

CONTENUTI

- Questo documento contiene l'elenco delle specie più tipicamente utilizzate nelle aree mediterranee per l'agroforestazione. I dati si basano su progetti precedenti e rappresentano una valutazione generica piuttosto che i risultati di specifici studi di settore.
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Tabella 1 - Reddito medio per ettaro per prodotti e specie selezionate. Ordinati per livello di reddito.

| Species | | PRINCIPALE PRODOTTO DA VENDERE | Unità | PRESSO/ unità in EURO | RACCOLTO/ ha STESSA UNITA DELLA COLONNA PRECEDENTE | GUADAGN O/ha in EURO | PRIMO ANNO DI PRODUZIO NE |
|--------------------------|--|--|--------|-----------------------------|---|----------------------------|------------------------------------|
| Red currant | Ribes rubrum | Fruit/berries | KG | 11,8 | 10.000 | 118.000 | Year 4 |
| Curry plant | Helichrysum italicum | Oils | LT | 1280 | 50 | 64.000 | year 2 |
| Black currant | Ribes nigrum | Fruit/berries | KG | 13,5 | 4.500 | 60.750 | Year 4 |
| Raspberry | Rubus idaeus | Fruit/berries | KG | 7,0 | 6.600 | 46.200 | Year 4 |
| Blackberry | Rubus fruticosus | Fruit/berries | KG | 8,7 | 5.000 | 43.500 | Year 4 |
| Blueberry | Vaccinium corymbosum | Fruit/berries | KG | 6,0 | 6.400 | 38.400 | Year 4 |
| Winter savory | Satureja montana | Herbs | KG dry | 15 | 2.500 | 37.500 | Year 2 |
| Caper bush | Capparis sp. Spinosa and others | Vegetables preserved in vinegar | KG | 17 | 2.000 | 34.000 | year 4 |
| Asparagus (wild) | Asparagus sp (officinalis,albidus,aphylus) | Vegetables | KG | 4,8 | 6.400 | 30.720 | Year 3 |
| Laudanum/ rock rose/Jara | Cistus ladanifer | Essential oils | KG | 1517 | 20 | 30.340 | year 10 |
| Mint | Salvia officinalis | Herbs | KG dry | 13 | 2.000 | 26.000 | Year 2 |
| Hart's pennyroyal | Mentha sp. | Herbs | KG dry | 6 | 4.000 | 24.000 | Year 2 |
| Mirabelle plum | Prunus insititia | Fruit | KG | 1,0 | 20.000 | 20.000 | year 6 |
| Saffron crocus | Crocus sativus | Stigmas of the flowers (dry powder) | KG | 1933 | 10 | 19.330 | year 5 |
| Loquat | Eriobotrya japonica | Fruit | KG | 2 | 8.000 | 16.000 | year 5 |



| Lemon balm | Melissa officinalis | Herbs | KG dry | 8 | 2.000 | 16.000 | Year 2 |
|------------------------------|-----------------------------------|-----------------------|---------|-------|-------|--------|---------|
| Нуѕѕор | Hyssopus vulgaris | Herbs | KG dry | 14,5 | 1.000 | 14.500 | Year 2 |
| Oregano | Origanum vulgare | Herbs | KG dry | 14,2 | 1.000 | 14.200 | Year 2 |
| St. John's Wort | Hypericum perfoliatum/ perforatum | Herbs | KG | 26 | 500 | 13.000 | year 5 |
| Sicilian Sumac/ Sommacco | Rhus coriaria | Crushed fruits/ spice | KG | 6,8 | 1.850 | 12.580 | year 4 |
| Fig tree | Ficus carica (and other spp) | Figs | KG | 5,8 | 2.000 | 11.600 | year 4 |
| Portuguese oak | Quercus faginea | Timber | M3 | 110 | 100 | 11.000 | year 70 |
| Sea buckthorns | Hippophae rhamnoides | Berries | KG | 5,0 | 2.000 | 10.000 | year 10 |
| Dragon fruit/ Pitahayas | Hylocereus spp. | Fruits | KG | 2 | 5.000 | 10.000 | year 5 |
| Avocado | Persea Americana | Fruit | KG | 2 | 5.000 | 10.000 | year 5 |
| Stone pine | Pinus pinea | Nut-kernel | KG | 25,7 | 350 | 8.995 | year 20 |
| Kiwifruit | Actinidia spp (deliciosa) | Fruits | KG | 2,2 | 4.000 | 8.800 | year 6 |
| Pot Marigold | Calendula officinalis | Seeds/oils | LT | 88 | 100 | 8.800 | year 2 |
| Rosmary | Rosmarinus officinalis | Herbs | KG dry | 14,2 | 600 | 8.520 | Year 2 |
| Olives | Olea europaea sylvestris | Fruit | KG | 2,1 | 4.000 | 8.400 | |
| Lovage | Levisticum officinale | Herbs | KG dry | 8 | 1.000 | 8.000 | Year 3 |
| Pistachio, Localized variety | Pistacia lenstiscus and other spp | Nut | KG | 7,2 | 850 | 6.120 | year 8 |
| Common hazel nut | Corylus avellana | Nuts | KG | 3,0 | 2.000 | 6.000 | Year 4 |
| Giant Cane | Arundo donax | Biomass | ton dry | 132,0 | 40 | 5.280 | year 10 |
| Blackthorn/ Sloe | Prunus spinosa | Berries | KG | 5,0 | 1.000 | 5.000 | Year 4 |
| Thyme | Thymus sp | Herbs | KG dry | 2,5 | 2.000 | 5.000 | Year 2 |



| Lemon Verbena | Aloysia citrodora | Herbs | KG dry | 3,5 | 1.300 | 4.550 | Year 2 |
|--|-------------------------------------|-------------------------------|--------|-----|-------|-------|---------|
| Grey alder | Alnus Incana | Timber | M3 | 45 | 100 | 4.500 | year 70 |
| Common hawthorn | Crataegus Monogyna (or other spp) | Berries | KG | 4 | 1.000 | 4.000 | Year 5 |
| Southern tea tree | Lycium intricatum | Fruit/ berries | KG | 4,0 | 1.000 | 4.000 | Year 5 |
| Myrtle | Myrtus communis | Berries (for liqueur) | KG | 4,0 | 1.000 | 4.000 | Year 5 |
| Narrow-leaved mock privet/ green olive tree | Phillyrea angustifolia or latifolia | Medicinal fruits | KG | 4,0 | 1.000 | 4.000 | Year 5 |
| Poplar | Populus spp | Timber | M3 | 40 | 100 | 4.000 | year 30 |
| Retama | Retama sphaerocarpa | Medicinal fruits (and brooms) | KG | 4,0 | 1.000 | 4.000 | Year 5 |
| Mediterranean buckthorn (mock privet) | Rhamnus alaternus/ lycioides | Medicinal fruits | KG | 4,0 | 1.000 | 4.000 | Year 5 |
| Dog rose | Rosa canina | Medicinal fruits | KG | 4,0 | 1.000 | 4.000 | Year 5 |
| Wild blackberry | Rubus ulmifolius | Berries | KG | 4,0 | 1.000 | 4.000 | Year 5 |
| Butcher's-broom | Ruscus aculeatus | Medicinal fruits | KG | 4,0 | 1.000 | 4.000 | Year 5 |
| Field Elm | Ulmus minor | timber | M3 | 40 | 100 | 4.000 | year 30 |
| Prickly pear | Opuntia ficus-India | Fruits | KG | 1,2 | 3.000 | 3.600 | Year 5 |
| Walnut | Juglans regia | Nuts | KG | 3,5 | 1.000 | 3.500 | year 6 |
| Apricot | Prunus armenaica | Fruit | KG | 0,8 | 4.000 | 3.200 | year 5 |
| Carob tree | Ceratonia siliqua | Fruits (dried pots) | KG | 1 | 2.700 | 2.700 | year 8 |
| Cork oak | Quercus suber | Cork | KG | 1,3 | 2.000 | 2.600 | year 25 |
| Pomegrenade | Punica granatum | Fruits | KG | 1,0 | 2.500 | 2.500 | year 6 |
| Almond | Prunus dulcis | Nut | KG | 3,5 | 700 | 2.450 | year 6 |



| Lavender | Lavandula angustifolia, or Lavandula luisieri | Herbs | KG dry | 3 | 750 | 2.250 | Year 2 |
|----------------------------|--|-----------------------|---------|-------|--------|-------|---------|
| Chestnut | Castanea sativa | Nut | KG | 2 | 1.100 | 2.200 | year 18 |
| Hemp | Cannabis sativa | Hemp fibre | ton dry | 210,0 | 10 | 2.100 | year 2 |
| Azarole | Crataegus azarolus | Berries | KG | 1,95 | 900 | 1.755 | Year 5 |
| Quince | Cydonia oblonga | Fruits | KG | 0,7 | 2.400 | 1.680 | year 8 |
| Strawberry tree (Medronho) | Arbutus unedo (or andrachne for ITA) | Fruits (madrones) | KG | 1,26 | 900 | 1.134 | year 8 |
| Iberian pear | Pyrus bourgeana | Fruits | KG | 1,16 | 780 | 905 | year 8 |
| Aloe vera | Aloe vera | Leaves | KG | 0,028 | 30.000 | 840 | Year 3 |
| Allepo Pine | Pinus halepensis | Resin | KG | 1,1 | 750 | 825 | year 24 |
| Maritime pine | Pinus pinaster | Resin | KG | 1,1 | 750 | 825 | year 24 |
| Common Juniper | Juniperus communis | Medicinal berries/oil | KG | 4,0 | 200 | 800 | year 10 |
| Juniper | Juniperus navicularis | Medicinal berries/oil | KG | 4,0 | 200 | 800 | year 10 |
| Phoenicean juniper | Juniperus phoenicea | Medicinal berries/oil | KG | 4,0 | 200 | 800 | year 10 |
| Juniper | Juniperus turbinata | Medicinal berries/oil | KG | 4,0 | 200 | 800 | year 10 |
| Black alder | Alnus glutinosa | Biomass | ton dry | 132,0 | 6 | 792 | year 8 |
| Mediterranean saltbush | Atriplex halimus | Fodder | KG | 0,08 | 3.000 | 240 | year 4 |
| European nettle tree | Celtis australis | Fodder | KG | 0,08 | 3.000 | 240 | year 4 |
| Tagasaste / tree lucerne | Cytisus proliferus | Fodder | KG | 0,08 | 3.000 | 240 | year 4 |
| Narrow-leafed ash | Fraxinus angustifolia | Fodder | KG | 0,08 | 3.000 | 240 | year 4 |
| Sulla | Hedysarum coronarium | Fodder | KG | 0,08 | 3.000 | 240 | year 4 |
| Moon trefoil/tree medick | Medicago arborea | Fodder | KG | 0,08 | 3.000 | 240 | year 4 |



| Mulberry | Morus alba | Forage (leaves) | KG | 0,08 | 3.000 | 240 | year 4 |
|-----------------------|--|-------------------|----|------|-------|-----|---------|
| Princesstree | Paulownia Tomentosa | Fodder | KG | 0,08 | 3.000 | 240 | year 4 |
| Oats | Avena | Agricultural crop | KG | 0,12 | 1.890 | 227 | year 1 |
| Kermes oak / Coscojas | Quercus coccifera | Acorns | KG | 0,25 | 400 | 100 | Year 20 |
| Holm (stone) oak | Quercus rotundifolia (ilex rotundifolia) | Acorns | KG | 0,25 | 400 | 100 | Year 20 |
| Lolium | Lolium rigidum | Forage | KG | 0,05 | 1.890 | 95 | year 1 |
| Subterranean clover | Trifolium subterraneum (and other spp) | Forage | KG | 0,05 | 1.890 | 95 | year 1 |



Tabella 2- Elenco delle specie commerciali con potenziali prodotti da vendere tra quelli comunemente utilizzati nelle aree mediterranee. Ordinati per nome latino.

| NOME COMUNE | Nome latino | Tipologia | Principali prodotti | | | Caratteristiche addizionali positive | | | | |
|----------------------------|---|-----------|------------------------|--------------|--|---|--------------------------------------|----------|-----------------------------|--|
| Kiwifruit | Actinidia spp (deliciosa) | shrub | Fruits | | | | | | Fonte diretta di reddito | |
| Black alder | Alnus glutinosa | tree | Biomass | | | Riverbanks fixing | Natural. Fence (no thorns) | N-Fix | Fonte diretta di reddito | |
| Grey alder | Alnus Incana | tree | timber | | | N-Fix | Riverbanks fixing | | Fonte diretta di reddito | |
| Aloe vera | Aloe vera | plant | Oils | | | | | | Fonte diretta di reddito | |
| Lemon Verbena | Aloysia citrodora | aromatics | Herbs | oils | | | | | Fonte diretta di reddito | |
| Rope grass/ Ampelodesmos | Ampelodesmos mauritanicus | grass | Natural engineering | fibre/ paper | | Erosion control | | | Minori costi | |
| Stinking Bean Trefoil | Anagyris foetida | shrub | NA | | | Good climate adaptation | Erosion control | N-Fix | Minori costi | |
| Strawberry tree (Medronho) | Arbutus unedo (or andrachne for ITA) | tree | Fruit | timber | | Good climate adaptation | Tolerate atmospheric pollution | | Fonte diretta di reddito | |
| Giant Cane | Arundo donax | cane | Construction material | Biomass | | Riverbanks fixing | | Invasive | Minori costi | |
| Asparagus (wild) | Asparagus sp (officinalis,albidus,aphylu s) | plant | vegetable | | | | | | Fonte diretta di reddito | |
| Mediterranean saltbush | Atriplex halimus | shrub | Fodder | | | Erosion control | salt-excreting | | Minori costi | |
| Oats | Avena | cereal | Fodder | cereals | | | | | Minori costi | |
| Pot Marigold | Calendula officinalis | Plant | Seeds/oils | | | Interesting for biodiv. | | | Fonte diretta di reddito | |



| Summer heather | Calluna vulgaris | Plant | NA | | | Erosion control | Interesting for biodiv. | | Minori costi |
|--------------------------|--------------------------------------|-------|---|------------|--------|----------------------------|--------------------------------------|--------------------------------------|-----------------------------|
| Нетр | Cannabis sativa | plant | Hemp fibre | | | | | | Fonte diretta di reddito |
| Caper bush | Capparis sp. Spinosa and others | plant | Vegetables preserved in vinegar | | | Good climate adaptation | | | Fonte diretta di reddito |
| Chestnut | Castanea sativa | tree | Nuts | timber | flour | | | | Fonte diretta di reddito |
| European nettle tree | Celtis australis | tree | Fodder | timber | | Important for biodiv. | Good climate adaptation | | Minori costi |
| Carob tree | Ceratonia siliqua | tree | Fruit | Gum | timber | Good climate adaptation | N-Fix | | Fonte diretta di reddito |
| Laudanum/ rock rose/Jara | Cistus ladanifer | shrub | Resin or oil | Mushrms | liquer | | | | Fonte diretta di reddito |
| Common hazel nut | Corylus avellana | shrub | Nuts | | | Important for biodiv. | | | Fonte diretta di reddito |
| Azarole | Crataegus azarolus | shrub | Fruit/ berries | | | N. Fence (thorns) | Tolerate atmospheric pollution | | Fonte diretta di reddito |
| Common hawthorn | Crataegus Monogyna (or other spp) | shrub | Fruit/ berries | | | Important for biodiv. | Nurse shrub (thorns) | Tolerate atmospheric pollution | Fonte diretta di reddito |
| Saffron crocus | Crocus sativus | plant | Stigmas of the flowers (dry powder) | | | | | | Fonte diretta di reddito |
| Quince | Cydonia oblonga | tree | Fruit | Gum | Pectin | N. Fence (no thorns) | | | Fonte diretta di reddito |
| Tagasaste / tree lucerne | Cytisus proliferus | shrub | Fodder | | | N-Fix | Tolerate atmospheric pollution | | Minori costi |
| Portuguese broom | Cytisus striatus | shrub | Fibres | vegetables | | N-Fix | Important for biodiv. | Can be Invasive | Fonte diretta di reddito |



| Loquat | Eriobotrya japonica | shrub | Fruit | | | | | | Fonte diretta di reddito |
|-------------------------|--------------------------------------|-----------|----------------|--------|--------|----------------------------|--------------------------------------|----------------------------|-----------------------------|
| Ferula/Giant Fennel | Ferula communis | plant | Gum | Fibres | | | | | Market under development |
| Fig tree | Ficus carica (and other spp) | tree | Fruit | | | | | | Fonte diretta di reddito |
| Narrow-leafed ash | Fraxinus angustifolia | tree | Fodder | | | Riverbanks fixing | Tolerate atmospheric pollution | | Minori costi |
| Broom | Genista falcata/ lusitanica | Plant | NA | | | Erosion control | Interesting for biodiv. | | Minori costi |
| Sulla | Hedysarum coronarium | plant | Fodder | | | N-Fix | Erosion control | Good climate adaptation | Minori costi |
| Curry plant | Helichrysum italicum | Plant | Oils | | | Good climate adaptation | | | Fonte diretta di reddito |
| Sea buckthorns | Hippophae rhamnoides | shrub | Fruit/ berries | | | Erosion control | N-Fix | | Fonte diretta di reddito |
| Dragon fruit/ Pitahayas | Hylocereus spp. | Plant | Fruits | | | | | Can be Invasive | Fonte diretta di reddito |
| St. John's Wort | Hypericum perfoliatum/ perforatum | Plant | Herbs | | | Interesting for biodiv. | | | Fonte diretta di reddito |
| Нуѕѕор | Hyssopus vulgaris | aromatics | Herbs | oils | | | | | Fonte diretta di reddito |
| Walnut | Juglans regia | tree | Nuts | oil | timber | | | | Fonte diretta di reddito |
| Common Juniper | Juniperus communis | shrub | Fruit/ berries | oil | | Erosion control | | | Fonte diretta di reddito |
| Juniper | Juniperus navicularis | shrub | Fruit/ berries | oil | | Erosion control | | | Fonte diretta di reddito |



| Phoenicean juniper | Juniperus phoenicea | shrub | Fruit/ berries | oil | Erosion control | | | Fonte diretta di reddito |
|--------------------------|--|-----------|------------------------|--------------|------------------------------------|----------------------------|----------------------------------|-----------------------------|
| Juniper | Juniperus turbinata | shrub | Fruit/ berries | oil | Erosion control | | | Fonte diretta di reddito |
| Lavender | Lavandula angustifolia, or Lavandula luisieri | aromatics | Herbs | oils | Good climate adaptation | | | Fonte diretta di reddito |
| Lovage | Levisticum officinale | aromatics | Herbs | oils | | | | Fonte diretta di reddito |
| Lolium | Lolium rigidum | grass | Fodder | | | | | Minori costi |
| Southern tea tree | Lycium intricatum | shrub | Fruit/ berries | | N. Fence (thorns) | Erosion control | | Fonte diretta di reddito |
| Albardine, esparto grass | Lygeum spartum | grass | Natural engineering | fibre/ paper | Erosion control | | | Minori costi |
| Moon trefoil/tree medick | Medicago arborea | shrub | Fodder | | N-Fix | | | Fonte diretta di reddito |
| Lemon balm | Melissa officinalis | aromatics | Herbs | oils | | | | Fonte diretta di reddito |
| Hart's pennyroyal | Mentha sp. | aromatics | Herbs | oils | | | | Fonte diretta di reddito |
| Mulberry | Morus alba | tree | Fodder | fruits | | | | Minori costi |
| Myrtle | Myrtus communis | shrub | Fruit/ berries | oils | | | | Fonte diretta di reddito |
| Olives | Olea europaea sylvestris | tree | Fruit | | Important for biodiv. | | | Fonte diretta di reddito |
| Prickly pear | Opuntia ficus-India | cactus | Fruits | | N. Fence & FIRE buffer (thorns) | Good climate adaptation | Invasive in some countries | Fonte diretta di reddito |



| Oregano | Origanum vulgare | aromatics | Herbs | oils | | | | | Fonte diretta di reddito |
|--|--|-----------|----------------|----------|-------------------|----------------------------|---------------------------|--------------------|-----------------------------|
| Princesstree | Paulownia Tomentosa | tree | Fodder | Medicin | Biomass | N-Fix C4 | survives after burning | Can be Invasive | Minori costi |
| Avocado | Persea Americana | Tree | Fruit | | | | | | Fonte diretta di reddito |
| Narrow-leaved mock privet/ green olive tree | Phillyrea angustifolia or latifolia | shrub | Fruit | Charcoal | | Important for biodiv. | N. Fence (no thorns) | | Fonte diretta di reddito |
| Allepo Pine | Pinus halepensis | tree | Turpentine | timber | | | | | Fonte diretta di reddito |
| Maritime pine | Pinus pinaster | tree | Resin | mushrms | timber | | | | Fonte diretta di reddito |
| Stone pine | Pinus pinea | tree | Nuts | mushrms | timber/ resins | Good climate adaptation | | | Fonte diretta di reddito |
| Pistachio, Localized variety | Pistacia lenstiscus and other spp | tree | Nuts | oil | | Important for biodiv. | | | Fonte diretta di reddito |
| Poplar | Populus spp | Tree | Timber | | | | | | Fonte diretta di reddito |
| Apricot | Prunus armenaica | Tree | Fruit | | | | | | Fonte diretta di reddito |
| Almond | Prunus dulcis | tree | Nuts | Oils | | | | | Fonte diretta di reddito |
| Mirabelle plum | Prunus insititia | tree | Fruit | | | Good climate adaptation | | | Fonte diretta di reddito |
| Blackthorn/ Sloe | Prunus spinosa | shrub | Fruit/ berries | | | N. Fence (thorns) | | | Fonte diretta di reddito |



| Pomegrenade | Punica granatum | tree | Fruit | | | N. Fence (no thorns) | | | Fonte diretta di reddito |
|--|--|-----------|--------------------------|--------|---------|----------------------------|----------------------------|----------|-----------------------------|
| Iberian pear | Pyrus bourgeana | tree | Fruits | | | Important for biodiv. | | | Fonte diretta di reddito |
| Kermes oak / Coscojas | Quercus coccifera | tree | acorn | | | Good climate adaptation | | | Fonte diretta di reddito |
| Portuguese oak | Quercus faginea | tree | timber | acorn | | Important for biodiv. | | | Fonte diretta di reddito |
| Holm (stone) oak | Quercus rotundifolia (ilex rotundifolia) | tree | Acorn | timber | truffle | N. Fence (no thorns) | | | Fonte diretta di reddito |
| Cork oak | Quercus suber | tree | Cork | acorn | timber | | | | Fonte diretta di reddito |
| Retama | Retama sphaerocarpa | shrub | Fruit/ berries | | | Nurse shrub (no thorns) | Good climate adaptation | N-Fix C4 | Fonte diretta di reddito |
| Mediterranean buckthorn (mock privet) | Rhamnus alaternus/ lycioides | shrub | Fruit/ berries | | | N. Fence (no thorns) | | | Fonte diretta di reddito |
| Sicilian Sumac/ Sommacco | Rhus coriaria | shrub | Crushed fruits/ spice | | | | | | Fonte diretta di reddito |
| Black currant | Ribes nigrum | shrub | Fruit/ berries | | | Interesting for biodiv. | | | Fonte diretta di reddito |
| Red currant | Ribes rubrum | shrub | Fruit/ berries | | | Interesting for biodiv. | | | Fonte diretta di reddito |
| Dog rose | Rosa canina | shrub | Fruit/ berries | | | N. Fence (thorns) | | | Fonte diretta di reddito |
| Rosmary | Rosmarinus officinalis | aromatics | Herbs | oils | | | | | Fonte diretta di reddito |



| Blackberry | Rubus fruticosus | shrub | Fruit/ berries | | Interesting for biodiv. | | Fonte diretta di reddito |
|---------------------|--|-----------|----------------|------|----------------------------|-------------------------|-----------------------------|
| Raspberry | Rubus idaeus | shrub | Fruit/ berries | | Interesting for biodiv. | | Fonte diretta di reddito |
| Wild blackberry | Rubus ulmifolius | shrub | Fruit/ berries | | | | Fonte diretta di reddito |
| Butcher's-broom | Ruscus aculeatus | shrub | Fruit/ berries | | | | Fonte diretta di reddito |
| Saltworth | Salsola oppositifolia | Plant | NA | | Erosion control | Good climate adaptation | Minori costi |
| Mint | Salvia officinalis | aromatics | Herbs | oils | | | Fonte diretta di reddito |
| Winter savory | Satureja montana | aromatics | Herbs | oils | | | Fonte diretta di reddito |
| Spanish Broom | Spartium junceum | Shrub | NA | | Erosion control | Good climate adaptation | Minori costi |
| Thyme | Thymus sp | aromatics | Herbs | oils | | | Fonte diretta di reddito |
| Subterranean clover | Trifolium subterraneum (and other spp) | clover | Fodder | | N-Fix C4 | | Minori costi |
| Field Elm | Ulmus minor | Tree | timber | | Interesting for biodiv. | | Fonte diretta di reddito |
| Blueberry | Vaccinium corymbosum | shrub | Fruit/ berries | | Interesting for biodiv. | | Fonte diretta di reddito |



Tabella 3 - Condizioni ottimali di adattamento per specie vegetali commerciali con potenziali prodotti da vendere tra quelle comunemente utilizzate nelle aree mediterranee. Ordinati per nome latino.

| Common Name | Latin Name | min. Required rainfall (mm) | min required temp. °C | max required temp. °C | Best pH** | Notes on climate change tolerance | Notes on uses and risks |
|-----------------------------|------------------------------|--------------------------------------|--------------------------|-----------------------------|--------------|--|---|
| | | Figures in red | are estimates, ba | ised on simila | r plants | | |
| Kiwifruit | Actinidia spp (deliciosa) | 500 | 7 | 28 | 5,5-7,3 | Prefers a sound loamy acid soil, it dislikes alkaline soils and becomes chlorotic at pH 6 or higher. Tolerates a pH in the range 5.5 to 7.3. Succeeds in semi-shade but full sun is best for fruit production. Prefers a sheltered position. Does well when grown into trees. Plants requires a 6 - 8 month frost-free growing season. They are hardy to about -12°c when fully dormant but young growth is very subject to damage by late frosts, being killed back at -2°c. Plants also require a winter chilling of 600 - 1100 hours below 7°c and a long warm summer to ripen the fruit. | Fruits. Italy is the largest producer in the world. Paper is made from the bark. If the bark is removed in one piece from near the root and placed in hot ashes, it becomes very hard and can be used as a tube for a pencil. Mostly planted in irrigated form. |
| Black alder | Alnus glutinosa | 600 | 7 | 25 | 4,5-8,5 | River banks. Suitable for: medium (loamy) and heavy (clay) soils and can grow in heavy clay and nutritionally poor soils. Suitable pH: acid, neutral and basic (alkaline) soils. It can grow in semi-shade (light woodland) or no shade. It prefers moist or wet soil. | Can grow as windbreak, hedge, quick growers. Pioneer specie. Biomass specie. According to the phytomass files, annual productivity is estimated at 6 to 9 tonnes per hectare. |
| Grey alder | Alnus Incana | 700 | -20 | 25 | 6,1-8,2 | Suitable for: medium (loamy) and heavy (clay) soils and can grow in heavy clay and nutritionally poor soils. Suitable pH: acid, neutral and basic (alkaline) soils. Nitrogen fixer! | This species fixes atmospheric nitrogen and is also tolerant of polluted soils, it can be used for land reclamation, especially on coal tips[200]. This is an excellent pioneer species for re- establishing woodlands on disused farmland, difficult sites etc. |
| Aloe vera | Aloe vera | 300 | 5 | 26 | 5-8 | A Mediterranean environment featuring dry, warm summers and cooler, wet winters is one of the many climates in the sub-tropics that fosters aloe plants. Suitable for: light (sandy) and medium (loamy) soils, prefers well-drained soil and can grow in nutritionally poor soil. Suitable pH: acid, neutral and basic (alkaline) soils. It cannot grow in the shade. It prefers dry or moist soil and can tolerate drought. | It is found in many consumer products including beverages, skin lotion, cosmetics, or ointments for minor burns and sunburns. There is little scientific evidence of the effectiveness or safety of Aloe vera extracts for either cosmetic or medicinal purposes |
| Lemon Verbena | Aloysia citrodora | 400 | 5 | 26 | 5-7,5 | Like most aromatics: Suitable for: light (sandy) and medium (loamy) soils and prefers well-drained soil. Suitable pH: acid, neutral and basic (alkaline) soils. It can grow in semi-shade (light woodland) or no shade. It prefers dry or moist soil and can tolerate drought. | Sensitive to cold, aromatic |
| Rope grass/ Ampelodesmos | Ampelodesmos mauritanicus | 400 | -5 | 25 | 4,5-8,5 | Species for natural engineering.Ampelodesmos mauritanicus is a PERENNIAL growing to 3 m (9ft) by 1 m (3ft 3in). Suitable for: light (sandy) and medium (loamy) soils and prefers well-drained soil. Suitable pH: acid, neutral and basic (alkaline) soils. It cannot grow in the shade. It prefers dry or moist soil. | The leaves are used to make a rope and are also used in papermaking. In natural engineering used as strong and tough cover grass. The plant can become an Invasive species in non- native ecosystems beyond the Mediterranean Basin |
| Stinking Bean Trefoil | Anagyris foetida | 300 | 0 | 25 | 4,5-8,5 | Anagyris foetida is an ultra drought tolerant member of the Fabaceae family. The large shrub originates in the Mediterranean Basin. The plant illustrates one of the best drought resisting strategies of Mediterranean flora: the plant keeps its leaves through autumn, winter and spring, then it goes completely deciduous in summer, becoming dormant and highly | Erosion control. There are some medical uses. But mainly as soil improvement and erosion control. Almost all parts of the plants are toxic. |



| | | | | | | resistant to drought. A. foetida can adapt to a wide variety of soils and has been used as a fast growing nitrogen fixing pioneer species in large- scale native restoration of fire damaged areas in Southern Europe. N-fix because it is a leguminous. | |
|-------------------------------|---|-----|----|----|---------|--|--|
| Strawberry tree (Medronho) | Arbutus unedo (or andrachne for ITA) | 500 | 4 | 25 | 4,0-6,8 | Good climate adaptation. Has high plasticity, i.e. successful water saving strategies to cope with fluctuations in water availability (see source). This species is associated with cork. There are successful plantations and no irrigation needs. Potential risk is fungus on fruit, but no information on potential increase due to CC. Does grow better on northern slopes. Suitable for: light (sandy) and medium (loamy) soils, prefers well-drained soil and can grow in heavy clay soil. Suitable pH: acid, neutral and basic (alkaline) soils. It can grow in semi-shade (light woodland) or no shade. It prefers dry or moist soil. The plant can tolerate maritime exposure. It can tolerate atmospheric pollution. | Fruit - raw or cooked. The fruit contains about 20% sugars and can be used to make delicious and nourishing jams and preserves. It is ripe in November/December and is about 15mm in diameter. When fully ripe it falls from the tree and so it is advisable to grow the plant in short grass in order to cushion the fall of the fruit. |
| Giant Cane | Arundo donax | 600 | 6 | 25 | 5,5-8,3 | Suitable for: light (sandy), medium (loamy) and heavy (clay) soils and prefers well-drained soil. Suitable pH: acid, neutral and basic (alkaline) soils and can grow in very alkaline soils. It cannot grow in the shade. It prefers moist or wet soil. The plant can tolerates strong winds but not maritime exposure. | Local building material, near rivers, highly invasive plant |
| Asparagus (wild) | Asparagus sp (officinalis,albid us,aphylus) | 600 | 11 | 25 | 6,5-7,5 | Suitable for: light (sandy), medium (loamy) and heavy (clay) soils and prefers well-drained soil. Suitable pH: acid, neutral and basic (alkaline) soils and can grow in very acid, very alkaline and saline soils. | some species for wild picking, others for production |
| Mediterranean saltbush | Atriplex halimus | 500 | 10 | 25 | 5,8-7,5 | Needs water, in maritime areas. Is a a salt-excreting plant. Suitable for: light (sandy) and medium (loamy) soils, prefers well-drained soil and can grow in nutritionally poor soil. Suitable plt: acid, neutral and basic (alkaline) soils and can grow in very alkaline and saline soils. It cannot grow in the shade. It prefers dry or moist soil and can tolerate drought. The plant can tolerate maritime exposure. | This plant is often cultivated as forage because tolerating severe conditions of drought, and it can grow up in very alkaline and saline soils. In addition, it is useful to valorize degraded and marginal areas because it will contribute to the improvement of phytomass in this case. |
| Oats | Avena | 600 | 4 | 26 | 4,5-8,6 | Normal values for cereals. | cereal |
| Pot Marigold | Calendula officinalis | 600 | 0 | 25 | 4,5-8,3 | An easily grown annual to perennial plant, it succeeds in any well-drained soil, though it prefers a good loam and requires a sunny or at least partially sunny position. Plants flower best when they are grown in a poor soil. Tolerates a pH in the range 4.5 to 8.3. The pot marigold is a very ornamental plant that is commonly grown in the flower garden, and occasionally as a culinary herb, there are some named varieties[183]. When well-sited it usually self-sows freely and will maintain itself if allowed. | Pot marigold is one of the best known and versatile herbs in Western herbal medicine and is also a popular domestic remedy. Marigold is grown for its ray florets which have medicinal effect. Seed is a rich source of the conjugated C18:3 fatty acid calendic acid and can serve as a replacement for volatile organic compounds in many industrial chemicals such as paints, coatings and adhesives. Many other uses are known. Leaves - raw. When eaten they first of all impart a viscid sweetness, followed by a strong penetrating taste of a saline nature. They are very rich in vitamins and minerals and are similar to Taraxacum officinale (Dandelion) in nutritional value. The growing plant acts as an insect deterrent, it reduces the soil eelworm population. The growing plant attracts hoverflies to the garden, the young of which are fairly efficient eaters of aphids. The flowers are attractive to bees. Difficulties with extreme temperatures. Flowers are sold to flower shops in many countries. |
| Summer heather | Calluna vulgaris | 300 | 0 | 25 | 4,5-6,5 | Requires a light acid soil and a sunny position. Prefers a sunny position but tolerates light shade. Only succeeds if the pH is below 6.5. Prefers a poor peaty soil. Plants are tolerant of fairly dry soils but they dislike prolonged drought. They tolerate wet conditions in the winter. Plants regenerate well from the base after a fire if the heat was not too great, if the fire was slow and intense then new seedlings will quickly become established | Good for erosion control on poor soils. Heather has a long history of medicinal use in folk medicine. The branches have many uses, including in thatching, as a bedding or a stuffing for mattresses, for insulation, basketry, rope making and for making brooms. The dried branches are a good fuel. The rootstock can be made into musical pipes. A yellow dye is obtained from the plant. The bark is a source of tannin. |



| Hemp | Cannabis sativa | 500 | 6 | 25 | 4,5-8,5 | Suitable for: light (sandy), medium (loamy) and heavy (clay) soils. Suitable pH: acid, neutral and basic (alkaline) soils and can grow in very acid and very alkaline soils. | Edible Parts: Leaves; Oil; Seed. A fibre is obtained from the stem. It is strong and very durable and is used in making coarse fabrics, rope etc. Hemp fiber has been used extensively throughout history, with production climaxing soon after being introduced to the New World. Items ranging from rope, to fabrics, to industrial materials were made from hemp fiber. Hemp was often used to make sail canvas, and the word "canvas" derives from cannabis. Today, a modest hemp fabric industry exists, and hemp fibers can be used in clothing. Pure hemp has a texture similar to linen. |
|-----------------------------|---------------------------------------|---------|----|----|----------|---|---|
| Caper bush | Capparis sp. Spinosa and others | 300 | 10 | 25 | 6,3 -8,3 | This species has developed special mechanisms to survive in the Mediterranean conditions, and introduction in semiarid lands may help to prevent the disruption of the equilibrium of those fragile ecosystems. Shows characteristics of a plant adapted to poor soils. This shrub has a high root/shoot ratio and the presence of mycorrhizae serves to maximize the uptake of minerals in poor soils. Suitable for: light (sandy), medium (loamy) and heavy (clay) soils and prefers well-drained soil. Suitable pH: acid, neutral and basic (alkaline) soils and can grow in very alkaline soils. | The plant is best known for the edible flower buds (capers), often used as a seasoning, and the fruit (caper berries), both of which are usually consumed pickled. Other species of Capparis are also picked along with C. spinosa for their buds or fruits. Other parts of Capparis plants are used in the manufacture of medicines and cosmetics. The flower buds are pickled and used as a flavouring in sauces, salads etc. The young fruits and tender branch tips can also be pickled and used as a condiment. The flower buds are harvested in the early morning and wilted before pickling them in white vinegar. Young shoots - cooked and used like asparagus |
| Chestnut | Castanea sativa | 600 | 1 | 23 | 5,5-7,5 | Less resistant, more northerly tree, requires water. Problems in north usually when grown in plantations for the fruit (not timber). Suitable for: light (sandy), medium (loamy) and heavy (clay) soils, prefers well-drained soil and can grow in nutritionally poor soil. Suitable pH: acid and neutral soils and can grow in very acid soils. It cannot grow in the shade. It prefers dry or moist soil and can tolerate drought. The plant can tolerate maritime exposure. | Best at higher altitudes and around 1000 mm. Nuts, flour, bark, timber. |
| European nettle tree | Celtis australis | 400 | 4 | 26 | 5,1-7,8 | Big indigenous tree, needs good soils, resistant to drought and pollution. Suitable for: light (sandy) and medium (loamy) soils, prefers well-drained soil and can grow in nutritionally poor soil. Suitable pH: acid, neutral and basic (alkaline) soils. It cannot grow in the shade. It prefers dry or moist soil and can tolerate drought. | Fodder: Leaves and twigs are lopped for fodder in the dry season; quality is reported to be high, with 15% crude. Also good for birds (eat seeds) and timber. |
| Carob tree | Ceratonia siliqua | 250-500 | -7 | 24 | 6,2-8,6 | Very hardy, resistant species, very plastic (but needs 500 mm for production). Typical for Algarve but now also in north. Lime soils mainly. It can fix Nitrogen. Suitable for: light (sandy) and medium (loamy) soils, prefers well-drained soil and can grow in nutritionally poor soil. Suitable pH: acid, neutral and basic (alkaline) soils and can grow in very alkaline soils. It cannot grow in the shade. It prefers dry or moist soil and can tolerate drought. The plant can tolerates strong winds but not maritime exposure. | Protein, good palatability and digestibility.Carob consumed by humans is the dried (and sometimes roasted) pod. The pod consists of two main parts: the pulp accounts for 90% and the seeds for 10% of the pod weight. Carob is mildly sweet and is used in powdered, chip, or syrup form as an ingredient in cakes and cookies, and as a substitute for chocolate. A flour made from the seedpods is used in the cosmetic industry to make face-packs. |
| Laudanum/ rock rose/Jara | Cistus ladanifer | 500 | 3 | 26 | 5,5-7,5 | Suitable for: light (sandy) and medium (loamy) soils, prefers well-drained soil and can grow in nutritionally poor soil. Suitable pH: acid, neutral and basic (alkaline) soils. It cannot grow in the shade. It prefers dry or moist soil and can tolerate drought. The plant can tolerate maritime exposure. | So called "Enemy of the Montado". But it has many purposes.eed - ground into a powder and used with cereal flours in making cakes and breads. An oleo-resin obtained from the leaves and stems is eaten raw or used as a commercial food flavouring in baked goods, ice cream, chewing gum etc. The glandular hairs on the leaves yield the oleo-resin 'ladanum', used medicinally and in soaps, perfumery, fumigation etc (as oil, resins or else). |
| Common hazel nut | Corylus avellana | 700 | 3 | 25 | 4,5-8,5 | Above 600 mm water. It is noted for attracting wildlife. Suitable for: light (sandy), medium (loamy) and heavy (clay) soils. Suitable pH: acid, neutral and basic (alkaline) soils and can grow in very acid and very alkaline soils. It can grow in semi-shade (light woodland) or no shade. It prefers moist soil. The plant can tolerates strong winds but not maritime exposure. | Used for nuts |
| Azarole | Crataegus azarolus | 500 | 0 | 25 | 4-7,5 | Suitable for: light (sandy), medium (loamy) and heavy (clay) soils and can grow in heavy clay soil. Suitable pH: acid, neutral and basic (alkaline) soils and can grow in very alkaline soils. It can grow in semi-shade (light woodland) or no shade. It prefers moist or wet soil and can tolerate | Fruit (25mm berries) - raw or cooked in pies, preserves etc. The fruit can be used fresh or dried for later use. Good for fences. |



| | | | | | | drought. The plant can tolerate strong winds but not maritime exposure. It can tolerate atmospheric pollution. | |
|-----------------------------|---|-----|-----|----|----------|--|---|
| Common hawthorn | Crataegus Monogyna (or other spp) | 600 | 2 | 25 | 5,8-7,5 | Suitable for: light (sandy), medium (loamy) and heavy (clay) soils and can grow in heavy clay and nutritionally poor soils. Suitable pH: acid, neutral and basic (alkaline) soils and can grow in very acid and very alkaline soils.It can grow in semi-shade (light woodland) or no shade. It prefers moist or wet soil and can tolerate drought. The plant can tolerate maritime exposure. It can tolerate atmospheric pollution. | There are many spp. In ITA one there are 14 species. Good for birds. Can be used as nurse shrub (thorns). |
| Saffron crocus | Crocus sativus | 400 | -10 | 25 | 6,5-9,5 | Suitable for: light (sandy) and medium (loamy) soils, prefers well-drained soil and can grow in nutritionally poor soil. Suitable pH: acid, neutral and basic (alkaline) soils and can grow in very alkaline soils. | The flower grows best in areas of full sun in well-drained soil with moderate levels of organic content.Saffron is considered to be the most valuable spice by weight. Depending on the size of harvested stigmas, 50,000–75,000 Crocus sativus plants are needed to produce about 1 pound of saffron. Plants take 4 - 5 years to come into flowering from seed. It yields about 27 kilos of rich orange stigmas per hectare. |
| Quince | Cydonia oblonga | 500 | 4 | 25 | 6,75-7,0 | Used for living fences, but needs water, suitable for nearby houses (orchard). they prefer slightly acid soils. This is a small tree only. Suitable for: light (sandy), medium (loamy) and heavy (clay) soils. Suitable pH: acid, neutral and basic (alkaline) soils. It can grow in full shade (deep woodland) semi-shade (light woodland) or no shade. It prefers moist soil. | Quince is a hard yard tough plant that does not require much maintenance. It requires a cooler period of the year, with temperatures under 7 °C (45 °F), to flower properly. Fruits are edible. A mucilage obtained from the seed coat is used as a gum arabic substitute to add gloss to material. The seed contains 20% mucilage and 15% fatty oils. The fruit is rich in pectin. Pectin is said to protect the body against radiation. The leaves contain 11% tannin. |
| Tagasaste / tree lucerne | Cytisus proliferus | 500 | 10 | 25 | 4-7 | Suitable for: light (sandy), medium (loamy) and heavy (clay) soils, prefers well-drained soil and can grow in nutritionally poor soil. Suitable pH: acid, neutral and basic (alkaline) soils and can grow in very acid soils. It can grow in semi-shade (light woodland) or no shade. It prefers dry or moist soil and can tolerate drought. The plant can tolerate maritime exposure. It can tolerate atmospheric pollution. | N-fixing. Tagasaste is a valued forage for ruminants because of its good palatability and high protein content. It can be grazed directly, or cut and fed fresh or dried. As a fodder crop tagasaste delivers between 23 and 27% crude protein (14–30% in Western Australia) and 18–24% crude indigestible fibre. With proper application of fertiliser it can maintain these levels even when grown on poor soils. |
| Portuguese broom | Cytisus striatus | 400 | 5 | 25 | 4-9 | It can fix Nitrogen, and attracts wildlife. Suitable for: light (sandy), medium (loamy) and heavy (clay) soils, prefers well-drained soil and can grow in nutritionally poor soil. Suitable pH: acid, neutral and basic (alkaline) soils and can grow in very acid soils. It can grow in semi-shade (light woodland) or no shade. It prefers dry or moist soil and can tolerate drought. | An excellent fibre is obtained from the bark, it is used in the manufacture of paper, cloth and nets. The flower buds are pickled and used as a substitute for capers. They can also be added to salads |
| Loquat | Eriobotrya japonica | 600 | 10 | 25 | 4,5-8,5 | Suitable for: light (sandy), medium (loamy) and heavy (clay) soils and prefers well-drained soil. Suitable pH: acid, neutral and basic (alkaline) soils. E. japonica is drought tolerant but will be more productive when it gets regular water. | Fruits can be eaten, dried and frozen. Spirits can also be made from them. Makes also good jams. |
| Ferula/Giant Fennel | Ferula communis | 400 | 9 | 25 | 4,5-8,5 | Dry hills, walls, waste ground and limestone[89], often in soils that are damp in the spring. Suitable for: light (sandy), medium (loamy) and heavy (clay) soils and prefers well-drained soil. Suitable pH: acid, neutral and basic (alkaline) soils. It cannot grow in the shade. It prefers dry or moist soil and can tolerate drought. | .A gum 'Gum Ammoniac' is obtained by notching the root. It is used as an incense, it also has medicinal value. The stems are used in furniture making. The dried pith is used as a tinder, it burns very slowly inside the stem and can thus be carried from one place to another. A new market seems to be Fibres. |
| Fig tree | Ficus carica (and other spp) | 500 | 4 | 25 | 6-7,5 | Suitable for: light (sandy), medium (loamy) and heavy (clay) soils, prefers well-drained soil and can grow in heavy clay and nutritionally poor soils. Suitable pH: acid, neutral and basic (alkaline) soils. It cannot grow in the shade. It prefers dry or moist soil and can tolerate drough. | Used for fruits |
| Narrow-leafed ash | Fraxinus angustifolia | 400 | 3 | 26 | 5,8-8 | On river sides. Suitable pH: acid, neutral and basic (alkaline) soils and can grow in very alkaline soils. It cannot grow in the shade. It prefers dry or moist soil. The plant can tolerates strong winds but not maritime exposure. It can tolerate atmospheric pollution. | Only in waterlines- stream banks. No other uses. |



| Broom | Genista falcata/ lusitanica | 400 | 5 | 25 | 4,5-6,5 | Genus, similar to Cytisus, of about 90 species of mainly deciduous, sometimes spiny shrubs and occasionally trees found in habitats ranging from pasture and moorland to cliffs and rocky places in Europe, the Mediterranean and western Asia. Soil Conditions - Medium to light, fertile, well drained soil. Fine up till -8 C. In full sun. | Erosion control specie. Similar to Cytisus. Grown for their small, pea-like flowers. This species is associated with oak and chestnut forests. It forms successional heathlands in the forests and it is a melliferous species. It appears in siliceous soils. |
|----------------------------|---|-----|----|----|---------|---|--|
| Sulla | Hedysarum coronarium | 400 | 11 | 25 | 6-10,5 | It likes arid alkaline soils and it has even specific efficient calcium- absorbing organs in the roots (its specific nitrogen fixing symbiont is Rhizobium sullae), where it accumulates CaCO3. About importance and distribution: Sulla is found in the Mediterranean basin with a distribution from northern Africa to southern Spain and southern Italy. It is of particular importance in agriculture due to its ability to adapt to drought and coastal conditions (Douglas, 1984), and is therefore an ideal subject for studying salt tolerance (range limit 150–700 mM NaCl), alkaline tolerance (up to pH 9– 10.5). | Cultivated for animal fodder and hay, and for honey production Sulla can be a pioneer species in poor, compact and degraded soils and, as an N-fixing legume, improve soil fertility for the next crop (Ben Jeddi, 2005). Notably, sulla was introduced in the 1950s for erosion control in New Zealand |
| Curry plant | Helichrysum italicum | 400 | 10 | 25 | 6-8,5 | Suitable for: light (sandy) and medium (loamy) soils and prefers well- drained soil. Suitable pH: acid, neutral and basic (alkaline) soils. It cannot grow in the shade. It prefers dry or moist soil and can tolerate drought. The plant can tolerates strong winds but not maritime exposure. Requires a light well-drained soil in a sunny sheltered position. Intolerant of excessive moisture. This species is not hardy in the colder areas of the country, it tolerates temperatures down to about -10°c. Plants can be pruned back to the old wood in spring in order to maintain the shape of the plant and promote lots of new growth. | Oils. Besides that leaves are edible and taste like curry. Dried flowers keeping their color. Can thus be used in salads. Not much other uses. |
| Sea buckthorns | Hippophae rhamnoides | 600 | 6 | 25 | 6-8 | Suitable for: light (sandy), medium (loamy) and heavy (clay) soils and can grow in nutritionally poor soil. Suitable pH: acid, neutral and basic (alkaline) soils. It cannot grow in the shade. It prefers dry moist or wet soil and can tolerate drought. The plant can tolerate maritime exposure. | It can fix Nitrogen. Fruit - raw or cooked. Very rich in vitamin C. Various purposes, berries difficult to harvest. It can withstand extreme temperatures from -43° to 40°C and is considered to be drought resistant. However, irrigation is needed in regions receiving less than 400 mm (16") of rainfall annually (Li and Shroeder 1996). Because the plant grows quickly, even in very exposed conditions, and also adds nitrogen to the soil, it can be used as a pioneer species to help the re-establishment of woodland in difficult areas. |
| Dragon fruit/ Pitahayas | Hylocereus spp. | 300 | 12 | 25 | 5-7,5 | The flowers are pollinated by Bats. Suitable for: light (sandy), medium (loamy) and heavy (clay) soils, prefers well-drained soil and can grow in nutritionally poor soil. Suitable pH: acid and neutral soils and can grow in very acid soils. It can grow in semi-shade (light woodland) or no shade. It prefers dry or moist soil and can tolerate drought. A plant of the warm tropical lowlands with low to high rainfall. It grows best in areas where annual daytime temperatures are within the range 18 - 28c, but can tolerate 12 - 34c. It succeeds with a mean annual rainfall in the range 300 - 3,500mm. Often an epiphytic plant, though it also grows on the ground. Regulires a well-drained soil and a pH of 6 or lower. Prefers a pH in the range 5.3 - 6.7, tolerating 5 - 7.5. Widely cultivated in the tropics and subtropics, it has often escaped from cultivation and become naturalised. It has been classified as 'invasive' in some areas, where it often spreads vegetatively. | Fruit - raw or cooked. A sweet, pleasant flavour. The red fruit is 7 - 12cm long, covered in prominent scales. Unopened flower buds can be cooked and eaten as a vegetable. It produces aerial roots enabling it to climb and support itself. Can be invasive. |
| St. John's Wort | Hypericum perfoliatum/ perforatum | 400 | 10 | 25 | 4,5-8,3 | Suitable for: light (sandy), medium (loamy) and heavy (clay) soils and prefers well-drained soil. Suitable pH: acid, neutral and basic (alkaline) soils. It can grow in semi-shade (light woodland) or no shade. It prefers moist soil. Succeeds in dry soils. Plants grow well in sun or semi-shade but they flower better when in a sunny position. St. John's wort is often found as a weed in the garden. It grows well in the summer meadow and is a useful plant for attracting insects. | Herbs. St. John's wort has a long history of herbal use for many medial purposes. Yellow, gold and brown dyes are obtained from the flowers and leaves. In the middle ages this was the most used anti-biotic and healing for wounds. |
| Нуѕѕор | Hyssopus vulgaris | 400 | 5 | 26 | 5,5-7,5 | Like most aromatics: Suitable for: light (sandy) and medium (loamy) soils and prefers well-drained soil. Suitable pH: acid, neutral and basic (alkaline) soils. It can grow in semi-shade (light woodland) or no shade. It prefers dry or moist soil and can tolerate drought. | Aromatics. |



| Walnut | Juglans regia | 650 | -23 | 23 | 5,25-6 | Needs good soils. Suitable for: light (sandy), medium (loamy) and heavy (clay) soils and prefers well-drained soil. Suitable pH: acid, neutral and basic (alkaline) soils. It cannot grow in the shade. It prefers moist soil. | Nuts and oils for many purposes. |
|-----------------------------|--|-----|-----|----|---------|---|---|
| Common Juniper | Juniperus communis | 500 | 9 | 25 | 4,5-8,5 | As all junipers. They grow on all kind of soils and can stand a wide variety of pH levels. Resistant, also on dry sandy soils and for erosion control. | Fruit - raw or cooked or dried. The fruit is often used as a flavouring in sauerkraut, stuffings, vegetable pates etc, and is an essential ingredient of gin. An essential oil is sometimes distilled from the fruit to be used as a flavouring |
| Juniper | Juniperus navicularis | 500 | 9 | 25 | 4,5-8,5 | As all junipers. They grow on all kind of soils and can stand a wide variety of pH levels. Resistant, also on dry sandy soils and for erosion control. | Fruit - raw or cooked or dried. The fruit is often used as a flavouring in sauerkraut, stuffings, vegetable pates etc, and is an essential ingredient of gin. An essential oil is sometimes distilled from the fruit to be used as a flavouring |
| Phoenicean juniper | Juniperus phoenicea | 500 | 9 | 25 | 4,5-8,5 | As all junipers. They grow on all kind of soils and can stand a wide variety of pH levels. Resistant, also on dry sandy soils and for erosion control. | Fruit - raw or cooked or dried. The fruit is often used as a flavouring in sauerkraut, stuffings, vegetable pates etc, and is an essential ingredient of gin. An essential oil is sometimes distilled from the fruit to be used as a flavouring |
| Juniper | Juniperus turbinata | 500 | 10 | 25 | 4,5-8,5 | As all junipers. They grow on all kind of soils and can stand a wide variety of pH levels. Also resistant, on dry land and for erosion control. | Fruit - raw or cooked or dried. The fruit is often used as a flavouring in sauerkraut, stuffings, vegetable pates etc, and is an essential ingredient of gin. An essential oil is sometimes distilled from the fruit to be used as a flavouring |
| Lavender | Lavandula angustifolia, or Lavandula luisieri | 300 | 6 | 26 | 6,5-7,5 | All very resistant. Luisieri is a wild specie in ESP suitable for cultivation. Like most aromatics: Suitable for: light (sandy) and medium (loamy) soils and prefers well-drained soil. Suitable pH: acid, neutral and basic (alkaline) soils. It can grow in semi-shade (light woodland) or no shade. It prefers dry or moist soil and can tolerate drought. | Aromatics. |
| Lovage | Levisticum officinale | 400 | 5 | 26 | 6,0-7,5 | Like most aromatics: Suitable for: light (sandy) and medium (loamy) soils and prefers well-drained soil. Suitable pH: acid, neutral and basic (alkaline) soils. It can grow in semi-shade (light woodland) or no shade. It prefers dry or moist soil and can tolerate drought. | Aromatics. |
| Lolium | Lolium rigidum | 500 | 4 | 26 | 6-7,5 | As normal for grass species this grows on most soils and in a wider range of pH levels but best between 6-7,5 | fodder |
| Southern tea tree | Lycium intricatum | 300 | 12 | 25 | 4,5-8,5 | Dry circumstances. No frost. Good on salty soils,. Never minding long periods of no rain. Suitable for: light (sandy), medium (loamy) and heavy (clay) soils, prefers well-drained soil and can grow in nutritionally poor soil. Suitable pH: acid, neutral and basic (alkaline) soils | Shrub, up to 4 m. With spines, good for fences. Fruit - raw or cooked. The fruit is a berry about 8mm in diameter. Only the fully ripe fruits should be eaten. Young shoots - cooked. Plants have an extensive root system and can be planted to stabilize banks. |
| Albardine, esparto grass | Lygeum spartum | 400 | 0 | 25 | 4,5-8,5 | Species for natural engineering. Lygeum spartum is a PERENNIAL growing to 0.5 m (1ft Sin) by 0.3 m.Suitable for: light (sandy), medium (loamy) and heavy (clay) soils and prefers well-drained soil. Suitable pH: acid, neutral and basic (alkaline) soils. It cannot grow in the shade. It prefers dry or moist soil. | A fibre is obtained from the leaves, it makes a fine quality paper. Used also for making mats, sails, ropes etc. In natural engineering used as strong and tough cover grass. |
| Moon trefoil/tree medick | Medicago arborea | 500 | 10 | 25 | 5,5-7,5 | It can fix Nitrogen. Suitable for: light (sandy), medium (loamy) and heavy (clay) soils. Suitable pH: acid, neutral and basic (alkaline) soils. It cannot grow in the shade. It prefers dry or moist soil. The plant can tolerate maritime exposure. | Forage crop. symbiotic relationship with the bacterium Sinorhizobium meliloti, which is capable of nitrogen fixation |
| Lemon balm | Melissa officinalis | 600 | 4 | 26 | 5,6-9 | Like most aromatics: Suitable for: light (sandy) and medium (loamy) soils and prefers well-drained soil. Suitable pH: acid, neutral and basic (alkaline) soils. It can grow in semi-shade (light woodland) or no shade. It prefers dry or moist soil and can tolerate drought. | Aromatics. |



| Hart's pennyroyal | Mentha sp. | 500 | 4 | 26 | 6,5-7,5 | Like most aromatics: Suitable for: light (sandy) and medium (loamy) soils and prefers well-drained soil. Suitable pH: acid, neutral and basic (alkaline) soils. It can grow in semi-shade (light woodland) or no shade. It prefers dry or moist soil and can tolerate drought. | Aromatics. There are many Mentha species like: Many like: Cervina, pullegium, aquatica, longifolia, suaveolens, arvensis, gracillis, rotundifolia, spicata, viridis. |
|---|---|---------|-----|----|---------|---|--|
| Mulberry | Morus alba | 500 | 10 | 25 | 6-7,5 | Suitable for: light (sandy), medium (loamy) and heavy (clay) soils and prefers well-drained soil. Suitable pH: acid, neutral and basic (alkaline) soils. It can grow in semi-shade (light woodland) or no shade. It prefers moist soil and can tolerate drought. The plant can tolerates strong winds but not maritime exposure. | White mulberry leaves are the preferred feedstock for silkworms, and are also cut for food for livestock (cattle, goats, etc.) in areas where dry seasons restrict the availability of ground vegetation. The fruit are also eaten, often dried or made into wine. |
| Myrtle | Myrtus communis | 600 | 8 | 25 | 5,5-7,5 | Resistant plant. Suitable for: light (sandy), medium (loamy) and heavy (clay) soils and prefers well-drained soil. Suitable pH: acid, neutral and basic (alkaline) soils. It cannot grow in the shade. It prefers dry or moist soil. The plant can tolerate maritime exposure. | Various purposes for berries (8mm). Used to make liqueur or berries used in pork dishes. An essential oil from the leaves and twigs is used as a condiment, especially when mixed with other spices. |
| Olives | Olea europaea sylvestris | 400-600 | -10 | 26 | 6-6,75 | Choose resistant varieties, problem with bacteria (but probably originating from Spanish nurseries). Variety sylvestris is very resistant, no problems seems yet with bacteria. Suitable for: light (sandy), medium (loamy) and heavy (clay) soils, prefers well-drained soil and can grow in nutritionally poor soil. Suitable pH: acid, neutral and basic (alkaline) soils. It cannot grow in the shade. It prefers dry or moist soil and can tolerate drought. | Good for biodiversity, and of course for fruits and oils. |
| Prickly pear | Opuntia ficus- India | 300 | 5 | 26 | 6,1-7,8 | Suitable for: light (sandy) and medium (loamy) soils and prefers well- drained soil. Suitable pH: acid, neutral and basic (alkaline) soils. It cannot grow in the shade. It prefers dry soil and can tolerate drought. The plant can tolerates strong winds but not maritime exposure. | Fruits. Listed Invasive in some countries, although the reality is that they are very slow and easy to control. Perfect fire buffer when planted in fence style |
| Oregano | Origanum vulgare | 400 | 3 | 26 | 6,5-7,5 | Like most aromatics: Suitable for: light (sandy) and medium (loamy) soils and prefers well-drained soil. Suitable pH: acid, neutral and basic (alkaline) soils. It can grow in semi-shade (light woodland) or no shade. It prefers dry or moist soil and can tolerate drought. | Aromatics. |
| Princesstree | Paulownia Tomentosa | 400 | 9 | 25 | 4,5-8,5 | Good in C4 Carbon Fixation (more efficient). This is common among grasses, but unique among all other trees that use C3 Carbon Fixation. Also good for fodder. It also has some medical purposes and for biomass. Paulownia tomentosa can survive wildfire because the roots can regenerate new, very fast-growing stems. | It needs water in the early years, otherwise it does not survice. In North America its an exotic invasive specie. Suitable for: light (sandy), medium (loamy) and heavy (clay) soils and prefers well- drained soil. Suitable pH: acid, neutral and basic (alkaline) soils. Biomass: http://www.paulownia.rs/pub/download/13796072233255_pa ulownia_biomassivestmentproject.pdf Wood: http://www.wood-database.com/paulownia/.Fodder: http://www.wooldagroforestry.org/treedb/AFTPDFS/Paulownia _tomentosa.PDF. Medicinal: http://www.sciencedomain.org/abstract/14066 |
| Avocado | Persea Americana | 500 | 10 | 45 | 4,5-7,0 | It grows best in areas where annual daytime temperatures are within the range 14 - 40°c, but can tolerate 10 - 45°c. It prefers a mean annual rainfall in the range 500 - 2,000mm, but tolerates 300 - 2,500mm. Prefers a position in full sun. Succeeds on all kinds of soil. Requires a well-drained soil, the plant is intolerant of water-logging. Prefers a pH in the range 5 - 5.8, tolerating 4.5 - 7. Requires a position sheltered from strong winds | Fruits. Summer shade tree. Backyard tree. Xerophytic. Other Uses: The pulp and the seeds contain fatty acids, such as oleic, lanolic, palmitic, stearic, linoleic, capric and miristic acid which constitutes 80% of the fruits fatty content. The non-drying oil extracted from the seed is used by the cosmetic industry in soaps and skin moisturizer products. The unripe fruit is poisonous, the seed salso! |
| Narrow-leaved mock privet/ green olive tree | Phillyrea angustifolia or latifolia | 500 | 4 | 25 | 5,6-7,5 | Bee shrub (looks like olive tree). No thorns. Suitable pH: acid, neutral and basic (alkaline) soils. It can grow in semi-shade (light woodland) or no shade. It prefers dry or moist soil. The plant can tolerate maritime exposure. | Not much known about this shrub. Fruits for birds (6mm), but also attract Brahmaea europaea (European owl moth). Charcoal production. Fencing specie. |
| Allepo Pine | Pinus halepensis | 400 | 11 | 25 | 4,5-8,5 | Suitable for: light (sandy) and medium (loamy) soils, prefers well-drained soil and can grow in nutritionally poor soil. Suitable pH: acid, neutral and basic (alkaline) soils and can grow in very alkaline soils. It cannot grow in the shade. It prefers dry or moist soil and can tolerate drought. The plant can tolerates strong winds but not maritime exposure. | Turpentine production. |



| Maritime pine | Pinus pinaster | 500 | 3 | 25 | 5,2-6,2 | Has sanitary problem (nematode) and only used for wood, difficult to get out of montado without damaging oaks. No use outside coastal areas. .Suitable for: light (sandy) and medium (loamy) soils, prefers well-drained soil and can grow in nutritionally poor soil. Suitable pH: acid and neutral soils. It cannot grow in the shade. It prefers dry or moist soil and can tolerate drought. The plant can tolerate maritime exposure. | Turpentine and Seed - raw or cooked. Rich in oil, it has a resinous flavour. The seed is about 1cm long. A vanillin flavouring is obtained as a by-product of other resins that are released from the pulpwood |
|---------------------------------|---|-----|----|----|---------|--|--|
| Stone pine | Pinus pinea | 250 | 0 | 24 | 5,2-6,2 | Very resistant, also on poor soils. Disadvantage is fire risk and not known if/how CC affects production of pine pits (precipitation in september is vital). Usable for improving regeneration of cork oak (shade). Suitable for: light (sandy) and medium (loamy) soils, prefers well-drained soil and can grow in nutritionally poor soil. Suitable pH: acid, neutral and basic (alkaline) soils. It cannot grow in the shade. It prefers dry or moist soil and can tolerate drought. The plant can tolerates strong winds but not maritime exposure. | Resins. And seed - raw or cooked. Rich in oil, the seed has a soft texture with a hint of resin in the flavour. It makes a delicious snack and can also be used as a staple food. The seeds are often added to ice cream, cakes, puddings etc. ADPM sends report on pinus growth conditions (A1). Pinus pinea in Europe: distribution, habitats, usage and threats. R. Abad Vinhas; G. Caudullo; S. Oliveira; D. De Rigo |
| Pistachio, Localized variety | Pistacia lenstiscus and other spp | 300 | 7 | 25 | 7-7,8 | Companion of cork oak. Very resistant, easy to grow. But hard to propagate (birds eat seeds). Thus good for birds and biodiversity romo. Suitable for: light (sandy), medium (loamy) and heavy (clay) soils and prefers well-drained soil. Suitable pH: neutral and basic (alkaline) soils and can grow in very alkaline soils. It cannot grow in the shade. It prefers dry or moist soil and can tolerate drought. | Nuts and oils. |
| Poplar | Populus spp | 600 | 10 | 25 | 4,5-7,5 | P Alba is Suitable for: light (sandy), medium (loamy) and heavy (clay) soils, prefers well-drained soil and can grow in heavy clay soil. It cannot grow in the shade. It prefers dry or moist soil. The plant can tolerate maritime exposure. Landscape Uses:Erosion control, Aggressive surface roots possible. | Some poplars (ratelpopulier) have a lot of root sprouts (invasive). Poplars have very extensive and aggressive root systems that can invade and damage drainage systems. Especially when grown on clay soils, they should not be planted within 12 metres of buildings since the root system can damage the building's foundations by drying out the soil. Leaves - rich in Vitamin C. Inner bark - dried, ground into a powder and added to flour for making bread. A fairly wind resistant tree, it can be grown as part of a shelterbelt planting. A yellow dye is obtained from the bark. Wood - rather woolly in texture, without smell or taste, of low flammability, not durable, very resistant to abrasion, very light, soft, elastic. It is used for less good quality purposes such as making matches, packing materials. |
| Apricot | Prunus armenaica | 400 | 0 | 25 | 6,5-7,5 | Requires a well-drained moisture retentive fertile soil in a warm sunny position. Succeeds in light shade but fruits better in a sunny position. Thrives in a loamy soil, doing well on limestone. Prefers some chalk in the soil but is apt to become chlorotic if too much is present. Prefers a pH in the range 6.5 to 7.5. Dislikes clay soils. Intolerant of saline soils. The plant is heat tolerant and withstand cold winter temperatures. | Fruits. All or parts of this plant are poisonous, Fragrant flowers, Attractive flowers or blooms. |
| Almond | Prunus dulcis | 300 | 7 | 25 | 6-6,75 | Earlier flowering (result of CC) can result in frost damage. On the other hand, many almond varieties are highly drought-resistant showing signs of naturalization (link) (spontaneous colonization e.g. in Spain. Many varieties produce nuts without irrigation. Suitable for: light (sandy), medium (loamy) and heavy (clay) soils and prefers well-drained soil. Suitable pH: acid, neutral and basic (alkaline) soils. It cannot grow in the shade. It prefers moist soil. | Used for nuts and oils for many prposes. |
| Mirabelle plum | Prunus insititia | 600 | 3 | 26 | 6-7,5 | Grows in southern Portugal (P. spinosa in the north), might thus be more climate adaptive. Suitable pH: acid, neutral and basic (alkaline) soils. It can grow in semi-shade (light woodland) or no shade. It prefers moist soil. The plant can tolerates strong winds but not maritime exposure. | Used for fruits (3cm). Fruits (6mm) are edible. Fruit - raw or cooked. More acid than a plum but it is very acceptable raw when fully ripe, especially after being touched by frost |
| Blackthorn/ Sloe | Prunus spinosa | 700 | 4 | 25 | 6,5-8 | Suitable for: light (sandy), medium (loamy) and heavy (clay) soils and prefers well-drained soil. Suitable pH: acid, neutral and basic (alkaline) soils and can grow in very alkaline soils. It can grow in semi-shade (light woodland) or no shade. It prefers moist soil. The plant can tolerate maritime exposure. | The fruit is more usually used in jellies, syrups, conserves etc and as a flavouring for sloe gin and other liqueurs. The rest of the plant is toxic. The hedge is cattle-proof if it is well maintained, though it is rather bare in the winter and, unless the hedge is rather wide, it is not a very good shelter at this time |



| Pomegrenade | Punica granatum | 600 | 4 | 25 | 5,5-7 | Perhaps more resistant than Cydonia (mermelade), but needs water. Suitable for: light (sandy), medium (loamy) and heavy (clay) soils and prefers well-drained soil. Suitable pH: acid, neutral and basic (alkaline) soils. It cannot grow in the shade. It prefers dry or moist soil. | Fruit; Leaves; Seed. Also good for hedges as a possible substitute for box, Buxus spp |
|---|---|---------|-----|----|---------|---|---|
| Iberian pear | Pyrus bourgeana | 400 | 5 | 25 | 6-6,75 | Very resistant, grows in very dry areas. As rootstock for Pyrus communis to produce fruit for consumption. | It is a wild relative of and potential gene donor to pear, P. communis ssp. communis. Fruits are edible, but smaller.Attractive to wildlife |
| Kermes oak / Coscojas | Quercus coccifera | 400-600 | 7 | 25 | 4,7-6,5 | Last Quercus species to survive in extreme drought, higlhy important for biodiversity, very climate-adaptive. Very plastic in soil types. Does better than Holm oak under extreme circumstances. | Shrub oak associated with several asparagus species |
| Portuguese oak | Quercus faginea | 400 | 4 | 25 | 4,7-6,5 | Only in central zones of Portugal, where water available. Is intermedium species between Mediterranean and Atlantic zones, humidity is the limitation. Good for biodiversity (but susceptible to CC). | For Acorns. |
| Holm (stone) oak | Quercus rotundifolia (ilex rotundifolia) | 350 | -24 | 25 | 4,7-6,5 | Less adaptable when compared to Q. suber, Ceratonia siliqua. Expected increase vulnerability to disease. On the other hand, very high regeneration potential also in exposed areas. Problems with Phyotphtera possibly due to cattle and managemetn in plantations (not known). Problem mostly for small landowners who need profitable plantations. Suitable for: light (sandy), medium (loamy) and heavy (clay) soils and can grow in heavy clay soil. Suitable pH: acid, neutral and basic (alkaline) soils and can grow in very alkaline soils. It can grow in semi-shade (light woodland) or no shade. It prefers moist soil. The plant can tolerate maritime exposure. | The acorns, like those of the cork oak, are edible (toasted or as a flour), and are an important food for free-range pigs reared for ibérico ham production. Boiled in water, the acorns can also be used as a medicinal treatment for wound disinfections. Besides that of course the wood is usefull. A hedge can be made as well. |
| Cork oak | Quercus suber | 479 | -10 | 25 | 4,7-6,5 | Suffer from Phytophtera, but on nothern slopes usually bigger. See radiation map; this factor influences resistance, just like forest cover, soils and precipitation. Suitable for: medium (loamy) and heavy (clay) soils. Suitable pH: acid, neutral and basic (alkaline) soils. It can grow in semi- shade (light woodland) or no shade. It prefers moist soil. The plant can tolerates strong winds but not maritime exposure. | Cork, Acorns, timber. Climate data source: 'Cork-oak - Technical guidelines for genetic conservation and use'. Luis Gil and Maria Carolina Varela. |
| Retama | Retama sphaerocarpa | 500 | 5 | 25 | 6,5-8 | Can be used as nurse shrub, resistant. No thorns. Not much else known about this specie. | Can be used to make brooms. Also good for medicin after snake bites. |
| Mediterranean buckthorn (mock privet) | Rhamnus alaternus/ lycioides | 500 | 8 | 25 | 5,8-7,5 | Suitable for: light (sandy), medium (loamy) and heavy (clay) soils. Suitable pH: acid, neutral and basic (alkaline) soils. It can grow in semi-shade (light woodland) or no shade. It prefers dry or moist soil. | Very easy to grow, good fruits, although not much market Plants can be used as a screen or a hedge |
| Sicilian Sumac/ Sommacco | Rhus coriaria | 400 | 16 | 25 | 4,5-8,5 | The plant will grow in any type of soil that is deep and well-drained. Suitable for: light (sandy), medium (loamy) and heavy (clay) soils and prefers well-drained soil. Suitable pH: acid, neutral and basic (alkaline) soils. It cannot grow in the shade. It prefers dry or moist soil. | The dried fruits (3 mm) are used as a spice, particularly in combination with other spices in the mixture called Za'atar. Cashew family. The leaves and the bark were traditionally used in tanning and contain tannic acid. Dyes of various colours, red, yellow, black, and brown, can be made from different parts of the plant. Oil extracted from the seeds can be used to make candles. The immature fruits are used as caper substitutes. Some caution is advised, see the notes above on toxicity. The crushed fruit, mixed with Origanum syriacum, is a principal ingredient of 'Zatar', a popular spice mixture used in the Middle East. The seed is used as an appetizer in a similar manner to mustard |



| Black currant | Ribes nigrum | 600 | 3 | 25 | 6-6,9 | Above 600 mm water. Suitable for: light (sandy), medium (loamy) and heavy (clay) soils and prefers well-drained soil. Suitable pH: acid, neutral and basic (alkaline) soils. It can grow in semi-shade (light woodland) or no shade. It prefers moist soil. | Used for fruits |
|-----------------|---------------------------|-----|---|----|-----------|--|---|
| Red currant | Ribes rubrum | 600 | 3 | 25 | 6-7 | Above 600 mm water. Suitable for: light (sandy), medium (loamy) and heavy (clay) soils and prefers well-drained soil. Suitable pH: acid, neutral and basic (alkaline) soils. It can grow in semi-shade (light woodland) or no shade. It prefers moist soil. | Used for fruits |
| Dog rose | Rosa canina | 500 | 4 | 25 | 6-8 | Suitable for: light (sandy), medium (loamy) and heavy (clay) soils, prefers well-drained soil and can grow in heavy clay soil. Suitable pH: acid, neutral and basic (alkaline) soils. It can grow in semi-shade (light woodland) or no shade. It prefers moist or wet soil. The plant can tolerates strong winds but not maritime exposure. | Fruits, dry, cooked, jams, syrup and tea. Thus you have to add value.Plants make a dense and cattle-proof hedge, especially when trimmed |
| Rosmary | Rosmarinus officinalis | 300 | 6 | 26 | 5,25-6,75 | More resitant specie. Like most aromatics: Suitable for: light (sandy) and medium (loamy) soils and prefers well-drained soil. Suitable pH: acid, neutral and basic (alkaline) soils. It can grow in semi-shade (light woodland) or no shade. It prefers dry or moist soil and can tolerate drought. | Aromatics. |
| Blackberry | Rubus fruticosus | 600 | 3 | 25 | 5,25-6 | Above 600 mm water. Suitable for: light (sandy), medium (loamy) and heavy (clay) soils and prefers well-drained soil. Suitable pH: acid, neutral and basic (alkaline) soils. It can grow in semi-shade (light woodland) or no shade. It prefers moist soil. | Used for fruits |
| Raspberry | Rubus idaeus | 600 | 3 | 25 | 5,25-7,5 | Above 600 mm water. Suitable for: light (sandy), medium (loamy) and heavy (clay) soils and prefers well-drained soil. Suitable pH: acid, neutral and basic (alkaline) soils. It can grow in semi-shade (light woodland) or no shade. It prefers moist soil. | Used for fruits |
| Wild blackberry | Rubus ulmifolius | 500 | 2 | 26 | 4,5-7,5 | Suitable for: light (sandy), medium (loamy) and heavy (clay) soils, prefers well-drained soil and can grow in heavy clay and nutritionally poor soils. Suitable pH: acid, neutral and basic (alkaline) soils and can grow in very alkaline soils. It can grow in full shade (deep woodland) semi-shade (light woodland) or no shade. It prefers moist soil. | Wild varieties hard to control. Not yet really marketed but has potential enough. Berries can be used for many purposes. |
| Butcher's-broom | Ruscus aculeatus | 500 | 4 | 25 | 3-7 | Suitable for: light (sandy), medium (loamy) and heavy (clay) soils, prefers well-drained soil and can grow in heavy clay and nutritionally poor soils. Suitable pH: acid, neutral and basic (alkaline) soils and can grow in very alkaline soils. It can grow in full shade (deep woodland) or semi-shade (light woodland). It prefers dry or moist soil and can tolerate drought. | Young shoots - cooked. They are harvested in the spring as they grow through the soil and used as an asparagus substitute. The taste is pungent and rather bitter. The roasted seed is a coffee substitute. Mature shoots are bound into bunches and used as scourers or as besoms (brooms). |
| Saltworth | Salsola oppositifolia | 300 | 7 | 25 | 4,5-8,5 | Can grow in desert like cicumstances and in dunes. Can withstand salt. | Erosion control. Can withstand extreme dry periods. The leaves and shoots of S. soda (close family), known in Italy as barba di frate or agretti, are cooked and used as vegetables. The species is also used for the production of potash.[6] In Namibia, where the plant is called gannabos, it is a valuable fodder plant. |
| Mint | Salvia officinalis | 400 | 5 | 26 | 6-7 | Like most aromatics: Suitable for: light (sandy) and medium (loamy) soils and prefers well-drained soil. Suitable pH: acid, neutral and basic (alkaline) soils. It can grow in semi-shade (light woodland) or no shade. It prefers dry or moist soil and can tolerate drought. | Aromatics. |
| Winter savory | Satureja montana | 300 | 5 | 26 | 6,5-7 | Like most aromatics: Suitable for: light (sandy) and medium (loamy) soils and prefers well-drained soil. Suitable pH: acid, neutral and basic (alkaline) soils. It can grow in semi-shade (light woodland) or no shade. It prefers dry or moist soil and can tolerate drought. | Aromatics. |
| Spanish Broom | Spartium junceum | 300 | 0 | 25 | 4,5-8,5 | Succeeds in any well-drained but not too fertile soil in a sunny position. Prefers a lime free soil according to one report whilst another says that it thrives on alkaline and poor sandy soils. Very wind resistant, tolerating maritime exposure. Tolerates atmospheric pollution and thrives on hot | Erosion control and natural fence (ornamental as well). Minor uses. Some medical, fibre and essential oil. In some countries (US/ South America this specie is invasive. |



| | | | | | | dry banks. A very ornamental plant, it is hardy to between -10 and -18°c when in a suitable position | |
|------------------------|--|-----|---|----|---------|--|---|
| Thyme | Thymus sp | 400 | 5 | 26 | 6-6,75 | Like most aromatics: Suitable for: light (sandy) and medium (loamy) soils and prefers well-drained soil. Suitable pH: acid, neutral and basic (alkaline) soils. It can grow in semi-shade (light woodland) or no shade. It prefers dry or moist soil and can tolerate drought. | Aromatics. |
| Subterranean clover | Trifolium subterraneum (and other spp) | 500 | 4 | 26 | 6-7,5 | As normal for clover species this grows on most soils and in a wider range of pH levels, but best between 6-7,5 | fodder |
| Field Elm | Ulmus minor | 400 | 0 | 25 | 4,5-8,3 | Well drained soils, can withstand winters. It is noted for attracting wildlife and butterflies. Suitable for: light (sandy), medium (loamy) and heavy (clay) soils, prefers well-drained soil and can grow in heavy clay soil. Suitable pH: acid, neutral and basic (alkaline) soils. It can grow in semi- shade (light woodland) or no shade. | Timber. The species has a hugely variable reaction to Dutch elm disease. Inner bark can be used for medical purposes an fibres.A good tree for growing grapes into. |
| Blueberry | Vaccinium corymbosum | 600 | 3 | 25 | 4,5-5,5 | Above 600 mm water. Suitable for: light (sandy), medium (loamy) and heavy (clay) soils and prefers well-drained soil. Suitable pH: acid, neutral and basic (alkaline) soils. It can grow in semi-shade (light woodland) or no shade. It prefers moist soil. | Used for fruits |