

**Turraea L.**

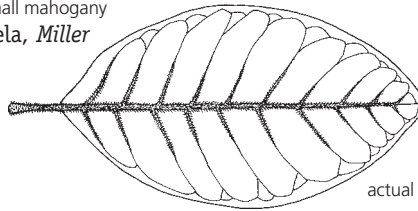
**Wild honeysuckle trees**

***Turraea nilotica* Kotschy & Peyr.**

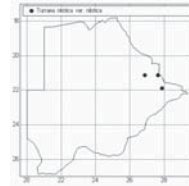
bushveld honeysuckle tree, small mahogany

Voucher: Chobe, Serondela, Miller B/1042 (GAB)

N, SE



actual size: 110 mm



***Turraea obtusifolia* Hochst.**

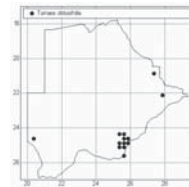
N, SW, SE

molemo-wa-sepeiti, molwetsemabe, motlholadilo, mperefiri, xaekamtso; lesser honeysuckle tree, small honeysuckle tree

Voucher: Kanye, Miller B/266 (PRE)



actual size: 37 mm

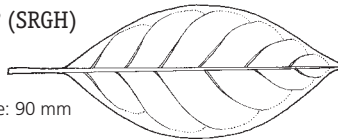


***Turraea zambesica* Sprague & Hutch. ex Styles & F.White**

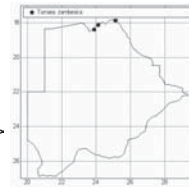
N

motulu; Zambezi honeysuckle tree

Voucher: Serondela, Miller B/1042 (SRGH)



actual size: 90 mm



**MONTINIACEAE**

Clove Bush family

**Montinia Thunb.**

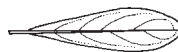
**Wild clove-bushes**

***Montinia caryophyllacea* Thunb.**

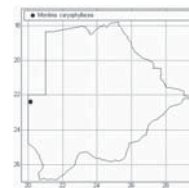
SW

wild clove-bush

Voucher: Between Ghanzi and Gobabis, Mamuno Gate, Brown 34 (SRGH)



actual size: 46 mm



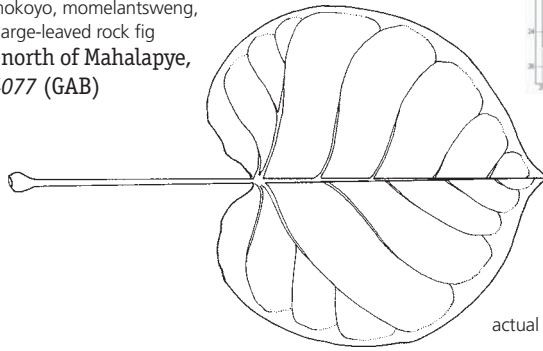
MORACEAE  
Fig family

**Ficus L.**  
Fig trees

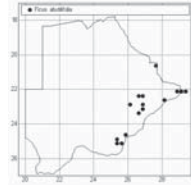
***Ficus abutilifolia* (Miq.) Miq.**

mhawa, mohawa, mokoyo, momelantsweng, mpawa, ntulukuse; large-leaved rock fig  
Voucher: 4 miles north of Mahalapye, Van Rensburg B4077 (GAB)

N, SE



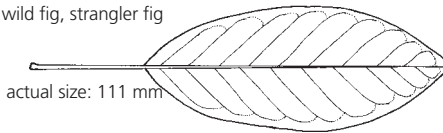
actual size: 286 mm



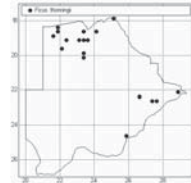
***Ficus burkei* (Miq.) Miq.**

(*Ficus thonningii* Blume)  
mmumu, moumo; common wild fig, strangler fig  
Voucher: 15 km south of Maun, Long & Rae 228 (GAB)

N, SE



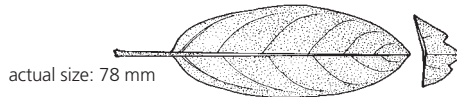
actual size: 111 mm



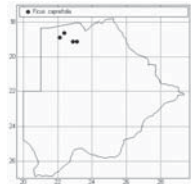
***Ficus capreifolia* Delile**

rough-leaved fig, sandpaper fig  
Voucher: Moremi Game Reserve, Lent 29 (PRE)

N



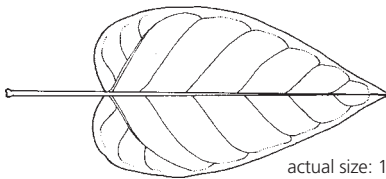
actual size: 78 mm



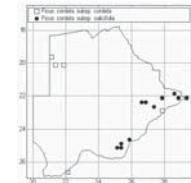
***Ficus cordata* Thunb. subsp. *cordata***

motlhatswa; Namaqua fig  
Voucher: Gcwihaba Hills, Cavern Hill, Long & Rae 311 (GAB)

N



actual size: 101 mm



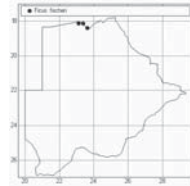
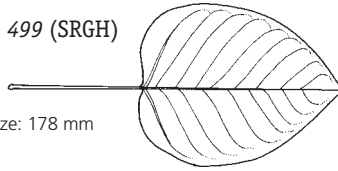
□ *Ficus cordata* subsp. *cordata*

***Ficus fischeri* Warb. ex Mildbr. & Burret** N

savanna fig

Voucher: Chambasha River, *Smith 499* (SRGH)

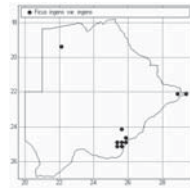
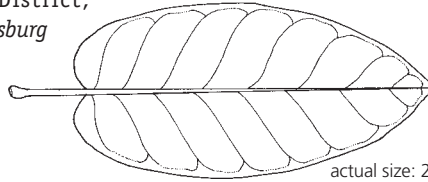
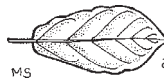
actual size: 178 mm

***Ficus ingens* (Miq.) Miq. var. *ingens*** N, SE

mmumu, moumo; red-leaved rock fig

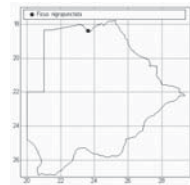
Voucher: Southern District,  
Manyana Village, *Van Rensburg*  
*B4139b* (GAB)

actual size: 228 mm

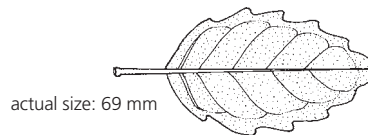
***Ficus nigropunctata* Mildbr. & Burret** NVoucher: Linyanti, *Miller B/1031* (SRGH)

MS

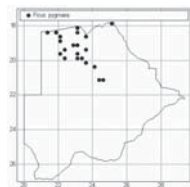
actual size: 40 mm

***Ficus pygmaea* Welw. ex Hiern** N

motshabana; dwarf fig

Voucher: Zibadianja Lagoon, *Biegel, Pope & Gibbs*  
*Russell 4011* (SRGH)

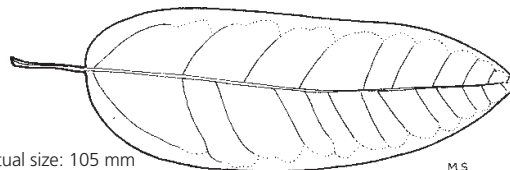
actual size: 69 mm

***Ficus salicifolia* (Vahl) C.C.Berg** SE*(Ficus cordata* Thunb. subsp. *salicifolia* (Vahl) C.C.Berg)

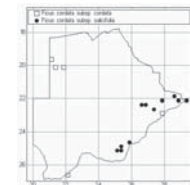
motlhatswa; Namaqua fig, wonderboom fig

Voucher: 12 km east of Bobonong, *Frost 145* (GAB)

actual size: 105 mm



MS



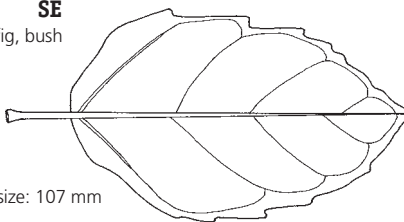
● *Ficus cordata* subsp.  
*salicifolia*

***Ficus sur* Forssk.**

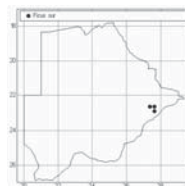
mokoyo, mpawa; broom cluster fig, bush fig, Cape fig, firesticks, wild fig

Voucher: Palapye, Chadibe, De Beer T11 (GAB)

SE



actual size: 107 mm

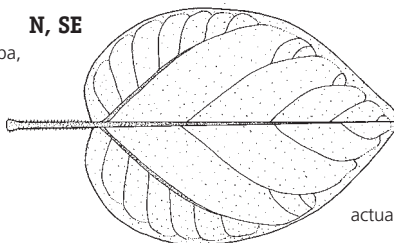


***Ficus sycomorus* L.**

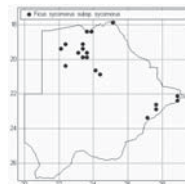
hambkutu, mochaba, motshaba, wokoyo; sycamore fig

Voucher: Thaokhe River, Erens 247 (PRE)

N, SE



actual size: 104 mm

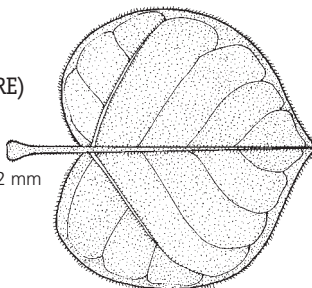


***Ficus tettensis* Hutch.**

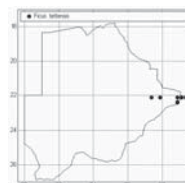
mophaphama; small-leaved rock fig

Voucher: Topisi Siding, Miller B804 (PRE)

SE



actual size: 82 mm

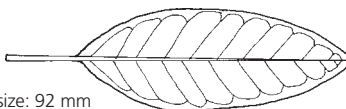


***Ficus verruculosa* Warb.**

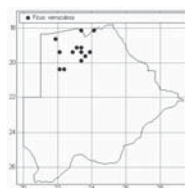
gomoti, komoti, moumo, mpanda; water fig

Voucher: Thaokhe River, Pole Evans 4048 (PRE)

N



actual size: 92 mm



**MYRICACEAE**  
Waxberry family

***Morella* Lour.**

**Waxberries**

***Morella serrata* (Lam.) Killick**

lance-leaved waxberry

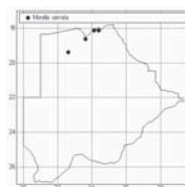
Voucher: Linyanti River at Shaile, Gibbs Russell 2407 (GAB)

N



actual size: 100 mm

M.S



## MYRTACEAE

### Eucalyptus family

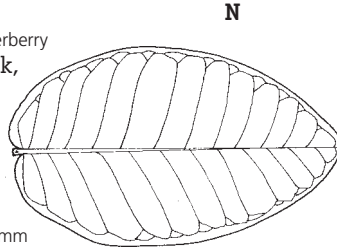
#### *Syzygium* Gaertn.

##### Water pear trees

#### *Syzygium cordatum* Hochst. ex Sond. var. *cordatum*

kowa, mokwa; water pear, waterberry

Voucher: Kwando riverbank,  
just downstream of Botswana/Caprivi boundary,  
18° 01'S, 23° 18'E, Smith  
1183 (SRGH; K)



actual size: 88 mm



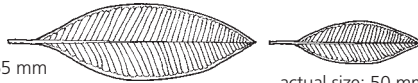
actual size: 35 mm



#### *Syzygium guineense* (Willd.) DC. subsp. *barotsense* F.White

kasane, kowa, mosane, motoya; bi-coloured waterberry,  
waterberry

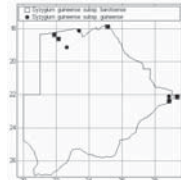
Voucher: Kasane, Venter, Archer & Hahn 383 (PRE)



actual size: 65 mm

actual size: 50 mm

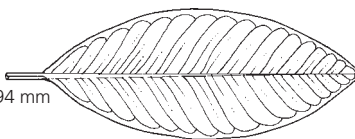
□ *Syzygium guineense* subsp. *barotsense*



#### *Syzygium guineense* (Willd.) DC. subsp. *guineense*

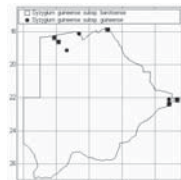
kasane, mmako, mosane, motoya; woodland waterberry

Voucher: Tuli Block, Farm Uitspan 3 MS, Baytopp  
132 (UNIN)



actual size: 94 mm

● *Syzygium guineense* subsp. *guineense*



## OCHNACEAE

### Ochna family

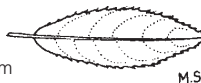
#### *Ochna* L.

##### Wild plane trees

#### *Ochna cinnabarina* Engl. & Gilg

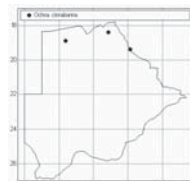
monyelenyele

Voucher: Botswana–Namibia border at 1823AA, Smith  
3837 (GAB)



actual size: 33 mm

M.S.

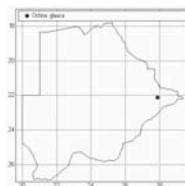


***Ochna glauca* Verd.**

SE

blue-leaved ochna, blue plane

Voucher: 7 km south of Shashe River and 9 km west of Shashe-Tati confluence, *Frost 53* (GAB)

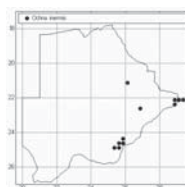


***Ochna inermis* (Forssk.) Schweinf.**

N, SE

monyeleneyele; boat-fruit ochna, lowveld plane

Voucher: Pharing, *Hillary & Robertson 476* (PRE)



***Ochna pretoriensis* Phill.**

SE

monyeleneyele; Magaliesberg plane

Voucher: Gaborone, *Hansen 3280* (GAB)



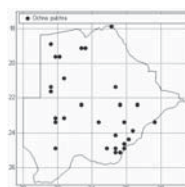
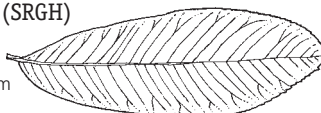
***Ochna pulchra* Hook.**

N, SW, SE

monyeleneyele, motlhakolane-wa-lejwe, mozwe, muyui; mickey mouse bush, peeling-bark plane, peeling plane

Voucher: Mabeleapodi, *Story 4722* (SRGH)

actual size: 85 mm



**OLACACEAE**  
Sourplum family

***Olax* L.**

**Bastard sourplum trees**

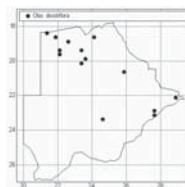
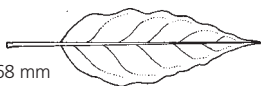
***Olax dissitiflora* Oliv.**

N, SE

moshalashala; bastard sourplum, small-fruited olax

Voucher: Ngamiland, *Erens 256* (SRGH)

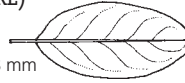
actual size: 68 mm



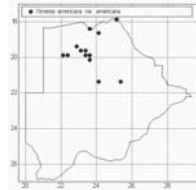
**Ximenia L.****Sourplum bushes*****Ximenia americana* L. var. *americana* N, SW, SE**

chibitswa, moretologana, moretologa-wa-pudi, moretonoga, moretonoha, motsididi, nswanja-bakhwa, seretologa; blue sourplum, small sourplum

Voucher: Orapa, Kautse Hill, BPP175, Allen 383 (PRE)



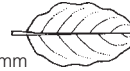
actual size: 48 mm

***Ximenia americana* L. var. *microphylla* Welw. ex Oliv.**

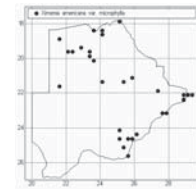
**N, SW, SE**

chibitswa, moretologana, moretologa-wa-pudi, moretonoga, moretonoha, motsididi, nswanja-bakhwa, seretologa; blue sourplum, small sourplum

Voucher: Ghanzi, Story 5061 (PRE)

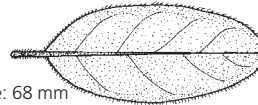


actual size: 34 mm

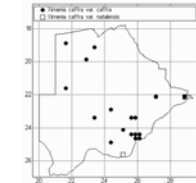
***Ximenia caffra* Sond. var. *caffra* N, SW, SE**

moretologa, moretologa-wa-kgomo, moretonoga, morokolo, motsidi, mwombe, nswanja-ngombe; large sourplum, monkey plum

Voucher: Western Lephepe, De Beer 554 (SRGH)



actual size: 68 mm



● *Ximenia caffra* subsp. *caffra*

## OLEACEAE

Olive family

***Olea* L.****Olive trees*****Olea europaea* L. subsp. *africana* (Mill.)**

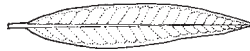
**P.S.Green**

**N, SE**

mokgware, motlhware; wild olive

Voucher: 31 km west-northwest of Lobatse, Leach & Noel 183 (SRGH)

actual size: 65 mm

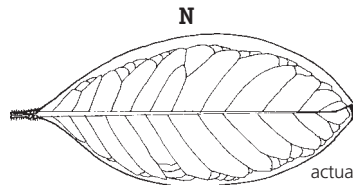


actual size: 15 mm

***Schrebera* Roxb.****Wild jasmine bushes*****Schrebera trichoclada* Welw.**

wooden-pear

Voucher: Kasane, Mutakela 1/66/8 (SRGH)



actual size: 93 mm



**PEDALIACEAE**  
Sesame family

***Sesamothamnus Welw.***

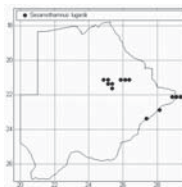
**Sesame bushes**

***Sesamothamnus lugardii* N.E.Br. ex Stapf N, SE**

moboana, motono, seboaboana, siboana, thobega; sesame bush, Transvaal sesame bush

Voucher: Between Lake Xau and Tsokotse Pan, *Wild & Drummond 7239* (SRGH)

actual size: 35 mm



**POLYGALACEAE**  
Milkwort family

***Securidaca L.***

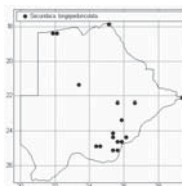
**Violet trees**

***Securidaca longepedunculata* Fresen. N, SW, SE**

bogokgwe, magolela, mmaba, mofufu; violet tree

Voucher: Molepolole, *J.E. Barnes 385* (GAB)

actual size: 43 mm



**PROTEACEAE**  
Protea family

***Faurea Harv.***

**African beechwoods**

***Faurea saligna* Harv. SE**

mofufu, mokwele, monyena; beechwood, Transvaal beech

Voucher: Valley close to Mannyelanong Hill, 20 miles south of Gaborone, *Mott 625* (GAB)

actual size: 212 mm



***Protea L.***

**Sugarbushes**

***Protea gagedi* J.F.Gmel. N**

African protea

Voucher: Kazungu Forest, *Yalala 209* (GAB)

actual size: 100 mm



PTAEROXYLACEAE  
Sneezewood family

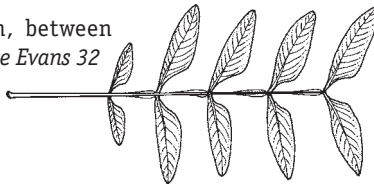
***Ptaeroxylon* Eckl. & Zeyh.**

Sneezewood trees

***Ptaeroxylon obliquum* (Thunb.) Radlk. N, SE**

tati; sneezewood

Voucher: Tati Concession, between  
Sebina and Kalakamati, *Pole Evans 32*  
(PRE)



actual size: 95 mm



RHAMNACEAE  
Dogwood family

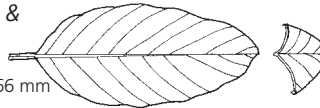
***Berchemia* Neck. ex DC.**

Ivorywood trees

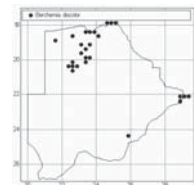
***Berchemia discolor* (Klotzsch) Hemsl. N, SE**

inzi, motsintsila, mozinzila, mutsintsila; bird plum

Voucher: Serondela, *Robertson & Elffers 57* (PRE)



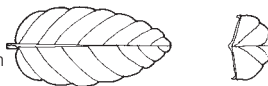
actual size: 66 mm



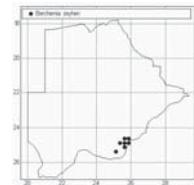
***Berchemia zeyheri* (Sond.) Grubov SE**

monyee, moye; red ivory

Voucher: Otse, *Miller B/232* (PRE)



actual size: 44 mm

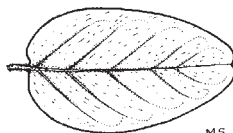


***Helinus* E.Mey. ex Endl.**

***Helinus integrifolius* (Lam.) Kuntze N, SW, SE**

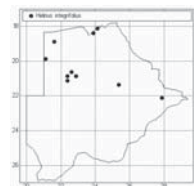
leheto

Voucher: Tsodilo Hills, *Woollard 1539* (UCBG)



M.S

actual size: 51 mm



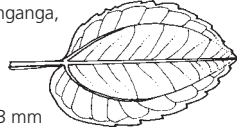
**Ziziphus Mill.**

**Buffalo thorn trees**

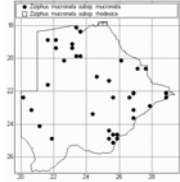
***Ziziphus mucronata* Willd. subsp. *mucronata***

**N, SW, SE**

mabyana-a-mala-a-tupa, moketekete, mokgalo, monganga, nchecheni; buffalo thorn, shiny leaf, wait-a-bit  
 Voucher: Molepolole, *Story 4873* (PRE)



actual size: 63 mm



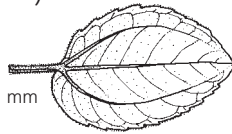
● *Ziziphus mucronata* subsp. *mucronata*

***Ziziphus mucronata* Willd. subsp. *rhodesica***

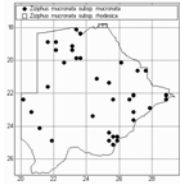
**R.B.Drumm.**

**N**

jujube, mokgalo; woolly buffalo thorn  
 Voucher: Kasane, Chobe River, *Erens 387* (PRE)



actual size: 61 mm



□ *Ziziphus mucronata* subsp. *rhodesica*

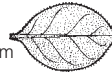
**RUBIACEAE**  
 Gardenia family

***Canthium* Lam.**

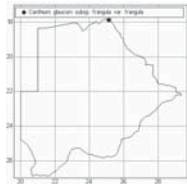
**Rock alder bushes**

***Canthium glaucum* subsp. *frangula* S.Moore** **N**

pink-fruited canthium, pink-fruited rock alder  
 Voucher: Serondela, Chobe District, *Miller B/1126* (PRE)

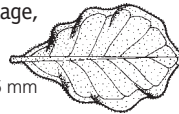


actual size: 29 mm

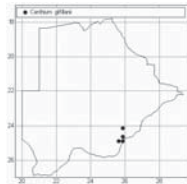


***Canthium gilfillanii* (N.E.Br.) O.B.Mill.** **SE**

monyonyane; velvet rock alder  
 Voucher: 2 miles northwest of Lentsweletau Village, *Woollard 752* (UCBG)

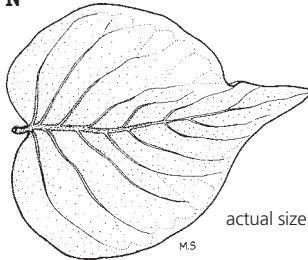


actual size: 46 mm



***Canthium pseudorandii* Bridson** **N**

(*Canthium burttii* Bullock)  
 mottled-bark canthium, mottled-bark rock alder  
 Voucher: At base of rocky granite kopje about 63km from Francistown near Maun Road, *Smith 2932* (PRE)

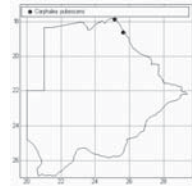
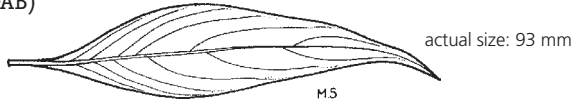


actual size: 82 mm



***Carphalea* Juss.*****Carphalea pubescens* (Klotzsch) Verdc. N**

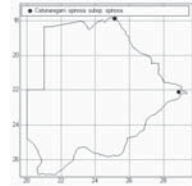
cups and saucers

Voucher: Lesoma Village, near Kasane, *Kalake 112/2* (GAB)***Catunaregam* Wolf****Bone-apple bushes*****Catunaregam spinosa* (Thunb.) Tirveng. subsp. *spinosa* N, SE**

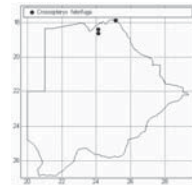
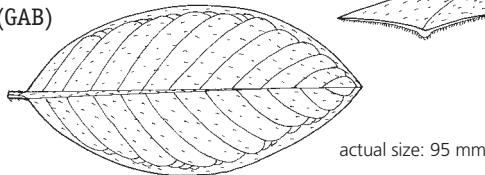
thorny bone-apple

Voucher: Kazungula, Baikiaea Forest, *Miller B/384* (PRE)Note: Bridson points out that this name refers to an Asian, not an African, species. She refers to the African species as '*Catunaregam* sp. A' as it has not been given a specific epithet yet.

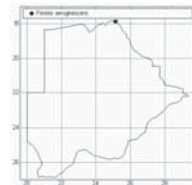
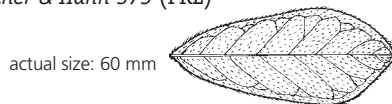
actual size: 34 mm

***Crossopteryx* Fenzl****Crystal-bark trees*****Crossopteryx febrifuga* (Afzel. ex G.Don) Benth. N**

crystal-bark

Voucher: Southwest of Lesoma, *Hargreaves 6524* (GAB)***Feretia* Delile*****Feretia aeruginescens* Stapf N**

feretia

Voucher: Kasane, *Venter, Archer & Hahn 375* (PRE)

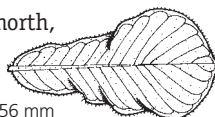
**Gardenia J.Ellis**

**Gardenia bushes**

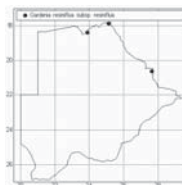
***Gardenia resiniflua* Hiern subsp. *resiniflua* N**

gummy gardenia

Voucher: 5 miles north of Tsessebe on road north,  
Woollard 1343 (UCBG)



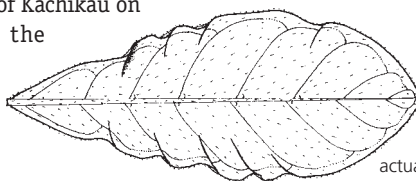
actual size: 56 mm



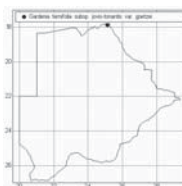
***Gardenia ternifolia* Schum. & Thonn. subsp. *jovis-tonantis* (Welw.) Verdc. var. *goetzei* (Stapf & Hutch.) Verdc. N**

morala; large-leaved common gardenia

Voucher: 36 miles north of Kachikau on  
road to Kasane along the  
Chobe River, *Erens* 389  
(PRE)



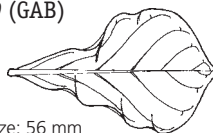
actual size: 110 mm



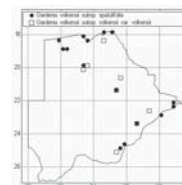
***Gardenia volkensii* K.Schum. subsp. *spatulifolia* (Stapf & Hutch.) Verdc. N, SE**

kabunga, monyapula, morala, moravi, sulu; common gardenia, savanna gardenia, Transvaal gardenia

Voucher: Near Gaborone Dam, *Barnes* 240 (GAB)



actual size: 56 mm



● *Gardenia volkensii* subsp. *spatulifolia*

***Gardenia volkensii* K.Schum. subsp. *volkensii* var. *volkensii* N, SE**

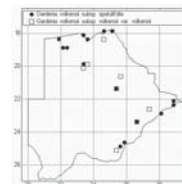
monyapula, morala, nnala; savanna gardenia, Transvaal gardenia

Voucher: By road going north from Moremi, Tswapong Hills, *Woollard* 1787 (UCBG)



MS

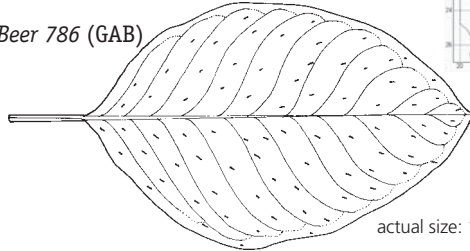
actual size: 30 mm



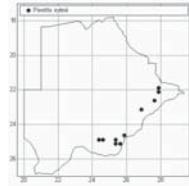
□ *Gardenia volkensii* subsp. *volkensii* var. *volkensii*

***Pavetta* L.****Bride's bushes*****Pavetta eylesii* S.Moore****SE**

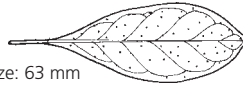
gaijiwe, mmawa, moradintane; broad-leaved bride's bush, flaky-bark pavetta

Voucher: Mahalapye, *De Beer 786* (GAB)

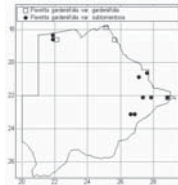
actual size: 123 mm

***Pavetta gardeniifolia* A.Rich. var. *gardeniifolia*****N, SE**

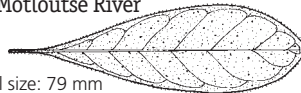
legonyana, legonyane, mmawa, mmilorotswane; common bride's bush, common pavetta

Voucher: Banks of Sibuyu River, *Smith 4292* (GAB)

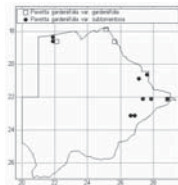
actual size: 63 mm

□ *Pavetta gardeniifolia* var. *gardeniifolia****Pavetta gardeniifolia* A.Rich. var. *subtomentosa* K.Schum.****N, SE**

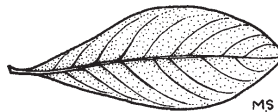
legonyana, legonyane, mmawa, mmilorotswane; common pavetta, hairy common bride's bush

Voucher: 2 km east of the Sedibe and Motloutse River confluence, *Frost 234* (GAB)

actual size: 79 mm

● *Pavetta gardeniifolia* var. *subtomentosa****Pavetta harborii* S.Moore****N, SE**

legonyana, legonyane; pavetta

Voucher: On road 25 miles southwest of Shoshong, *Woollard 919* (UCBG)

actual size: 57 mm

MS

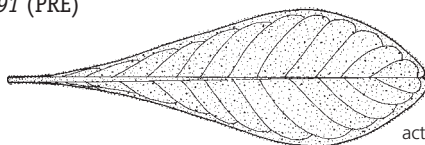


***Pavetta schumanniana* F.Hoffm. ex K.Schum.**

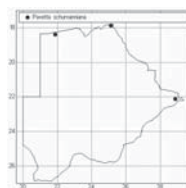
**N, SE**

legonyana, legonyane, mmawa; poison bride's bush, poison pavetta

Voucher: Common on sand banks in Mohembo-Shakawe area, *Smith 2691* (PRE)



actual size: 113 mm



***Pavetta zeyheri* Sond.**

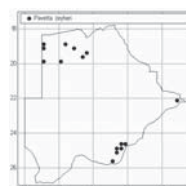
**N, SE**

mathaole, matialule, mathaolole, tshitabanna; small-leaved bride's bush

Voucher: St. Joseph's College, south of Gaborone, *Hansen 3122* (GAB)



actual size: 58 mm



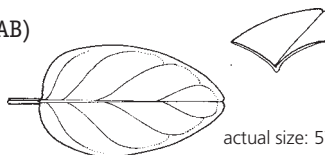
***Plectroniella Robyns***

**Bastard turkey-berries**

***Plectroniella armata* (K.Schum.) Robyns** **N, SE**

moopakgomo; bastard turkey-berry

Voucher: Moremi, *De Beer T15* (GAB)



actual size: 57 mm



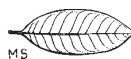
***Psychotria L.***

***Psychotria zombamontana* (Kuntze) E.M.A.Petit**

**SE**

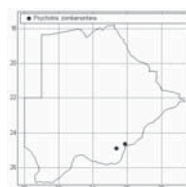
mountain psychotria, rib-fruited psychotria

Voucher: Polokwe Hills, 9 miles northwest of Kanye, *Woollard 487* (UCBG)



MS

actual size: 35 mm



***Psydrax Gaertn.***

**Quar bushes**

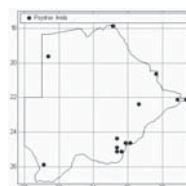
***Psydrax livida* (Hiern) Bridson** **N, SW, SE**

modumelantswe, monyonyane; bushveld psydrax, bushveld quar, common psydrax

Voucher: Gaborone Dam, *Hansen 3504* (GAB)



actual size: 47 mm



***Rothmannia* Thunb.**

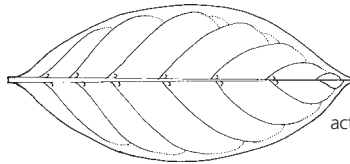
Wild gardenia trees

***Rothmannia capensis* Thunb.**

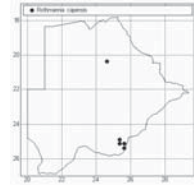
morutla; common rothmannia, wild gardenia

Voucher: Kanye, Woollard 1122 (UCBG)

SE



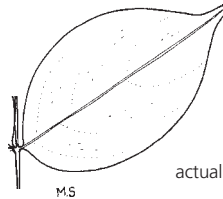
actual size: 90 mm

***Rytigynia* Blume*****Rytigynia umbellulata* (Hiern) Robyns**

N

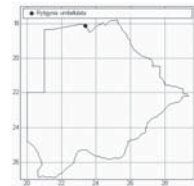
Voucher: Kwando River, main stream, Hansen 2306

(GAB)



actual size: 70 mm

M.S

***Tarenna* Gaertn.**

Bastard bride's bushes

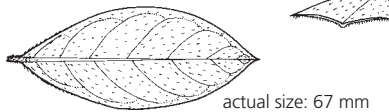
***Tarenna luteola* (Stapf) Bremek.**

N

velvet-leaved bastard bride's bush, velvet-leaved tarenna

Voucher: Mukusi Forest, Kazungula, fl. xi.1935, Miller

B88 (K)



actual size: 67 mm

***Tricalysia* A.Rich. ex DC.**

Bastard coffee bushes

***Tricalysia junodii* (Schinz) Brenan var. *junodii***

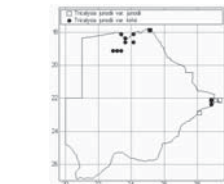
SE

Voucher: Tuli, Breitenbach s.n. (PRE)



actual size: 80 mm

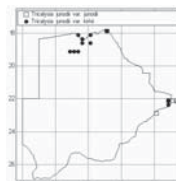
M.S

□ *Tricalysia junodii* var. *junodii*

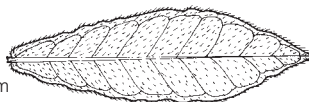
***Tricalysia junodii* (Schinz) Brenan var. *kirkii* (Hook.f.) Robbr.** N, SE

smooth-bark bastard coffee bush

Voucher: Kasane, Venter, Archer & Hahn 381 (PRE)



● *Tricalysia junodii* var. *kirkii*



actual size: 80 mm

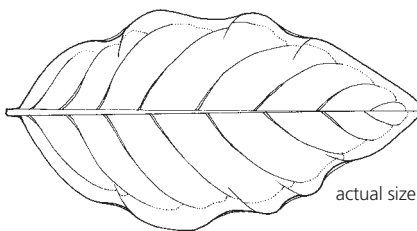
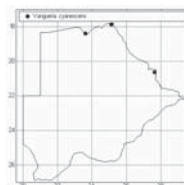
***Vangueria* Comm. ex Juss.**

**Wild medlars**

***Vangueria cyanescens***

Robyns N

Voucher: Ngamiland, 1930–31, Curson 739 (PRE)



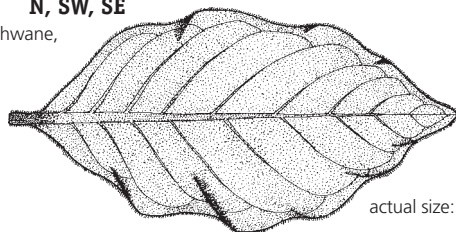
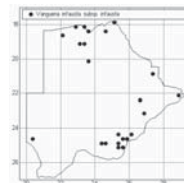
actual size: 110 mm

***Vangueria infausta* Burch. subsp. *infausta***

N, SW, SE

mmilo, monyonyana, mothwane, nzwigwa; wild medlar

Voucher: Tuli Block, Nitani Game Reserve, Baytopp 223 (UNIN)



actual size: 107 mm

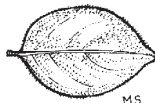
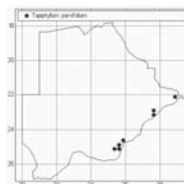
***Vangueria parvifolia* Sond.**

SE

(*Tapiphyllum parvifolium* (Sond.) Robyns)

mmilorotsane, mmilorotswane, monyonyana; mountain medlar, small velvet leaf

Voucher: Foot of Otse Mountain, Hansen 3501 (GAB)



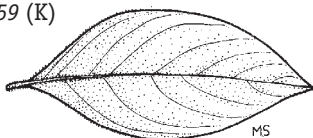
actual size: 30 mm

***Vangueria proscii* Briq.**

N

(*Vangueria lasiocladus* K.Schum.)

Voucher: Khwebe (Kwebe) Hills, fl. 18.xii.1897, Mrs E.J. Lugard 59 (K)

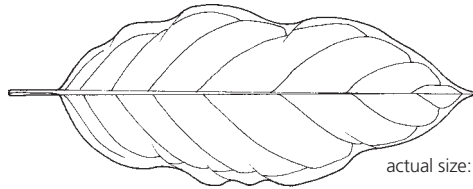


actual size: 63 mm

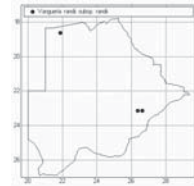
***Vangueria randii* S.Moore subsp. *randii*** N, SE

ant-heap wild medlar

Voucher: Tsodilo Hills, Long &amp; Rae 639 (GAB)



actual size: 125 mm

***Vangueriopsis Robyns***

False wild medlar trees

***Vangueriopsis lanciflora* (Hiern) Robyns ex****Good**

false wild medlar

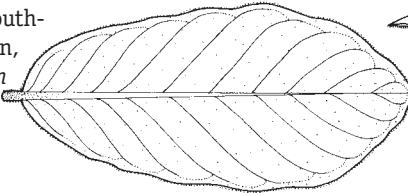
Voucher: South-

west of Maun,

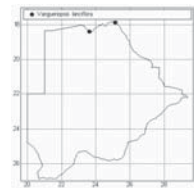
*Robertson*

748 (GAB)

N



actual size: 110 mm

**RUTACEAE**  
Citrus family***Citropsis* (Engl.) Swingle & M.Kellerm.**

Wild citrus bushes

***Citropsis dawweana* Swingle & M.Kellerm.**

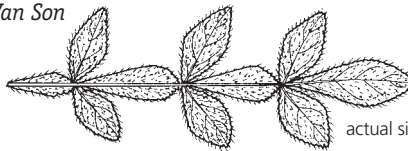
N

wild citrus

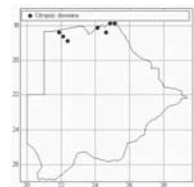
Voucher: Kabulabula, Van Son

*s.n. sub TM 28984*

(PRE)



actual size: 118 mm

***Teclea Delile******Teclea rogersii* Mendonça**

SE

Voucher: Moeng College, on a steep rocky slope,

*Woollard 419* (UCBG)

M.S actual size: 30 mm



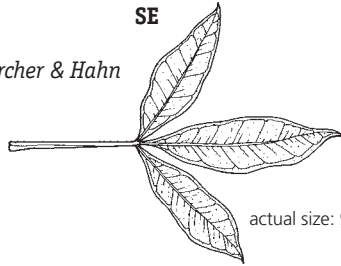
***Vepris* Comm. ex A.Juss.**

**White ironwood trees**

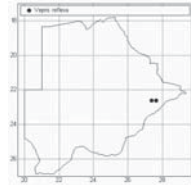
***Vepris reflexa* I.Verd.**

bastard white ironwood, woodland vepris

Voucher: Tswapong Hills, *Venter, Archer & Hahn*  
s.n. (PRE)



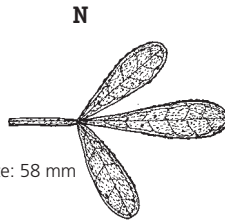
actual size: 90 mm



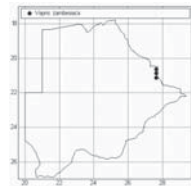
***Vepris zambesiaca* S.Moore**

rare woodland vepris

Voucher: Tati, *Miller B/1147* (PRE)



actual size: 58 mm



**SALICACEAE**  
Willow family

***Salix* L.**

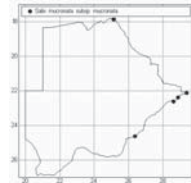
**Willow trees**

***Salix mucronata* Thunb. subsp. *mucronata* N, SE**

Cape willow, river willow, safsaf willow, wild willow

Voucher: Kasane Rapids, *Robertson & Elffers 51* (PRE)

actual size: 93 mm



**SALVADORACEAE**  
Mustard family

***Salvadora* Garcin ex L.**

**Mustard trees**

***Salvadora australis* Schweick.**

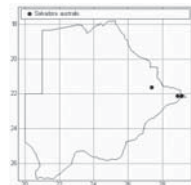
mustard tree

Voucher: Tuli Block, Nitani Game Reserve, *Baytopp*  
*138* (UNIN)

**N, SE**



actual size: 60 mm



***Salvadora persica* L. var. *persica***

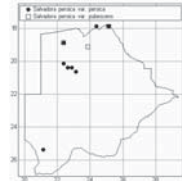
mustard tree, toothbrush

Voucher: Near Sehithwa Store, *Erens 236* (K)

N



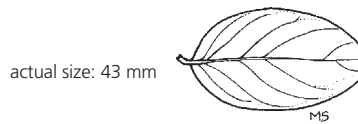
actual size: 62 mm

● *Salvadora persica* var. *persica****Salvadora persica* L. var. *pubescens* Brenan**

velvet mustard tree

Voucher: Khwai River, *Smith 163* (K)

N



actual size: 43 mm

MS

□ *Salvadora persica* var. *pubescens*

## SANTALACEAE

Sandalwood family

***Osyris* L.**

Sumach bushes

***Osyris lanceolata* Hochst. & Steud.**

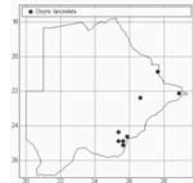
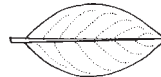
N, SE

kwaipi, manope, morogabaloi, seswagadi, setlhare-sa-baloi;

Transvaal sumach

Voucher: 10 km west of Lobatse, *Hansen 3210* (GAB)

actual size: 42 mm



## SAPINDACEAE

Litchi family

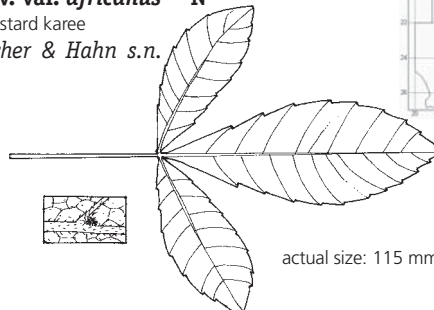
***Allophylus* L.**

Bastard karee trees

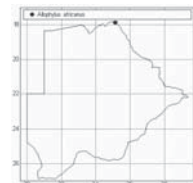
***Allophylus africanus* P.Beauv. var. *africanus***

N

modo; African allophylus, African bastard karee

Voucher: Kasane, *Venter, Archer & Hahn s.n.* (PRE)

actual size: 115 mm



***Erythrophysa* E.Mey. ex Arn.**

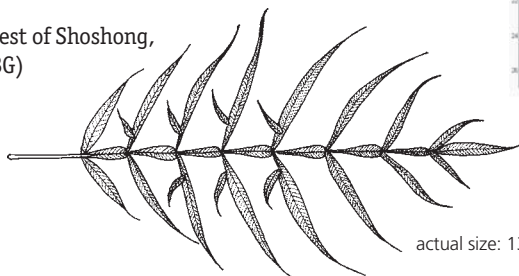
Red balloon bushes

® *Erythrophysa transvaalensis* I.Verd. SE

Transvaal red balloon

Voucher: 2 miles west of Shoshong,

Woollard 831 (UCBG)



actual size: 136 mm



***Pappea* Eckl. & Zeyh.**

Jacket plum trees

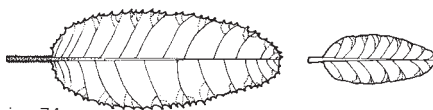
*Pappea capensis* Eckl. & Zeyh. N, SE

molalagaka, mopanyobojalwa, mopenoene, mopenwaeng, mothata, ntorido; indaba tree, jacket plum, wild cherry

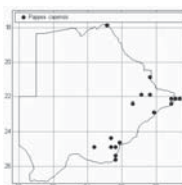
Voucher: Tsessebe,

Leach & Noel 8

(SRGH)



actual size: 74 mm



**SAPOTACEAE**  
Milkwood family

***Englerophytum* K.Krause**

Milkplum trees

*Englerophytum magalimontanum* (Sond.)

T.D.Penn. SE

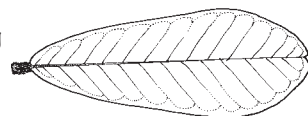
mothatswa; red milkwood, stemfruit, Transvaal milkplum, wild plum

Voucher: Mannyelanong

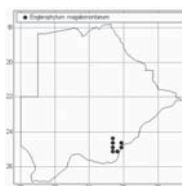
Hill, 32 km southwest of

Gaborone, Mott 385

(SRGH)



actual size: 80 mm



***Manilkara* Adans.**

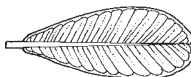
Milkberry trees

*Manilkara mochisia* (Baker) Dubard N

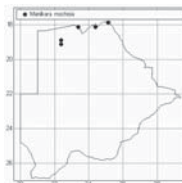
lowveld milkberry

Voucher: 17 km southwest of Hyena Camp, Pope,

Biegel & Gibbs Russell 878 (SRGH)



actual size: 50 mm



**Mimusops L.**

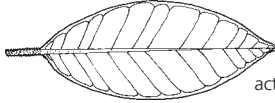
Red milkwood trees

**Mimusops zeyheri Sond.**

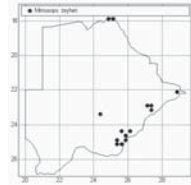
N, SE

mmopudu, mmupudu, mobu, mosamtuza, mupudu; common red milkwood, Transvaal red milkwood

Voucher: Otse Mountain, 20 miles southeast of Gaborone, *Woollard 3* (SRGH)



actual size: 73 mm



**SCROPHULARIACEAE**

Snapdragon family

**Halleria L.**

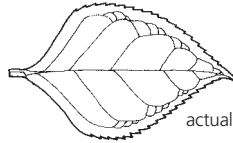
Tree fuchsia bushes

**Halleria lucida L.**

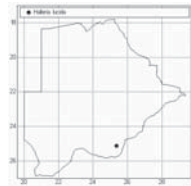
SE

tree fuchsia, white olive, wild fuchsia tree

Voucher: Pharing Gorge, Kanye, *Miller B/275* (PRE)



actual size: 63 mm



**STERCULIACEAE**

Cacao family

**Dombeya Cav.**

Wild pear trees

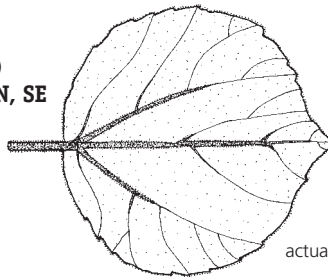
**Dombeya rotundifolia (Hochst.)**

**Planch. var. rotundifolia**

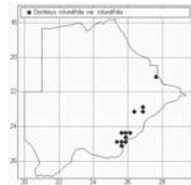
N, SE

molobare, mophuphuntswane, morekapele, motubane; wild pear

Voucher: Mochudi, *Harbor s.n.* (SRGH)



actual size: 86 mm



**Sterculia L.**

Star-chestnut trees

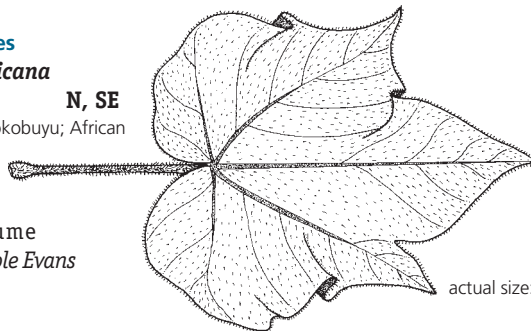
**Sterculia africana**

**(Lour.) Fiori**

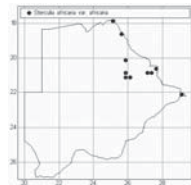
N, SE

mokakata, mokokobuyu; African star-chestnut, tick tree

Voucher: Between Tutume and Sebina, *Pole Evans 2607* (SRGH)



actual size: 140 mm



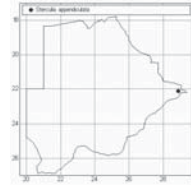
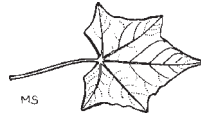
***Sterculia appendiculata* K.Schum.**

mokakata

Voucher: Tsetsebjwe lands, *Kalake 94* (UCBG)

SE

actual size: 30 mm



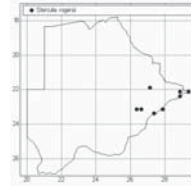
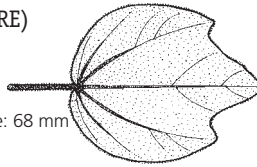
***Sterculia rogersii* N.E.Br.**

mokakata; common star-chestnut squat sterculia

Voucher: Topisi Siding, *Miller B/803* (PRE)

SE

actual size: 68 mm



**STRYCHNACEAE**  
Monkey Orange family

***Strychnos* L.**

Monkey orange trees

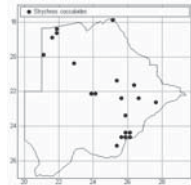
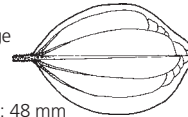
***Strychnos cocculoides* Baker**

mogorogoro, mogorogorwana, mogorogorwane, mohoruhuru, moruda, nhume; corky-bark monkey orange

Voucher: Ngamiland, *Curson 3311* (PRE)

N, SE

actual size: 48 mm



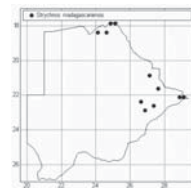
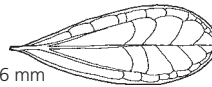
***Strychnos madagascariensis* Poir.**

mogwagwa, nkwakwa; black monkey orange, spineless monkey orange

Voucher: Chobe River, *Van Son s.n.* (PRE)

N, SE

actual size: 56 mm



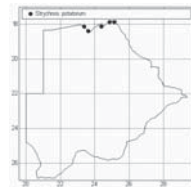
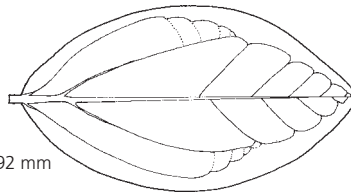
***Strychnos potatorum* L.f.**

morumbarunde; grape strychnos

Voucher: Serondela, *Robertson & Elffers 58* (SRGH)

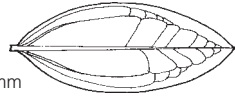
N

actual size: 92 mm

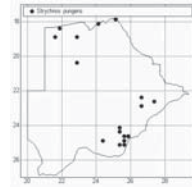


***Strychnos pungens* Soler.****N, SE**

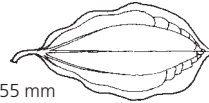
mogwagwa, motu, mutu, ntamba, witu; spine-leaved monkey orange

Voucher: Ngamiland, *Miller B/420* (PRE)

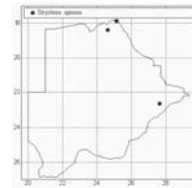
actual size: 62 mm

***Strychnos spinosa* Lam.****N, SE**

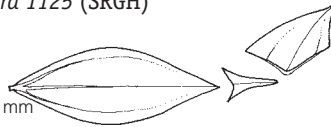
maume, mogorogoro, mogororo, moyimbili; elephant orange, green monkey orange, monkey ball, spiny monkey orange

Voucher: Southwest of Leshoma, *Hargreaves 6530* (GAB)

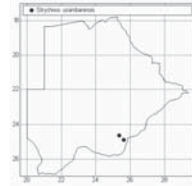
actual size: 55 mm

***Strychnos usambarensis* Gilg****SE**

motla-o-budule; stripe-fruited strychnos

Voucher: Near Gaborone, *Woollard 1125* (SRGH)

actual size: 56 mm

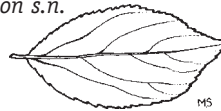


## TILIACEAE

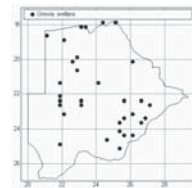
### Jute family

***Grewia* L.****Raisin bushes*****Grewia avellana* Hiern****N, SW, SE**

marago-a-bahumagadi, marago-a-barwa, mondu

Voucher: Xade Pan, Ghanzi District, *Thompson s.n.* (UCBG)

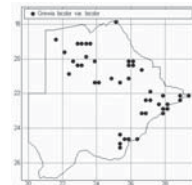
actual size: 53 mm

***Grewia bicolor* Juss.****N, SW, SE**

kukuruthwe, mambalane, mogwana, monabo, motuu, ntewa; bastard brandybush, false brandybush

Voucher: Gaborone, *Codd 8903* (SRGH)

actual size: 40 mm



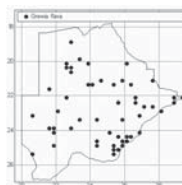
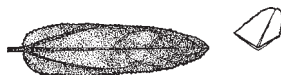
***Grewia flava* DC.**

**N, SW, SE**

maphokwe, monabo, moreswe, moretlwa, moseme, ntewa, phomphokwe; brandybush, raisin tree, velvet raisin, wild currant, wild plum

Voucher: Francistown, *Rogers 607* (SRGH)

actual size: 54 mm

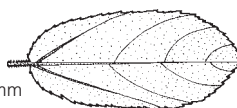


***Grewia flavescens* Juss. var. *flavescens* N, SW, SE**

mokankele, motsotsojana, motsotsojane, mpuzu; donkey berry, rough-leaved raisin bush, sandpaper raisin

Voucher: 98 km from Ghanzi to Maun, *Story 5053* (PRE)

actual size: 63 mm



● *Grewia flavescens* var. *flavescens*

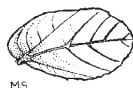
***Grewia hexamita* Burret**

**SE**

mpuzu; giant raisin

Voucher: Tuli Block, Nitani Game Reserve, *Baytopp 389* (UNIN)

actual size: 30 mm



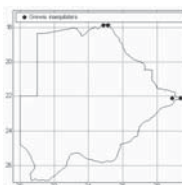
***Grewia inaequilatera* Garcke**

**N, SE**

bastard silver raisin bush, large-leaved yellow grewia

Voucher: Kabulabula, Chobe River, *Van Son s.n.* (PRE)

actual size: 55 mm



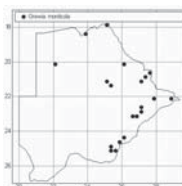
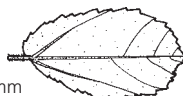
***Grewia monticola* Sond.**

**N, SE**

kukuruthwe, moretlwa, mogwanagomo, motuu; donkey berry, grey grewia, silver raisin bush

Voucher: Mahalapye, *Rogers 6096* (PRE)

actual size: 47 mm

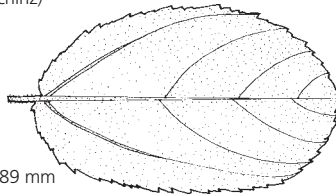


***Grewia olukondae* Schinz**

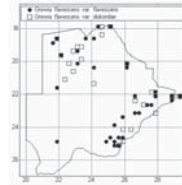
(*Grewia flavescens* Juss. var. *olukondae* (Schinz) Wild)

mokankele, motsotsojana, motsotsojane, mpuzu; river rough-leaved raisin bush

Voucher: Serondela, Miller B/1270 (SRGH)

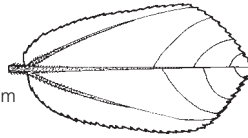
**N, SW, SE**

actual size: 89 mm

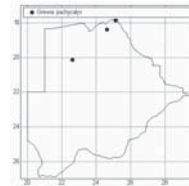
□ *Grewia olukondae****Grewia pachycalyx* K.Schum.**

mogwana; large-flowered white cross-berry

Voucher: Ngamiland, Curson 93 (PRE)

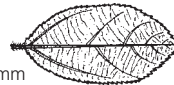
**N**

actual size: 65 mm

***Grewia retinervis* Burret**

mokankele, mokgomphata, mopundu, mpuzu; arib, false sandpaper raisin, Kalahari sand raisin bush, rough-leaved raisin bush

Voucher: Artesia, Pole Evans 3168 (SRGH)

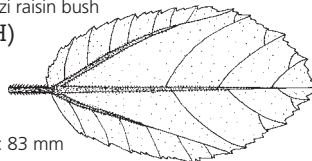
**N, SW, SE**

actual size: 46 mm

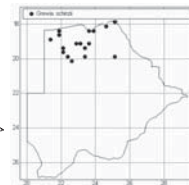
***Grewia schinzii* K.Schum.**

mokgompatha, mutu; shaggy grewia, Zambezi raisin bush

Voucher: Gumare, Miller B/433 (SRGH)

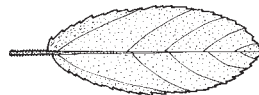
**N**

actual size: 83 mm

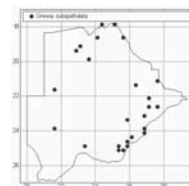
***Grewia subspathulata* N.E.Br.**

mambalane, maphokwe, moitsepelo, phomphokwe; hybrid grewia, hybrid raisin bush

Voucher: Kanye, Miller B/715 (PRE)

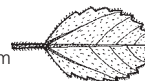
**N, SE, SW**

actual size: 69 mm

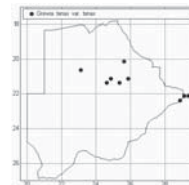
***Grewia tenax* (Forssk.) Fiori**

small-leaved white cross-berry

Voucher: Tuli Block, Nitani Game Reserve, Baytopp 101 (UNIN)

**N, SE**

actual size: 38 mm

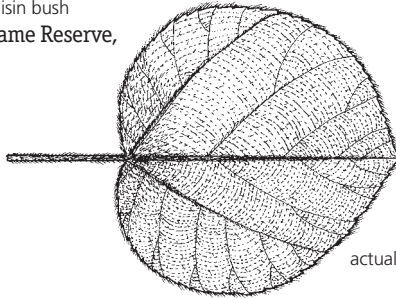


***Grewia villosa* Willd.**

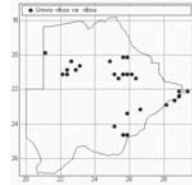
**N, SW, SE**

mpopotshe, mpupunye, sempuputshe; mallow-  
leaved cross-berry, round-leaved raisin bush

Voucher: Tuli Block, Nitani Game Reserve,  
*Baytopp 224* (UNIN)



actual size: 105 mm



**ULMACEAE**

Elm family

***Celtis* L.**

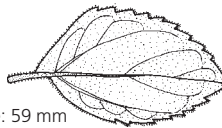
**White stinkwood trees**

***Celtis africana* Burm.f.**

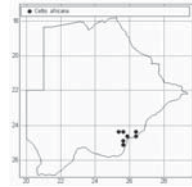
modutu; African elm, cannibal  
stinkwood, white stinkwood

Voucher: Notwane River, Gaborone,  
*Yalala 152* (GAB)

**SE**



actual size: 59 mm



***Chaetacme* Planch.**

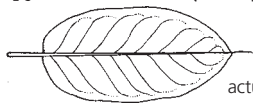
**Thorny elms**

***Chaetacme aristata* Planch.**

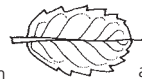
thorny elm

Voucher: Old Palapye, *Woollard 818* (SRGH)

**SE**



actual size: 66 mm



actual size: 30 mm



**URTICACEAE**

Nettle family

***Obetia* Gaudich.**

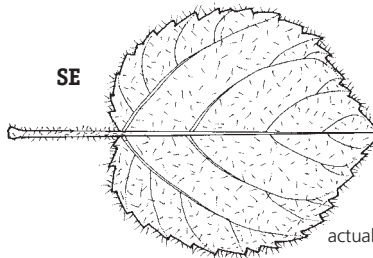
**Nettle trees**

***Obetia tenax* (N.E.Br.) Friis**

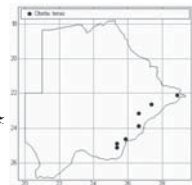
mmabi; nettle, tree nettle, urera  
plant

Voucher: Gaborone, *Hansen*  
*3444* (GAB)

**SE**



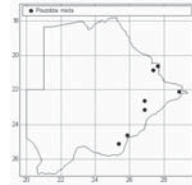
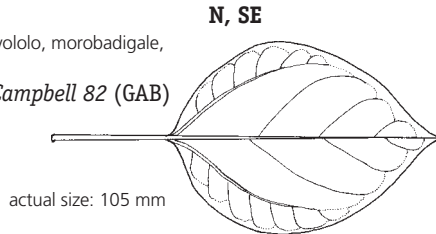
actual size: 100 mm



***Pouzolzia* Gaudich.****Soap nettle bushes*****Pouzolzia mixta* Solms**

mangolole, mongololo, monyololo, morobadigale,  
ngwenyane; soap nettle

Voucher: Tsodilo Hills, *Campbell 82* (GAB)

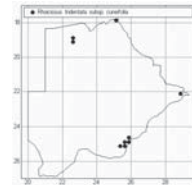
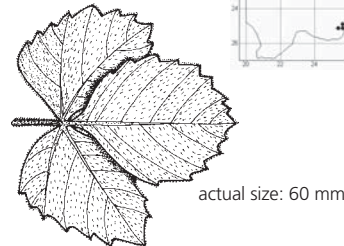


**VITACEAE**  
Grape-vine family

***Rhoicissus* Planch.****Wild grape bushes*****Rhoicissus tridentata* (L.f.) Wild & R.B.Drumm.****subsp. *cuneifolia* (Eckl. & Zeyh.) Urton** N, SE

lejaja, merokoputla-ya-bo-noko, mojaja, moreko-wa-  
thwagadima, moremelo, thagaraga; bitter grape,  
bushman's grape, common forest grape, wild grape

Voucher: Kanye, *Hillary & Robertson 495* (PRE)



## Species possibly occurring in Botswana

Some taxa are mentioned in various literature sources as occurring in Botswana, but we have been unable to locate any specimens in UCBG, SRGH, PRE, WIND, or K. As we therefore have no voucher specimens proving that these taxa have actually been collected in Botswana, we list them separately here. They should be considered as *possibly* occurring in Botswana, and if found, we would appreciate duplicate specimens to be sent to UCBG.

### ANACARDIACEAE

*Ozoroa engleri* R. & A.Fern.  
*Rhus gueinzii* Sond.  
*Rhus undulata* Jacq.

### ANNONACEAE

*Xylopia tomentosa* Exell

### BORAGINACEAE

*Cordia caffra* Sond.

### BUDDLEJACEAE

*Buddleja saligna* Willd.

### CAPPARACEAE

*Maerua caffra* (DC.) Pax subsp. *caffra*

### CELASTRACEAE

*Hippocratea parvifolia* Oliv.

### COMBRETACEAE

*Combretum psidioides* Welw. subsp. *glabrum*  
 Exell

### EBENACEAE

*Euclea crispa* (Thunb.) Guerke subsp. *crispa*  
*Euclea schimperi* (A.DC.) Dandy var.  
*schimperi*

### EUPHORBIACEAE

*Bridelia tenuifolia* Müll.Arg.  
*Croton steenkampianus* Gerstner  
*Euphorbia espinosa* Pax  
*Maprounea africana* Müll.Arg.

### FABACEAE: MIMOSOIDEAE

® *Acacia hebeclada* DC. subsp. *tristis*  
 A.Schreib.  
*Acacia reficiens* Wawra subsp. *reficiens*  
*Acacia swazica* Burt Davy  
*Albizia antunesiana* Harms

### FABACEAE: CAESALPINIOIDEAE

*Adenolobus garipensis* (E.Mey.) Torre & Hillc.  
*Bauhinia petersiana* Bolle subsp. *petersiana*  
*Schotia capitata* Bolle

### FABACEAE: PAPILIONOIDEAE

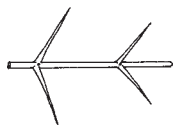
*Sesbania coeruleascens* Harms

### HERNANDIACEAE

*Gyrocarpus americanus* Jacq.

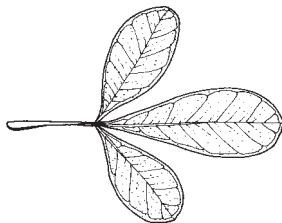
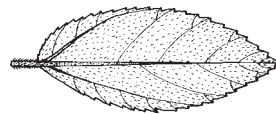
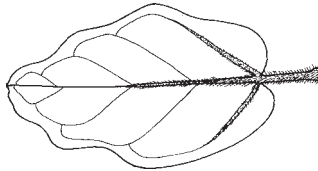
### HETEROPYXIDACEAE

*Heteropyxis natalensis* Harv.



**LAMIACEAE***Vitex payos* (Lour.) Merr.*Vitex pooara* Corbishley**MORACEAE***Ficus glumosa* (Miq.) Delile*Ficus natalensis* Hochst. subsp. *natalensis***MYRTACEAE***Syzygium gerrardii* (Harv. ex Hook.f.) Burt  
Davy**OLACACEAE***Ximenia caffra* Sond. var. *natalensis* Sond.**PITTOSPORACEAE***Pittosporum viridiflorum* Sims**PROTEACEAE***Protea caffra* Meisn. subsp. *caffra***RUBIACEAE***Canthium mundianum* Cham. & Schltld.*Coddia rudis* (E.Mey. ex Harv.)

Verdc.

*Pyrostria hystrix* (Bremek.) Bridson*Tricalysia lanceolata* (Sond.) Burt Davy*Vangueria esculenta* S.Moore**RUTACEAE***Toddaliopsis bremekampii* I.Verd.*Vepris termitaria* Mendonça**TILIACEAE***Grewia micrantha* Bojer

## Red Data Listed and protected tree species

Botswana's Forest Act (Forest Chapter 38:04, 1968) specifies the following timber species as protected on State Lands:

***Adansonia digitata***

dovuyu, ibozu, mbyu, moana, mobuyu, mowana; Africa's upside-down tree, baobab

***Azelia quanzensis***

ikonkamukota, kamba, mwande; pod mahogany

***Baikiaea plurijuga***

mokusi, ukuthi; Rhodesian teak, Zambezi redwood

***Berchemia discolor***

inzi, motsintsila, mozinzila, mutsintsila; bird plum

***Brachystegia boehmii***

mowombo, mufuti; Prince of Wales' feather tree

***Diospyros mespiliformis***

isuma, mbiriri, mochenje, mokhutsomu, mokochong, mokutshumo, muchenje, utunda; African ebony, ebony, ebony diospyros, jackalberry, medlar, monkey guava, Mozambique ebony, persimmon, Rhodesian ebony, Transvaal ebony

***Entandrophragma caudatum***

mopumena, morwa; brown mahogany, mountain mahogany, wooden-banana

***Guibourtia coleosperma***

motsaodi, motsaudi, nsibi, shii, tsaudi, ushi; bastard mopane, bastard teak, large false mopane, Rhodesian copalwood, Rhodesian mahogany, Rhodesian teak

***Pterocarpus angolensis***

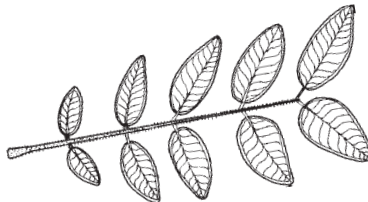
ilombe, malombe, moninga, moowa, morotomadi, mukwa, senyamadi, thotamadi; African teak, bloodwood, kiaat

***Spirostachys africana***

morekhure, morukuru; African mahogany tree, African sandalwood, jumping bean tree, tamboti

The Forest Act, however, makes provision for the use of some of these species for certain specified purposes by inhabitants of towns or villages adjacent to state lands.

Setshogo & Hargreaves (2002) list three tree species in the Botswana Red Data List (RDL). These are *Acacia hebeclada* subsp. *chobiensis*, *A. hebeclada* subsp. *tristis* and *Erythrophysa transvaalensis*. The two *Acacia hebeclada* subspecies are listed because of their limited distribution and also because they occupy fragile habitats. *A. hebeclada* subsp. *chobiensis* occurs in the Okavango Delta and is sensitive to unnatural water level fluctuations. *A. hebeclada* subsp. *tristis* is said to occur in the north-west of the country along fossil river valleys. Unfortunately, no specimen of the tree species exists in any of the herbaria consulted. *Erythrophysa transvaalensis* is very rare and has only been recorded from the rocky wooded hills of the Shoshong area. The species in the RDL are indicated by an ® in the list.



## Glossary

**apex** The tip of a plant organ, e.g. a leaf (plural: apices).

**aril** A fleshy outer covering or appendage that encloses the whole or part of the seed, and usually develops from its stalk; often brightly coloured.

**axil** The upper angle between the leaf and the stem on which it is carried.

**base** The bottom part of the leaf where it joins the petiole.

**bifoliolate** Referring to a compound leaf with only two leaflets.

**bipinnate** Of a compound leaf: pinnately divided, with the pinnae themselves also pinnately divided. (= twice pinnate)

**calyx** Collective term for all the sepals of a flower; the outer whorl of most flowers; usually green.

**capsule** A dry fruit, usually opening by slits or pores.

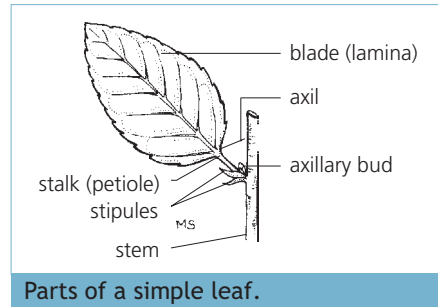
**compound leaf** A leaf consisting of two or more separate leaflets. Compare **simple leaf**.

**coppice, coppicing** Vegetative shoots at the base of the stem; sprouts arising from a stump.

**crenate** Of a toothed leaf margin: with shallow, rounded teeth.

**deciduous** Shedding leaves at the end of the growing season. Compare **evergreen**.

**decoction** Liquid potion prepared from the extraction of the water-soluble substances of



Parts of a simple leaf.

a medicinal plant by boiling in water. Compare **infusion**.

**dehiscent** Bursting open when ripe

**dentate** Of a toothed leaf margin: with coarse sharp teeth perpendicular to the margin.

**dioecious** Unisexual; bearing male and female flowers on different individuals of the same species.

**carpel** The female part of the flower.

**monoecious** Bearing separate male and female flowers on the same plant.

**bisexual** Having flowers that contain at least one functional stamen and one functional carpel. Compare **dioecious**, **monoecious**.

**entire** Smooth; with an even and continuous margin; lacking teeth, lobes, or indentations.

**evergreen** Retaining leaves throughout the year, even during winter. Compare **deciduous**.

**extract** A substance extracted from another substance, e.g. by treating with solvents which are then evaporated; a preparation contain-

ing the active principle of a substance in concentrated form.

**fascicle** A cluster of short stalks, roots, leaves, etc.

**fissured** Having openings, usually long and narrow, made by cracking, splitting, or separation of parts; **longitudinally fissured** Having fissures running lengthwise.

**imparipinnate** A pinnately compound leaf with an odd number of leaflets, and with a single terminal leaflet.

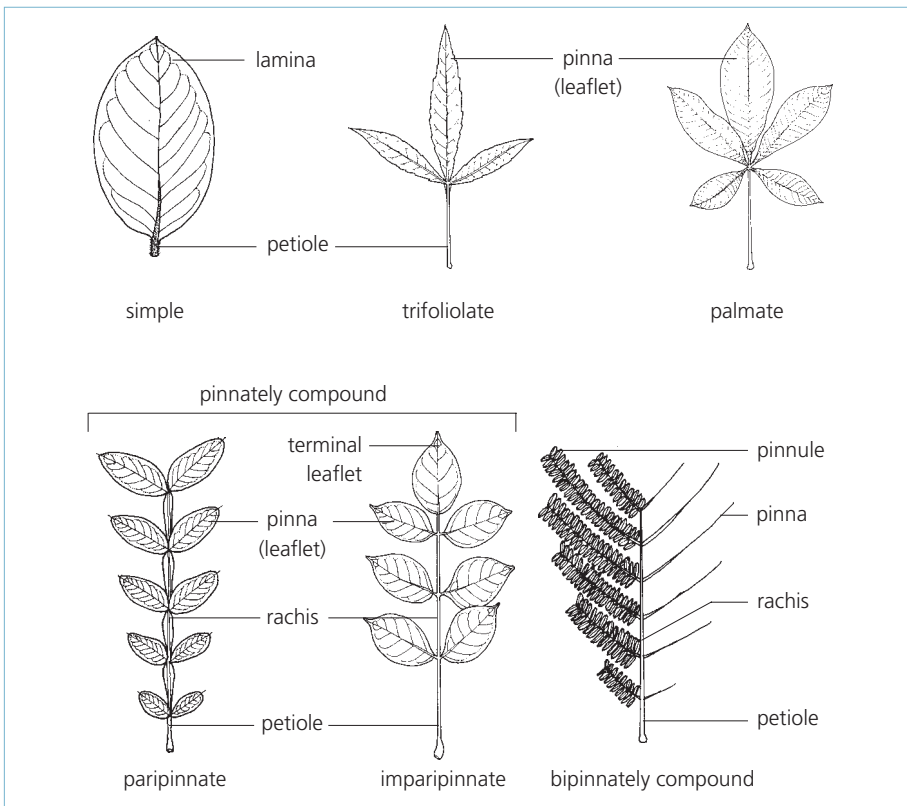
**indehiscent** Remaining closed; not opening when ripe or mature. Compare **dehiscent**.

**inflorescence** Any arrangement of more than one flower; the flowering portion of a plant.

**infusion** An extract obtained by steeping a substance in hot water.

**leaflet** The ultimate individual division of a compound leaf, which is usually leaf-like. It has a stalk of its own, but lacks an axillary bud in the axil with the rachis. (A pinna is the primary division of a pinnate leaf; a pinnule is the secondary or tertiary division of a pinnate leaf.)

**lobe** A part or a segment of an organ (e.g. leaf, petal) deeply divided from the rest of the organ but not separated; segments are usually rounded.



Simple and compound leaves.

**longitudinally** Lengthwise.

**margin** Edge of a leaf; can be smooth, toothed, or scalloped.

**mesocarp** The middle layer of the fruit wall (pericarp), between the exocarp and endocarp.

**exocarp** The outermost layer of the fruit wall (pericarp).

**endocarp** The innermost layer of the fruit wall (pericarp).

**mucilage** A polysaccharide substance extractable as a viscous or gelatinous solution in water from roots, seeds, and other parts of certain plants, and used in medicines and adhesives.

**node** A point of a stem from which one or more leaves arise.

**oblong** An elongated but relatively wide shape, two to four times longer than broad with nearly parallel sides.

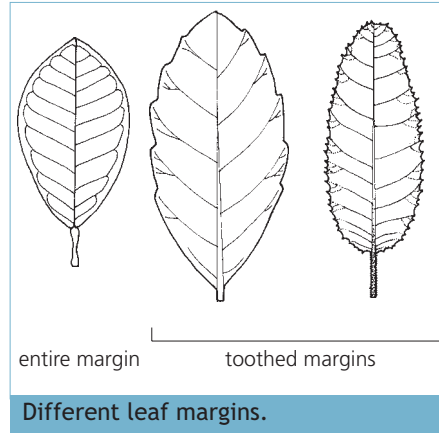
**opposite** Applied to two organs, e.g. leaves, growing at the same level on opposite sides of the stem.

**ovary** The hollow basal portion of the female flower parts; develops into the fruit if pollination and fertilisation take place.

**ovate** Egg-shaped in outline and attached at the broad end (used to describe flat surfaces, e.g. leaves). Compare **ovoid**.

**ovoid** Egg-shaped (used to describe three-dimensional structures, e.g. fruit). Compare **ovate**.

**palmate** With three or more leaflets arising from a single point and radiating outwards like the fingers of an open hand.



**paripinnate** A pinnately compound leaf with an even number of leaflets, and terminated by a pair of leaflets.

**perennial** Living for three or more years.

**pericarp** The wall of a ripened ovary or fruit.

**petiole** The leaf stalk.

**pinna** (plural: pinnae) 1. The primary division of a pinnately compound leaf. 2. The first series of branches within a bipinnate leaf which bears the pinnules.

**pinnate, pinnately compound** Applied to a compound leaf whose leaflets are arranged in two rows along an extension (the rachis) of the leaf stalk. Compare **imparipinnate**, **paripinnate**, **bipinnate**.

**pinnule** The secondary (or tertiary) division of a bipinnately (or tripinnately) compound leaf.

**rachis (rhachis)** The central axis of a compound leaf.

**recurved** Backward-curving.

**rounded** Having a circular, spherical, or curving form.

**samara** A dry indehiscent fruit in which the pericarp is extended to form one or more wings.

**sepals** The outermost set of modified leaves constituting a flower; usually green, leaf-like, in the bud stage enclosing and protecting the other flower parts, and collectively known as the calyx.

**serrate** Of a toothed leaf margin: with sharp, forward-pointing teeth.

**simple leaf** Leaf with only a single blade. Compare **compound leaf**.

**spine** A hard, straight and sharply pointed structure, often long and narrow. Usually a modified leaf or stipule. Compare **thorn**.

**stellate** Star-shaped; arranged or grouped in the form of a star or stars; (having parts) radiating from a centre like the rays of a star.

**stipule** Small scale- or leaf-like appendage at the base of the leaf stalk in some plants; generally found in pairs on each side of the leaf

stalk at the junction of the leaf stalk and stem. Stipules often fall off early in life, leaving scars on the stem. They are best seen on young, actively growing shoots.

**thorn** 1. A curved spine. 2. A sharply pointed branch. Compare **spine**.

**toothed** Used in a generalised sense to refer to leaf margins with pointed processes, including dentate, serrate, and crenate. Compare **entire**.

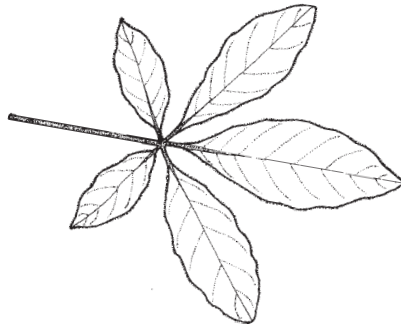
**trifoliolate** Referring to a compound leaf with three leaflets.

**undulate** With a wavy margin.

**united** Joined together (= not free).

**whorl** 1. The arrangement of three or more leaves or flowers at the same node of the axis, forming an encircling ring. 2. More than two of any other organs (e.g. petals, stamens) arising at the same level.

Based on definitions given in Van Wyk & Van Wyk (1997), Raven *et al.* (1992), and the Oxford Talking Dictionary (©1998 The Learning Company, Inc.).



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