGIN:	ENTIRE	
LS	: SILVER	APEX:	ACUTE	
TEXTURE: US	S: SMOOTH	LEAF BASE:	ATTENUATE	
LS:SMOOTH		PETIOLE:	SHORT	
Flower		Type	Reproduction	
FIC	WEI	HERMAPHRODITE	HERMAPHRODITE	
SIZE AND	1-1.2 CM	Flowering	Fragrant	
ITFE.	CLUSTERS C	F 2 OR 3 FLOWERS	YES	
		Type	Color	
Fi	ruit	BERRY	RED	
		Edible	Fruiting season	
SIZE: 1.5 CM		YES		
Growth		Rate	Longevity	
Gi	JWIII	MEDIUM	0-25 YEARS	
ECOLOGY				

ECOLOGY					
Climate	Temperature -3°C,H5,Z6	Drought resistant MODERATE			
ALTITUDE: 0-1000	Sun exposure	Frost resistant			
IRRIGATION: MODERATE	SUN/PARTIAL SHADE	MODERATE			
Soil	Texture LOAMY	Salt resistant MODERATE			
pH: 6.5-7.5	Drainage	Lime resistant			
FERTILITY: MODERATE	MODERATE	MODERATE			

USES					
Resista	ances	Applications			
COASTAL:	2ND LINE	SLOPES:	NO	HEDGE ROWS:	YES
POLLUTION:	MODERATE	RIVERBANKS:	NO	BORDERS:	NO
WIND:	MODERATE	GROUPS:	YES	ISOLATED:	YES





POINTS OF INTEREST

Native to China and Japan. It has reddish-brown twigs, mostly spiny. It is cultivated for its foliage. It is easy-to-grow and very suitable for forming hedges in unsheltered places. It is adorned with small scented flowers and produces edible red berries.

PLANTING AND PLANT HEALTH

It prefers warm places, although it resists some cold. It is a hardy soil shrub, growing in any well-drained garden soil except shallow or calcareous ones. It prefers fertile, light and fresh soils, adapting to stony ones. It requires a normal irrigation programme. It is important to keep the soil moist and avoid waterlogging. It requires medium humidity and full sun or part-shade. Pruning is not necessary. In spring, simply cit funwanted branches. Hedges to be trimmed in early and late summer. It propagates by seeds that germinate in the second year, cuttings from semi-woody branches, layering or grafting in July-August.

CHROMATIC CALENDAR	СОМ	MERCIALIZATIO	N
Foliage, Flowering and Fruiting season	Presentation (L)	Height(cm)	Topiary shape
JAN FEB MAR ABR MAY JUN JUL AUG SEPT OCT NOV DEC	CT(5)	60-80	
	CT(10)	80-100	
	CT(30)	125-150	
Cultivation Calendar	` ′		
JAN FEB MAR ABR MAY JUN JUL AUG SEPT OCT NOV DEC			
XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX			
Sowing Planting Pruning X			
Treatment Calendar			
JAN FEB MAR ABR MAY JUN JUL AUG SEPT OCT NOV DEC			
			
Fungicides Pesticides Fertilizers			

FRENCH

Escallonia

MEDIUM

ORNAMENTAL SHRUB

Escallonia rubra var. macrantha

ENGLISH

VALENCIAN

OTTO MILITARE OTTOO							
	STRUCTURE						
Shape	Height	Diameter					
IRREGULAR	1-2 M	1-2 M					
Texture	Shade	Root					

DIVISION: SUBDIVISION: TYPE: ORDER: FAMILY:

SCATTERED

PHANEROGAMS **ANGIOSPERMS** DICOYILEDONS **ESCALLONIALES** ESCALLONIACEAE

ESCALONI SPANISH

VARIETIES	

MORPHOLOGY						
Ti	runk					
Leaf		COMPOUND:	NO			
-	eai	HARDNESS:	CORIACEOUS			
PER	SISTENT	ARRANGEMENT:	ALTERNATE			
SIZE:	LEAF: 2-5 CM	VENATION:	PINNATE			
		SHAPE:	OVAL			
COLOR: US	S: DK. GREEN	MARGIN:	DENTATE			
LS	:GREEN	APEX:	ACUTE			
TEXTURE: US	S: SMOOTH	LEAF BASE:	ATTENUATE			
LS	:SMOOTH	PETIOLE:	SHORT			
Ele	wer	Туре	Reproduction			
FIC	wei	HERMAPHRODITE	HERMAPHRODITE			
SIZE AND 1.5-2 CM						
	1.5-2 CM	Flowering	Fragrant			
SIZE AND TYPE:		Flowering ENCE IN RACEMES	NO			
TYPE:		ENCE IN RACEMES	NO			
TYPE:	INFLORESCI	ENCE IN RACEMES Type	NO			
TYPE:	INFLORESCI	Type CAPSULE	Color			
TYPE:	INFLORESCI	Type CAPSULE	Color			
TYPE:	INFLORESCI	Type CAPSULE Edible	Color Fruiting season			
TYPE:	INFLORESCI	Type CAPSULE Edible Rate	Color Fruiting season Longevity			
F SIZE:	ruit	Type CAPSULE Edible Rate MEDIUM	Color Fruiting season Longevity			
F SIZE:	INFLORESCI	Type CAPSULE Edible Rate MEDIUM ECOLOGY	Color Fruiting season Longevity 0-25 YEARS			

		ECOLOGY	
Clima	ate	Temperature -5°C,H4,Z6	Drought resistant
ALTITUDE:	0-1000	Sun exposure	Frost resistant
IRRIGATION:	MODERATE	SUN/PARTIAL SHADE	MODERATE
Soi	il	Texture LOAMY	Salt resistant MODERATE
pH:	6.5-8	Drainage	Lime resistant
FERTILITY:	MODERATE	MODERATE	MODERATE

USES											
Resista	inces	A	pplic	ations							
COASTAL:	2ND LINE	SLOPES:	NO	HEDGE ROWS:	YES						
POLLUTION:	MODERATE	RIVERBANKS:	NO	BORDERS:	NO						
WIND:	MODERATE	GROUPS:	TES	ISOLATED:	YES						



POINTS OF INTEREST

lative to South America, in particular from Chile and Argentina. The different species of escalonia adapt better to mild climates and mild winters. They grow very well in coastal areas where salt water and sea winds would otherwise kill other shrubs. They are also ideal for composing formal hedges that are frequently cut with pruning shears for topiary. It is often used as a border or natural fencing for gardens of single-family homes and because of their rapid growth, they quickly fulfill their purpose

SPACING: 1 M

PLANTING AND PLANT HEALTH

In areas where strong and repeated frosts occur, they can suffer damage but if pruned, they sprout again in spring. Bright, sunny positions are best, but partial shade is recommended in places with strong summer sunshine. They need fertile soil with an abundance of organic matter, and even fertilizer during the warm season Alkaline soils are not recommended. It is pruned in mid-spring and late summer to maintain its regular shape. If left to grow freely, it is advisable to cut the tips of the branches in winter so that they take on a more compact form.

Foliage, Flowering, Fruiting Season Cultivation Calendar MAR ABR MAY JUN JUL AUG OCT NOV Planting Pruning

CHROMATIC CALENDAR

																												_
	Treatments Calendar																											
JAN	FEB	M	٩R	Α	BR	Т	MA	۱Y	Γ	JU	N	Γ	Jι	JL	Α	UG	5	SEF	Τ	С	C	Г	١	10,	V	[DΕ	С
\mathbf{H}		F	H	H	H	Ŧ	H	Ŧ	F	H	Ŧ	F	H	Ŧ	Ŧ	H	H	H	H	Ŧ	F	H	7	Ŧ	F	H	7	F
Fung	gicides		Т	P	estici	de	S			F	_	Fe	ertil	izers	S		Г					П	_				_	=

	Presentation (L)	Height (cm)	Topiary shape
	CT(5)	60-80	
	CT(10)	80-100	
	CT(30)	125-150	
П			

Euonymus

Euonymus japonicus

ORNAMENTAL SHRUB BONETERO DEL JAPON JAPANESE SPINGLE FUSAIN DU JAPON SPANISH VALENCIAN ENGLISH FRENCH

STRUCTURE						
Shape	Height	Diameter				
OVOID	2-7 M	2-4 M				
Texture	Shade	Root				
MEDIUM	PARTIAL	SCATTERED				

DIVISION: PHANEROGAMS
SUBDIVISION: ANGIOSPERMS
TYPE: DICOTYLEDONS
ORDER: CELASTRAES
FAMILY: CELASTRACEAE

VARIETIES
ALBOMARGINATUS
AUREOMARGINATUS
PRESIDENT GAUTHIER

	M	ORPHOLOGY			
Tru	nk				
Leaf		COMPOUND:	NO		
Lea	11	HARDNESS:	CORIACEOUS		
PERSIS	TENT	ARRANGEMENT:	OPPOSITE		
SIZE: LE	AF: 3-7 CM	VENATION:	PINNATE		
		SHAPE:	OVAL		
COLOR: US: D	K. GREEN	MARGIN:	ASERRATE		
LS: G	REEN	APEX:	ROUNDED		
TEXTURE: US: S	HTOOM	LEAF BASE:	ATTENUATE		
LS: S	MOOTH	PETIOLE:	SHORT		
Flov	vor	Type	Reproduction		
	VCI	HERMAPHRODITE	HERMAPHRODITE		
SIZE AND	0.5-0.8 CM	Flowering	Fragant		
ITFE.	LORESCENCE	IN CYMES (5-12 flowers)	NO		
		Type	Color		
Fru	it	CAPSULE	RED		
		Edible	Fruiting season		
SIZE.	8 MM	NO. TOXIC	NOV-JAN		
Grov	vth	Rate	Longevity		
GIOV	VLII	MEDIUM	50 Years		
ECOLOGY					

		ECOLOGY	
Clim	ate	Temperature -5 ⁸ C,H4,Z6	Drought resistant MODERATE
ALTITUDE:	0-1000	Sun Exposure	Frost resistant
IRRIGATION:	MODERATE	SUN/PARTIAL SHADE	MODERATE
So	il	Texture LOAMY	Salt resistant MODERATE
pH:	6.5-8	Drainage	Lime resistant
FERTILITY:	MODERATE	MODERATE	MODERATE

		USES			
Resista	ances	A	pplic	ations	
COASTAL:	1ST LINE	SLOPES:	NO	HEDGE ROWS:	YES
POLLUTION:	MODERATE	RIVERBANKS:	NO	BORDERS:	YES
WIND:	MODERATE	GROUPS:	YES	ISOLATED:	YES





POINTS OF INTEREST

It is a popular shrub used in gardening for its evergreen leaves and great decorative variety. It has rounded dark green leaves in the original species, but its varieties include different shades and spots of green in its margins. They are primarily used as low clipped hedges and topiary. However, if allowed to grow freely they acquire a very interesting irregular shape. Due to the numerous varieties available, it is important to consider and choose the one that best suits the landscape and the gardeners intended purpose. The names of species are endless but it is worth highlighting the cultivated and widely distributed variety "President Gauthier".

SPACING: 1.5 M

PLANTING AND PLANT HEALTH

They should be planted in rich soil to which large amounts of organic fertilizers have been added. They are very useful plants, especially for calcareous soils. It does not dry out in summer. They grow best with a regular irrigation programme. They tolerate all types of pruning. Normally, in order to keep their shape close and regular, hedges are pruned in mid-spring. It prefers a temperate climate and is resistant to heat. They also prefer moist environments. Propagation by semi-woody cutting in a propagation greenhouse, in spring-summer. It is very sensitive to powdery mildew and mealybugs.

CHROMATIC CALENDAR Foliage, Flowering and Fruiting Season JAN FEB MAR ABR MAY JUN JUL AUG SEPT OCT FEB MAR ABR MAY JUN JUL AUG SEPT OCT Sowina Planting Pruning Treatment Calendar MAY JUN JUL AUG SEPT OCT NOV DEC MAR ABR

Presentation (L)	Height (cm)	Topiary shapes
CT(5)	60-80	Yes
CT(10)	80-100	Yes
CT(30)	125-150	Yes

Genista Genista monosperma RETAMA BLANCA SPANISH

ORNAMENTAL SHRUB STRUCTURE Shape Height Diameter EXTENDED Texture Shade Root

MORPHOLOGY

COMPOUND:

HARDNESS:

RRANGEMENT:

VENATION:

SHAPE:

MARGIN:

LEAF BASE:

PETIOLE

Туре

HERMAPHRODITI

Flowering

Туре

LEGUME

Edible

Rate

APEX:

BASAL TUFT/FLESHY

ALTERNATE

PINNATE

LINEAR

ENTIRE

ACUTE

ATTENUATE

SHORT

Reproduction

HERMAPHRODITE

Fragrant

YES

Color

BROWN

ruiting seasor

Trunk

Leaf

COLOR: US: LIGHT GREEN

EXTURE: US: PUBESCENT

Flower

Fruit

LEAF:05-15cm

LS: LIGHT GREEN

LS: PUBESCENT

SIZE:

TYPE:

DIVISION: SUBDIVISION: TYPE: ORDER: FAMILY:

PHANEROGAMS ANGIOSPERMS DICOTYLEDONS FABALES LEGUMINOSAE

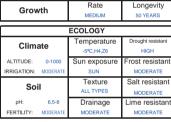
GENÊT FRENCH

ENGLISH

VARIFTIES

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MORNING	100	1 7	W
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	The state of the s	11/	No.

VALENCIAN







POINTS OF INTEREST

This shrub requires little maintenance. Its scientific name Genista, derives from the Celtic word "gen", which means "bush" and was already used in ancient Roman times to define the plants belonging to the genus Genista, Spartium and Cytissus. The genista broom belongs, like the Cytisus, to the populous family of legumes. They are useful for fixing dunes. The vivid color of its flowers and its particular size make this broom suitable for meadows and slopes, large rockeries and curbsides It is advisable to plant genistas in combination with other shrubs and with perennials since this will ensure maxiumum potential of the plant.

PLANTING AND PLANT HEALTH

Soil must be poor, loose and not calcareous. Tolerates limestone and salt. To create a long lasting effect, it should be pruned severely in winter after flowering, bu without cutting old branches. Blooms on wood of the same year. Dormant in summer, green but leafless, photosynthesis is limited to the stems. It supports drought. In general, this shrub requires a moderate irrigation programme but in the hot summer months, a high irrigation programme is recommended. The ideal altitude is less nan 300 m. Propagation by seed, cutting, layering, sprouting and grafting. This shrub can be difficult to transplant in spring.

	CHROMATIC CALENDAR										
			Fo	liage, Flo	wering a	and Fruiti	ng Seas	on			
JAN	FEB	MAR	ABR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC
\blacksquare									##		
				Cı	ultivation	Calenda	ır				
JAN	FEB	MAR	ABR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC
				XXXX							
Sowing Planting Pruning X											
Treatment Calendar											
JAN	FEB	MAR	ABR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC
Fung	icides		Pesticio	des		Fertilizers					

Presentation (L)	Height (cm)	Topiary shape
CT(5)	60-80	
CT(10)	80-100	
CT(30)	125-150	

MEDIUM

Hibiscus Hibiscus rosa-sinensis

ROSA DE CHINA SPANISH ROSE DE CHINE FRENCH ORNAMENTAL SHRUB VALENCIAN ENGLISH STRUCTURE DIVISION: PHANEROGAMS VARIETIES SUBDIVISION: Shape ANGIOSPERMS Height Diameter ROUND TYPE: DICOTYLEDONS ORDER: Texture Shade Root MALVALES

MALVACEAE

·			
	M	ORPHOLOGY	
Tı	runk		
Leaf		COMPOUND:	NO
		HARDNESS:	SOFT
EVE	RGREEN	ARRANGEMENT:	OPPOSITE
SIZE:	LEAF:10-15 CM	VENATION:	PINNATE
		SHAPE:	OVAL
COLOR: US	: DK. GREEN	MARGIN:	CRENATE
LS	: DK. GREEN	APEX:	ACUTE
TEXTURE: US	S: SMOOTH	LEAF BASE:	ATTENUATE
LS: SMOOTH		PETIOLE:	SHORT
Flower		Type	Reproduction
ги	Jwei	HERMAPHRODITE	HERMAPHRODITE
SIZE AND	20-30 CM	Flowering	Fragrant
TIPE.	SOLITAR	RY OR DOUBLE	NO
		Type	Color
F	ruit	CAPSULE	
SIZE: Growth		Edible	Fruiting seasor
		Rate	Longevity
		FAST	0-25 YEARS
		ECOLOGY	
		Temperature	Drought resistant

PARTIAI

SCATTERED

FAMILY:

ECOLOGY						
Climate	Temperature	Drought resistant				
Cilliate	-2°C,H5,Z6	HIGH				
ALTITUDE: 0-500	Sun exposure	Frost resistant				
IRRIGATION: MODERATE	SUN	LIGHT				
Soil	Texture	Salt resistant				
3011	LOAMY	NO				
pH: 6.5-7.5	Drainage	Lime resistant				
FERTILITY: MODERATE	MODERATE	MODERATE				

		USES			
Resista	Α	pplic	ations		
COASTAL:	2ND LINE	SLOPES:	NO	HEDGE ROWS:	NO
POLLUTION:	MODERATE	RIVERBANKS:	NO	BORDERS:	YES
WIND:	MODERATE	GROUPS:	YES	ISOLATED:	YES



POINTS OF INTEREST

Native to tropical Asia. It is recommended to place in heterogeneous shrubby groups or in groups that bring together different varieties of this same species. It can be used to create a good backdrop for mixed borders and is also suitable for emphasizing angles, marking doorways or serving as a pot plant.

SPACING: 2 M

Topiary shape

COMMERCIALIZATION

PLANTING AND PLANT HEALTH

Hot spring and summer periods are necessary for the flowering to develop in all its splendor. In northern regions it is advisable to cultivate by taking advantage of the shelter of a south facing wall. Porous, lime, rather dry and poor soils are ideal for this shrub. The Hibiscus admits cutting and shaping. When flowering on the branches of the same season, it is advisable to severely prune the shoots of the previous year, shortening it to 3 buds on the main structure, at the beginning of spring and before the appearance of new stems.

Foliage, Flowering and Fruiting Season Presentation (L) Height (cm) JAN FEB MAR ABR MAY JUN JUL AUG SEPT OCT NOV DEC CT(5) 60-80 CT(10) 80-100 CT(30) 125-150 **Cultivation Calendar** FEB MAR ABR MAY JUN JUL AUG OCT NOV DEC JAN Planting Pruning Treatment Calendar JAN FEB MAR ABR MAY JUN JUL AUG SEPT OCT NOV Fertilizers

CHROMATIC CALENDAR

Hibiscus syriacus

ORNAMENTAL SHRUB ROSA DE SIRIA SPANISH VALENCIAN ROSE OF SHARON ENCLISH MAUVE EN ARBRE FRENCH STRUCTURE DIVISION: PHANEROGAMS VARIETIES Shape Height Diameter Shape ANGIOS DE PLAN ANGIOS DE PLAN SHAPE ANGIOS DE PLAN SHAPE SHAPE ANGIOS DE PLAN SHAPE SHAPE

STRUCTURE					
Shape	Height	Diameter			
OVOID	2.5-4 M	1.5 M			
Texture	Shade	Root			
MEDIUM	DENSE	SCATTERED			

DIVISION: PHANEROGAMS
SUBDIVISION: ANGIOSPERMS
TYPE: DICOTYLEDONS
ORDER: MALVALES
FAMILY: MALVACEAE

MEDIOM		DENOE	CONTILITED				
MORPHOLOGY							
Tı	runk						
-	.eaf	COMPOUND:	YES				
-	eai	HARDNESS:	SOFT				
DEC	IDUOUS	ARRANGEMENT:	ALTERNATE				
SIZE:	LEAF: 5-8 CM	VENATION:	PINNATE				
	LEAFLET: 5-8	SHAPE:	OBLONG				
COLOR: US: MID GREEN		MARGIN:	LOBULATE				
LS	: SMOOTH	APEX:	ACUTE				
TEXTURE: US	S: SMOOTH	LEAF BASE:	ATTENUATE				
LS	: SMOOTH	PETIOLE:	SHORT				
Flower		Type HERMAPHRODITE	Reproduction HERMAPHRODITE				
SIZE AND	6-10 CM	Flowering	Fragrant				
TYPE:	S	OLITARY	NO				
		Type	Color				
F	ruit	CAPSULE	BROWN				
		Edible	Fruiting seasor				
SIZE:		NO	ı				

Growth	Rate	Longevity				
Growth	MEDIUM/FAST	25 YEARS				
	ECOLOGY					
	ECOLOGI					
Climate	Temperature	Drought resistant				
Cilliate	-6°C,H4,Z6	MODERATE				
ALTITUDE: 0-1000	Sun exposure	Frost resistant				
IRRIGATION: MODERATE	FULL SUN	YES				
Soil	Texture	Salt resistant				
3011	ALL TYPES	MODERATE				
pH: 6-8	Drainage	Lime resistant				
FERTILITY: MODERATE	MODERATE	MODERATE				
Here						

		USES			
Resista	A	pplic	ations		
COASTAL:	2ND LINE	SLOPES:	NO	HEDGE ROWS:	NO
POLLUTION:	MODERATE	RIVERBANKS:	NO	BORDERS:	NO
WIND:	MODERATE	GROUPS:	YES	ISOLATED:	YES



POINTS OF INTEREST

Native to tropical Asia. It is recommended to place in heterogeneous shrubby groups or in groups that bring together different varieties of this same spieces. It can be used to create a good backdrop for mixed borders and is also suitable for emphasizing angles, marking doorways or serving as a pot plant. It has given numerous cultivated varieties and interesting hues that can offer flowers of up to 12 cm.

SPACING: 2 M

PLANTING AND PLANT HEALTH

For temperate climate, it resists cold but is affected by late frosts. It adapts to a wide variety of soils and conditions, preferring well-drained, light, permeable and unfertilized ones (very rich, clayey soils do not favor growth). They require a high irrigation programme in the first months of growth and flowering but once established, it needs little irrigation. Prefers moderate humidity and full sun. Fader inflorescences must be deadheaded. When flowering on the branches of the same season, it is addivished to severely prune the shoots of the previous year, shortening it to 3 buds on the mair structure, at the beginning of spring and before the appearance of new stems. Propagation is easy and carried out in summer by planting 5 cm semi-woody cuttings or tender cuttings in late spring.

	CHROMATIC CALENDAR										
			Fo	oliage, Flo	owering a	and Fruit	ing Seas	on			
JAN	FEB	MAR	ABR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC
ш	##										
	Cultivation Calendar										
JAN	FEB	MAR	ABR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC
Sowin	ng 🔲	Plar	nting	P	runing	Х					
Treatment Calendar											
JAN	FEB	MAR	ABR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC
Fung	icides		Pesticio	des		Fertilizers					

COMMERCIALIZATION								
Presentation (L)	Height (cm)	Topiary shape						
CT(5)	60-80							
CT(10)	80-100							
CT(30)	125-150							

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Jasminum

Jasminum officinale grandiflorum

VARIETIES

GESMILER VALENCIAN JASMIN FRENCH ORNAMENTAL SHRUB ENGLISH

				SI ANISIT	
	STRUCTURE		DIVISION:	PHANEROGAMS	
Shape	Height	Diameter	SUBDIVISION:	ANGIOSPERMS	
ROUND	2-4 M	2 M	TYPE:	DICOTYLEDONS	
Texture	Shade	Root	ORDER:	LAMIALES	
MEDIUM	PARTIAL	SCATTERED	FAMILY:	OLEACEAE	

	M	ORPHOLOGY				
Tr	unk					
	eaf	COMPOUND: YE	S. IMPARIPINNATE			
-	Cai	HARDNESS:	SOFT			
EVE	RGREEN	ARRANGEMENT:	OPPOSITES			
SIZE:	LEAF: 0-15CM	VENATION:	PINNATE			
	LEAFLET:1-7CM	SHAPE:	OVAL			
COLOR: US	B: DK. GREEN	MARGIN:	CRENATE			
LS	: DK. GREEN	APEX:	ACUTE			
TEXTURE: US	S: SMOOTH	LEAF BASE:	ATTENUATE			
LS	: SMOOTH	PETIOLE:	SHORT			
Flo	wer	Type	Reproduction			
		HERMAPHRODITE	HERMAPHRODITE			
SIZE AND	2-3 CM	Flowering	Fragrant			
	INFLORESCENCE IN	PANICLE (2-10 FLOWERS)	YES			
		Type	Color			
F	ruit	CAPSULE				
SIZE:		Edible	Fruiting season			
Gr	owth	Rate	Longevity			
		FAST	0-25 YEARS			
ECOLOGY						

	ECOLOGY								
Climate	Temperature	Drought resistant							
Cilinate	-2ªC,H5,Z6	HIGH							
ALTITUDE: 0-500	Sun Exposure	Frost resistant							
IRRIGATION: MODERATE	SUN	LIGHT							
Soil	Texture	Salt resistant							
3011	LOAMY	NO							
pH: 6.5-7.5	Drainage	Lime resistant							
FERTILITY: MODERATE	MODERATE	MODERATE							

USES								
Resista	ances	A	pplic	ations				
COASTAL:	2ND LINE	SLOPES:	NO	HEDGE ROWS:	NO			
POLLUTION:	MODERATE	RIVERBANKS:	NO	BORDERS:	NO			
WIND:	MODERATE	GROUPS:	YES	ISOLATED:	YES			





POINTS OF INTEREST

Native to Central and Western Asia. In Spain it has found a suitable environment and where it has long been naturalized. It can be left to grow on a wall. Upon reaching the upper parts, it will develop ridges giving it a very interesting volume effect. It can also be used to cover part of a wall by tying down some of its main branches. It is preferable to place it near a living or transit area to enjoy its pleasant fragrance. It is an ideal species to include as a terrace or porch plant, where its aesthetic and fragrant effect will create a more pleasant space.

Topiary shape

PLANTING AND PLANT HEALTH

It should be planted in full sun. In northern regions this species requires a sheltered garden area. Plenty of sunshine will guarantee rich and abundant blooms. Soi can be poor but must have good drainage. It is sensitive to cold, but recovers with pruning. It requires normal irrigation. Overwatering and waterlogging must be avioded. It prefers moderate humidity. Pruning is not necessary, although tolerated. After flowering, eliminate dead or unwanted stems. Propagation can be carried out in summer months by layering the branches or planting semi-woody cuttings.

COMMERCIALIZATION CHROMATIC CALENDAR

				Fo	liage, Fl	owering	and Fruit	ing Seas	on				Presentation (L)	Height (cm)
	JAN	FEB	MAR	ABR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC	CT(5)	60-80
	77				0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0	0 0 0 0		CT(10)	80-100
F					С	ultivatio	n Calenda	ar					CT(30)	125-150
	JAN	FEB	MAR	ABR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC		
							\Box	ш				$X \times X \times X$		
	Sowin	g 🔲	Plar	nting	P	runing	Х							
					T	reatmen	Calenda	ar						
	JAN	FEB	MAR	ABR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC		
B	Fungi	cides		Pestici	des		Fertilizers							
L									•					

Ealizea Flowering and Eruiting Coa

Lantana Lantana Lantana camara

ORNAMENTAL SHRUB FRENCH SPANISH VALENCIAN ENGLISH STRUCTURE DIVISION: PHANEROGAMS VARIETIES Shape Height Diameter SUBDIVISION: **ANGIOSPERMS** DICOTYLEDON TYPE: Texture Shade Root ORDER: LAMIALES COARSE CHILI SCATTERED FAMILY: VERBENACEAE MORPHOLOGY Trunk COMPOUND Leaf HARDNESS: SOFT SEMI DED SISTEMT ARRANGEMENT: OPPOSITE SIZE: LEAF: 2-10 CM VENATION: PINNATE SHAPE: OVAL COLOR: US: DK. GREEN MARGIN: CRENATE LS: DK. GREEN APFX: ACUTE EXTURE: US: PUBESCEN LEAF BASE: ATTENUATE LS: PUBESCENT PETIOLE SHORT Туре Reproduction Flower Flowering Fragrant TYPE Color Туре DARK BLUE Fruit DRUPE Edible Fruiting seaso Rate Longevity Growth FAST 0-25 YEARS **ECOLOGY** Temperature Drought resistan Climate -2°C H5 76 HIGH ALTITUDE: Sun exposure IRRIGATION: MODERATI SUN LIGHT Texture Salt resistant Soil pH: 6.5-8 Drainage Lime resistant FERTILITY: MODERATI MODERATE MODERATE/HIGH USES Resistances Applications SLOPES: NO COASTAL: 1ST LINE

POINTS OF INTEREST

Commonly known as "Spanish flag". It is native to the tropics of America. It is a fast growing shrub and is used in groups or to create flower hedges. It is very effective for borders. Its flowery cascades achieve wonderful affects of density and abundance. To do this, it must be planted in a tall planter or on the top of a wall or slope. It spreads easily as a groundcover, colonizing the entire soil surface; as it is able to take root in branch nodes. Only a few specimens are needed to cover a large area.

SPACING: 1 M

PLANTING AND PLANT HEALTH

It is sensitive to cold, preferring warm climates. It should be planted in full sun and in areas with mild winters. Hardy to soils, although it prefers rich and well-drained ones. Tolerates drought, but grows vigorously with a normal garden irrigation programme. Indifferent to humidity, although it prefers medium to high levels. It recovers from the cold with pruning and propagates easily by cutting and by seed. It blooms on year-round wood, so pruning at the beginning of spring or the end of winter is recommended.

	CHROMATIC CALENDAR										
	Foliage, Flowering and Fruiting Season										
JAN	FEB	MAR	ABR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC
				С	ultivation	Calenda	ar				
JAN	FEB	MAR	ABR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC
	XX	XXXX				HH					
Sowin	g 🔲	Plan	ting	P	runing	Х					
				Т	reatment	t Calenda	ar				
JAN	FEB	MAR	ABR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC
Fungi	Fungicides Pesticides Fertilizers										

Presentation (L)	Height (cm)	Topiary Shape
CT(5)	60-80	

COMMERCIALIZATION

POLLUTION: MODERAT

WIND:

MODERAT

RIVERBANKS: NO

GROUPS:

BORDERS: YES

ISOLATED:

Laurus Laurus nobilis

LAUREL SPANISH ORNAMENTAL SHRUB VALENCIAN DIVISION: STRUCTURE PHANEROGAMS VARIETIES SUBDIVISION: Shape Height Diameter **ANGIOSPERMS** PYRAMID TYPE: DICOTYLEDONS Texture Shade ORDER: LAURALES Root COARSE FULL SCATTERED FAMILY: LAURACEAE

	M	ORPHOLOGY					
Tr	unk						
	eaf	COMPOUND:	NO				
_	cai	HARDNESS:	CORIACEOUS				
EVERGREEN SIZE: LEAF: 5-10 CM		ARRANGEMENT:	ALTERNATE				
		VENATION:	PINNATE				
		SHAPE: OB	LONG/LANCEOLATE				
COLOR: US	S: DK. GREEN	MARGIN:	ENTIRE				
LS	: DULL GREEN	APEX:	ACUTE				
TEXTURE: US	S: SMOOTH	LEAF BASE:	ATTENUATE				
LS	: SMOOTH	PETIOLE:	SHORT				
Flo	ower	Type	Reproduction				
		UNISEXUAL	DIOECIOUS				
SIZE AND	0.1-1CM	Flowering	Fragrant				
11112.	INFLORESCENCE	IN UMBEL (4-6 flowers)	SCENTED LEAVES				
		Type	Color				
F	ruit	BERRY	BLACK				
		Edible	Fruiting season				
SIZE:	1-2 CM	NO	EARLY AUTUMN				
Gr	owth	Rate	Longevity				
Gi	OWLII	FAST	0-25 YEARS				
ECOLOGY							

	ECOLOGY							
Clim	ate	Temperature -10°C,H3,Z5	Drought resistant MODERATE					
ALTITUDE:	0-800	Sun exposure	Frost resistant					
IRRIGATION:	MODERATE	SUN	MODERATE					
Soi	il	Texture LOAMY/SANDY	Salt resistant LOW					
pH:	6.5-8	Drainage	Lime resistant					
FERTILITY:	MODERATE	MODERATE	MODERATE					
		HEEE						

USES								
Resista	ances	Applications						
COASTAL:	2ND LINE	SLOPES:	NO	HEDGE ROWS:	YES			
POLLUTION:	HIGH	RIVERBANKS:	NO	BORDERS:	NO			
WIND:	MODERATE	GROUPS:	YES	ISOLATED:	YES			





POINTS OF INTEREST

Native to the Mediterranean basin. Its name lends itself to many historical characters and reminds us of a past full of honors; people who achieved some act of bravery, courage or poetic quality were crowned with it. Painted, embroidered or sculpted laurel wreaths have adorned (still today) a multitude of places and public buildings and, to varying degrees to documents, seals or coats of arms. These large shrubs are ideal to be used isolated in some prominent position in the garden. This is an excellent specimen for topiary. Its leaves are very fragrant and can be used as a condiment.

SPACING: 2 M

PLANTING AND PLANT HEALTH

Laurels prefer sunny positions due to their Mediterranean origin. However, they adapt perfectly to shady areas. In fact, they seem to need protection during the first years of their lives. They are suitable for any soil that has excellent drainage capacity, including calcareous ones, but free of salt. Resists severe pruning and topiary. In spring, remove mis-shapen or damaged stems. Propagation by cutting, seed, layering, sapling and grafting. It is sensitive to coccidia attacks and subsequent damage from leafspot. This is a low maintenance shrub.

	CHROMATIC CALENDAR										
	Foliage, Flowering and Fruiting Season										
JAN	FEB	MAR	ABR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC
				C	ultivation	n Calenda	ır				
JAN	FEB	MAR	ABR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC
		XXXX	XXXX	XXXX							
Sowin	ig	Plar	nting	P	runing	Х					
				Т	reatment	Calenda	r				
JAN	FEB	MAR	ABR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC
\blacksquare	BBB										
Fung	icides		Pesticio	les		Fertilizers					

Presentation (L)	Height (cm)	Topiary shapes
CT(5)	60-80	
CT(10)	80-100	YES
CT(30)	125-150	YES

Myoporum

Myoporum tenuifolium

ORNAMENTAL SHRUB MIOPORO SPANISH VALENCIAN ENGLISH

8	TRUCTURE	
Shape	Height	Diameter
ROUND	3.5 M	3.5 M
Texture	Shade	Root
COARSE	FULL	SCATTERED/FIBROUS

٦	Ш	DIVISION:
٦	Ш	SUBDIVISION:
ı	Ш	TYPE:
٦	Ш	ORDER:
s	Ш	FAMILY:

PHANEROGAMS **ANGIOSPERMS** DICOTYLEDONS LAMIALES SCROPHULARIALES

VARIE	TIES		

	M	ORPHOLOGY						
Tr	unk							
	eaf	COMPOUND:	NO					
-	eai	HARDNESS:	SOFT					
PER	SISTENT	ARRANGEMENT:	ALTERNATE					
SIZE:	LEAF:4.5-10 CM	VENATION:	PINNATE					
		SHAPE: OBI	ONG/LANCEOLATE					
COLOR: US	: DK. GREEN	MARGIN:	ENTIRE					
LS	DK. GREEN	APEX:	ACUTE					
TEXTURE: US	: SMOOTH	LEAF BASE:	ATTENUATE					
LS	SMOOTH	PETIOLE:	SHORT					
Ele	wer	Type	Reproduction					
'''	WEI	HERMAPHRODITE	HERMAPHRODITE					
SIZE AND	1.2CM	Flowering	Fragrant					
TIPE.	INFLORESCENCE	E IN RACEMES (5-9 flowers)	YES					
		Type	Color					
F	ruit	DRUPE	BLACK					
		Edible	Fruiting season					
SIZE:		YES						
Gr	owth	Rate	Longevity					
Oi.	JW111	FAST 25-50 YEAR						
		ECOLOGY						
			Drought resistant					
Cli	mate	ECOLOGY Temperature -5°C,H4,Z6	Drought resistant					
Cli		Temperature						
	: 0-800	Temperature -5ªC,H4,Z6	HIGH					
ALTITUDE	: 0-800 N: LOW	Temperature -5°C,H4,Z6 Sun exposure	HIGH Frost resistant					
ALTITUDE	: 0-800	Temperature -5aC,H4,Z6 Sun exposure sun	HIGH Frost resistant MODERATE					
ALTITUDE	: 0-800 N: LOW	Temperature -5°C,H4,Z6 Sun exposure SUN Texture	Frost resistant MODERATE Salt resistant					

	·	ECOLOGY	•
Clim	ate	Temperature -5 ⁸ C,H4,Z6	Drought resistant
ALTITUDE:	0-800	Sun exposure	Frost resistant
IRRIGATION:	LOW	SUN	MODERATE
So	il	Texture LOAMY/SANDY	Salt resistant
pH:	6.5-8	Drainage	Lime resistant
FERTILITY:	MODERATE	MODERATE	MODERATE
		USES	
Resista	ances	Applic	ations

١			USES			
ı	Resista	ances	A	pplic	ations	
ı	COASTAL:	1ST LINE	SLOPES:	NO	HEDGE ROWS:	YES
ı	POLLUTION:	MODERATE	RIVERBANKS:	NO	BORDERS:	NO
ı	WIND:	HIGH	GROUPS:	YES	ISOLATED:	YES

JAN FEB MAR ABR



POINTS OF INTEREST

Native to Australia and New Zealand. This shrub or small tree can be used in hedges for gardens and windbreakers against saline winds. It is an easy and fastgrowing shrub. Tolerates most soils, position and is resistant to frost. Its beautiful flowers attract bees.

SPACING: 2 I

PLANTING AND PLANT HEALTH

It grows well in lowlands, perfectly resisting proximity to the sea and salinity. Soils can be hardy and they can grow in both sandy and clay-limestone but prefer porous ones. It needs good drainage. This shrub prefers moderate humidity and sun or partial shade. It supports pruning very well. Propagation can be carried out by cutting

)	liage, Flo	wering a	and Fruiti	ng Seas	on				Pres
	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC	
Ī									

				С	ultivatio	n Calenda	ar				
JAN	FEB	MAR	ABR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC
						${f H}{f H}$	${f H}{f H}$				
Sowin	g	Plar	nting	P	runing	Х					

CHROMATIC CALENDAR

	Treatment Calendar																																			
JAN	FE	В	Λ	ΛA	R	Г	Αl	3F	?	П	MA	٩Y	П	Ų	IUI	V	Γ	Jι	JL	Т	Αl	JG	;	S	ΕF	Т	Г	00	ÌΤ	Т	Ν	O١	V	П	DE	С
\blacksquare	Ш	Ŧ	H	Ŧ	Ξ	E	E	Е	В	В	В	Н	3	1	Ξ	E	Н	Н	Ŧ	Ξ	Е	Н	H	\pm	Ŧ	E	Е	Н	1	Ŧ	Ε	E	E	В	\exists	${f \Xi}$
Fung	icides			j			Pe	sti	cic	les	S						Fe	rtil	ize	rs				_								_				_

Presentation (L)	Height (cm)	Topiary shape
CT(2)	30-40	NO
CT(3)	40-50	NO
CT(7)	50-60	NO
CT(30)	80-100	YES
CT(50)	125-150	YES
CT(70)	150-175	YES
CT(85)	175-200	YES

Myrtus Myrtus communis

MURTA VALENCIAN ORNAMENTAL SHRUB DIVISION: VARIETIES STRUCTURE PHANEROGAMS SUBDIVISION: Shapes Height Diameter **ANGIOSPERMS** TYPE: DICOTYLEDONS Shade ORDER: Texture Root MYRTALES COARSE FULL SCATTERED FAMILY: **MYRTACEAE**

	M	ORPHOLOGY					
Tr	unk						
	eaf	COMPOUND:	NO				
L	ear	HARDNESS:	SOFT				
PERS	SISTENT	ARRANGEMENT:	OPPOSITE				
SIZE:	LEAF: 2-5 CM	VENTATION:	PINNATE				
		SHAPE: O	VAL/LANCEOLATE				
COLOR: US	: DK. GREEN	MARGIN:	ENTIRE				
LS	DK. GREEN	APEX:	ACUTE				
TEXTURE: US: SMOOTH		LEAF BASE:	ATTENUATE				
LS	:SMOOTH	PETIOLE:	SHORT				
Ela	wer	Type	Reproduction				
	wei	HERMAPHRODITE	HERMAPHRODITE				
SIZE AND	3 CM	Flowering	Fragrant				
TYPE:	S	OLITARY	YES				
_	_	Type	Color				
Fi	ruit	BERRY	BLACK				
		Edible	Fruiting season				
SIZE:							
Gr	owth	Rate	Longevity				
Gre	JWIII	FAST	25-50 YEARS				
ECOLOGY							

	ECOLOGY	
Climate	Temperature -3°C,H5,Z6	Drought resistant MODERATE
ALTITUDE: 0-500	Sun exposure	Frost resistant
IRRIGATION: MODERATE	SUN/PARTIAL SHADE	LIGHT
Soil	Texture LOAMY	Salt resistant MODERATE/LOW
pH: 6.5-8	Drainage	Lime resistant
FERTILITY: MODERATE	MODERATE	MODERATE

		USES			
Resista	ances	Α	pplic	ations	
COASTAL:	2ND LINE	SLOPES:	NO	HEDGE ROWS:	YES
POLLUTION:	MODERATE	RIVERBANKS:	NO	BORDERS:	NO
WIND:	MODERATE	GROUPS:	YES	ISOLATED:	YES







POINTS OF INTEREST

Commonly known as bayberry or myrtle. This is native to Mediterranean areas. It leaves and flowers are fragrant and thanks to its adaptability to the terrain, it can be used to create formal hedges of any shape. As a free-growing shrub it is suitable to mediterranean gardens together with oleanders, rockroses or potentillas. It lives comfortably in a pot. The myrtle is an inseparable part of the splendid Hispano-Arab palace of the Alhambra, growing and giving its name to one of its most famous interior patios. The Patio de los Arrayanes or de Comares, where it soberly frames the architecture that is reflected in the quadrangular pond.

SPACING: 1 M

PLANTING AND PLANT HEALTH

It is suitable to a sunny and warm exposure, typical of the Mediterranean environment to which it belongs. The soil should be well drained and preferably not too moist, but it will need a high irrigation programme during the hot summer months. This bush is not demanding in terms of soil. It can be pruned at any time, but avoid mid summer so as not to harm flowering and subsequent fruiting. In formal hedges it is best to remove spring budding in June and then cut back in October or November to maintain regularity. Propagation can be carried out in spring, sowing the seeds in glasshouses.

	CHROMATIC CALENDAR										
			Fo	liage, Flo	owering a	and Fruiti	ing Seaso	on			
JAN	FEB	MAR	ABR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC
				0000	0000	0000	0000				
				С	ultivation	Calenda	ar				
JAN	FEB	MAR	ABR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC
XXXX	XXXX	XXXX	XXXX	XXXX	XXXX	$\pm \pm \pm$		XXXX	XXXX	XXXX	XXXX
Sowing Planting Pruning X											
Treatment Calendar											
JAN	FEB	MAR	ABR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC
Fungi	icides		Pesticio	les		Fertilizers	3				

COM	MERCIALIZATIO	N
Presentation (L)	Height (cm)	Topiary shape
CT(2)	15-20	No
CT(3)	20-25	No
CT(7)	25-30	Yes
CT(9)	30-40	Yes
CT(30)	60-80	Yes
CT(50)	80-100	Yes

FULL

SCATTERED

FAMILY:

COARSE

POLLUTION: MODERAT

MODERAT

WIND:

Nerium Nerium oleander

ORNAMENTAL SHRUB SPANISH FRENCH VALENCIAN ENGLISH STRUCTURE DIVISION: PHANEROGAMS VARIETIES SUBDIVISION: Shape Height Diameter **ANGIOSPERMS** VARIEGATA TYPE: DICOTYLEDONES ORDER: Shade Texture Root GENTIANALES

APOCYNACEAE

	M	ORPHOLOGY					
Trunk							
Leaf		COMPOUND:	NO				
		HARDNESS:	CORIACEOUS				
		ARRANGEMENT:	OPPOSITE				
SIZE: LEAF: 20 CM		VENATION:	PINNATE				
		SHAPE:	LANCEOLATE				
COLOR: US	: DK. GREEN	MARGIN:	ENTIRE				
LS	: DK. GREEN	APEX:	ACUTE				
TEXTURE: US: SMOOTH LS: SMOOTH		LEAF BASE:	ATTENUATE				
		PETIOLE:	SHORT				
Flower		Type	Reproduction				
FIC	WEI	HERMAPHRODITE	HERMAPHRODITE				
SIZE AND TYPE:	5CM	Flowering	Fragrant				
INFLORES		CENCE IN CYME	NO				
		Type	Color				
F	ruit	FOLLICLE					
		Edible	Fruiting season				
SIZE:	8-16 CM						
Growth		Rate	Longevity				
		FAST	0-25 YEARS				
ECOLOGY							
CII	mate	Temperature	Drought resistant				
Cili	mate	-5°C,H4,Z6	MODERATE				
ALTITUDE	: 0-500	Sun exposure	Frost resistant				
IRRIGATIO	N: MODERATE	SUN	MODERATE				
	oil	Texture	Salt resistant				
"	OII	ALL TYPES	MODERATE				
pH:	6.5-8	Drainage	Lime resistant				
FERTILITY	: MODERATE	MODERATE	MODERATE				
	<u> </u>	USES					
Resi	stances	Applic	ations				
	: 1ST LINE	SLOPES: NO	HEDGE ROWS: NO				

RIVERBANKS: NO

GROUPS:

BORDERS:

ISOLATED:



POINTS OF INTEREST

Commonly known as oleander. It is native to the Mediterranean region and Portugal. Its leaves and flowers are toxic. It is the only European representative of a predominantly tropical family, the *Apocynaceae*, which characteristically present a milky juice in its leaves and stems, and which in many cases, like that of the oleander, is poisonous. It is cultivated as an ornamental in the form of an isolated shrub, in groups for large parks and in shrubby hedges, for its perennial foliage and showy flowering. It is used to correct unstable terrain and river beds.

SPACING: 2M

PLANTING AND PLANT HEALTH

This shrub grows very well in warm places with low altitude, such as areas near the sea. It resists frost although young branches can be affected. It tolerates a wide variety of well-drained soils. It requires a moderate irrigation programme. It is hardy in terms of environmental humidity and resists dry air. It adapts to all types of light, but does very well in full sun to achieve a more exuberant flowering. If its growth needs to be restricted, it can be pruned annually but generally it is not necessary. If pruned during the winter or before flowering, the plant will bloom profusely. Propagation is by seeds and by cutting.

					liage, Flo							
JAN	FEB	MA	R.	ABR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC
		H	7									
Cultivation Calendar												
JAN	FEB	MA	.R	ABR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC
$X \times X \times X$	XXXX		\blacksquare	XX			HH-	\blacksquare				
Sowin	ıg 💮		Plan	iting	P	runing	Х					
Treatment Calendar												
JAN	FEB	MA	D	ABR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC
07/11	111	1017		\\DI\	101/// 1	0014	JUL	700	OLFI	001	1400	520
\Box		\blacksquare	\blacksquare	ш							ш	\pm
Fundi	icides			Pesticio	les		Fertilizers					

CHROMATIC CALENDAR

Presentation (L)	Height (cm)	Topiary shapes
CT(5)	Shrub	60-80
CT(10)	Shrub	80-100
CT(30)	Shrub	125-150
İ		

Philadelphus

Philadelphus coronarius

ORNAMENTAL SHRUB CELINDA SWEETMOCK-ORANGE SERINGAT, SERINGA SPANISH VALENCIAN ENGLISH FRENCH

	OKNAMENTA	LOTIKOD			SPANISH	VALENCIAN	ENGLISH	FRENCH
ľ	S	TRUCTURE		DIVISION:	PHANEROGAMS		VARIETIES	
ſ	Shape	Height	Diameter	SUBDIVISION:	ANGIOSPERMS			
ı	OVOID/EXTENDED	2-4 M	2-4 M	TYPE:	DICOTYLEDONS			
ſ	Texture	Shade	Root	ORDER:	CORNALES			
l	COARSE	FULL	SCATTERED	FAMILY:	HYDRANGEACEAE			

Trunk Leaf COMPOUND: NO HARDNESS: SOFT DECIDUOUS ARRANGEMENT: OPPOSITE SIZE: LEAF: 48 CM VENATION: PINNATE SHAPE: OVAL COLOR: US: LIGHT GREEN LS: LIGHT GREEN APEX: ACUTE TEXTURE: US: SMOOTH LS: SMOOTH LS: SMOOTH PETIOLE: SHORT
Leaf HARDNESS: SOFT DECIDUOUS SIZE: LEAF: 4-8 CM VENATION: PINNATE SHAPE: OVAL COLOR: US: LIGHT GREEN LS: LIGHT GREEN TEXTURE: US: SMOOTH LEAF BASE: ATTENUATE LES: SMOOTH PETIOLE: SHORT
HARDNESS: SOFT DECIDUOUS ARRANGEIENT: OPPOSITE SIZE: LEAF: 48 CM VENATION: PINNATE SHAPE: OVAL COLOR: US: LIGHT GREEN MARGIN: DENTATE LS: LIGHT GREEN APEX: ACUTE TEXTURE: US: SMOOTH LEAF BASE: ATTENUATE LS: SMOOTH PETIOLE: SHORT
SIZE: LEAF: 48 CM VENATION: PINNATE SHAPE: OVAL COLOR: US: LIGHT GREEN MARGIN: DENTATE LS: LIGHT GREEN APEX: ACUTE TEXTURE: US: SMOOTH LEAF BASE: ATTENNATE LS: SMOOTH PETIOLE: SHORT
SHAPE: OVAL COLOR: US:LIGHT GREEN MARGIN: DENTATE LS:LIGHT GREEN APEX: ACUTE TEXTURE: US: SMOOTH LEAF BASE: ATTENUATE LS: SMOOTH PETIOLE: SHORT
COLOR: US:LIGHT GREEN MARGIN: DENTATE LS:LIGHT GREEN APEX: ACUTE TEXTURE: US: SMOOTH LEAF BASE: ATTENUATE LS: SMOOTH PETIOLE: SHORT
LS: LIGHT GREEN APEX: ACUTE TEXTURE: US: SMOOTH LEAF BASE: ATTENUATE LS: SMOOTH PETIOLE: SHORT
TEXTURE: US: SMOOTH LEAF BASE: ATTENUATE LS: SMOOTH PETIOLE: SHORT
LS: SMOOTH PETIOLE: SHORT
TEHOLE. SHOW
Flor Type Reproduction
HERMAPHRODITE HERMAPHRODIT
SIZE AND 2.5-3.5CM Flowering Fragrant
INFLORESCENCE IN RACEMES (3-7 FLOWERS) YES
Type Color
Fruit CAPSULE
Edilbe Fruiting seaso
SIZE:
Growth Rate Longevity
MEDIUM 0-25 YEARS
ECOLOGY

	ECOLOGY	
Climate	Temperature	Drought resistant
	-5°C,H4,Z6	MODERATE
ALTITUDE: 0-800	Sun Exposure	Frost resistant
IRRIGATION: MODERATE	SUN/PARTIAL SHADE	MODERATE
0-:1	Texture	Salt resistant
Soil	LOAMY/CLAYEY	LOW
pH: 6.5-8	Drainage	Lime resistant
FERTILITY: MODERATE	MODERATE	MODERATE

		USES			
Resista	ances	A	pplic	ations	
COASTAL:	2ND LINE	SLOPES:	NO	HEDGE ROWS:	NO
POLLUTION:	LOW	RIVERBANKS:	NO	BORDERS:	NO
WIND:	MODERATE	GROUPS:	YES	ISOLATED:	YES



POINTS OF INTEREST

Commonly known by its Spainsh name Celinda. It is among the characteristic plants introduced by the Arabs. In ancient times, its branches devoid of pith were used to make flutes. Its large and fragrant flowers make it ideal to cultviate as an ornamental shrub in isolation or in flowerbeds.

SPACING: 1.5 M

PLANTING AND PLANT HEALTH

It prefers a temperate climate, although it resists the cold well. It tolerates all types of soil but does well in light and very siliceous soil mixed with humus. This shrub needs a low irrigation programme. It should be pruned after flowering, eliminating the branches that carry the flowers. The propagation is done by cuttings, during the winter and in a propagation greenhouse.

CHROMATIC CALENDAR COMMERCIALIZATION Foliage, Flowering and Fruiting Season Presentation (L) Height (cm) Topiary shapes ABR MAY JUN JUL AUG SEPT CT(5) 60-80 CT(10) 80-100 CT(30) 125-150 Cultivation Calandar MAR ABR MAY JUN JUL NOV Pruning Sowina Planting Treatment Calendar MAR ABR MAY JUN JUL AUG JAN FFB

Photinia

Trunk Leaf

EVERGREEN

COLOR: US: RED/GREEN

EXTURE: US: SMOOTH

Flower

FERTILITY: MODERATE

SIZE AND TYPE:

LEAF:10-18CM

LS: LGT RED/GREEN

LS: SMOOTH

Photinia x fraseri "Red Robin"

ORNAMENTAL SHRUB

,	STRUCTURE	
Shape	Height	Diameter
OVOID	5 M	3 M
Texture	Shade	Root
COARSE	FULL	SCATTERED

MORPHOLOGY

HARDNESS:

ARRANGEMENT:

VENATION:

SHADE.

MARGIN:

LEAF BASE:

APEX:

Туре

HERMAPHRODITE

Flowering

INFLORESCENCE IN SPIKE (10-16)

CORIACEOUS

ALERNATE

PINNATE

OVAL

SERRATE

ACUTE

ATTENUATE

Reproduction

HERMAPHRODITE

Fragrant

MODERATE

DIVISION: SUBDIVISION: TYPE: ORDER: FAMILY:

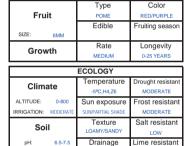
PHANEROGAMS ANGIOSPERMS DICOTYLEDONES ROSALES ROSACEAE

VALENCIAN VARIETIES

20	
3	No.







1						
			USES			
	Resista	ances	Applications			
	COASTAL:	2ND LINE	SLOPES:	NO	HEDGE ROWS:	NO
	POLLUTION:	LOW	RIVERBANKS:	NO	BORDERS:	NO
	MIND	MODERATE	GROUPS:	YES	ISOLATED:	YES

MODERATE



POINTS OF INTEREST

This hybrid made its appearance in 1955 and has become a worthy shrub among garden plants. It is grown more for its foliage than for its flowers and as an isolated plant on flowerbeds or bushy hedges. With the common name fotinia, the tones of its intensely red sprouts stands out, which are present almost all year round. It forms excellent backdrops, informal hedges; either monospecific or in combination with abelias, pieris or evonyms with shaded leaves. It is also used in mixed borders as it will provide a showy touch, especially in the early spring weeks when the garden is somewhat lacking in colour.

SPACING: 2 M

PLANTING AND PLANT HEALTH

It does well in sunny exposures. However, in areas of intense frosts it should be kept sheltered. They thrive in all types of soils including calcareous. These plants compact by nature and of uniform development; do not require pruning. To force the appearance of new red shoots, deadhead the new ones as soon as they begin to ose their color. Requires a normal irrigation programme. Prefers medium humidity. This shrub can be affected by powdery mildew. Propagation can be carried out by semi-woody cuttings in summer.

CHROMATIC CALENDAR

COMMERCIAL IZATION Height (cm)

				лауе, г	owering	and Fruit	ing seas	on			
JAN	FEB	MAR	ABR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC
Cultivation Calendar											
JAN	FEB	MAR	ABR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC
						+	H				
Sowing		Plar	nting	P	runing	Х					
				Т	reatmen	t Calenda	ar				
JAN	FEB	MAR	ABR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC
EE EE	Ħ			\blacksquare			Ш		##		
Fungic	Fungicides Pesticides Fertilizers										

Presentation (L)	Height (cm)	Topiary shape
CT(5)	60-80	
CT(10)	80-100	
CT(30)	125-150	

Pistacia Pistacia lentiscus

ORNAMENTAL SHRUB LENTISCO LLENTISCLE MASTIC TREE ARBRE AU MASTIC FRENCH PROLITE TO THE ENCLISH FRENCH PROLITE TO THE ENCL

•	ord or dividition	L OI II (OB			SPANISH	VALENCIAN	ENGLISH	FRENCH
Γ	STRUCTURE			DIVISION:	PHANEROGAMS		VARIETIES	
Γ	Shape	Height	Diameter	SUBDIVISION:	ANGIOSPERMS			
ı	EXTENDED	3 M	3 M	TYPE:	DICOTYLEDONES			
Γ	Texture	Shade	Root	ORDER:	SAPINDALES			
L	COARSE	FULL	SCATTERED	FAMILY:	ANACARDIACEAE			

MORPHOLOGY					
Trunk					
	oof	COMPOUND:	YES, PARIPINNATE		
Leaf		HARDNESS:	CORIACEOUS		
EVER	RGREEN	ARRANGEMENT:	ALTERNATE		
SIZE:	LEAF: 10 CM	VENATION:	PINNATE		
	LEAFLET:6-12mm	SHAPE: 0	OBLONG/LANCEOLATE		
COLOR: US	S: GREEN	MARGIN:	SMOOTH		
LS	: GREEN	APEX:	ACUTE		
TEXTURE: US	S: SMOOTH	LEAF BASE:	ATTENUATE		
LS	:SMOOTH	PETIOLE:	SHORT		
Ele	wer	Type	Reproduction		
FIC	WEI	UNISEXUAL	DIOECIOUS		
SIZE AND	APETALOUS	Flowering	Fragrant		
TYPE:	INFLORESC	ENCE IN PANICLE	NO		
		Type	Color		
F	ruit	BERRY	RED		
		Edible	Fruiting season		
SIZE:	0.4 CM	NO	AUTUMN		
Gr	owth	Rate	Longevity		
Gi	OWLII	MEDIUM	100 YEARS		

		MEDION	100 TEARS				
		ECOLOGY					
Climate		Temperature	Drought resistant				
		-8°C,H4,Z6	HIGH				
ALTITUDE:	0-800	Sun Exposure	Frost resistant				
IRRIGATION:	LOW	SUN/PARTIAL SHADE	MODERATE/HIGH				
0-:		Texture	Salt resistant				
Soi	ı	LOAMY/SANDY	LOW				
pH:	6.5-8	Drainage	Lime resistant				
FERTILITY:	MODERATE	MODERATE	MODERATE/HIGH				

	USES						
Resista	nces	A	pplic	ations			
COASTAL:	2ND LINE	SLOPES:	NO	HEDGE ROWS:	NO		
POLLUTION:	LOW	RIVERBANKS:	NO	BORDERS:	NO		
WIND:	MODERATE	GROUPS:	YES	ISOLATED:	YES		





POINTS OF INTEREST

Commonly known as lentisco. Its wood has been used in the lumber industry. This species has been cultivated for its ornamental-landscape value. When the stems are bled (making a small cut), a fragrant and astringent resinous juice is released. It has been used as a varnish for paintings, in perfumery, drugs and dentistry. It is also used as chewing gum and for flavouring. From the fruits you can extract an oil for lighting, which is also edible. Firewood is a wonderful fuel and provides top quality charcoal. The lentisco was already used for its resin in the time of the Pharaohs.

SPACING: 1.5 M

PLANTING AND PLANT HEALTH

It tolerates light frosts and resists proximity to the sea. It is part of the maquia, both coastal and continental, in low plant formations and in open areas at the foot of mountains. Its presence will decrease as latitude and continentality increase. It looks spectacular in areas with hot and dry summers. It is indifferent to soils and adapts to dry and rocky soils. It resists drought but benefits from a moderate irrigation programme. It is important not to overwater and to avoid waterlogging. Hardy in humidity, tolerates pruning and propagates by seed and suckers.

CHROMATIC CALENDAR Foliage, Flowering and Fruiting Season JAN FEB MAR ABR MAY JUN JUL AUG SEPT OCT NOV DEC Cultivation Calendar JAN FEB MAR ABR MAY JUN JUL AUG SEPT OCT NOV DEC Sowing Planting Pruning X Treatment Calendar JAN FEB MAR ABR MAY JUN JUL AUG SEPT OCT NOV DEC Fungicides Pesticides Fertilizers

Presentation (L)	Height (cm)	Topiary shapes
CT(5)	60-80	
CT(10)	80-100	

Pittosporum

Pittosporum tobira

ORNAMENTAL SHRUB PITOSPORO SPANISH VALENCIAN ENGLISH FRENCH FRENCH

STRUCTURE						
Shape	Height	Diameter				
ROUND	8 M	8 M				
Texture	Shade	Root				
COARSE	FULL	SCATTERED				

DIVISION:
SUBDIVISION:
TYPE:
ORDER:
FAMILY:
F

PHANEROGAMS
ANGIOSPERMS
DICOTYLEDONES
ROSALES
PITTOSPORACEAE

VARIETIES

MORPHOLOGY						
Tr	unk					
	eaf	COMPOUND:	NO			
"	cai	HARDNESS:	CORIACEOUS			
EVER	RGREEN	ARRANGEMENT:	ALTERNATE			
SIZE:	LEAF: 5-8 CM	VENATION:	PINNATE			
		SHAPE:	OBLONG/LANCEOLATE			
COLOR: US	: GREEN	MARGIN:	SMOOTH			
LS	: GREEN	APEX:	ROUND			
TEXTURE: US	: SMOOTH	LEAF BASE:	ATTENUATE			
LS	:SMOOTH	PETIOLE:	SHORT			
Ele	wor	Type	Reproduction			
Flower		HERMAPHRODI	TE HERMAPHRODITE			
		HERWAI HRODI	TE HERIMAPHRODITE			
SIZE AND	1 CM	Flowering	Fragrant			
SIZE AND TYPE:			Fragrant Ves			
TYPE:	INFLORES	Flowering	Fragrant			
TYPE:		Flowering ECENCE IN UMBER Type CAPSULE	Fragrant Yes Color			
TYPE:	INFLORES	Flowering ECENCE IN UMBE	Fragrant Ves			
TYPE:	INFLORES	Flowering ECENCE IN UMBEI Type CAPSULE Edible	Fragrant Yes Color Fruiting season			
TYPE: FI SIZE:	INFLORESI ruit	Flowering ECENCE IN UMBER Type CAPSULE Edible Rate	Fragrant Yes Color			
TYPE: FI SIZE:	INFLORESI	Flowering ECENCE IN UMBEI Type CAPSULE Edible	Fragrant Yes Color Fruiting season			
TYPE: FI SIZE:	INFLORESI ruit	Flowering ECENCE IN UMBER Type CAPSULE Edible Rate	Fragrant Yes Color Fruiting season Longevity			
FI SIZE:	INFLORESI ruit	Flowering ECENCE IN UMBER Type CAPSULE Edible Rate MEDIUM	Fragrant Yes Color Fruiting season Longevity 25-50 YEARS			

ECOLOGY						
Climate		Temperature -2°C,H5,Z6	Drought resistant MODERATE			
ALTITUDE:	0-400	Sun exposure	Frost resistant			
IRRIGATION:	MODERATE	SUN/PARTIAL SHADE	LIGHT			
Soi	il	Texture	Salt resistant			
00	"	LOAMY/SANDY	LOW			
pH:	6.5-8	Drainage	Lime resistant			
FERTILITY:	MODERATE	MODERATE	MODERATE/HIGH			

USES						
Resista	nces	Applications				
COASTAL:	1ST LINE	SLOPES:	NO	HEDGE ROWS:	YES	
POLLUTION:	MODERATE	RIVERBANKS:	NO	BORDERS:	NO	
WIND:	MODERATE	GROUPS:	YES	ISOLATED:	YES	



POINTS OF INTEREST

Native to Southern Japan, Korea and China. Its generic name derives from the Greek "pita", which means resin, and "spora", meaning seed, alluding to the seeds that are impregnated with a viscous mucilage. It is used to raise hedges that maintain a good density if they are trimmed regularly. They provide good protection in gardens exposed to the sea wind. They grow well in containers, either in free form or with a well-defined shape.

SPACING: 2 M

PLANTING AND PLANT HEALTH

Hardy shrub with respect to temperature. Withstands proximity to the sea (60-70 cm from the shore). Very hardy to soils, it adapts to sandy and limestone. It requires a normal irrigation programme but avoid overwatering and waterlogging. This shrub is prone to fungi attack when the environment is very humid. Tolerates shady spots and pruning is not essential (except to form hedges or clipped shapes). Propagation occurs by seed in places with a temperate climate, and by cuttings that root easily.

CHROMATIC CALENDAR Foliage, Flowering and Fruiting Season MAY JUN JUL AUG SEPT **Cultivation Calendar** JAN FEB MAR ABR MAY JUN JUL AUG SEPT OCT NOV Sowing Planting Pruning Treatments Calenda JUN JUL IAN FER MAR ARR MAY

COM	COMMERCIALIZATION						
Presentation (L)	Height (cm)	Topiary shape					
CT(5)	60-80	Yes					
CT(10)	80-100	Yes					

COMMEDOIAL IZATION

ORNAMENTAL SHRUB

Polygala myrtifolia **Polygala**

STRUCTURE Shape Height Diameter STRAIGHT/BRANCHED Shade Texture Root COARSE FULL SCATTERED

DIVISION: SUBDIVISION: TYPE: ORDER: FAMILY:

PHANEROGAMS ANGIOSPERMS DICOTYLEDONES POLYGALALES POLYGALACEAE

VARIETIES GRANDIFLORA

	M	ORPHOLOGY	
Tr	unk		
		COMPOUND:	NO
Leaf		HARDNESS:	SOFT
EVER	RGREEN	ARRANGEMENT:	ALTERNATE
SIZE:	LEAF: 2.5-5CM	VENATION:	PINNATE
		SHAPE:	OBOVATE
COLOR: US	: GREEN	MARGIN:	SMOOTH
LS	GREEN	APEX:	ACUTE
TEXTURE: US	: SMOOTH	LEAF BASE:	ATTENUATE
LS	SMOOTH	PETIOLE:	SHORT
Ele	ower	Type	Reproduction
FIC	owei	HERMAPHRODITE	HERMAPHRODITE
SIZE AND	2-3 CM	Flowering	Fragant
TIPE.	INFLORESE	CENCE IN UMBEL	NO
		Type	Color
Fi	ruit	CAPSULE	
		Edible	Fruiting season
SIZE:			
Gr	owth	Rate	Longevity
GIG			25 YEARS
	J	MEDIUM	25 TEARS
		ECOLOGY	25 YEARS

	ECOLOGY						
Clim	-4-	Temperature	Drough resistant				
Cilii	ate	-2°C,H5,Z6	MODERATE				
ALTITUDE:	0-400	Sun exposure	Frost resistant				
IRRIGATION:	MODERATE	SUN/PARTIAL SHADE	LIGHT				
So		Texture	Salt resistant				
30	"	LOAMY/SANDY	LOW				
pH:	6.5-8	Drainage	Lime resistant				
FERTILITY:	MODERATE	MODERATE	MODERATE/HIGH				
		11050					

USES						
Resista	ances	A	pplic	ations		
COASTAL:	2ND LINE	SLOPES:	NO	HEDGE ROWS:	NO	
POLLUTION:	MODERATE	RIVERBANKS:	NO	BORDERS:	NO	
WIND:	MODERATE	GROUPS:	YES	ISOLATED:	YES	



VALENCIAN

POINTS OF INTEREST

Native to the Cape of South Africa. Planted in dry, sunny areas. Throughout the year (except in the hottest months), it bears pea-like purple flowers on evergreen stems. The grandiflora variety has the largest flowers. It responds well to a light pruning that promotes a more compact growth. Polygala myrtifolia can be easily propagated from seed and cuttings, preferably in spring or autumn.

SPACING: 2 N

PLANTING AND PLANT HEALTH

This shrub thrives in humus-rich soils, sunny or partially shaded areas, and with a low irrigation programme in summer. Due to the different species available, it is ecommended to consider which one is better suited to the environmnent in which it will be placed.

CHROMATIC CALENDAR Foliage, Flowering and Fruiting Season JAN FEB MAR ABR MAY JUN JUL AUG SEPT OCT Cultivation Calendar FEB MAR ABR MAY JUN JUL AUG NOV Sowing Planting Pruning Treatment Calendar JUN JUL AUG MAR ABR SEPT OCT NOV JAN FEB

Presentation (L)	Height (cm)	Topiary shapes
CT(5)	60-80	

Pyracantha

Pyracantha coccinea

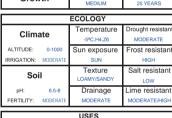
ORNAMENTAL SHRUB ESPINO DE FUEGO FIRETHORN FEAUDORN SPANISH VALENCIAN ENGLISH FRENCH

STRUCTURE							
Shape ROUND	Height 4-6 M	Diameter 4-6 M					
Texture	Shade	Root					
COARSE	FULL	SCATTERED					

DIVISION: SUBDIVISION: TYPE: ORDER: FAMILY: PHANEROGAMS ANGIOSPERMS DICOTYLEDONES ROSALES ROSACEAE

VARIETIES

	MORPHOLOGY						
Tr	unk						
	oof	COMPOUND:	NO				
Leaf		HARDNESS:	CORIACEOUS				
PER	SISTENT	ARRANGEMENT:	ALTERNATE				
SIZE:	LEAF: 2-6.5 CM	VENATION:	PINNATE				
		SHAPE: LI	NEAR/LANCEOLATE				
COLOR: US	S: GREEN	MARGIN: SOI	MEWHAT SERRATED				
LS	: LIGHT GREEN	APEX:	ACUTE				
TEXTURE: US	S: SMOOTH	LEAF BASE:	ATTENUATE				
LS	PUBESCENT	PETIOLE:	SHORT				
FI	ower	Type	Reproduction				
	WCI	HERMAPHRODITE	HERMAPHRODITE				
SIZE AND TYPE:	0.8 CM	Flowering	Fragrant				
1111 E.	INFLORESCENCE	IN UMBEL (2.5-4cm)	NO				
		Type	Color				
F	ruit	POME	ORANGE				
		Edible	Fruiting season				
SIZE:	0.5-0.6 CM	NO	SEPT-FEB				
Gr	owth	Rate	Longevity				
Gi	OWLII	MEDIUM	25 YEARS				
		ECOLOGY					
CII		Temperature	Drought resistant				
Climate		-58C.H4.Z6	MODERATE				



USES							
Resista	A	pplic	ations				
COASTAL:	NO	SLOPES:	YES	HEDGE ROWS:	YES		
POLLUTION:	MODERATE	RIVERBANKS:	NO	BORDERS:	NO		
WIND:	MODERATE	GROUPS:	YES	ISOLATED:	YES		



POINTS OF INTEREST

Commonly known by its English name - firethorn. This shrub is native to Western Asia, Italy and northeast of the Iberian Peninsula. It is highly prized for its evergreen leaves and decorative fruit. They are an interesting species to decorate copses and also to form scattered groups or as isolated specimens. They are often positioned against a north-facing wall, which they quickly cover in a few years. They form impregnable hedges that can be trimmed to give them a geometric appearance without affecting their ability to bear abundant fruit.

SPACING: 1.5 M

PLANTING AND PLANT HEALTH

Resists extreme temperatures. Tolerates most soils (including limestone) but prefers rich, well-drained, light and cool ones. It is also resistant to drought but appreciates a normal irrigation programme (if there is good drainage). Also hardy in terms of humindity. Pruning is not very convenient, but unwanted stems must be removed immediately after flowering (white or pinkish-yellow flowers). It propagates by sowing seeds in glasshouses in spring, or by planting semi-ripe cuttings in summer, also by layering or grafting. Transplanting is difficult and preferably in a container to generate rooting.

CHROMATIC CALENDAR											
			Fo	liage, Fl	lowering a	and Fruit	ing Seas	on			
JAN	FEB	MAR	ABR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC
				(Cultivation	Calenda	ar				
JAN	FEB	MAR	ABR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC
XXXX	XXXX					XX					
Sowin	ıg 🔃	Pla	nting	F	Pruning	Х					
Treatment Calendar											
JAN	FEB	MAR	ABR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC
		$\pm \pm$				$\pm \pm \pm$			\pm		
Fung	icides		Pesticio	les		ertilizers					

	Presentation (L)	Height (cm)	Topiary
	CT(5)	60-80	Yes
	CT(10)	80-100	Yes
i			
Ш			

NERPRUN ALATERNE

Rhamnus Rhamnus alaternus

ORNAMENTAL SHRUB ALADIERNO ALADERM ITALIAN BUCKTHORN SPANISH VALENCIAN ENGLISH ENGLISH

					SPANISH	VALENCIAN	ENGLISH	FRENCH
ſ	STRUCTURE			DIVISION:	PHANEROGAMS		VARIETIES	
Γ	Shape	Height	Diameter	SUBDIVISION:	ANGIOSPERMS			
1	OVOID	1-6 M	1-6 M	TYPE:	DICOTYLEDONES			
Γ	Texture	Shade	Root	ORDER:	ROSALES			
L	COARSE	FULL	SCATTERED	FAMILY:	RHAMNACEAE			

	M	ORPHOLOGY	
Tr	unk		
	eaf	COMPOUND:	NO
-	cai	HARDNESS:	CORIACEOUS
PER	SISTENT	ARRANGEMENT:	ALTERNATE
SIZE:	LEAF: 2-6 CM	VENATION:	PINNATE
		SHAPE:	OBLONG
COLOR: US	S: GREEN	MARGIN:	DENTATE
LS	: LIGHT GREEN	APEX:	ACUTE
TEXTURE: US	S: SMOOTH	LEAF BASE:	ATTENUATE
LS	: SMOOTH	PETIOLE:	SHORT
Flo	wer	Type	Reproduction
		UNISEXUAL	DIOCEIOUS
SIZE AND	∂/M 0.3CM	Flowering	Fragrant
1111 2.	♀F 0.3 CM	INFLOR. IN UMBEL	UNPLEASANT
		Type	Color
Fruit		DRUPE	RED
		Edible	Fruiting season
SIZE: 0.4-0.6		NO	SUMMER/AUTUMN
Gr	owth	Rate	Longevity
Giv	OWLII	MEDIUM	25 YEARS
		E001.00V	

ECOLOGY					
Climate		Temperature -3 ⁸ C,H5,Z6	Drought resistant HIGH		
ALTITUDE:	0-400	Sun Exposure	Frost resistant		
IRRIGATION:	MODERATE	SUN	LOW		
Soil		Texture LOAMY/SANDY	Salt resistant		
pH:	6.5-8	Drainage	Lime resistant		
FERTILITY:	MODERATE	MODERATE	MODERATE/HIGH		
11050					

i			USES			
	5525					
	Resista	ances		pplic	ations	
	COASTAL:	YES	SLOPES:	NO	HEDGE ROWS:	YES
	POLLUTION:	MODERATE	RIVERBANKS:	NO	BORDERS:	NO
	WIND:	HIGH	GROUPS:	YES	ISOLATED:	NO





POINTS OF INTEREST

Native to the Mediterranean region and Portugal. Commonly known by its Spanish name - "Aladierno". This species is popular in gardening for its beautiful foliage, and in the ability to form high or low hedges as it easily supports trimming. The wood is good for turning and cabinet making, although both wood and bark give off an unpleasant odour. The bark is used as a purgative as it contains anthraquinonic principles. The leaves and branches are astringent since they contain a large amount of tannins.

SPACING: 1.5 M

COMMERCIALIZATION

PLANTING AND PLANT HEALTH

CHROMATIC CALENDAR

It is a hardy shrub in relation to temperatures. It tolerates the maritime environment well, being able to grow 30-40 m from the shore. Also hardy with soils, it grows even on sandy and rocky ones, but it prefers clayey-limestone. It tolerates drought but thrives best with some constant moisture. It is hardy in terms of environmenta humidity and accepts pruning. It propagates by semi-ripe cutting, obtained in summer.

Foliage, Flowering and Fruiting season Presentation (L) Height (cm) Topiary shape ABR MAY JUN JUL AUG SEPT CT(5) FEB MAR 60-80 OCT **Cultivation Calendar** FEB MAR ABR MAY JUN JUL AUG NOV Sowing Planting Pruning Treatment Calendar JAN FEB MAR ABR MAY JUN JUL AUG SEPT OCT NOV DEC

Senecio Senecio maritima

ORNAMENTAL SHRUB SPANISH VALENCIAN ENGLISH FRENCH STRUCTURE DIVISION: VARIETIES PHANEROGAMS Shape Height Diameter SUBDIVISION: **ANGIOSPERMS** TYPE: DICOTYLEDONES Texture Shade Root ORDER: **ASTERALES** MEDIUM DADTIA SCATTERED FAMILY: COMPOSITAE MORPHOLOGY Trunk Leaf HADDNESS. SOFT PERSISTENT ARRANGEMENT: ALTERNATE SIZE: LEAF: 5-15 CM VENATION: PINNATE SHAPE: OBLONG

SIZE AND TYPE:	1-1.5 CM	Flowering	Fragrant	
TIFE.	INFLORESCENCE	IN CAPITULUM (1-1.5)	NO	
		Type	Color	
Fruit		ACHENE		
		Edible	Fruiting season	
SIZE:				
Growth		Rate	Longevity	
5	OWIII	FAST	0-25 YEAR	
ECOLOGY				
Climate		Temperature	Drought resistant	
		-2°C,H5,Z6	MODERATE	

MARGIN:

LEAF BASE:

PETIOLE:

Туре

APFX:

PINNATISECT

ROUND

ATTENUATE

SHORT

Reproduction

HEDMADHDODITI

COLOR: US: WHITE

LS: WHITE

LS: TOMENTOSE

EXTURE: US: TOMENTOSE

Flower

ECOLOGY				
Climate		Temperature	Drought resistant	
Cillin	ale	-2°C,H5,Z6	MODERATE	
ALTITUDE:	100-500	Sun exposure	Frost resistant	
IRRIGATION:	MODERATE	SUN	LIGHT	
Cail				
80	:1	Texture	Salt resistant	
So	il	Texture LOAMY/SANDY	Salt resistant MODERATE/HIGH	
So pH:	il 6,5-8			
		LOAMY/SANDY	MODERATE/HIGH	

ı	USES					
ı	Resistances		Α	pplic	ations	
ı	COASTAL:	1ST LINE	SLOPES:	NO	HEDGE ROWS:	NO
ı	POLLUTION:	MODERATE	RIVERBANKS:	NO	BORDERS:	NO
ı	WIND:	MODERATE	GROUPS:	YES	ISOLATED:	YES



POINTS OF INTEREST

lative to the Mediterranean region and commonly known as "cineraria de mar". It is used as an ornamental shrub in groups of bushes and in rockeries. Senecio is highly valued in popular medicine both for its refreshing and emollient properties and for the possibility of extracting from medication against epilepsy, hemorrhages, eve diseases and sore throats. The name Senecio, derives from the Latin "senex" meaning old man (probably due to the white fluff that covers the seeds of these plants).

SPACING: 0.6 M

PLANTING AND PLANT HEALTH

It is a temperate climate shrub that only tolerates light frosts. It grows very well near coastal areas. It prefers loose, rocky, sandy and well-drained soils. Tolerates limestone. It requires a normal irrigation programme but overwatering and waterlogging should be avoided. Prefers medium humidity. Diseased or old branches must be removed. Trim in winter to shape. It can be propagated by cutting.

CHROMATIC CALENDAR COMMERCIALIZATION Foliage, Flowering and Fruiting Season Presentation (L) Height (cm) Topiary Shapes ABR MAY JUN JUL AUG SEPT CT(5) Cultivation Calendar FFB MAR ABR MAY JUN JUL AUG NOV Planting Pruning Sowing Treatment Calendar MAR ABR MAY JUN JUL AUG JAN FEB

Senecio Senecio petasitis

ORNAMENTAL SHRUB SENECIO SPANISH VALENCIAN ENGLISH FRENCH

STRUCTURE			
Shape	Height	Diameter	
OVOID	2 M	2 M	
Texture	Shade	Root	
COARSE	DENSE	SCATTERED	

MODBHOLOGY

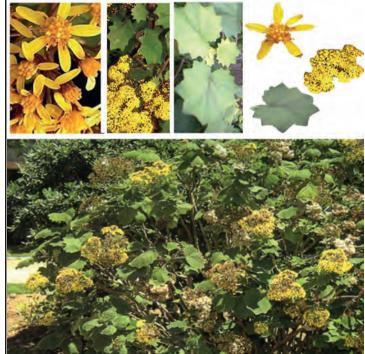
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IVISION:	PHANEROGAMS	VARIETIES
SUBDIVISION:	ANGIOSPERMS	
YPE:	DICOTYLEDONES	
RDER:	ASTERALES	
AMILY:	COMPOSITAE	

		WORPHOLOGY			
Trunk					
	eaf	COMPOUND:	NO		
-	eai	HARDNESS:	SOFT		
PERS	SISTENT	ARRANGEMENT:	ALTERNATE		
SIZE:	LEAF:15-30CM	VENATION:	PINNATE		
		SHAPE:	ROUND		
COLOR: US	: GREEN	MARGIN:	LOBED		
LS	: GRAY	APEX:	ROUND		
TEXTURE: US	: TOMENTOSE	LEAF BASE:	ROUND		
LS	TOMEMTOSE	PETIOLE:	LONG		
Ele	or	Type	Reproduction		
Flower					
		HERMAPHRODITE	HERMAPHRODITE		
SIZE AND	1-1.5 CM	Flowering	Fragrant		
SIZE AND TYPE:	1-1.5 CM				
	1-1.5 CM	Flowering	Fragrant		
TYPE:	1-1.5 CM	Flowering ENCE IN PANICLE	Fragrant NO		
TYPE:	1-1.5 CM INFLORESC	Flowering ENCE IN PANICLE Type	Fragrant NO		
TYPE:	1-1.5 CM INFLORESC	Flowering EENCE IN PANICLE Type ACHENE	Fragrant NO Color		
TYPE: FI SIZE:	1-1.5 CM INFLORESC	Flowering EENCE IN PANICLE Type ACHENE	Fragrant NO Color		
TYPE: FI SIZE:	1-1.5 CM INFLORESC	Flowering EENCE IN PANICLE Type ACHENE Edilbe	Fragrant NO Color Fruiting season		

ECOLOGY					
Climate	Temperature -2ªC,H5,Z6	Drought resistant MODERATE			
ALTITUDE: 0-400	Sun Exposure	Frost resistant			
IRRIGATION: MODERATE	SUN	LIGHT			
Soil	Texture LOAMY	Salt resistant MODERATE			
pH: 6.5-8	Drainage	Lime resistant			
FERTILITY: MODERATE	MODERATE	MODERATE/HIGH			

USES					
Resistances Applications					
COASTAL:	2ND LINE	SLOPES:	NO	HEDGE ROWS:	NO
POLLUTION:	MODERATE	RIVERBANKS:	NO	BORDERS:	NO
WIND:	MODERATE	GROUPS:	YES	ISOLATED:	YES



POINTS OF INTEREST

Native to Southern Mexico. Commonly known as senecio, its name derives from the Latin "senex" meaning old man (probably due to the white fluff that covers the seeds of these plants). It is interesting for its winter flowering and its beautiful velvety foliage. Senecios are highly valued in popular medicine both for their refreshing and emollient properties and for the possibility of extracting medication that can be used against epilepsy, hemorrhages, eye diseases and sore throats.

SPACING: 2 N

PLANTING AND PLANT HEALTH

This shrub should be protected from frost. Prefers rich, well-drained, cool and light soils. It requires a normal irrigation programme but drought and waterlogging musi be avoided. Adapted to moderate humidity. Prune after flowering to slightly shorten the branches that have laready flowered. It can be propagated with semi-rip cuttings in spring-summer.

CHROMATIC CALENDAR COMMERCIALIZATION Foliage, Flowering and Fruiting Season Presentation (L) Height (cm) Topiary Shapes ABR MAY JUN JUL AUG SEPT CT(5) 60-80 CT(10) 80-100 125-150 CT(30) Cultivation Calendar FEB MAR ABR MAY JUN JUL AUG OCT NOV DEC Pruning Sowina Planting Treatment Calendar JAN FEB MAR ABR MAY JUN JUL AUG SEPT OCT NOV DEC

Solanum Solanum rantonnetti

ORNAMENTAL SHRUB FRENCH SPANISH VALENCIAN ENGLISH DIVISION: PHANEROGAMS VARIETIES

STRUCTURE				
Shape	Height	Diameter		
OVOID	2 M	2 M		
Texture	Shade	Root		
COARSE	FULL	SCATTERED		

SUBDIVISIN: TYPE: ORDER: FAMILY:

ANGIOSPERMS DICOTYLEDONS POLEMONIALES SOLANACEAE

	MORPHOLOGY				
Tr	unk				
	eaf	COMPOUND:	NO		
	ear	HARDNESS:	SOFT		
PERS	SISTENT	ARRANGEMENT:	ALTERNATE		
SIZE:	LEAF: 6-15 CM	VENATION:	PINNATE		
		SHAPE:	LANCEOLATE		
COLOR: US	: GREEN	MARGIN:	SMOOTH		
LS	LIGHT GREEN	APEX:	SHARP		
TEXTURE: US	: SMOOTH	LEAF BASE:	ATTENUATE		
LS	TOMENTOSE	PETIOLE:	SHORT		
Flo	wer	Type	Reproduction		
	WCI	HERMAPHRODITE	HERMAPHRODITE		
SIZE AND	2-2.5 CM	Flowering	Fragrant		
	INFLORESC	ENCE IN AXILLARY	NO		
		Type	Color		
Fi	ruit	BERRY	RED		
		Edible	Fruiting season		
SIZE:	2.5 CM	NO	JUN-AUG		
Gra	owth	Rate	Longevity		
Git	744 (11	MEDIUM	0-25 YEARS		
ECOLOGY					
Cli	mate	Temperature	Drought resistant		

	MEDIUM	0-25 YEARS				
	ECOLOGY					
Climate	Temperature -2°C,H5,Z6	Drought resistant				
ALTITUDE: 0-400	Sun exposure	Frost resistant				
IRRIGATION: MODERATE	SUN	LIGHT				
Soil	Texture LOAMY	Salt resistant MODERATE				
pH: 6.5-8	Drainage	Lime resistant				
FERTILITY: MODERATE	MODERATE	MODERATE/HIGH				
LISES						

		USES			
Resista	ances	A	pplic	ations	
COASTAL:			NO	HEDGE ROWS:	NO
POLLUTION:	MODERATE	RIVERBANKS:	NO	BORDERS:	NO
WIND:	MODERATE	GROUPS:	YES	ISOLATED:	NO



POINTS OF INTEREST

Spreading and rounded shrub suitable for being shaped as a tree or on walls. Its clusters of bluish-violet flowers, with a yellow button, appear from summer to autum giving rise to hanging cord-shaped red fruits. This shrub is a combination of species made for its ornamental use, especially in flowerbeds and as an ornamental climber on sheltered walls. The closest wild plants come from Central America. It is pruned to keep it well shaped, removing any damaged or unwanted stems.

SPACING: 1.5 M

PLANTING AND PLANT HEALTH

It requires tropical or subtropical conditions and an abundant irrigation programme during the first stages of growth and then reducing the amount in summer. It is pruned immediately after flowering or in the spring before budding. Trim vigorous stems and remove weak and crowded shoots. Propagation by seed or cutting as vell as division of the root ball in summer.

> Foliage, Flowering and Fruiting season ABR MAY JUN JUI AUG SEPT OCT NOV DEC **Cultivation Calendar** MAY JUN JUL AUG SEPT OCT NOV DEC

Planting

l .											_	_			_	_					_	_		_			_			-
								Т	rea	ıtm	ent	C	ale	nd	ar									_			_		_	
JAN	FEB	MA	R	ΑE	3R	П	MΑ	Υ	7	JUN	1		JU	L		ΑL	IG	S	EF	РΤ	(C	ìΤ	Ι	N	VC	Τ	DE	ΞC	
$\overline{}$	$\overline{}$	\blacksquare	\blacksquare	Ħ	F	Н	F	Ŧ	H	Ŧ	Е	я	Ħ	Ŧ	Е	я	Ŧ	П	7	F	Н	4	Ŧ	Ŧ	F	Ħ	Ŧ	Ŧ	A	Ξ
		ш	Ħ	ш	ᇤ	ш	世	Ħ	Ħ	#	Ħ	ш	ш	±	Ħ	ш	1	Ħ	#	t	ы	⇉	I	土	t	Ħ	士	士	ᆸ	=
Fung	icides			Pe	stici	des	3					Fei	rtili:	zers	3															Ī

CHROMATIC CALENDAR

Height (cm) Presentation (L) Topiary shapes CT(5) 60-80

COMMERCIALIZATION

FFR

JAN

MAR

FEB MAR ABR

Spartium Spartium junceum

GINESTA VALENCIAN ORNAMENTAL SHRUB STRUCTURE DIVISION: PHANEROGAMS VARIETIES SUBDIVISION: Shape Height Diameter **ANGIOSPERMS** TYPE: DICOTYLEDONS Shade ORDER: FABALES Texture Root MEDIUM PARTIAL SCATTERED FAMILY: LEGUMINOSAE

	M	ORPHOLOGY		
Trunk				
Leaf		COMPOUND:	NO	
Lear		HARDNESS:	SOFT	
DECIDUOU	S	ARRANGEMENT:	ALTERNATE	
SIZE: LEAF:	1-3 CM	VENATION:	PINNATE	
		SHAPE:	LANCEOLATE	
COLOR: US: BLUE/	GREEN	MARGIN:	SMOOTH	
LS: LGT BL	.UE/GRN	APEX:	SHARP	
EXTURE: US: SMO	HTC	LEAF BASE:	ATTENUATE	
LS: TOME	NTOSE	PETIOLE:	SHORT	
Flower		Type	Reproduction	
		HERMAPHRODITE	HERMAPHRODITE	
		HERWAPHRODITE	HERMAPHRODITE	
	5 CM	Flowering	Fragrant	
TYPE:				
TYPE: INFLI		Flowering	Fragrant YES Color	
TYPE:		Flowering CE IN RACEMES (20-25)	Fragrant YES	
TYPE: INFLI		Flowering CE IN RACEMES (20-25) Type	Fragrant YES Color	
TYPE: INFLI		Flowering CE IN RACEMES (20-25) Type LEGUME	Fragrant YES Color BLACK	
TYPE: INFLI	DRESCEN B CM	Flowering CE IN RACEMES (20-25) Type LEGUME	Fragrant YES Color BLACK	

ECOLOGY								
Climate	Temperature -3°C,H5,Z6	Drought resistant HIGH						
ALTITUDE: 0-400	Sun exposure	Frost resistant						
IRRIGATION: MOD/LOW	SUN	LIGHT						
Soil	Texture TOLERANT	Salt resistant MODERATE						
pH: 6.5-8	Drainage	Lime resistant						
FERTILITY: MODERATE	MODERATE	MODERATE/HIGH						

		USES			
Resista	ances	A	pplic	ations	
COASTAL:	2ND LINE	SLOPES:	YES	HEDGE ROWS:	NO
POLLUTION:	HIGH	RIVERBANKS:	NO	BORDERS:	NO
WIND:	MODERATE	GROUPS:	YES	ISOLATED:	NO











POINTS OF INTEREST

Commonly known as - fragrant broom- It owes its scientific name -junceum- to the bareness of its stems, which resemble reeds; a distinguishing feature from other brooms. This shrub has almost ceased to emit leaves, since it uses the greenery of its branches to carry out the photosynthesis process. It is a suitable shrub for scenes with a marked natural accent, in which it is complemented by other shrub species dressed in various foliar tones, specifically from the green to yellow range. It is a good honey plant. It is also used as a producer of textile fibers used to make ropes. Its stems, branches and flowers can be used in the dying process.

SPACING: 1.5 M

PLANTNG AND PLANT HEALTH

Commonly found in the dry lands of the Mediterranean and Portugal. Somewhat hardy but does not tolerate harsh winters. It has some resistance to pollution and fire. It is hardy to soils, although it prefers deep, fresh, limestone and permeable ones. It is indifferent to environmental humidity. In the month of March, the previous years' stems can be cut to about 5 cm. Propagation in summer by cuttings and by seed. In cold areas, sowing should be carried out in late spring and the plants should spend the winter months in the greenhouse.

CHROMATIC CALENDAR	СОМ	MERCIALIZATIO	N
Foliage, Flowering and Fruiting season	Presentation (L)	Height (cm)	Topiary shapes
JAN FEB MAR ABR MAY JUN JUL AUG SEPT OCT NOV DEC	CT(5)	60-80	
Cultivation Calendar			
JAN FEB MAR ABR MAY JUN JUL AUG SEPT OCT NOV DEC			
Sowing Planting Pruning X			
Treatment Calendar			
JAN FEB MAR ABR MAY JUN JUL AUG SEPT OCT NOV DEC			
Fungicides Pesticides Fertilizers			

Spiraea Spiraea x arguta

ORNAMENTAL SHRUB SPANISH VALENCIAN ENGLISH FRENCH STRUCTURE DIVISION: PHANEROGAMS VARIFTIES Shape Height Diameter SUBDIVISION: ANGIOSPERAS DICOTYLEDONS TYPE: Texture Shade Root ORDER: **ROSALES** MEDIUM DADTIAL SCATTERED FAMILY: ROSACEAE MORPHOLOGY Trunk Leaf HARDNESS: SOFT DECIDITOLIS ARRANGEMENT: ALTERNATE SIZE: LEAF: 2-8 CM VENATION: PINNATE SHAPE: OBOVATE/OBLONG COLOR: US: GREEN MARGIN: DOUBLE DENTATE LS:LIGHT GREEN APEX: ACUTE EXTURE: US: SMOOTH LEAF BASE: ATTENUATE LS :SMOOTH PETIOLE SHORT Туре Reproduction Flower HERMAPHRODITI HERMAPHRODITI Flowering Fragrant INFLORESCENCE IN CORYMB (3-Color Туре Fruit CAPSULE Edible Fruiting seaso SIZE Rate Longevity Growth MEDIUM 0-25 YEARS ECOLOGY Drought resistar Temperature Climate -5°C H4 76 MODERATE AI TITUDE: Sun exposure Frost resistant IRRIGATION: MODERAT MODERATE Texture Salt resistant Soil LOAMY/SANDY Drainage pH: 6.5-7.5 Lime resistant FERTILITY: MODERAT MODERATE MODERATE/HIGH USES

POINTS OF INTEREST

Commonly known as Spirea. It is a plant of horticultural origin. From the hybridization of S. thunbergii with S. multiflora. It is one of the prettiest spring Spiraea. It is used to create groups and bushy compositions. They are also suitable for forming part of irregular hedges made up of various species of shrubs. They belong to the Rosaceae family, so a generous and showy bloom can be expected.

SPACING: 1.5 M

PLANTING AND PLANT HEALTH

This shrub is resistant to extreme temperatures. It prefers well-drained soils and with a normal irrigation programme. The soil must be well fertilized before planting. It prefers moderate humidity. To obtain abundant flowering, it is necessary to prune about 15 cm from the ground once flowering has completed. Propagation is by cutting

CHROMATIC CALENDAR Foliage, Flowering and Fruiting Season MAR ABR MAY JUN JUI AUG SEPT OCT NOV/ **Cultivation Calendar** JAN FEB MAR ABR MAY JUN JUL AUG SEPT OCT NOV DEC Pruning Treatment Calendar MAR ABR MAY JUN JUL AUG SEPT OCT NOV

- 1			
	Presentation (L)	Height (cm)	Topiary shapes
	CT(5)	60-80	
	CT(10)	80-100	

COMMERCIALIZATION

Resistances

2ND LINE POLLUTION: MODERAT

MODERAT

COASTAL:

WIND:

Applications

YES ISOLATED:

BORDERS: NO

RIVERBANKS: NO

GROUPS:

Syringa Syringa vulgaris

ORNAMENTAL SHRUB SPANISH VALENCIAN ENGLISH STRUCTURE DIVISION: PHANEROGAMS VARIETIES SUBDIVISION: Shape Height Diameter **ANGIOSPERMS** TYPE: DICOTYLEDONS Texture Shade Roor ORDER: LAMIALES MEDIUM PARTIAL SCATTERED FAMILY: OLEACEAE

	M	ORPHOLOGY	
Tı	runk		
-	eaf	COMPOUND:	NO
_	eai	HARDNESS:	SOFT
DEC	IDUOUS	ARRANGEMENT:	OPPOSITE
SIZE:	LEAF: 5-15 CM	VENATION:	PINNATE
		SHAPE: 0	OVAL/CORDIFORM
COLOR: US	: GREEN	MARGIN:	SMOOTH
LS	: LIGHT GREEN	APEX:	ACUTE
TEXTURE: US	S: SMOOTH	LEAF BASE:	ATTENUATE
LS	:SMOOTH	PETIOLE:	LONG
EL	ower	Type	Reproduction
	JWEI	HERMAPHRODITE	HERMAPHRODITE
SIZE AND	0.8-1.9 CM	Flowering	Fragant
TTPE:	INFLORESCENC	E IN RACEMES-10-20 CM	YES
		Type	Color
F	ruit	CAPSULE	
		Edible	Fruiting season
SIZE:			
Gr	owth	Rate	Longevity
G	JWIII	MEDIUM	0-25 YEARS
		ECOLOCY	

		ECOLOGY	
Clima	4-	Temperature	Drought resistant
Climate		-5°C,H4,Z6	MODERATE
ALTITUDE:	0-1000	Sun exposure	Frost resistant
IRRIGATION:	MODERATE	SUN	MODERATE/HIGH
Soi		Texture	Salt resistant
301		LOAMY/SANDY	LOW
Ph:	6.5-7.5	Drainage	Lime resistant
FERTILITY:	MODERATE	MODERATE	MODERATE/HIGH

ı			USES			
ı	Resista	inces	A	pplic	ations	
ı	COASTAL:	2ND LINE	SLOPES:	NO	HEDGE ROWS	NO
ı	POLLUTION:	MODERATE	RIVERBANKS:	NO	BORDERS:	NO
ı	WIND:	MODERATE	GROUPS:	YES	ISOLATED:	YES
1						





POINTS OF INTEREST

Native to Asia Minor and Southeast and Western Europe. The generic name derives from the Greek syrinx (small tube), as its hollowed-out branches were used by Greek shepherds to make their reed flutes (pipes). Due to its ornamental value, it is used in shrubby groups or as part of mixed borders. To appreciate its fragrance, it should be placed in living areas or where people pass through. The flowers are placed in vases. Its essence is used in perfumery. In popular medicine, its leaves have been used as a tonic and febrifuge. The cultivated varieties are very numerous and must be chosen in the nursery. The one with golden leaves stands out, called "Aurea".

SPACING: 1.5 M

PLANTING AND PLANT HEALTH

It is very resistant to cold, it is the most hardy of the genus. It adapts to any garden soil, although they do better in calcareous, deep and fresh ones. It lives on rocky slopes. It requires a normal irrigation programme and moderate environmental humidity. It must be pruned immediately after flowering, eliminating thin and unproductive branches. Deadhead to make the shrub more compact. To achieve single-trunk growth, suckers must be removed periodically. Propagation by graft in the case of varieties, through tender cuttings or layering in summer and by seed for botanical species.

CHROMATIC CALENDAR	COMI	MERCIALIZATIO	N .
Foliage, Flowering and Fruiting season	Presentation (L)	Height (cm)	Topiary shapes
JAN FEB MAR ABR MAY JUN JUL AUG SEPT OCT NOV DEC	CT(5)	60-80	
	CT(10)	80-100	
Cultivation Calendar	CT(30)	125-150	
JAN FEB MAR ABR MAY JUN JUL AUG SEPT OCT NOV DEC			
Sowing Planting Pruning X			
Treatments Calendar			
JAN FEB MAR ABR MAY JUN JUL AUG SEPT OCT NOV DEC			
Fungicides Pesticides Fertilizers			

USES

SLOPES:

GROUPS: YES ISOLATED:

IVERBANKS: NO

Applications

BORDERS:

NO HEDGE ROWS:

Resistances

POLLUTION: MODERAT

1ST LINE

MODERAT

COASTAL:

WIND:

Teucrium Teucrium fruticans

ORNAMENTAL SHRUB SPANISH VALENCIAN ENGLISH STRUCTURE DIVISION: PHANEROGAMS VARIFTIES Shape Height Diameter SUBDIVISION: **ANGIOSPERMS** TYPE: DICOTYLEDONS Texture Shade Root ORDER: LAMIALES LIGHT SCATTERED FAMILY: LAMIACEAE MORPHOLOGY Trunk Leaf HADDNESS. SOFT EVERGREEN ARRANGEMENT: OPPOSITE SIZE: LEAF: 2-4 CM VENATION: PINNATE SHAPE: OVAL/LANCEOLATE COLOR: US: GRAY MARGIN: SMOOTH LS: GRAY APFX: ACUTE EXTURE: US: TOMENTOSI LEAF BASE: ATTENUATE LS: TOMENTOS SHORT PETIOLE Туре Reproduction Flower HERMAPHRODIT SIZE AND TYPE: Flowering 1.5-2.5 CM Fragrant INLFORESCENCE IN RACEMES Color Type Fruit Edible Fruiting season Rate Longevity Growth MEDIUM ECOLOGY Temperature Drought resistan Climate -3°C.H5.Z6 MODERATE ALTITUDE: Sun Exposure Frost resistant IRRIGATION: MOD/LO SUN LIGHT Texture Salt resistant Soil pH: 6.5-8 Drainage Lime resistant FERTILITY: MODERAT MODERATE MODERATE/HIGH

POINTS OF INTEREST

Commonly known in Spanish as "olivilla". Native to the entire Mediterranean area, where it grows on dry hills. This shrub creates interesting foliar contrasts thanks to its general greyish appearance, in mixed plantations or in heterogeneous bush groups. With this bush, irregular geometric figures can be made -cubes, spheres, cones,... It is also very common to use as formal hedges and achieved perfectly due to its rapid growth and the dense branching caused by regular pruning. It was once highly valued as a medicinal plant.

SPACING: 1.5 N

PLANTING AND PLANT HEALTH

This is a hardy shrub in term of temperatures, although it prefers rather mild climates. Also hardy to soils (even limestone) but it prefers well-drained ones. It needs very sunny situations where its coloring will stand out. It resists drought but appreciates a moderate watering. In terms of environmental humidity, it prefers dry places. Pruning is a common practice in this shrub, which is usually maintained with regular or irregular, well-defined shapes. The propagation is easily done by seed, division of bush and by herbaceous cutting under cover.

		CHROMATIC	CALENDAR		
	Fo	liage, Flowering	and Fruiting Sea	ison	
JAN FEB	MAR ABR	MAY JUN	JUL AUG	SEPT OC	T NOV DEC
		Cultivatio	n Calendar		
JAN FEB	MAR ABR	MAY JUN	JUL AUG	SEPT OC	T NOV DEC
Sowing	Planting	Pruning	Х		
		Treatmer	t Calendar		
JAN FEB	MAR ABR	MAY JUN	JUL AUG	SEPT OC	CT NOV DEC
$\overline{\mathbf{H}}$	$\mathbf{H}\mathbf{H}\mathbf{H}$	$\mathbf{H}\mathbf{H}\mathbf{H}$	\overline{H}	+++++	\overline{H}
Fungicides	Pesticio	des	Fertilizers		

	СОМ	MERCIALIZATIO	N
]	Presentation (L)	Height (cm)	Topiary Shapes
]	CT(5)	60-80	
3	CT(10)	80-100	YES

Soil

FERTILITY: MODERAT

Resistances

COASTAL:

6.5-8

2ND LINE POLLUTION: MODERATE LOAMY/SANDY

Drainage

MODERATE USES

RIVERBANKS: NO

SLOPES:

GROUPS:

Viburnum tinus **Viburnum**

DURILLO SPANISH ORNAMENTAL SHRUB VALENCIAN PHANEROGAMS STRUCTURE DIVISION: VARIETIES SUBDIVISION: Shape Height Diameter **ANGIOSPERMS** LUCIDUM OVAL TYPE: DICOTYLEDONS DIPSACALES Texture Shade Root ORDER:

COARSE	FULL	SCATTERED	FAMILY:	CAPRIFOLIACEAE
N	IORPHOLOGY			
Trunk				
Leaf	COMPOUND:	NO		
Leai	HARDNESS:	CORIACEOUS		
PERSISTENT	ARRANGEMENT:	OPPOSITE		2 324
SIZE: LEAF: 4-9 CM	VENATION:	PINNATE	THE COLUMN TWO	
	SHAPE:	OVAL		
OLOR: US: DK. GREEN	MARGIN:	SMOOTH	- 27	
LS: LIGHT GREEN	APEX:	ACUTE		
XTURE: US: SMOOTH	LEAF BASE:	ATTENUATE		A LUCION AND A STATE OF THE PARTY OF THE PAR
LS: TOMENTOSE	PETIOLE:	SHORT		
El	Type	Reproduction	10.00	
Flower	HERMAPHRODITE	HERMAPHRODITE		
0.5-0.6 CM	Flowering	Fragrant	Control of the last	
TYPE: INFLORESCEN	ICE IN CORYMB (7-10 CM)	NO		
	Type	Color	3	
Fruit	OVAL DRUPE	DARK BLUE	77	
	Edible	Fruiting season		- 1x
SIZE: 1CM	NO	SUMMER/AUTUMN	The second second	1000
Growth	Rate	Longevity		
Growth	FAST	25-50 YEARS		
	ECOLOGY			
Climate	Temperature	Drought resistant		The Burney
Cilmate	-5°C,H4,Z6	MODERATE	week to	12 3 21
ALTITUDE: 0-500	Sun exposure	Frost resistant		
RRIGATION: MODERAT	E SUN/PARTIAL SHADE	MODERATE		11 11 11 11 11
	Texture	Salt resistant	The state of the s	

MODERATE

Lime resistant

BORDERS:

Applications



POINTS OF INTEREST

Commonly known by its English name "Laurustinus". This popular European persistent shrub is highly recommended for its persistent leaves and winter flowering Viburnums are all excellent shrubs and suitable for the decoration of flowerbeds and rockeries. The leaves are very bitter and have been used as an antifebrifuge in the form of a decoction. The fruits have been used as purgatives and to combat hydropsy.

SPACING: 2 M

PLANTING AND PLANT HEALTH

Delicate to excessive heat and strong frosts. It lives in forests and evergreen thickets and resists sea winds. It prefers a rich, deep, fresh, somewhat sandy soil,with abundant humus and well- drained (although it can tolerate limestone and stony soils). Excessive watering will cause chlorosis resulting in suffocation. It adapts better to noderate-high humidity. It is pruned by removing old or damaged branches after flowering or in May. However, pruning is not necessary unless the aim is to rejuvenate Propagation by seed in autumn by layering the branches, or in summer by planting semi-woody cuttings.

				СН	ROMATIC	CALEN	DAR				
			F	oliage, Fl	owering	and Fruit	ing seas	on			
JAN	FEB	MAR	ABR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC
				C	ultivatio	n Calenda	ır				
JAN	FEB	MAR	ABR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC
				XXXX	XX	\blacksquare					
Sowin	g 🔲	Plar	nting	F	runing	Х					
				1	reatmen	t Calenda	ır				
JAN	FEB	MAR	ABR	MAY	JUN	JUL	AUG	SEPT	OCT	NOV	DEC
$\pm \pm \pm$	\blacksquare	\blacksquare		\blacksquare		\blacksquare				\blacksquare	
Fung	icides		Pesticio	les		Fertilizers					

	Presentation (L)	Height (cm)	Topiary shapes
	CT(5)	60-80	
П	CT(10)	80-100	
1	CT(30)	125-150	
•			

Vitex Vitex agnus-castus

SAUZGATILLO SPANISH ORNAMENTAL SHRUB FRENCH VALENCIAN ENGLISH STRUCTURE DIVISION: PHANEROGAMS VARIETIES SUBDIVISION: Height ANGIOSPERMS

C	OVOID	2-4 M	2,5 M	TYPE:	DICOTYLEDONS				
Τe	exture	Shade	Root	ORDER:	LAMIALES				
М	IEDIUM	PARTIAL	SCATTERED	FAMILY:	LAMIALCEAE				
	М	ORPHOLOGY				11.3	Server III	0	1
Tı	runk					N		8	34
L	_eaf	COMPOUND: HARDNESS:	PALMATE SOFT			A	Marine .		**
DEC	CIDUOUS	ARRANGEMENT:	OPPOSITE			1			1
	LEAF: 10 CM	VENATION:	PINNATE						
	LEAFLET:5-7CM	SHAPE:	LANCEOLATE		and the second	9 5. 1		THE REAL PROPERTY.	
COLOR: US	S: GREEN/GRAY	MARGIN:	SMOOTH		1000000		(30 ×		
	S: GRAY	APEX:	ACUTE	49		// 输	A	4	
	S: SMOOTH	LEAF BASE:	ATTENUATE	70 10 3			Tamen.		
	S:TOMENTOSE	PETIOLE:	SHORT					A	-
		Type	Reproduction	1.0	A STATE OF THE PARTY OF THE PAR	N. Karal	C. C.		17
Flo	ower	HERMAPHRODITE	HERMAPHRODITE						,
SIZE AND	0.8 CM	Flowering	Fragrant			7	7		
TYPE:	INFLORESCEN	CE IN SPIKES (10-18 CM)	YES	7 9			2		45
		Type	Color	· · ·	20 A 14 1	E	4. 20 34 /	700	
F	ruit	ROUND	BLACK/RED	- 1		Mr. Car			A Transport
		Edible	Fruiting season	19			A PROPERTY.		Se 1 1
SIZE:		YES				李帝 宗帝	Se senting		
Gr	owth	Rate	Longevity	1 A A	THE STATE OF	25.2			
0.	Owtii	MEDIUM	25-50 YEARS	A WAR	A 100 TO	and the second	4	PSI	
		ECOLOGY				100	Same a		
		Temperature	Drought resistant		以为是人作。在	*	1		
Cli	imate	-5 ⁸ C,H4,Z6	MODERATE	7 2 500	THE REAL PROPERTY.		17-2	A STATE OF THE PARTY OF THE PAR	7 12 2
ALTITUDE	E: 0-500	Sun exposure	Frost resistant	人名 /	中国国际	AN SE		No.	
IRRIGATIO	ON: MODERATE	SUN/PARTIAL SHADE	MODERATE	132		PA L	6/2/01/04	4 A	C 25 30
	0-:1	Texture	Salt resistant			Trans.		1	
٠	Soil	Loamy/sandy	MODERATE	201	THE STATE OF THE S	Contract of	A STATE OF THE STA	STATE OF THE PARTY OF	
pH:	6.5-8	Drainage	Lime resistant			A STATE OF		255	
FERTILIT	Y: MODERATE	MODERATE	HIGH		Vin State of the S		40.	30	San Marie
		USES	i	The state of the s				47.22	
Resi	istances		cations	4.7	11/20		Ac News		4
COASTAI		SLOPES: NO	HEDGE ROWS: NO	1	11 11 11		Contract of the second		
	ON: MODERATE	RIVERBANKS: NO	BORDERS: NO	1. 1.					
			1001 1770	ar a				ALC: TANK	and the same

POINTS OF INTEREST

ISOLATED:

YES

Native to southern Europe, Western Asia and the Mediterranean region. Among its most common names are chaste tree, chasteberry and Monk's pepper and it is a colonizing plant. Widely used as a hedge and in private gardens. It has ornamental uses in shrubby groups or isolated, for its abundant flowers. The fruit has an acrid and aromatic flavor and is used as a spice in some regions. When split, it gives off an unpleasant odor and has stimulating properties. It is prevalent for counterfeit pepper.

SPACING: 2 M

PLANTING AND PLANT HEALTH

This shrub is resistant to extreme temperatures and proximity to the sea. It is hardy in terms of soils, adapting to light and dry, even limestone and saline ones Although it can resist drought, it appreciates a normal irrigation programme. Hardy to ambient humidity. It is necessary to severely prune lower the branches in winter. to obtain good flowering. Propagation by seeds, cuttings from semiherbaceous branches, layering or grafting.

CHROMATIC CALENDAR	COM	MERCIALIZATIO	N
Foliage, Flowering and Fruiting Season	Presentation (L)	Height (cm)	Topiary Shapes
JAN FEB MAR ABR MAY JUN JUL AUG SEPT OCT NOV DEC	CT(5)	60-80	
	CT(10)	80-100	
Cultivation Calendar	CT(30)	125-150	
JAN FEB MAR ABR MAY JUN JUL AUG SEPT OCT NOV DEC	11		
	11		
Sowing Planting Pruning X]		
Treatment Calendar	1		
JAN FEB MAR ABR MAY JUN JUL AUG SEPT OCT NOV DEC]		
	11		
Fungicides Pesticides Fertilizers	11		

WIND:

MODERAT

Subchapter 5.3

Commercialization, use and planting

COMMERCIALIZATION OF SHRUBS

The commercial formats of shrubs are based on their height for those species or cultivars that have a predominant vertical growth (Table 5.3.1.), and on their span in those with an extended or horizontal size (Table 5.3.2.).

Height in cm
10/20
20/40
40/60
60/80
80/100
100/125
125/150
150/175
175/200
200/225
225/250

Average diameter of crown in cm.
10/20
20/40
40/60
60/80
80/100

Table 5.3.1.: Measurements for classifying shrubs by height Table 5.3.2.: Measurements for classifying shrubs by crown dimension

A good indication of the format and complexion of the specimen is by the number of main stems that occupy the lower third of the plant. The number of branches or main stems that the shrubs present should be of regular distribution as well as its length and thickness. These features will give an idea of the vigor, balance, and density that the shrub will have in its adulthood.

For example, Arbutus, Choisya, Garrya, Mahonia, Salix caprea and Tamarix should have a minimum of two stems. In Atriplex, Budleya, Cercis, Cotoneaster, Scallonia, Genista, Hibiscus, Jasminum, Ligustrum, Myoporum, Philadelphus and Spiraea a minimum of three. Four or more in Brunfelsia, Deutzia, Duranta, Justicia, Leonotis, Myrtus, Potentilla and Viburnum davidii. A minimum of six is recommended in some Citrus, Hebe, and some Rhododendron.

In the case of large shrubs, the perimeter of the main stem can also be relevant.

Shrub plants intended as hedges must have particularly dense foliage and have a notable basal branching. Tall bushes should have a straight, vertical stem on which a well-shaped crown develops at a certain height above the ground. Suckers, sprouts, and excess branches must have been eliminated to obtain a clear shape in the crown. It is necessary to specify the total height and the stem length if applying this format.

ROOT FORMATS

The production of shrubs in nurseries follows four procedures:

- 1. Bare-root deciduous shrubs: After a first cycle corresponding to the propagation of the young plants, they are planted in the field. Once the desired formats and sizes have been achieved, they are uprooted and marketed in bare root form.
- 2. **Evergreen shrubs with root ball**: After a first cycle corresponding to the propagation of the young plants, they are planted in the field. Once the desired formats and sizes have been achieved, they are uprooted and marketed in root ball form.
- 3. Shrubs with mixed field/container cultivation: After a first cycle corresponding to the propagation of the young plants, they are planted in the field. Once the desired formats and sizes have been achieved, they are uprooted and potted in a container. After a period of rooting and adaptation to the new environment, the plants are marketed.
- 4. **Container-grown shrubs**: After a first cycle corresponding to the propagation, the young plants are potted in progressively larger containers, at least every one or two years depending on the container volume and the vigor and growth of the plant. Once the desired cultivated formats and sizes have been achieved, the plants are marketed.

When dealing with tap root species or varieties, care must be taken to ensure that the tap root has a length of about 20 cm on which sufficient secondary roots have been produced.

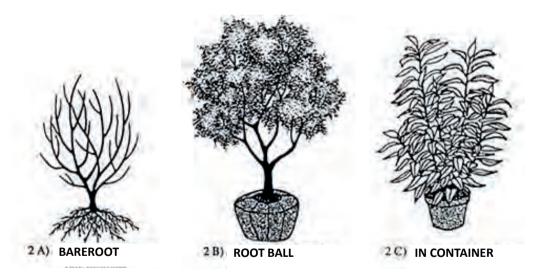


Figure 5.3.1: Root formats of shrubs. 2a - bareroot, 2b - root ball 2c in container (NTJ07F).

DECIDUOUS SHRUBS SUPPLIED IN BARE ROOT

The root system must be consistent with a minimum size stipulated for the species or commercial variety. For example, a shrub of 40/60 cm height should have a root system with a minimum diameter of 20/25 cm. Another shrub measuring 80/100 cm in height, should have a root system with a minimum width of 30 cm and a shrub 125/150 cm tall should have a set of roots greater than 40 cm in diameter. The supply of bare root shrubs should be made from nurseries located in climates similar to where they will be planted.

Generally, bare-root shrubs are supplied by grouping plants of the same format into homogeneous bundles containing 5 to 10 units.

EVERGREEN SHRUBS SUPPLIED IN ROOT BALL

In the case of shrubs supplied with a root ball, the mass of soil should be homogeneous in quality and no added substrate. The root balls will have a volume proportional to the aerial part of the shrub and must be protected and wrapped with a biodegradable mesh that decomposes within 1.5 years from the moment of planting and tied with a similar degradable material. In the case of large specimens, the root ball has a supplementary protection consisting of a non-galvanized metal mesh wrapper or reinforced plaster with non-galvanized mesh.

In the case of large specimens supplied bare root or with root ball, a record of how many times they have been root pruned must be made. This is an important indication of quality, especially in the case of shrubs with a taproot system where the longitudinal growth of the main root has been limited to ensure the development of secondary roots.

Evergreen shrub species should have been periodically root pruned at least every two or three years, depending on the species or commercial variety. This will ensure optimum conditions for the good rooting of the plant in the garden. At least one growing season should have elapsed between the last root pruning and the uprooting of the plant in the nursery. The action of uprooting the shrub prior to its commercialization should not be considered as root pruning.

Height of shrub in cm	Minimum diameter of the root ball	Minimum depth of rootball
20/40	20	15
40/60	20/25	15/20
60/80	25	20
80/100	25/30	20/35
100/125	30/35	25/30
125/150	35/40	30
150/175	40/45	30
175/200	45/50	35
200/225	50/55	35
225/250	55/60	40

Table 5.3.3: Recommended minimum diameter and depth of the root ball according to the height of the shrub. From N.T.J.P. (C.I.T.A.P.A.C.)

SHRUBS SUPPLIED IN CONTAINERS

The production and supply of shrubs in containers eliminate the severe constraints of bare-root planting in winter and root ball planting in spring and fall, since container-produced shrubs can be planted practically any time of the year, except for the months with the highest evapotranspiration. A good indication of quality containerized shrubs is the absence of root spiraling. This phenomenon of hypogeal

growth will impede the future development of the roots of the shrub in the garden. In addition, roots that protrude from the container's drainage holes will affect future development as well as the use of pots or containers with non-degradable meshes, which in the latter case is unacceptable.

Height of shrub in cm	Recommended minimum volume of container in	Upper and exterior diameter of container in
	litres	cm
20/40	1.5/2	15/16
40/60	2	16
60/80	3	18
80/100	3-5	18/22
100/125	5	22
125/150	7.5	24
150/175	10	26

Table 5.3.4.: Minimum recommended volume of container in terms of height N.TJ.P. (C.I.T.A.P.A.C.)

SUBSTRATE

The substrate used in the production of containerized shrubs must have a composition that does not cause undesirable water movements leading to serious excesses or defects in moisture in the roots after planting.

In the case of acid soil shrubs (*Rhododendron, Hydrangea, Camellia...*), a substrate with physical-chemical characteristics adapted to this type of plant must be used.

The presence of evergreen weeds and mosses must be avoided and inspected at the source.

PLANT HEALTH

Irrespective of the species, the shrubs should show obvious health, as well as having a good development and a balanced and proportionate shape. Likewise, balance and proportion in the size of the root ball or obtained in a container is required.

Shrubs should show no signs of diseases, pests, nutritional deficiencies or symptoms of phytotoxicity. Their trunks, stems and branches must be free of burns or wounds and no broken branches or buds must be observed. The roots must not show damage or rot.

The supplier must comply with the current legislation on plant health, especially regarding quarantines for harmful organisms and the supply of the required phytosanitary passport.

LABELING AND DOCUMENTATION

The supplier must identify at least 5% of the shrubs in each lot with a durable label that is correctly and solidly attached to the shrub or to the substrate, with indelible, visible characters, recording: its species

and variety, the material used for rootstock and grafting, number of shrubs in the lot and its commercial format (total height and/or span and container volume, if applicable).

In addition, the plants for their commercialization will be accompanied by a delivery note issued by the supplier in which the following administrative information will be indicated:

- Indication: "CEE quality"
- Member State Code
- Name or identification code of the responsible official body.
- Identification of the nursery or supplier (name and registration or authorization number).
- Document issue date.
 - · Individual serial or batch number
 - · Where applicable, Phytosanitary Passport number.
- Where applicable, Ornamental Label.
- In the case of imports from third countries, the name of the country of production.
- The indication of the Technological Standard NTJ 07F: 1998 on a product represents the commitment by the producer that the product meets the requirements of the Technological Standard.

And the following technical information:

- Botanical name.
- Cultivar denomination.
- Number of shrubs.
- Presentation of the root system.
 - · Bare Root: BR.
 - · Container: C
 - · Pot: P
 - · Root ball: RB.
 - · Gypsum root ball: RB in Gypsum
 - · Root ball with metal mesh: RB M.M.
- Total height and/or span, depending on the case.
- Stem height, in the case of tall shrubs.
- Volume or diameter of the container, indicating after the letter C (container) the volume in liters, or detailing after the letter P (Pot) a figure indicating the upper and outer width of a square pot or the diameter top and outside of a round pot. In this second case, the letter "r" will be placed after the number.
- If the shrubs supplied come from a forest or an existing garden, the extraction must have been carried out in accordance with the provisions of current legislation, and this origin must be recorded on the delivery note.

Additional important descriptions:

- Denomination of the rootstock, if applicable.
- Sex, in the case of dioecious plants with interesting fruit.
- Number of trunks or main stems.
- Number of root prunes, if applicable.
- Presence of a leader, if applicable.
- Thinning, if applicable.
- Cutting back, if applicable.

- Approximate weight of the plant, counting that of the root ball and that of the container, if applicable.
- Last phytosanitary treatment carried out (active material and date).

The plantation framework (spacing) will depend on the adult size and vigor of the species or cultivar being used, the quality of the soil and other characteristics of the medium and cultivation.

SHRUBS - PLANTING

The following general recommendations should be considered when planting shrubs (Table 5.3.5):

Soil conditioning	The soil will be worked at a depth of 60cm.
	The soil layer will be 40cm deep.
General planting of	The planting pit will be 15cm wider than the width of the roots.
shrubs	The pit will be filled up to half with fertile soil enriched with organic matter, subsequently compacting it by tapping down. Then, it will be completely filled and then tapped down again.
Planting climbers	Before planting climbers, the support they will need will be placed. This support will be temporary for those plants that are capable of climbing by themselves
	The trellis will be placed some distance away from the wall
	The planting pit will be 30cm wider than the width of the roots and will be 50cm deep.
	When the plantation is next to the wall, its impermeability to water will be ensured.
	The supports for the branches will be made with non-abrasive material.

Table 5.3.5: Planting requirements - N.TJ.P. (C.I.T.A.P.A.C.)

Subchapter 5.4

Maintenance

BASE DRESSING/FERTILIZATION

Medium to large sized shrubs.

- Interest for its foliage: 0.5 Kg/hole of 8-8-8 (ratio N-P-K)
- Interest for its flowering: 0.5 Kg/hole of 6-9-14 (ratio N-P-K)

Small shrubs and bushes.

- Interest for its foliage: 0.5 Kg/hole of 8-8-8 (ratio N-P-K)
- Interest for its flowering: 0.5 Kg/hole of 6-9-14 (ratio N-P-K)

FERTILIZATION

Ammonium nitrate: 3Kg/hectare
Lime superphosphate : 2.5 Kg/hectare
Potassium superphosphate: 1.5 Kg/hectare
Ammonium Nitrate: 1.5 Kg/hectare
Lime superphospate: 2.5 Kg/hectare
Potassium sulphate: 1.5 Kg/hectare
Ammonium nitrate: 1.5 Kg/hectare

Table 5.4.1.: Fertilizing

IRRIGATION

Nº of watering	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC
		1	1	1	2	3	3	2	1			

Table 5.4.2.: Monthly irrigation

A guideline to monthly irrigation:

Doses: Average: 5 liters per foot of watering/irrigation Maximum: 10 liters per foot of watering/irrigation

PRUNING

Prune for free shapes

Including:

- 1. Deciduous shrubs
- 2. Flowering shrubs
- 3. Evergreen shrubs

The specialist, once in the garden will study how the shrubs or bushes need to be pruned, making a note of the number of old branches, suckers, interior branches, etc. Once analyzed, the removal of all the old branches can begin, ensuring healthy vegetation. When it comes to small and thin branches, secateurs or hand shears are used. If cuts need to be made at great height, a long reach looper is used and if necessary, with extendable handles. When dealing with thick branches, a prune saw is used and if tears occur, they can be filed down.

Once the removal of old branches has been completed, the suckers can be removed. The purpose of this pruning is to maintain the vegetative balance of the bush or shrub, preventing these branches from diminishing the plant's vigor.

Then, the removal of interior branches takes place to allow light and air to penetrate the entire plant, and the shortening of excessively thick branches that prevent the bush from developing a homogenous thickness in all its branches. Finally, the trimming of branches that "invade" other bushes or cover the visibility of lampposts, windows... is carried out. In this cut, an attempt is made to maintain an upright structure, since with subsequent development, the bush tends to open up to the sides.

Once the pruning is finished, a fungicidal paint is applied to all the cuts with a diameter bigger than 2 cms.

Green pruning can be carried out every month and includes the removal of withered branches and flowers. At no time will severe pruning be carried out that could damage the bush.

Formative pruning

It includes pruning for the formation of hedges and subsequently their maintenance.

Guides (strings that stretch over the hedges) are placed and arranged according to the desired shape. If hedges are different heights and you want them uniform, the guide is placed taking the lowest of them as a reference.

With the guide positioned at the top of a hedge, the specialist will make the first cut above the guide; if it is not matched, he passes again in the same direction and then in the opposite direction. When the top is trimmed, the specialist can begin to trim the inner and outer sides equally.

The degree of intervention required will depend on the species and the form it presents, as well as the desired objective. In cypress hedges, 50% of the sprouts should not be cut back more than 10 cm.

Then the adjacent paths are swept and the remains of the pruning are collected and taken directly to the landfill or left in piles that will later be collected and adequately disposed of.

PHYTOSANITARY TREATMENTS

The treatments are carried out at the times indicated below, with the consent of the owner and taking into consideration the species, products and methods. (c.p. = commercial product)

March: Treatment against insects, mites and cryptogamic diseases.

- Abamectin: 0.35 cc/l c.p.
- Thiram 80%: 2.5 g/l

May: Treatment against wax scales, other insects and cryptogamic diseases.

- Metilpirimifos: 1.75 g/l c.p.
- Thiram 80%: 2.5 g/l c.p.

June: Treatment against sucking insects, chewing insects and mites.

- Fenvalerate: 0.75 cc/l p.c.
- Dienochlor: 0.9 g/l p.c.

September: Treatment against sucking insects, chewing insects and mites.

- Abamectina: 0.35 cc/l p.c.
- Thiram 80%: 2.5 g/l

December: Zineb 80%: 2.5 g/l p.c.

February: Zineb 80%: 2.5 g/l p.c.

The presence and symptoms of specific pests and diseases in some plants should be monitored throughout the year:

- Aphids/mites: Treat with Abamectin at 0.75 cc/l p.c. or with Ethiofencarb at 1 cc/l c.p.
- Powdery mildew: White spots on the leaves. Treat with Benomyl at 0.6 g/l as soon as it appears and monitor euonymus in a special way.
- Mealybugs: In oleanders and laurels, especially.
- Snails and slugs: Treat late in the day and water with Metaldehyde at a rate of 10-15 granules/m².
- Citrus whitefly: Butracarboxim at 1.5 cc/l c.p.
- Garden whitefly: Sumimix at 1.2 cc/l c.p.
- Orange miner: Treat with Abamectin + moisturizer at 0.4 and 0.5 cc/l c.p.
- Chlorosis (iron deficiency): Sequestrene 138 F at 3 g/m².

The material and equipment used for the treatment will include:

- Low toxicity phytosanitary product
- Wetting
- Small tank
- Vehicle for displacement
- Masks, aprons, forearm gloves, boots.

The treatment requires only one specialist/technician , who prepares the mixture in the tank or backpack and sprays the infected species.

Phytosanitary treatments are preferably carried out during hours of minimal inconvenience, prior to notifying the owners.

WEEDING AND LIGHT DIGGING

Calendar and frequency

Throughout the year, at least once a month in autumn and winter and twice a month in spring and summer. The material used will include baskets, hoes and rakes, curved knives, small sickles and backpacks for herbicide treatments.

Description

Weeding is carried out by lightly digging the entire surface, although sometimes it also includes mechanical means (low mowing) or chemical means (with non-toxic selective herbicides).

Weeding in clumps of shrubs, flower beds, or ornamental hedges should be made by superficially digging the soil between the plants with a hoe. At the same time, the clods of soil should be crumbled and the uprooted weeds removed. After these operations, the soil should be leveled and raked so that the surface is uniform and free of stones or objects. Finally, the weeds are collected and disposed of in the landfill.

CALENDAR OF OPERATIONS

MONTH	OPERATION
MARCH	Transplanting to bareroot Formative pruning
APRIL	Transplanting of evergreen Substrate
MAY	Maintenance pruning
JUNE JULY AUGUST	Deadhead the flowers from shrubs and trees
OCTOBER NOVEMBER	Deep substrate Maintenance pruning Transplanting evergreen species
DECEMBER JANUARY	Transplanting and pruning (weather permitting)
FEBRUARY	Formative pruning and transplanting of deciduous species

Table 5.4.3: Calendar of annual operations

FREQUENCY OF OPERATIONS

OPERATION	FREQUENCY							
		1 Mar /	1 Nov / 28 Feb					
Irrigating in beds and	Shrubs with or without trees	3 times	Once a week					
platforms	Pots	3 times a week		Once a week				
	Trees, shrubs and hedges	3 times a year as i	ión Técnica					
Base dressing/fertilizing	Prior to any planting							
Fertilizing: Renewal of substrate or remedies	As indicated D. T.							
Weeding or light digging	Once a month							
Cover fertilizing	Spring and Autumn Winter							
Cover lertilizing	5-8 mineral fertilizers 1 organic fertilizer							
Restocking	Shrubs and hedges	As indicated by D. T.						
	Free shapes	Green pruning, light pruning once a month	Formative pruning and rejuvenat once as indicated by D.T.					
Formative pruning	In rose bushes	Traditional pruning (topping and finishing) winter	Remove wilted flowers: spring summer, and autumn					
	In trained forms	Trimming: Once a month	2 trimmings a	s indicated by D.T.				
Phytosanitary treatments	From April to November or as indicated by D.T.							
Herbicides	Monthly							

Table 5.4.4: Calendar of operations and frequency (D.T Technical Director)

Subchapter 5.5

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