**Key B: Trees and Shrubs**

1. Leaves simple or lacking..................................................................................................2

Leaves compound..........................................................................................................50

1. Leaves scale-like, 1 - 3 mm long........................................................................................3

Leaves **NOT** scale-like, well-developed..............................................................................4

1. Plants thorny.................................................................................**Capparaceae** (Allthorn)

Plants **NOT** as above, sessile, scale-like, alternate, leaves perfect flowers ..................................................................on spike raceme. **Tamaricavceae** (Salt Cedar)

1. Leaves 2-ranked, fruit a cone..............................................**.Taxodinaceae** (Bald Cypress)

Leaves and fruit **NOT** as above.........................................................................................5

1. Leaves fan-shaped and pleated............................................................**Arecaceae** (Palms)

Leaves **NOT** as above........................................................................................................6

1. Leaves 30 cm or longer, sharp, pointed..............................................**.Agavaceae** (Agave)

Leaves **NOT** as above.........................................................................................................7

1. Leaves mostly or all opposite or whorled.........................................................................8

Leaves mostly or all alternate or bunched at nodes on spines........................................19

1. Plants growing as parasites on stems of trees and shrubs...............**Viscaceae** ( Mistletoe)

Plants rooted in soil...........................................................................................................9

1. Plants of wet salty soils along the coast..........................................................................10

Plants **NOT** of the above habitat......................................................................................12

1. Leaves fleshy........................................................................................**Bataceae** (Saltwort)

Leaves **NOT** as above.......................................................................................................11

1. Leaves whitish beneath...................................................**Avicenniaceae** (Black Mangrove)

Leaves green on both sides..................................................................**Asteraceae** (Asters)

1. Perianth lacking.........................................................................................**Oleaceae** (Olive)

Perianth present...............................................................................................................13

1. Corolla of separate petals.................................................................................................14

Corolla of united petals....................................................................................................15

1. Petals pink to reddish purple.........................................**Malpighiaceae** (Barbados Cherry)

Petals greenish yellow or whitish........................................................**Rhamnaceae** (Brasil)

1. Ovary inferior.................................................................................**Rubiaceae** (Bottonbush)

Ovary superior..................................................................................................................16

1. Stamens 2.........................................................................................................................17

Stamens 4........................................................................................**Verbenaceae** (Verbina)

1. Leaves toothed........................................................................................**Lamiaceae** (Mint)

Leaves entire....................................................................................................................18

1. Plants reaching tree size reaching 15 m.....................................**Boraginaceae** (Wild Olive)

Plants shrubs reaching 1 m...........................................................**Acanthaceae** (Acanthus)

1. Plants more or less thorny...............................................................................................20

Plants **NOT** as above........................................................................................................30

1. Leaves are partly or all toothed or lobed.........................................................................21

Leaves entire....................................................................................................................24

1. Perianth **NOT** differentiated into calyx and corolla **OR** only calyx present......................22

Perianth differentiated into calyx and corolla.................................................................23

1. Leaves roughish; thorns mostly in pairs......................................................**Ulmaceae** (Elm)

Leaves smooth; toothed; thorns not paired......................................**Moraceae** (Mulberry)

1. Petals greenish-yellow................................................................**.Rhamnaceae** (Buckhorn)

Petals white..............................................................................................**Roseaceae** (Rose)

1. Perianth **NOT** differentiated into calyx and corrola.........................................................25

Perianth differentiated into calyx and corolla.................................................................27

1. Sepals about 1 mm long,triangular..............................................**.Rhamnaceae** (Buckhorn)

Sepals about 2 mm long, oval or obovate..............................**.Phytolaccaceae** (Pokeweed)

1. Petals greenish-yellow...................................................................**.Ramnaceae** (Buckhorn)

Petals white.............................................................................................**.Roseaceae** (Rose)

1. Corolla of separate petals................................................................................................28

Corolla of united petals, fertile stamens 4 or 5................................................................29

1. Petals 4....................................................................................**Simaroubaceae** ((Amargosa)

Petals 5......................................................................................... **Rhamnaceae** (Buckhorn

1. Stamenoids (unfertile stamens) about 5........................................**Sapotaceae** (Ironwood)

Stamenoids lacking.......................................................................**Solenaceae** (Nightshade)

1. Perianth lacking................................................................................................................31

Perianth present...............................................................................................................33

1. Flowers in drooping globous heads.........................................**Platanaceae** (Sea Lavender)

Flowers in catkins.............................................................................................................32

1. Leaves dotted with yellow glands, aromatic..............................**.Myricaceae** (Wax Myrtle)

Leaves **NOT** as above..........................................................................**Salicaceae** (Willows)

1. Perianth **NOT** differentiated into calyx and corolla.........................................................34

Perianth differentiated into calyx and corolla..................................................................40

1. Flowers in involucrate heads................................................................**Asteraceae** (Asters)

Flowers **NOT** as above......................................................................................................35

1. Flowers partly or all perfect.............................................................................................36

Flowers unisexual.............................................................................................................37

1. Styles one; leaves equilateral, evergreen............................................ **Lauraceae** (Laurels)

Styles two; leaves **NOT** equilateral, deciduous.........................................**Ulmaceae** (Elms)

1. Male and female flowers on the same plant; the male in catkins or racemes................38

Male and female flowers on separate plants; , pubescent stellate .......................................................................................................**Euphorbiaceae** (Spurge)

1. Females flowers solitary or few........................................................................................39

Female flowers in short spikes; fruits fleshy......................................**Moraceae** (Mulberry)

1. Fruit an acorn..............................................................................................**Fagaceae** (Oak)

Fruit a dry capsule.........................................................................**Euphorbiaceae** (Spurge)

1. Corolla of separate or nearly separate petals..................................................................41

Corolla of united petals....................................................................................................46

1. Leaves entire....................................................................................................................42

Leaves toothed or lobed..................................................................................................43

1. Leaves with stellate pubescence.................................................**.Euphorbiaceae** (Spurge)

Leaves glabrous......................................................................**Celastraceace** (Leather Leaf)

1. Stamens 4 - 5....................................................................................................................44

Stamens more than 5.....................................................................................................45

1. Sepals densely hairy....................................................................**Rhamnaceae** (Buckhorn)

Sepals glabrous or nearly so.............................................................**Aquifoliaceae** (Holly)

1. Filaments united to for a tube around the style..............................**.Malvaceae** (Mallow)

Filaments separate...............................................................................**.Roseaceae** (Rose)

1. Flowers unisexual, the male and female on separate plants.........................................47

Flowers perfect................................................................................................................48

1. Plant a shrublet with smooth pliable stems................................**Euphorbiaceae** (Spurge)

Plant a tree or large shrub...........................................................**.Ebenaceae** (Persimmon)

1. Leaves rough; ovary superior.................................................... **Boraginaceae** (Wild Olive)

Leaves smooth..................................................................................................................49

1. Leaves densely pubsecent........................................................**Scrophularaceae** (Figwort)

Leaves glabrous...........................................................................**Solanaceae** (Nightshade)

1. Leaves opposite................................................................................................................51

Leaves alternate................................................................................................................54

1. Leaflets 5 - 14 mm long................................................................**Zygophyllaceae** (Caltrop)

Leaflets much longer.........................................................................................................52

1. Plant a shrub..........................................................................**Caprifoliaceae** (Honeysuckle)

Plant a tree.......................................................................................................................53

1. Leaflets usually 3 - 5; coarsely toothed................................................................Aceraceae

Leaflets usually 5 – 7; shallowly toothed or entire..................................**.Oleaceae** (Olive)

1. Stems prickly or spiny.......................................................................................................55

Stems **NOT** as above.........................................................................................................57

1. Leaflets toothed................................................................................................................56

Leaflets entire............................................................................................**.Fabaceae** (Peas)

1. Flowers clustered, yellow-green..............................................................**Rutaceae** (Citrus)

Flowers mostly solitary, white..................................................................**Roseaceae** (Rose)

1. Leaflets prickly..............................................................................**.Berberiaceae** (Barberry)

Leaflets **NOT** prickly..........................................................................................................58

1. Leaflets toothed or lobed.................................................................................................59

Leaflets entire...................................................................................................................63

1. Leaflets 3...........................................................................................................................60

Leaflets more than three..................................................................................................61

1. Leaflets 0.6 - 3 cm long.............................................................................**Rutaceae** (Citrus)

Leaflets 3 - 20 cm long....................................................................**Anacardiaceae** (Sumac)

1. Leaves pinnate..................................................................................................................62

Leaves bipinnate..............................................................................**Meliaceae** (Mahogany)

1. Leaflets 5 - 7................................................................................ **Sapindaceae** (Soapberry)

Leaflets 9 - 13..................................................................................**Juglandaceae** (Walnut)

1. Leaflets 2 or 3...................................................................................................................64

Leaflets more than 3.........................................................................................................66

1. Leaflets 2.....................................................................................................**.Fabaceae** (Pea)

Leaflets 3...........................................................................................................................65

1. Plant a low shrub or climbing vine..................................................**Anacardiaceae** (Sumac)

Plant a small tree......................................................................................**Rutaceae** (Citrus)

1. Petioles winged..............................................................................**Anacardiaceae** (Sumac)

Petioles **NOT** winged.........................................................................................................67

1. Leaflets narrow to a point............................................................**Sapindaceae** (Soapberry)

Leaflets **NOT** pointed...................................................................................**Fabaceae** (Pea)