A Guide to the MEDICINAL PLANTS

TRINIDAD & TOBAGO

Commonwealth Secretariat



Medicinal Plants
of Trinidad
& Tobago

by C.E.SEAFORTH, C.D.ADAMS and Y.SYLVESTER

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- PEVISION NOTES for the 'Guide to the Medicinal Plants of Trinidad and Tobago' by C.E. Seaforth, C. D. Adams and Y. Sylvester, Commonwealth Secretariat, 1983.
- Footnote, add: "Kinamone, P.A. et al.1980.

 Clinical Toxicology, 17(3), 401 405-Abrin is perhaps the most toxic plant constituent known."
- On page 10 Delete "(Chang, 1971)" from the penultimate line.

 As Footnotes, add:
 - "1. Ando, Y.et al. 1976. Chem. Abstr., 85, 166487 use of Polysaccharides in cosmetics.
 - "2. Matsui, H. and T. Matsukura. 1976. Chem. Abstr., 84, 95614 use of Aloe in cough drops.
 - "3. Fujita, K. et al. 1976. Chem. Abstr., 85, 2506 Bradykininase activity in Aloe extracts."
- On page 14 as Footnote, add: "MacLeod, A.J. and N.M. Pieris, 1981. J.Agric. Food Chem., 29, 488-490 volatile fruit flavours."
- as Footnote, add: "Sharma, V.et al. 1982. J.C.S.

 (Perkin) (5), 1153-1155 The Aristolochiaceae family contains the tumour inhibitor, aristolochic acid. (See also T. Nakanishi et al. 1982.

 Phytochemistry, 21, 1759-1762."
- on page 38 as Footnote, add:
 "1. Teranishi, R. 1980. J.Agric. Food Chem., 28(1), 156-157 volatiles from Capsicum oleoresin.
 "2. Jones, P.G. and Fenwick, G.R. 1981. J. Sci.
 Food Agric., 32, 419-421. on Capsicum
 glycoalkaloids."
- On page 40 as Footnote add: "Emerua, E. 1982. J. <u>Matural Prods., 45</u>, 123-127. antibacterial fruit extractives."
- on page 66 as Footnote, add: "Agarwal, T. et al. 1980. Bull, Medico, Ethnobot Res., 1 (3), 401-407 essential oils shown is antimicrobial."
- On page 84 as Footnote, add: "Ndir, O and J.C. Pousset, 1981.

 Plantes medicinales et phytotherapie, XV, 113-125 amoebicidal constituent in E. hirta".
- On page 98 as Footnote, add: "Misra, T.N. et al.1981. J.Natl. Prods., 44, 735. on Hyptis essential oils."
- On page 124 as Footnote, add: "Cooke, R.D. 1978. J.Sci. Food Agric., 29, 345-352. The enzymatic assay of total cyanides."
- On page 132 as Footnote add: "Khanna, P. et al. 1981. J. Natl. Prods. 44, 648 a polypeptide constituent is hypoglycaemic."
- On page 142 as Footnote, add: "Fleisher, A. 1981. J. Sci. Food Agric., 32, 1119-1122 - essential oils analyzed from O. basilicum plants cultivated in Israel."
- On page 172 as Footnote, add: "Macleod, A.T. and N. de Troconis, 1982. Phytochem., 21 (6), 1339-1362. on fresh fruit volatiles."

on page 188 - in the last sentence, replace the word, "Gamma-aminobutyric acid" by the word, "Dopamine".

on page 196 - as Footnote, add: "Srinivasan, K.K. and S.S. Subramanian. 1981. Argoya, 7 (2), 140-141: mangiferin isolated from U. lobata and described as anti-inflammatory (and therefore therapeutic

On page 202 - delete: "Chang , C. Tetrahedron, 1971, 29, 1911

C.E.S. Jan. 198

INTRODUCTION

This handbook describes and illustrates a number of plants still used for medicinal purposes in Trinidad and Tobago. It has been prepared so as to meet the growing needs of persons interested in learning the facts about local bush medicines. Unlike other publications on this subject (de Verteuil, 1889; Simpson, 1962; Wong, 1976; Morton, 1981), it is not simply a compilation of so-called medicinal plants nor is it anthropological. There is no conflict here with orthodox medical practice. And, as self-medication with wild plants is highly risky, this is not intended as a recommendation for the reader to go out and treat himself with herbal concoctions.

In her contribution extolling the virtues of Caribbean wild plants as medicinal agents, Honychurch (1980) stated that the "same plants might be used quite differently in Trinidad, Barbados or Dominica." The species that are regarded as therapeutic in Trinidad and Tobago need to be described clearly as being either curative, ineffective or poisonous. This book is concerned with such issues. It is the result of field studies in which a botanist, a pharmacist and a chemist interacted directly with the folk who are expert in the preparation and administration of the various herbal remedies.

Interviews were carried out in some twenty localities across the two islands. Good plant specimens were collected by local name, together with the precise rules and procedures for their administration as cures for specific illnesses. The plants were identified by botanical names and illustrated by line-drawings. Most of them have been screened by chemical methods (Farnsworth, 1966, Nahrstedt, 1980) for important classes of biologically-active plant substances, namely, the alkaloids, cyanides, the tannins and the saponins. Only positive tests are indicated in the texts.

Over one hundred plants have been presented here and arranged in alphabetical order by genus. For each species, a description of its use in medicinal preparations and also its pertinent biodynamic data, listing its known chemical constituents with marked biological and pharmacological activity, has been given. Wherever applicable an entry has been made for comparison with Wong's published findings about the use of the plant. But where there has been no specific pharmaco-chemical information, we have not presumed that the bioactive constituents found in another species of the same genus (or family) are also present in the plant under discussion. Wherever the combination of a number of plants is used this recipe has been described only under a single, presumably the major, species concerned.

This study has revealed that different plants have been confused with each other through similarities in their appearance or in the application of common names. These plants have been mistakenly collected and used in the place of other species, sometimes poisonous ones, by the less experienced bush medicine practitioners. (Herein lies a grave risk in the taking of unknown plant principles).

Some examples of common names as the source of confusion in plant identification are:

MINT:

Wild mint is Hyptis atrorubens and this name may be used for other species of Hyptis; Cocoa Mint is Peperomia rotundifolia. True mints are species of Mentha, some kinds of which, especially a variety of Spearmint, are grown in the local gardens.

MAN BETTER MAN:

This name is mostly given to Achyranthes indica, but has been applied to a species of Vervine (Stachytarpheta).

WILD COFFEE:

Cassia occidentalis, otherwise known as Maiomal coffee, and Casearia guianensis (Clean Teeth - Tobago).

CANDLE BUSH:

Three species of Piper are referred to by this name in Tobago. A species with thin rough leaves is called Male Candle Bush (Piper hispidum) and one with thick smooth leaves is called Female Candle Bush (Piper tuberculatum). The third species which resembles Piper hispidum very closely, except it has nearly smooth leaves, is Piper guayranum; the two are equally common.

In general, the plant names of Tobago are found to be free of cultural influences of the French, the Spanish and the Hindu of Trinidad. The medicinal plants of the two islands are not closely similar to those found in northern Venezuela by Morton (1975); also they include some forty species not mentioned in the lists of Jamaican medicinal plants by Asprey and Thornton (1953, 1955).

Vernacular names and descriptions and illustrations of plants are provided to enable the reader to identify and get to know the species which have medicinal uses. Identification is not always easy and other plants, not dealt with in this book, may perhaps have interesting properties. See also the earlier work of Williams (1928, 1951). It is imperative that any plant material which is to be used for medicinal purposes should be correctly identified. Residents of Trinidad and Tobago may consult the National Herbarium of Trinidad and Tobago at St. Augustine for this purpose. An up-to-date bibliographic section, an Index of vernacular names and a Glossary of technical terms have been included.

What comes next? Any work of this kind is merely the beginning of a programme aimed at developing the available plant resources of the country to the point where they may become pharmaceutical and related products. Therefore, concurrent chemical and pharmacological evaluation of selected plant extractives must be carried out, leading to products of commercial value (Bezanger-Beauquesne and Trotin, 1979; Hanlon, 1979), and to the promotion of modern industry. This requires greater commitments in time and money (Sarett, 1979) and governmental support.

In conclusion, we wish to acknowledge the encouragement and willing contributions from our several informants across both Trinidad and Tobago. Also, we thank the Caribbean Lexicography Project of the University of the West Indies for help with the spelling of vernacular names of plants and The Lord

Relator for his calypso "Old Time Remedy". We are particularly grateful to the Commonwealth Science Council for support for this work.

C.E. Seaforth C.D. Adams Y. Sylvester

"OLD TIME REMEDY"

by

*Lord Relator, 1971

Nowadays if you sick you in plenty pain,
Because it aint have good medicine again.
Nowadays if you not well you in plenty pain
Because it aint have good medicine again.
Nowadays people does be sick for a week.
Long time, one day you sick, next day you on your feet.
I living at my granny, so I bound to know
You can't beat a remedy of long ago.

Long ago, if the cold giving you trouble Bois cannot, Black sage tea or some soft candle, Vervine, Christmas bush or Shado beni Bound to pass the cold immediately. It is my belief You could settle yourself with Soursop leaf.

I say we have a right to take example, And try to live like de old people, Because, as a youngster, I realise De old people way of living is really wise. It's only recently, look I find it strange, Old people used to live to a hundred and change, 'Cause anything gone wrong with their body, They could find a suitable remedy.

A long time purge to clear your bladder Castor oil, Sweet broom tea or a good Senna Burnt bread water was a cooling of class, And children with worms used to take Worm grass. Well, don't find I fast, Worm grass used to show the worms where to pass.

3. I done make up my mind To live like de people of de olden time. I living at my granny, and I cocksure Anything wrong with me, she could find the cure. Modern-day medicine is really disgusting. Just two small tablets cost a dollar and something. I say dis kind of thing is too expensive. So, it's like de old people I want to live.

Remove all de bruised blood you get from blows With a good dose of egg, Nutmeg and Aloes. And if you happen to suffer with gas, Hot Orange peel tea bound to make it pass. Well, don't find I fas' Hot Orange peel tea bound to break your gas.

These people like dey make disting a study.

They always first class with their remedy.

Any part of the family that looking sick

Dey could always fix up a remedy quick.

You could have de cold, you could have the 'flu,

Well, let we suppose you can't remember who?

No need to panic, no need to worry,

All you want is a old people remedy.

Now, if you had fever from head to feet, Cousay maho, Gwen-amba-feuille or Mapurite, Jump-up-and-kiss-me or Man-better-man, Granny-back-bone, Minny root or Zeb-a-femme, And if you had asthma It was legal to use some marijuana.

*Willard Harris is the Lord Relator - a Calypso Monarch of Trinidad and Tobago.

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Color of Bander

(MALVACEAE)

Description

This is similar to the edible Ochro (Abelmoschus esculentus), but has stiff reflexed bristly hairs on the stem. The capsule has thin papery dark brown valves and is not markedly ribbed. There are fine ascending hairs on the capsule which when it is ripe splits longitudinally to release brown curved-striate kidney-shaped seeds. The seeds are a source of musk oil used in perfumery.

Habitat and Distribution

A native of south eastern Asia, introduced and established here and there in the New World.

Medicinal Uses

The seeds from the dried mature pods are ground to make a decoction to be taken for intestinal worms.

Wong (1976) states, "Aqueous and rum infusions of seeds for intestinal worms, snake-bite, rheumatism, colds, flu, cold in chest, asthma".

Biodynamic Notes

According to Morton (1981), the essential oils of the musky seeds have been chemically analysed.



Abrus precatorius

CRAB EYE JUMBIE BEAD LICKRISH

(LEGUMINOSAE-PAPILIONATAE)

Descriptions

Slender woody twiner. Leaves with many pairs of small leaflets rounded at best Slender woody twiner. Leaves with many periods founded at best ends. The flowers are small, typically pea-like, dull pink in clusters. The pod at ends. The flowers are small, typically pea-like, dull pink in clusters. The pod at ends. ends. The flowers are small, syndhold reveals pendulous red and black seeds. The brownish, curls back on opening and reveals pendulous red and black seeds.

Habitat

Occurs wild in thickets, mostly in rather dry areas at low elevation throughout the subtropics and tropics.

Medicinal Uses

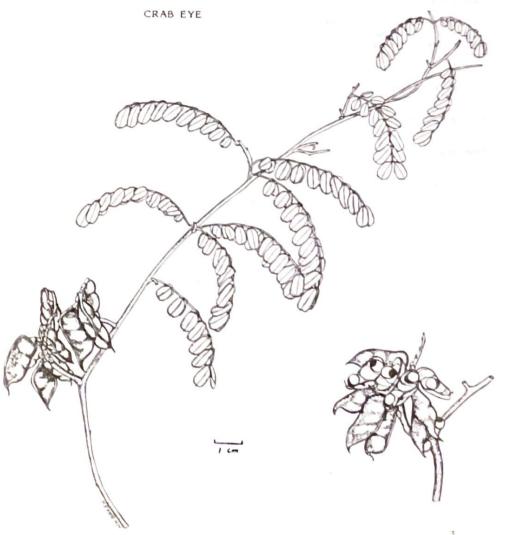
A cup of tea from a handful of leaves is taken to treat coughs, colds and A cup of tea from a manager of the true Liquorice (Glycymia

Wong (1976) states, "Leaves and vine in teas for cough and fever, in locks for flu, cold in chest, consumption".

Biodynamic Notes

The seeds contain very toxic proteins, including Abrin, and the root stem and leaves contain small quantities of Glycyrrhizin (Merck Index).

The roots are said to yield antifertility activity (Milhet et al., 1978), and the leaves gave positive tests for alkaloids.



Achyranthes indica

(AMARANTHACEAE)

Short-lived loosely erect herb up to about 1 m high, the branches often quite short-lived loosely erect herb up to about 1 m high, the branches often quite short-lived loosely erect herb up to about 1 m high, the branches often quite short-lived loosely erect herb up to about 1 m high, the branches often quite short-lived loosely erect herb up to about 1 m high, the branches often quite short-lived loosely erect herb up to about 1 m high, the branches often quite short-lived loosely erect herb up to about 1 m high, the branches often quite short-lived loosely erect herb up to about 1 m high, the branches often quite short-lived loosely erect herb up to about 1 m high, the branches often quite short-lived loosely erect herb up to about 1 m high, the branches often quite short-lived loosely erect herb up to about 1 m high, the branches often quite short-lived loosely erect herb up to about 1 m high, the branches often quite short-lived loosely erect herb up to about 1 m high, the branches often quite short-lived loosely erect herb up to about 1 m high, the branches often quite short-lived loosely erect herb up to about 1 m high, the branches often quite short-lived loosely erect herb up to about 1 m high, the branches often quite short-lived loosely erect herb up to about 1 m high, the branches often quite short-lived loosely erect herb up to about 1 m high, the branches often quite short-lived loosely erect herb up to about 1 m high, the branches often quite short-lived loosely erect herb up to about 1 m high, the branches often quite short-lived loosely erect herb up to about 1 m high, the branches often quite short-lived loosely erect herb up to about 1 m high, the branches often quite short-lived loosely erect herb up to about 1 m high, the branches often quite short-lived loosely erect herb up to a branches often quite short-lived loosely erect herb up to about 1 m high, the branches often quite short-lived loosely erect herb up to about 1 m high, the branches often quite short-lived loosely erect herb up to Short-lived loosely erect herb up to about 1 mings, the branches often quite long and thin. Leave opposite, broadening to a rounded tip ending in a short long and thin. Leave opposite, in an elongated spike, turning downwards and cusp. Flowers small and greenish in an elongated spike, turning downwards and cusp. Flowers sharply spiny. becoming sharply spiny.

Habitat and Distribution

Habitat and weed of cultivated places, pathsides and waste ground throughout the subtropics and tropics.

Medicinal Uses

An infusion of the whole plant either alone or mixed with Ti Marie (Mimosa pudica) is taken for colds.

Wong (1976) states, "Herb teas for flu, fever; bath for marasmus. Planted with money to bring good luck".

Biodynamic Notes

The related species A. bidentata contains uterotonic saponins (Yip et al., 1980).



COCOLICKA ZEBAFAM

Ageratum conyzoides

(COMPOSITAE)

Short-lived hairy herb usually about Short-lived hairy herb usually about Flower-heads in compact terminal Flower numerous. Short-lived hairy herb usually about 50 - 60 cm nugri. Leaves opposite, stalked, Flower-heads in compact terminal rounded ovate with bluntly toothed margin. Florets numerous, mauve. Achenes Lived Short-lived hall, toothed margin. Flower-neads in compact terminal rounded ovate with bluntly toothed margin. Florets numerous, mauve. Achenes black topped by five awned scales.

Common in pastures and on waste ground. General in warm countries.

An infusion of a handful of leaves in four cups of water is taken as a cooling.

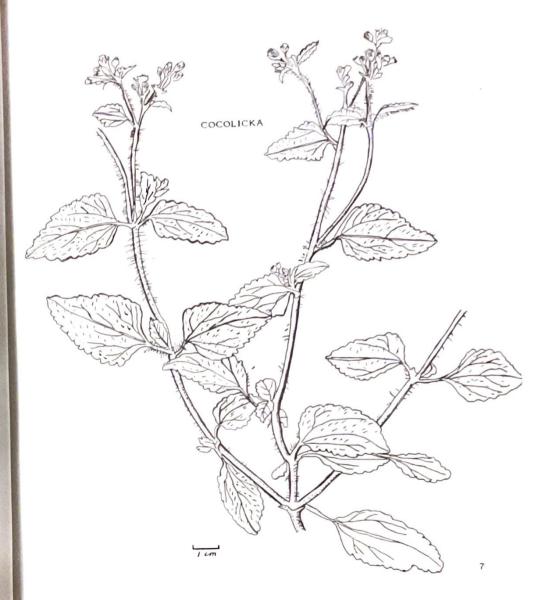
An infusion of a handful of leaves in four cups of water is taken as a cooling. An infusion of a handful of leaves in four cups of water is taken as a cooling, to treat colds and fevers, to clean out the womb and for painful menstruation, and as a diuretic.

An infusion in water of the mixtures of Santa Maria (Lippia alba), Basil (Ocimum sp., Lickrish (Abrus precatorius), Nickaracka (Gliricidia sepium), Syria (Sambucus simpsonii), Milk weed (Euphorbia hirta) and Man-better-man (Sambucus simpsonii), taken also for colds, inflammation of the (Sambucus simpsonii), simpsonii), and also for colds, inflammation of the womb and (Achyranthes indica) is taken also for colds, inflammation of the womb and sterility in women.

Wong (1976) states, "Herb teas for heat, flu, cough, pneumonia, cystitis, in abortifacient. Root decoction for discounting Wong (1976) states, "mero teas for ited, they be and decoction for diabetes and dysmenorrhoea, menorrhagia, in abortifacient. Root decoction for diabetes and postpartum clotting".

Biodynamic Notes

In East Africa this plant is decribed as a poisonous species (Morton, 1981). In oils are antifungal (Sharma, and Jain, 1978), and its leaf extracts antibacterial (Durodola, 1977; Adesogan and Okunada, 1979).



Allium sativum

(ALLIACEAE)

Habitat and Distribution The various kinds of Allium are grown in gardens and commercially, and large the various of Onions are grown in Barbados for shipment to other islands such that the Caribbean. The various kinds of Allium are grown in Barbados for shipment to other islands such a quantities of Onions are grown in Barbados for shipment to other islands such a quantities of Onions are grown L. is, in the Caribbean, mostly imported to the northern hamiltonian are native of the northern hamiltonian are native of the northern hamiltonian are native. quantities of Onions are grown in Barbauos to Snipment to other islands such a quantities of Onions are grown L. is, in the Caribbean, mostly imported to Trinidad. All species of Allium are native of the northern hemisphere and the probably originated in Washington quantities of Children sativum L. 18, in the Carloscan, mostly imported from Trinidad. Garlic, Allium are native of the northern hemisphere and the Mexico. All species of Allium are native of the northern hemisphere and the Mexico. The of them, onion and garlic, probably originated in Western Asia Mexico. All species of Allium are matter of the memisphere and most useful of them, onion and garlic, probably originated in Western Asia,

Medicinal Uses

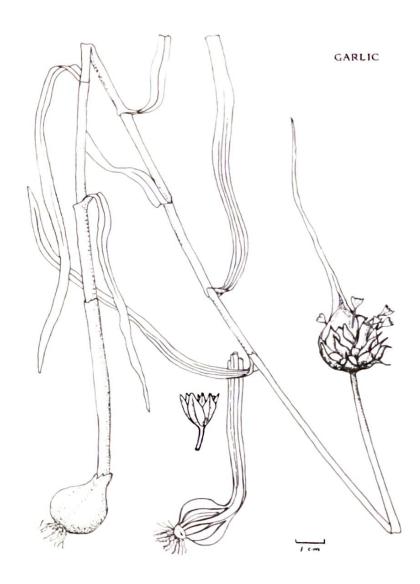
Garlic is used for toothache and also to make a tea to treat hypertension. For Garlic is used for toothacne and also coconut oil and use the cooled oil earache, burn a piece of garlic in coconut oil and use the cooled oil earache, also garlic is crushed and the scent inhaled during "worm file" at earache, burn a piece of garrier and the scent inhaled during "worm fits", eardrops. Also garlic is crushed and the scent inhaled during "worm fits",

Wong (1976) states, "Clove teas for intestinal worms, indigestion, oliginal, oligin Wong (1976) states, "Clove leas to Rubbed on belly to facilitate parturition, stomachache, infusion for hypertension. Rubbed on belly to facilitate parturition. In bath for bewitchment".

Biodynamic Notes

The oily constituent, Allicin, is a bactericide used in modern therapy (Merce The oily constituent, American active constituents have been noted, including sinirritants and insect repellents (Morton, J.F. 1981).

*Footnote The Garlic Vine (Pachyptera alliacea) is a dicot of the lamb Bignoniaceae, native of South America, and contains odorous diale sulphides and the amino acid Alliin characteristic of Garlic and few closely related Allium species.



(LILIACEAE)

Description

A tufted perennial herb developing rosettes of long fleshy pointed leaves from a shortly branched creeping rhizome. The leaves, which have soft marginal prickles, are brittle and when broken exude a clear yellowish viscous sap. The flowers are yellow and borne in an elongated compact raceme from the centre of the rosette. This species does not set fruit and is propagated by means of rhizome branches.

Habitat and Distribution

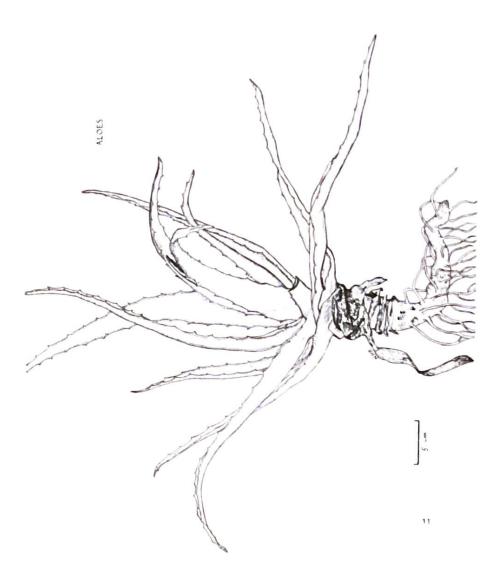
Although behaving as a native plant in the West Indies, this species is probably a native of the Mediterranean region.

Medicinal Uses

The exudate from a freshly cut leaf is beaten up with eggwhite and taken internally for colds, asthma and for bruises. Also leaf exudate mixed with seawater is drunk for stomach ulcers. A freshly sliced leaf is applied to skin wounds and, for headaches is tied around the head: also is used as a rectal suppository for constipation.

Biodynamic Notes

Anti-parasitic activity is shown by the plant extracts (Chang, 1971), and one of the constituents is Aloin, an established laxative (Merck, 1976).



Anacardium occidentale

(ANACARDIACEAE)

Tree with usually rather gnarled spreading branches up to about 12 m high.

Tree with usually rather gnarled spreading branches up to about 10 m high. Tree with usually rather gnarled spreading branches, obovate-elliptical, up to about 12 m high.

Leaves spirally arranged on the branches, obovate-elliptical, up to about 18 cm

Leaves spirally arranged on the leathery. Flowers in panicles exceeding the land on branches are the combrand. Tree with larged on the branches, oboyding the leaves spirally arranged on the branches, lowers in panicles exceeding the leaves long and 10 cm braod, rather leathery. Flowers in panicles exceeding the leaves long and 10 cm braod, rather leathery. Fruit in two distinct leaves long and 10 cm braod, rather leathery. Leaves spirally long braod, rather leathery. Flowers in panicies exceeding the leaves, long and 10 cm braod, rather leathery. Fruit in two distinct parts, the rather small, yellow turning pink, fragrant. Fruit in two distinct parts, the rather small, yellow turning pink, fragrant or long, the drupe kidney-shaped receptacle (apple) pear-shaped up to about 10 cm long, the drupe kidney-shaped receptacle (apple) pear-shaped up to about 10 cm long, the drupe kidney-shaped receptacle (apple) pear-shaped up to about 10 cm long, the latter containing the edible kernel. receptacle (apple) pear-snaped up to about 10 cm long, the drup up to about 3.5 cm long, the latter containing the edible kernel.

Habitat and Distribution

Common thoughout the region in cultivation and as a relict, thriving mostly in Common thoughout the Legist. A native of the American tropics, now widespread.

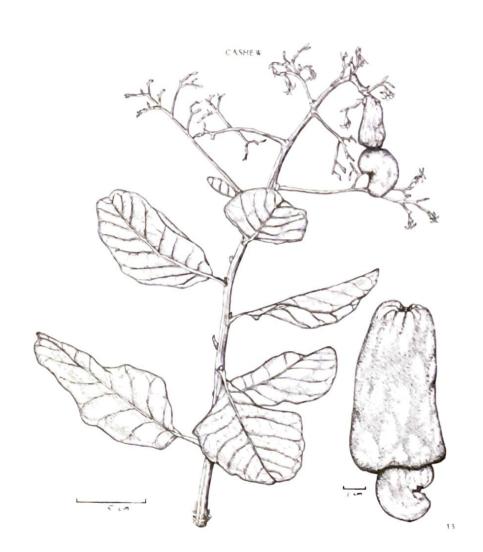
Medicinal Uses

A strong decoction of the tree bark alone or with Malomay (Euphorbia hirta) is A strong decoction of the ties out and dysentery. To destroy warts, ringworm and eczema, taken for diarrhoea and dysentery. apply the heated seed to the skin.

Wong (1976) states, "Leaf tea (of Cashew) for diarrhoea, indigestion stomachache. Bark tea for diarrhoea, dysentery. Seed in coffee for asthma. Loch of flowers for cough".

Biodynamic Notes

Although the fruit is edible, the seed oil is toxic and vesicant. The toxic agents are mainly phenols, such as Cardol, which also are found in the tree bark (Watt and Brever-Brandwijk, 1962).



Annona muricata

(ANNONACEAE)

Description

A tree rarely more than 8 m high. Leaves oblong-obovate, acuminate, 8-25 m broad. The solitary flowers are pendent, with 6 graduate three about 3 cm long and broad from three about 3 cm long and broad. A tree rarely more than 8 m high. Leaves observed, acuminate, 8-25 cm long, 3.5 - 8 cm broad. The solitary flowers are pendent, with 6 greenish long, 3.5 - 8 cm broad, the outer three about 3 cm long and broad, acuminate thick petals, the outer three fruit is usually about 20 A tree rarely more broad. The solitary flowers are pendent, with 6 greenish. long, 3.5 - 8 cm broad, the outer three about 3 cm long and broad, acuminately yellow thick petals, the outer three fruit is usually about 20 cm long and the inner nearly as long. The fruit is covered with large curved soft long, 3.5 - 8 the outer three about 5 cm long and broad, acuminately yellow thick petals, the outer three about 5 cm long and broad, acuminately yellow thick petals, the inner nearly as long. The fruit is usually about 20 cm long and lon yellow thick pointed, the inner nearly as long. The fruit is usually about 20 cm long a pointed, the inner nearly as long. The fruit is usually about 20 cm long a pointed, the inner nearly as long. The fruit is usually about 20 cm long a pointed, the inner nearly as long. The fruit is usually about 20 cm long a pointed, the inner nearly as long. The fruit is usually about 20 cm long a pointed, the inner nearly as long. The fruit is usually about 20 cm long a pointed, the inner nearly as long. The fruit is usually about 20 cm long a pointed, the inner nearly as long. The fruit is usually about 20 cm long a pointed, the inner nearly as long. The fruit is usually about 20 cm long a pointed, the inner nearly as long. The fruit is usually about 20 cm long a pointed, the inner nearly as long. The fruit is usually about 20 cm long a pointed in the inner nearly as long. The fruit is usually about 20 cm long a pointed in the inner nearly as long. The fruit is usually about 20 cm long a pointed in the inner nearly as long. The fruit is usually a pointed in the inner nearly as long. The fruit is usually a pointed in the inner nearly as long. The fruit is usually a pointed in the inner nearly as long. The fruit is usually a pointed in the inner nearly as long. The fruit is usually a pointed in the inner nearly as long. The fruit is usually a pointed in the inner nearly as long. The fruit is usually a pointed in the inner nearly as long. The fruit is usually a pointed in the inner nearly as long. The fruit is usually a pointed in the inner nearly as long. The fruit is usually a pointed in the inner nearly as long. The fruit is usually a pointed in the inner nearly as long. The fruit is usually a pointed in the inner nearly as long. The fruit is usually a pointed in the inner nearly and the inner nearly a pointed in the inner nearly and the inner nearly a pointed in the inner nearly and the inner nearly a pointed in the inner nearly and the inner nearly a pointed in the inner nearly and the inner nearly a pointed in the inne

Habitat and Distribution

Native of tropical America; common in cultivation worldwide.

Crushed Soursop leaves produce a scent which is inhaled for dizziness Crushed Soursop leaves produce also used alone or with leaves of Portugal (Citrus fainting spells. The leaves are also used alone or with leaves of Portugal (Citrus fainting spells. Calabash (Crescentia cujete) and of Sapodilla (U.Citrus fainting spells). fainting spells. The leaves are also cujete) and of Sapodilla (Citra reticulata), of Calabash (Crescentia cujete) and of Sapodilla (Manillara reticulata), of tea used as a sedative. zapota) to make a tea used as a sedative.

Wong (1976) states, "Poultice of (Soursop) fruit for ringworm. Leaf infusion palpitation, heat, flu, insomnia. Crushed leaf infusion palpitation, heat, flu, insomnia. Wong (1976) states, "Pourtice of the state o for fainting".

A related species, wild in swamps near the sea in the warm parts of America A related species, who in sadding and vest Africa, is known as Anongdevac (Annona glabra). It has a narrow and West Africa, is known as Anongdevac (Annona glabra). It has a narrow and west Africa, is known as Anongdevac (Annona glabra). and West Africa, is known as a narrow, buttressed trunk, slightly smaller leaves and smooth fruits with a dry pungent buttressed trunk, slightly siliality striped, kept moist with salt, and used as a aromatic pulp. The inner bark is striped, kept moist with salt, and used as a bandage for sprains and dislocations.

Biodynamic Notes

Various Annona species contain alkaloids and terpenoid derivatives (Bhaumik et al., 1979), still under biological test for activities. The seeds of A. murican may be toxic (N.A.S., 1975). Isoquinoline alkaloids have been found in the leaves and the root - and stembark of A. muricata (LeBoeuf et al., 1981).



Aristolochia rugosa

(ARISTOLOCHIACEAE)

Description

A slender twiner, the stem somewhat hairy at first. Leaves broadly ovate.

A slender twiner, the stem somewhat hairy at first. Leaves broadly ovate. A slender twiner, the stem somewhat harry the apex rounded and obtuse oblong, not lobed but often concave at the sides, the apex rounded and obtuse oblong, not lobed but often concave about 1 cm long, a trumper to long and the A slender twiner, but often concave at the sleep, the apex rounded and obtuse, oblong, not lobed but often concave at the sleep, the apex rounded and obtuse, oblong, not lobed but often concave at the sleep, the sleep condate, minutely hairy beneath, up to 11 cm long and 6 cm the base deeply cordate, minutely about 1 cm long, a trumpet-shaped tube. oblong, not loved the base deeply cordate, minutely nairy believed, op to 11 cm long and 6 cm the base deeply cordate, minutely nairy believed, op to 11 cm long and 6 cm wide. Flower with an inflated base about 1 cm long, a trumpet-shaped tube 2.5 wide. Flower with an inflated base about 1 cm long and a scoop-shaped lip 1.0 colour. Capsule about 2 fringed many wide. Flower as scoop-shaped lip 1.0 - 1.1 long with a fringed margin, 3 cm long and a scoop-shaped purple in colour. Capsule about 3.5 cm long and generally greenish or tinged purple in colour. Specially greenish or tinged purple in colour. Capsule about 3.5 cm long and 3 and generally greenish or tinged purple in colour. Specially special generally greenish or tinged purple in colour. Capacite about 3.5 cm long and long and 3 mm broad.

Habitat and Distribution

Grows in thickets and on banks in north and south Trinidad; otherwise known only from some of the islands of the Lesser Antilles.

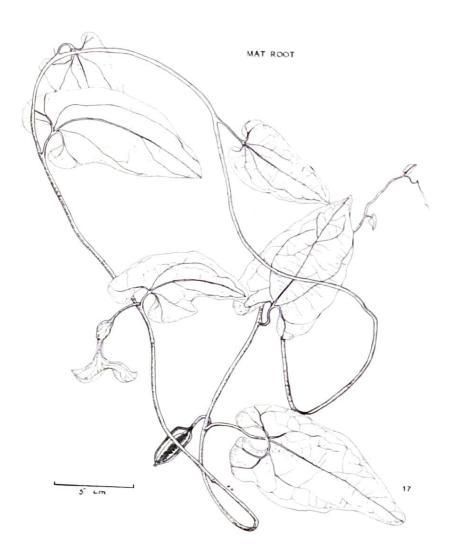
Medicinal Uses

Whole plant is used to make teas for diabetes and hypertension. The roots and leaves are chewed for snake-bite.

Wong (1976) states, "Root teas and infusions for indigestion, heat, Wong (1976) states, dear, jaundice, snake-bites, scorpion sting, m postpartum depurants".

Biodynamic Notes

Leaf extracts of A. rugosa gave positive tests for alkaloids. The oriental species A. indica contains antifertility agents which include sesquiterpend alcohols (Pakrashi et al., 1989). Aristolochic acid is a phagocyte stimulan found in a number of Aristolochia species (Singh and Philip, 1980; Batsford et al., 1980).



Aristolochia trilobata

SCIENTIFIC PLANT TREF TWEF

(ARISTOLOCHIACEAE)

A slender-stemmed vine climbing by petiole-tendrils to 7 m or more, roots from the ground. Leaf three-lobed, the lobes are because when trailing on the ground pale green because A slender-stemmed vine climbing by petiole-tendrils to 7 m or more, roots from the nodes when trailing on the ground. Leaf three-lobed, the lobes are blunt, the nodes when trailing on the ground, pale green beneath. Flower solitary rather leathery, up to about 15 cm broad, pale green beneath. Flower solitary at the node, the upper lip short and cordate, about 2.5 cm broad, the lower lip at the node, the upper lip short and cordate, about 2 - 3 mm broad. Capsule a six. lobed parachute-like censer. Seeds numerous, flat, heart-shaped.

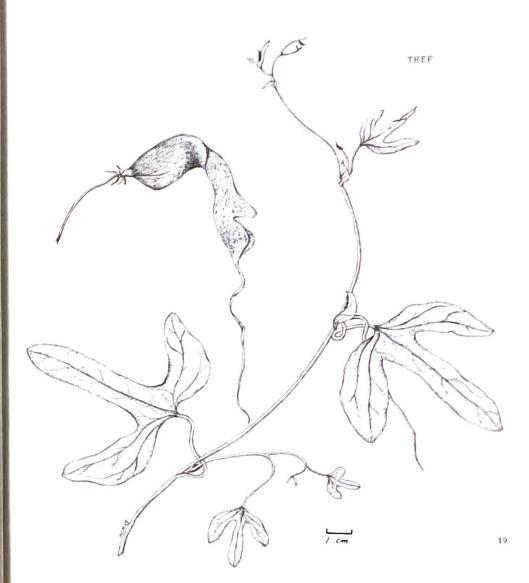
Habitat and Distribution

In Central America and many of the West Indian islands.

Medicinal Uses

A cup of tea infused from three leaves is take for menstrual pains, and also to shorten labour in childbirth. Larger doses are regarded to be abortifacient.

Wong (1976) states "Leaf decoctions for diabetes, hypertension, snake-bites, Wong (1976) states "Leai decettion of the depurant, to ease parturition, shake-bites, as abortifacient, postpartum depurant, to ease parturition, shake-bites, sh Vine planted in garden against bewitchment".



Artocarpus altilis (Syn. A. communis)

(MORACEAE)

Description

A tree up to 15 m or more high with large incised leaves. Male flowers are borne in spherical heads on the are A tree up to 15 m or more high with large incised leaves. Male flowers are borne in spherical heads on the same borne in spikes and female flowers are bearing the female flowers enlarges to a plant. In the breadfruit the receptacle bearing the female flowers enlarges to a plant. In the breadfruit 20 to 30 cm in diameter, eventually with low supports a salked 'fruit' 20 to 30 cm in diameter, eventually with low supports. borne in spikes and plant. In the breadfruit the receptacle bearing the reliable Howers enlarges to a plant. In the breadfruit 20 to 30 cm in diameter, eventually with low superficial spherical stalked 'fruit' spherical stalked 'fruit' the Chataigne (sometimes called Breadnut) the plant. In the stalked 'fruit' 20 to 30 cm in diameter, eventually with low superficial spherical stalked 'fruit' 20 to 30 cm in diameter, eventually with low superficial the Chataigne (sometimes called Breadnut) the fruit contains seeds and has a rougher surface.

Habitat and Distribution

The various varieties are all the results of importations from the South Pacific The various varieties are all the results of the various varieties are all the results of the south Pacific which began in St. Vincent and Jamaica in 1793. They are common in which began in St. Where rainfall is adequate, mostly at low elevations in which began in St. vincein and commendate, mostly at low elevation.

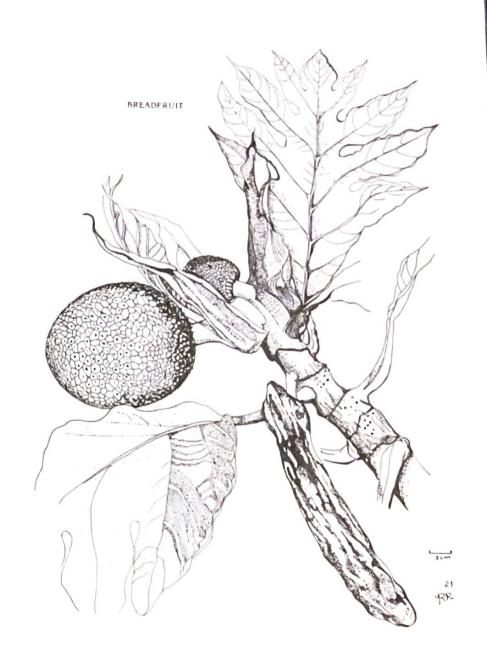
Medicinal Uses

A slightly yellow leaf with or without Garlic (Allium sativum) is used to make a A slightly yellow lear with or without state. It is alleged that there is a risk of tea for diabetes and high blood pressure. It is alleged that there is a risk of inducing low blood pressure if the tea is too strong.

Wong (1976) states: "Young fruit rind tea for oliguria. Latex cataplasm for pain".

Biodynamic Notes

Blood-pressure lowering action of the leaf extracts of Breadfruit is due to the presence of Gamma-aminobutyric acid (Durand et al. 1962).,



Bambusa vulgaris

(GRAMINEAE)

An arborescent grass with culms up to 10 m or more high deriving from a perennial massive stock by means of short ascending branches. Stem 10 - 12 cm in diameter with hollow internodes. Leaf-blades articulated to and deciduous from the sheath. Flowering infrequent.

Habitat and Distribution

Native of the Asian tropics and now very widespread.

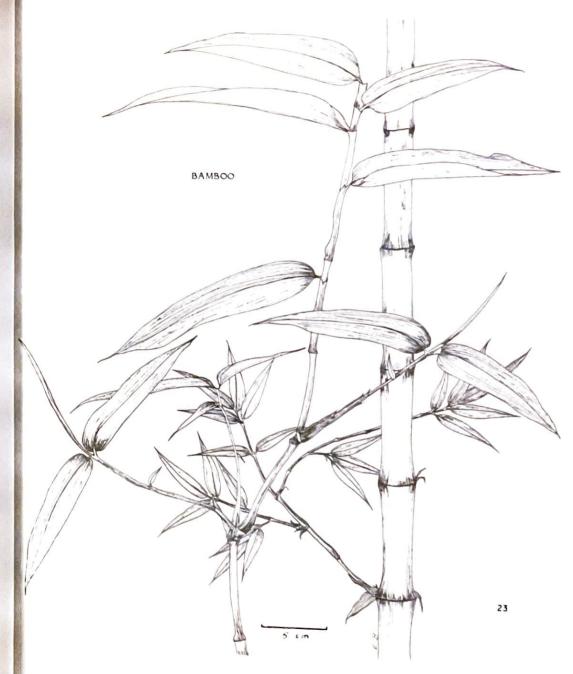
Medical Uses

A tea from Bamboo leaves plus Tomato leaves (Lycopersicon esculentum) or A tea from Damboo leaves (Lycoper Blacksage leaves (Cordia curassavica) is taken for malaria.

Wong (1976) states, "Root juice (of Bamboo) for bles, as purgative. Leaf baths and teas for flu, fever, pneumonia, stroke. Root decoction is abortifacient".

Biodynamic Notes

Bamboo leaves tend to accumulate cyanide (Culvenor, 1970).



(BEGONIACEAE)

Description

Soft, nearly glabrous and translucent-stemmed annual herb, rarely more than 30 Soft, nearly glabrous and translucent-state swollen nodes with deciduous than 30 cm high. Leaves alternate from distinct swollen nodes with deciduous stipules, cm high. Leaves alternate from distinct swollen nodes with deciduous stipules. Soft, nearly deciduous stipules, cm high. Leaves alternate iroin distributes, lanceolate to high. Leaves at base, acute at apex, irregularly toothed; surface with ovate Leaf-stalk 1 - 4 cm long. Leaf-blade story, irregularly toothed; surface with a few slightly cordate at base, acute at apex, irregularly toothed; surface with a few slightly cordate at base, white to light pink in axillary few-flowered inflorescent slightly cordate at base, acute at apex, megaliary few-flowered inflorescences, stiff hairs. Flowers white to light pink in axillary few-flowered inflorescences, stiff hairs blique with three unequal wings, the larger about 8 mm lone stiff hairs. Flowers white to light plan in an arrowal inflorescences, stiff hairs. Flowers with three unequal wings, the larger about 8 mm long. Seeds numerous, very small.

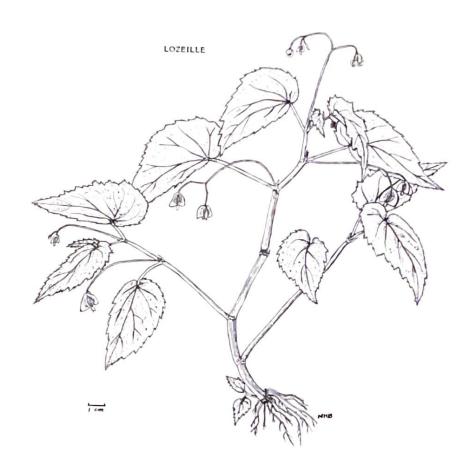
Habitat and Distribution

Reported from Jamaica, Dominica, Trinidad, Tobago and tropical South America; mostly on clay or rocky banks in damp shaded places.

Medicinal Uses

A tea for wheezing and bronchitis is made from a handful of plant tops infused into a cup of boiling water.

Wong (1976) states, "Herb in lochs and teas for cough, cold in chest, consumption, fever".



Bidens pilosa

(COMPOSITAE)

Description

Short-lived erect variably hairy herb rarely as much as I m high. Lower leaves with one to three pairs of lateral toothed leaves the stalks in a terminal inflorescence. Short-lived erect variably hairy hero rates, simple, the upper with one to three pairs of lateral toothed leaves often simple, the upper short stalks in a terminal inflorescence. Outer leaves the beads on long or short stalks in a terminal inflorescence. Outer leaves often simple, the upper with one stalks in a terminal inflorescence. Outer flower-heads on long or short stalks in a terminal inflorescence. Outer flower-heads on long or short stalks in a terminal inflorescence. Outer flower-heads on long or short stalks in a terminal inflorescence. Outer flower-heads on long conspicuous limb (these rarely altogether absent): often simple, on long or short stalks in the stalks on long or short stalks in the spreading conspicuous limb (these rarely altogether absent); inner with a white short and regular, yellow. Achenes black with two, rarely the with a white spreading conspicuous limb (these black with two, rarely three three barbed awns. retrorsely barbed awns.

Habitat and Distribution

A common weed of roadsides and waste places, generally distributed through the tropics of both hemispheres.

Medicinal Uses

An infusion of the leaves is used as a tonic, and also for diabetes.

Biodynamic Notes

Plant juices, have been shown as antibacterial (Watt and Breyer-Brandwijk, Plant juices, have been shown 1962). The consumption of this plant might be tumour-promoting in the 1962). The consumption of the presence of Phenylheptatrivine in the esophagus (Mirrish, et al., 1979). The presence of Phenylheptatrivine in the esophagus (Mirrish, et al., 1979). presence of sunlight (Wat et al., 1979).



Bixa orellana

(BIXACEAE)

Shrub or small tree usually between 3 and 6 m high with spreading branches, shrub or small tree usually between 3 and 6 m high with spreading branches, shrub or small tree usually between 3 and 6 m high with spreading branches, shrub or small tree usually between 3 and 6 m high with spreading branches, shrub or small tree usually between 3 and 6 m high with spreading branches, shrub or small tree usually between 3 and 6 m high with spreading branches, shrub or small tree usually between 3 and 6 m high with spreading branches, shrub or small tree usually between 3 and 6 m high with spreading branches, shrub or small tree usually between 3 and 6 m high with spreading branches, shrub or small tree usually between 3 and 6 m high with spreading branches, shrub or small tree usually between 3 and 6 m high with spreading branches, shrub or small tree usually between 3 and 10 cm high with spreading branches, shrub or small tree usually between 3 and 10 cm high with spreading branches, shrub or small tree usually between 3 and 10 cm high with spreading branches, shrub or small tree usually between 3 and 10 cm high with spreading branches, shrub or small tree usually between 3 and 10 cm high with spreading branches, shrub or small tree usually between 3 and 10 cm high with spreading branches, shrub or small tree usually between 3 and 10 cm high with spreading branches, shrub or small tree usually between 3 and 10 cm high with spreading branches, shrub or small tree usually between 3 and 10 cm high with spreading branches, shrub or small tree usually between 3 and 10 cm high with spreading branches, shrub or small tree usually between 3 and 10 cm high with spreading branches, shrub or small tree usually branches, shrub or s Shrub or small tree usually between 3 and 6 in high with spreading branches, shrub or small tree usually heartshaped leaves on long stalks. The leaves are slender rusty-brown twigs and heartshaped leaves and local tree usually between 3 and leaves on long stalks. The leaves are slender rusty-brown twigs and about 15 cm long and 10 cm broad. The leaves are slender rusty-brown and mostly surple stamens make the flowers. shrub or small tree wigs and heartshaped leaves on long stalks. The leaves are slender rusty-brown twigs and about 15 cm long and 10 cm broad. The light thin and lustrous and mostly about 15 cm long and the flowers very shight thin and lustrous and numerous purple stamens make the flowers very shight slender rusty-brown and mostly about 13 cm long and 10 cm broad. The light thin and lustrous and numerous purple stamens make the flowers very showy pinkish-mauve petals and numerous pointed capsules 3 - 4 cm long covered pinkish-mauve fruits are blunt or pointed when ripe to release the covered over the covere thin and lustrous and numerous purple statistics that the Howers very showy pinkish-mauve petals and blunt or pointed capsules 3 - 4 cm long covered when ripe to release the seed with the distinctive fruits are and opening when ripe to release the seed with pinkish-mauve persist are blunt or pointed capsules - 4 cm long covered with The distinctive fruits are blunt or pointed when ripe to release the seeds. The distinctive fruits and opening when ripe to release the seeds. The rather soft reddish bristles and opening coloured coating used in food prosecution covered with an oily vermillion coloured coating used in food prosecution. The distinctive first bristles and opening when ripe to release the seeds. The rather soft reddish bristles and opening coloured coating used in food processing seeds are covered with an oily vermilion coloured coating used in food processing seeds are covered for colouring soups, cheeses and cosmetics. seeds are covered with an only verminon coloured coating as a pigment for colouring soups, cheeses and cosmetics.

Habitat and Distribution

This species is native from Mexico to Brazil. It has been cultivated in the This species is native from mexico is and has been introduced to most warm Caribbean islands from prehistoric times, and has been introduced to most warm parts of the world.

Medicinal Uses

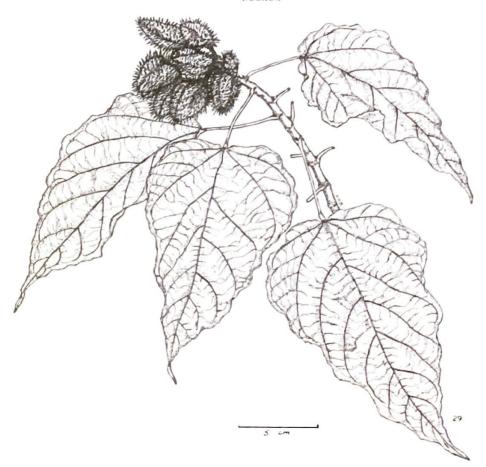
Mixture of the roots of Roukou and of Lime (Citrus aurantifolia) with Coraili Mixture of the roots of Roukou and to make a strong tea taken every day to vine (Momordica charantia) are boiled to make a strong tea taken every day to vine (Monitorica citalantia) are also applied on sprains. treat diabetes. Roukou leaves are also applied on sprains.

Wong (1976) states, "Root teas (of Roukou) for oliguria, jaundice. Seed Wong (1976) states, Root teas to infusions of root for diabetes, flu, infusion for oliguria. Aqueous and rum infusions of root for diabetes, flu, venereal diseases".

Biodynamic Notes

Roukou pigments are popular food additives which are relatively non-toxic (Preston and Rickard, 1980).

ROUKOU



Bontia daphnoides

(MYOPORACEAE)

Description

A shrub or low bushy tree up to 6 m or more high. The numerous branches are spirally arranged and bear dense foliage. Leaves are spirally arranged are A shrub or low bushy tree up to 6 m or more tight. The numerous branches are ascending in posture and bear dense foliage. Leaves are spirally arranged ascending in posture and bear dense. They are up to about 11 cm long but and long by the long but and long by the long but and ascending in posture and bear dense louisge. Leaves are spirally arranged and ascending in posture in shape. They are up to about 11 cm long but had are inconspicious, about 2 cm long but had ascending in postal inear in shape. They are up to about 11 cm long but hor narrowly oblong to linear in shape are inconspicious, about 2 cm long, tawny more than 2 cm broad. The flowers are inconspicious, about 2 cm long, tawny more than 2 cm broad nursle, the anterior lip curled downwards. The fruit resent ways narrowly opinions. The flowers are inconspictous, about 2 cm long, tall not more than 2 cm broad. The flowers are inconspictous, about 2 cm long, tall not purple, the anterior lip curled downwards. The fruit resembles yellow blotched purple, the anterior long. This plant is not at all relative pointed olive about 1.5 cm long. This plant is not at all relative pointed olive. yellow blotched purple, the anterior lip curied downwards. The fruit resembles a yellow blotched pointed olive about 1.5 cm long. This plant is not at all related to somewhat pointed olive about 1.5 cm long. Europe. somewhat pointed of the Mediterranean region of Europe.

Habitant and Distribution

Native of northern South America and the islands of the West Indies mostly on Native of northern South America and the occasional in cultivation as an item rocky terrain near the sea. It is otherwise occasional in cultivation as an item of horticulture interest for its dense foliage.

Medicinal Uses

The leaf tea is taken for weakness of the bladder, to clean the womb and for The leaf tea is taken for weakings of the leaves, alone or together with Silk Fig leaves menstrual pains. A tea of the leaves, alone or together with Silk Fig leaves menstrual pains. A taken for high blood pressure and diabetes.

Wong (1976) states, "Leaf teas for nephritis, hypertension, cough, cold. Leaf infusion for heart".

Biodynamic Notes

No pharmacodynamic comment is available about Olive bush. However, the flower extracts of Musa sapientum show hypoglycaemic activity (Jain, 1969).



Bryophyllum pinnatum

LEAF-OF-LIFE NEVER DEAD PARVU WONDER-OF-THE-WORLD

(CRASSULACEAE)

Description

Glabrous laxly erect fleshy herb up to about 1 m high. Leaves opposite in pain, the upper pinnate, the blades up to about 18 cm long pain. Glabrous laxly erect fleshy here up to about 18 cm long pairs, the lower simple, the upper pinnate, the blades up to about 18 cm long and the lower simple, the margin with curved crenations, producing at times small plant to the margin with curved creminal panicles. Calve the lower simple panicles to the margin with curved creminal panicles. the lower simple, the upper pinnate, the lower simple, the upper pinnate, the lower simple, the margin with curved crenations, producing at times small plantlet cm broad, the margin with curved crenations, producing at times small plantlet cm broad, the margin with curved crenations, producing at times small plantlet constitutions. the lower simple, with curved cremations, producing at times small plantlets cm broad, the margin with curved cremations, producing at times small plantlets cm broad, the margin with curved cremations, producing at times small plantlets cm broad, the margin with curved cremations, producing at times small plantlets cm broad, the margin with curved cremations, producing at times small plantlets cm broad, and it is constructed to the constriction of the construction of the constructi yellowish, inflated, about 3 cm 101g. Stamens attached to the constriction of the corollar long, the lobes triangular. tube.

Habitat and Distribution

Common in many parts of the West Indies both in and out of cultivation where Common in many parts of the west statement of the common in many parts of the west statement of the common in many parts of the west statement of the common in many parts of the west statement of the common in many parts of the west statement of the common in many parts of the west statement of the common in many parts of the west statement of the common in many parts of the west statement of the common in many parts of the west statement of the west stateme Madagascar.

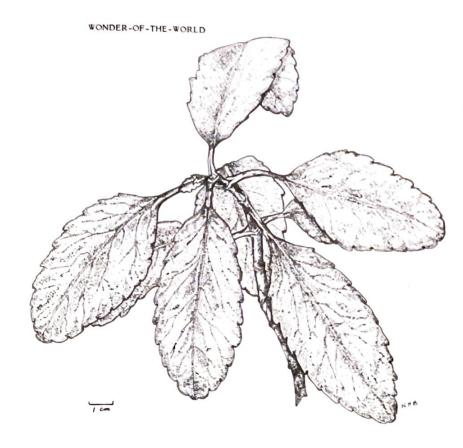
Medical Uses

For earache, the leaves are warmed and the sap squeezed into the ear. The For earache, the leaves are also applied topically to treat sprains, bruises, ulcers, heated leaves are also applied tay tay worm. It is reported that something and tay tay worm. heated leaves are also applied tay tay worm. It is reported that sometimes this swellings and even arthritis and tay tay worm. It is reported that sometimes this swellings and even artified this treatment produces severe skin blisters. A decoction of the leaves is also taken to clean the bladder.

Wong (1976) states, "Leaf poultice for earache, sprains, dysmenorrhoea, cold in Wong (1976) states, beat positioned, cold in head. Leaf juice for ophthalmia and earache. Leaves in bath for bewitchment.

Biodynamic Notes

Antimicrobial properties have been attributed to this plant (Boakye-Yiadom, 1977).



PIGEON PEAS

Cajanus cajan

(LEGUMINOSAE-PAPILIONATAE)

Description

A short-lived shrub to about 3.5 m high (some varieties are uniformly shorter).

A short-lived shrub to about 3.5 m high (some varieties are uniformly shorter). A short-lived shrub to about 3.5 m night (Soline varieties are uniformly shorter). The leaves have three elliptical silvery-hairy leaflets up to about 9 cm long. Flowers in stalked racemes, yellow or yellow with brown markings. Post Flowers in stalked racemes, obliquely ribbed, up to about 7 cm long and 13 - 14 mm broad. Seeds green about 8 mm in diameter. smooth, about 8 mm in diameter.

Habitat and Distribution

Native of the Asian tropics now widespread in the subtropics and tropics of both hemispheres.

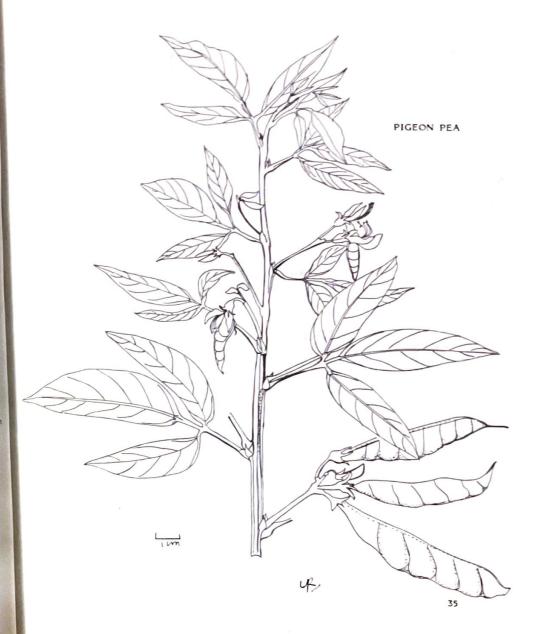
Medicinal Uses

The leaves are boiled and applied to wounds, skin infections and ulcers. A The leaves are boiled and applied to woods, skill intections and ulcers. A decoction of the leaves is drunk and also used as a gargle for infected gums and decoction of the made from three leaves is taken by children and also used as a gargle for infected gums and decoction of the made from three leaves is taken by children and also used as a gargle for infected gums and decoction of the leaves are boiled and applied to woods. decoction of the leaves is under the leaves is taken by children in cases of bed-wetting.

Wong (1976) states, "Leaf juice is poison antidote and for flu. Leaf infusion baths for stroke and bewitchment".

Biodynamic Notes

An antimicrobial agent, Cajanone, has been isolated from the root of C. cajan (Preston, 1977).



Capraria biflora

DITAY PAYEE FREGOSA FRIOSA TITI PAY

(SCROPHULARIACEAE)

Erect bushy herb undershrub up to about 1.5 m high, very variable in hairiness. Leaves spirally arranged, up to about 9 cm long, toothed mostly in the distal Leaves spirally arranged, up to about 9 cm long, toothed mostly in the distal Leaves spirally arranged, up to about 9 cm long, half. Flowers on slender stalks with white bell-shaped corollas about 1 cm long, Seeds small and numerous in an ovoid capsule 4 -6 mm long.

Habitat and Distribution

Common on disturbed ground and along roadsides and in ditches. Throughout Common on disturbed ground and actions and established sporadically in the Old World.

Medicinal Uses

The leaf tea is used as a febrifuge, and also to treat the griping effects The leaf tea is used as action of Castor oil (Ricinus communis). Either the leaf juices or the aqueous extracts of the leaves is used as an eyewash.

Wong (1976) states, "Leaf tea or dew on leaf is eyewash for ophthalmia. Herb teas for flu, fever, dysmenorrhoea, heat, vomiting, measles, as postpartum depurants".



Capsicum frutescens

(SOLANACEAE)

Description

A shrub usually ovate, o A shrub usually 1 - 2 m high with the base, acuminately pointed, leaves alternate, ovate, shortly wedge-shaped at the base, acuminately pointed, alternate, ovate, long and 4.5 cm broad, often smaller, rarely larger, mostly to about 9 cm long and 4.5 cm broad, often smaller, rarely larger. Flower up to about 9 cm long and another, about 1 cm across. Fruit an elongate with pare than about 2 cm long, ripening red or orange elongate. alternate, ovate, shortly alternate, ovate, shortly and 4.5 cm broad, offer smaller, rarely larger. Plower up to about 9 cm long and 4.5 cm broad, about 1 cm across. Fruit an elonger up to about 9 with greyish anthers, about 2 cm long, ripening red or orange. up to about with greyish anthers, about 1 cm across. Fruit an elegreenish-white with greyish about 2 cm long, ripening red or orange conical berry rarely more than about 2 cm long, ripening red or orange.

Habitat and Distribution

Habitat and Distributed in disturbed places and thickets, mostly and naturalized in disturbed places and thickets, mostly Native probably of tropical America now widespread in the probability of tropical Americ Cultivated and naturalized in distributed America now widespread in habitations. Native probably of tropical America now widespread in warm countries.

Medicinal Uses

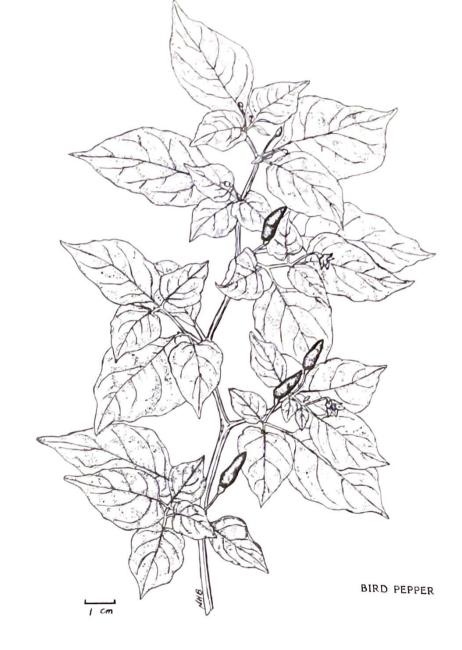
Bird Pepper leaves are used to make a tea which is taken for palpitation,

Wong (1976) states, "Leaf decoctions for asthma, cough, cold in chest consumption. Leaf poultice on boils. Fruits eaten for indigestion, in gargle for sore throat".

Biodynamic Notes

Capsaicinoids are the pungent principles in C. frutescens and are also powerful (Figure and Schmidt, 1980). skin irritants (Evans and Schmidt, 1980).

A related species of Capsicum contains anti-neoplastic agents, the Physaling (Matsuura et al., 1972). The leaf extracts gave positive alkaloidal tests.



Carica papaya

(CARICACEAE)

Unbranched or little branched soft-stemmed short-lived tree up to 5 m or little branched soft-stemmed dissected on long stalks on or little branched more high. Leaves large conspicuous scars on the long large large conspicuous scars on the long large conspicuous scars on the large conspicuous scars on the long large conspicuous scars on the large con Unbranched or little branched soft-stemmed dissected on long stalks m or sometimes more high. Leaves large and dissected on long stalks m or sometimes latterly caducous leaving large conspicuous scars on the trunk. Unbranched of little latterly and all parts of the plant exude a thick milky sap. The sometimes more caducous leaving large completed scales on the trunk. The arranged, latterly caducous leaving large exude a thick milky sap. The stems are hollow and all parts of the plant exude a thick milky sap. The stems are hollowers are borne on separate plants (very rarely some plant male arranged, lattern and all parts of the plants (very rarely some plants stems are hollow and all parts of the plants (very rarely some plants and female flowers are borne on separate plants flowers are produced on the hear bisexual flowers). The male flowers are produced on the hear bisexual flowers fragrant. The female flowers of the plants are stems are hollow are borne on separate plants are produced on long and female flowers are bisexual flowers). The male flowers are produced on long found which bear bisexual flowers are very fragrant. The female flowers are long together. They are very fragrant together. and female flowers in the sails of the leaves; they are larger, formed stalks several together. They are very few together in the axils of the leaves; they are larger. found which together. They are very together in the axils of the leaves; they are larger, borne stalks several together in the axils of the leaves; they are larger, borne solitary or very few together in size and shape; a common shape is ovoid or Fruits stalks several solutions stalks several solutions stalks several solutions solution or very few together in the assistance; a common shape is ovoid or Fruits (in different varieties) vary in size and shape; a common shape is ovoid or pear. (in different varieties) to the stigma-tip, but flask-shaped fruits narrow at the stigma-tip. solitary of varieties) vary in size and shape, but flask-shaped fruits narrow at the base shaped narrowed to the stigma-tip, but flask-shaped fruits narrow at the base stigma-tip. The flesh of the fruit is yellow or orange and the base shaped narrowed to the stigma-up, shaped narrowed narro have a pulpy coat.

Habitat and Distribution

Native of tropical America, now widespread in cultivation in warm countries.

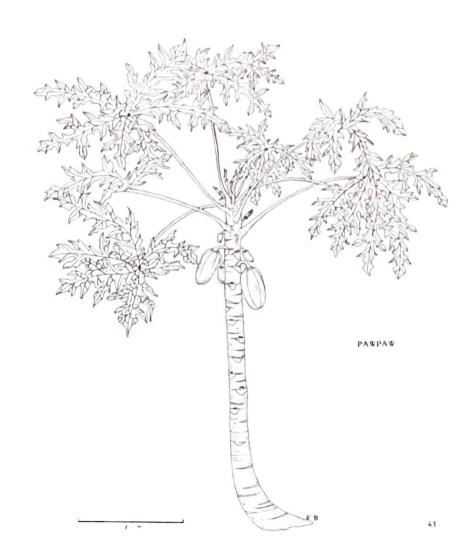
Medicinal Uses

The green Pawpaw fruit is cut and rubbed hard onto ringworm affected areas on The green Pawpaw truit is cut and green pawpaw fruit is boiled in water to make the skin until they bleed. Half a green pawpaw fruit is boiled in water to make the skin until they bleed. Figure 1 and this is taken to produce sterility in a strong decoction, salt is added, and this is taken to produce sterility in a strong decoction, salt is added, and mixed with Sour Orange juice women. The green or yellow fruit is crushed and mixed with Sour Orange juice and taken as required to treat high blood pressure.

Wong (1976) states, "Young fruit juice for bles, flu, hypertension. Decoctions Wong (1976) states, found plant for oliguria, venereal diseases, constipation, and infusions of root of male plant for osciplings. heat, flu, bles; used as rubs for scorpion stings".

Biodynamic Notes

All parts of the Pawpaw plant contain alkaloids such as Carpaine, which is amoebicidal, antibacterial and digitalis-like without any bad side-effects (Burdick, 1971; Boum, 1978).



(LEGUMINOSAE-CAESALPINIOIDEAE)

Description

Short-lived shrub up to 3.5 m high. Leaves pinnately compound with 6 leaflets, blunt at the tip, unequal at the base 12 cm long and 8 cm broad. Flowers Short-lived shrub up to 3.5 m night. Lead the tip, unequal at the base 12 pairs of broadly pairs of broadly to about 15 cm long and 8 cm broad. Flowers round the short-lived and oblong leaflets, plant and 8 cm broad. Flowers roundish terminal pair up to about 15 cm long and 8 cm broad. Flowers roundish to about 15 cm long and very showy. Pods 4-winged transversely racemes, golden-yellow and very showy. pairs of the pair up to about 1) cliff and very showy. Pods 4-winged to about 1) compact axillary racemes, golden-yellow and very showy. Pods 4-winged to about 1) cliff and the pair up to about 1) cliff and very shows. Pods 4-winged to about 1) cliff and the pair up to about 1) cliff and 1) cliff terminal particles of the state of the state

Habitat and Distribution

Locally common along streambanks and in swampy places; often cultivated, a Locally common along and the state of tropical America, now widespread in warm countries.

Medicinal Uses

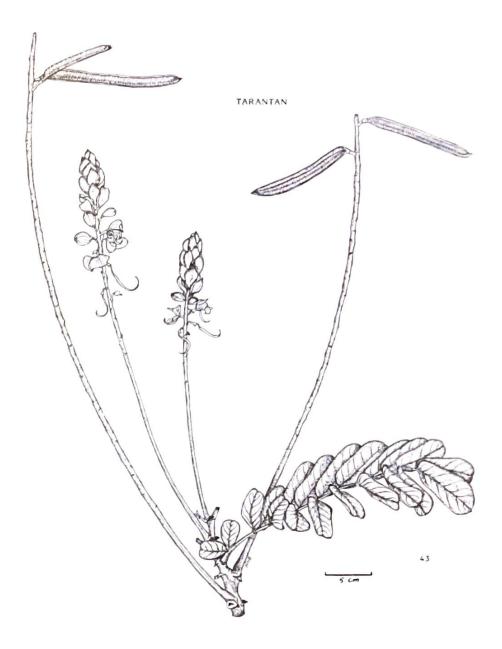
Rub leaves on the skin to treat "lohtah". As a cooling and to purify the blood Rub leaves on the skin to treat infusion with one litre of water and drink use a handful of leaves to make an infusion with one litre of water and drink required. The tea is also used for intestinal worms.

The older people of San Rafael village in Trinidad well remember the case of The older people of Sail Raiser The older people of Sail Raise Frenchman who had been a He migrated to East Trinidad in the early 1940's to live in French Guyana. He migrated to Harvested and sold it to the early 1940's to live in French Guyana. The Magnetic form of the live in Frenchman cultivated Tarantan and harvested and sold it to the various. The Frenchman Cultivated Tarantan and their environs. He left various This Frenchman cultivates, San Rafael and their environs. He left Trinidad to return to join the French armies serving in Europe in World War II.

Wong (1976) states, "Leaf juice rub for eczema, vitiligo. Leaf teas for wong (1770) states, diarrhoea, worms. Tea of flowers and leaves for constipation, as purgative".

Biodynamic Notes

The leaves and fruit of C. alata contain the purgative anthracene derivatives of Aloe emodin and Rhein (Rai, 1978; Smith and Ali, 1979).



Cassia occidentalis

BRUKA CAFE BOUCAT GRANNY COFFEE MAIOMAL COFFEE WILD COFFEE

(LEGUMINOSAE-CAESALPINIOIDEAE)

Description

Description

Erect shrubby herb 1-2 m high. Leaves compound with mostly 4-5 pairs of ovate

Erect shrubby herb 1-2 m high. Leaves compound with a narrow red ovate Erect shrubby herb 1-2 m high. Leaves on long, often with a narrow red margin to lanceolate leaflets up to about 10 cm long, often with a narrow red margin to lanceolate leaflets up to about 10 cm long, often with a narrow red margin to lanceolate of the dark oliver coloured. to lanceolate leaflets up to about 10 cm respect to lanceolate leaflets up to about 10 cm respect to lanceolate leaflets up to about 10 cm respect to lanceolate leaflets up to about 10 cm respect to lanceolate leaflets up to about 10 cm respect to lanceolate leaflets up to about 10 cm respect to lanceolate leaflets up to about 10 cm respect to lanceolate leaflets up to about 10 cm respect to lanceolate leaflets up to about 10 cm respect to lanceolate leaflets up to about 10 cm respect to lanceolate leaflets up to about 10 cm respect to lanceolate leaflets up to about 10 cm respect to lanceolate leaflets up to about 10 cm respect to lanceolate leaflets up to about 10 cm respect to lanceolate leaflets up to about 10 cm respect to lanceolate leaflets up to lanceola Flowers yellow. Pod linear rather town, broadly ovo with a smooth flat areole on each side, dark olive-coloured, about 4 mm long.

Habitat and Distribution

Common in waste places which may get very dry; commoner at low elevations particularly coastal. General in the subtropics and tropics.

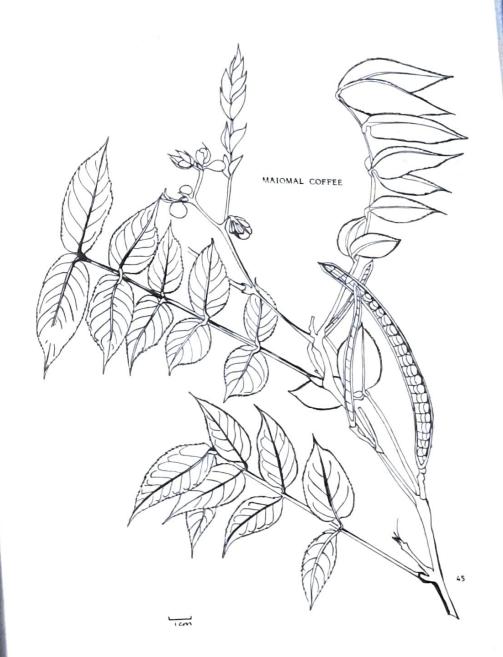
Medicinal Uses

For cleaning out the womb use a few handfuls of the roots of C. occidentalis to For cleaning out the womb use discontinuous three times a day. For painty each litre of water, and take one teacupful three times a day. For painty each litre of water, and take one teachers on C. occidentalis mixed with Bed menstruation take a tea thrice daily made from C. occidentalis mixed with Bed menstruation take a tea unite day menstruation take a tea unite day menstruation take a tea united with Bed Grass root (Vetiveria zizanioides), Zebafam (Ageratum conyzoides) and Pop Bush (Passiflora foetida).

Wong (1976) states "Root decoctions of (this plant) and infusions for womb Wong (1976) states Room to the state of the for palpitation colds, congestive heart failure".

Biodynamic Notes

Most Cassia species have been established as cathartic, and may even be insecticidal, antimicrobial or poisonous to livestock (Morton, 1981).



OLD MAID PERIWINKLE

(Syns. Lochnera rosea, Vinca rosea)

(APOCYNACEAE)

Erect or bushy straggling herb up to about 80 cm high. Leaves opposite in pairs, Erect or bushy straggling herb up to about 3 cm broad. Flowers solitary or in oblong-elliptical, 2 - 7 cm long, up to about 3 cm broad Flowers solitary or in oblong-elliptical, 2 - 7 cm long, up to about 3 cm broad Flowers solitary or in oblong-elliptical, 2 - 7 cm long, up to about 3 cm broad Flowers corollary or in oblong elliptical, 2 - 7 cm long, up to about 3 cm broad Flowers opposite in pairs, oblong-elliptical, 2 - 7 cm long, up to about 5 cm long, rlowers solitary or in small clusters. Corolla with a narrow straight tube expanded immediately below small clusters. Limb flat of 5 obovate lobes about 2 cm long; pink with a release oblong-empty. Corolla with a narrow straight tube expanded immediately below small clusters. Corolla with a narrow straight tube expanded immediately below the limb; the limb flat of 5 obovate lobes about 2 cm long; pink with a crimson the limb; the limb flat of 5 obovate lobes about 2 cm long; pink with a crimson eye; white with a yellow eye. Follicles 1.5 - 3.5 cm eye; white with a crimson eye; white with a very corollar with a crimson eye; white with a yellow eye. long, cylindrical.

Habitat and Distribution

Widespread near habitations in the subtropics and tropics of both hemispheres. Originally described from Madagascar.

Medicinal Uses

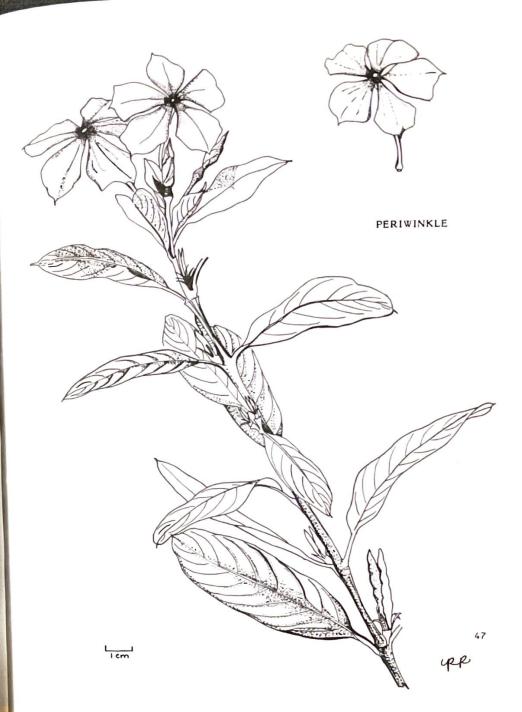
The tea made from this herb is very popular for both diabetes and blood The tea made from the blood sugar level levels in the urine without affecting the blood-sugar level.

Wong (1976) states, "Tea of white flowers and leaves for diabetes. Leaf infusion for oliguria. Root infused in whiskey for diabetes".

Biodynamic Notes

Its extractives were found to be anti-cancer in activity quite by chance by researchers studying the plant for antidiabetic action. Two major alkaloids. Vincristine and Vincaleukoblastine are now extracted from the plant for use in modern treatment of certain types of cancer.

For this purpose the plant is cultivated on a large scale for commercial exploitation in many parts of the world (Taylor and Farnsworth, 1975).



Cecropia peltata

BOIS CANO BWA CANO TRUMPET TREE

(MORACEAE)

Description

Tree up to about 20 m high, the hollow branches long-spreading and ascending. Tree up to about 20 m high, the blades with up to 11 lobes, divided to Leaves rather large on long stalks, the blades with up to 11 lobes, divided to Leaves rather large on long stakes, the blueath. Male spikes 3 - 5 cm long in about halfway, strongly veined, whitish beneath. Male spikes 3 - 5 cm long in clusters of 2 - 6. in fruit.

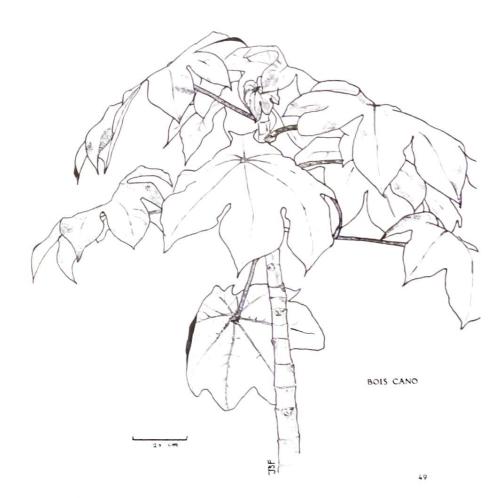
Habitat and Distribution

The characteristic adventive of recently cleared forest in most sufficiently rainy The characteristic adventive of distribution are unclear because of taxonomic parts of the region. The limits of distribution are unclear because of taxonomic parts of the region. The minute of closely related variants.

Medicinal Uses

Dry leaves of Bois cano, Black Sage (Cordia curassavica) and Tomato leaves Dry leaves of both care, are made into a tea or syrup and taken for colds and Coughs. The dry Bois Cano leaves are also made into a tea to treat hypertension.

Wong (1976) states, "Dry leaf decoctions for cough, flu, fever. Juice of bark and root for snake-bites, scorpion-stings".



SEME CONTRA SIMEN CONTRA WORM GRASS

(CHENOPODIACEAE)

Description

Bushy taprooted herb up to over 1 m high, although usually smaller. The plant Bushy taprooted herb up to over the roots are strongly pungent. The plant has a strong garliclike smell and the roots are strongly pungent. The lower has a strong garliclike smell and the lower leaves are sinuate-margined, usually about 5 - 8 cm long and 1 - 2 cm broad leaves are sinuate-margined, maller and entire. The flowers are very small and are leaves are sinuate-margined, usually about 1 2 cm broad, the upper are much smaller and entire. The flowers are very small and greenish the upper are much smaller and entire. or yellowish in clusters in elongated terminal inflorescences.

Habitat and Distribution

Often cultivated in yards and around habitations, sometimes escaping on to Often cultivated in yalds all near water. Widespread in warm countries, nearby waste ground especially near water.

Medicinal Uses

A teacup on an infusion of 50 g plant in water is a remedy for the treatment of A teacup on an infusion of the followed with a purgative. Often intestinal worms in children. This must be followed with a purgative. Often something sweet is taken to "stimulate" the worms prior to taking a decoction of Worm Grass mixed with Garlic (Allium sativum) and Pursley (Portulaca oleracea).

Wong (1976) states, "Herb teas and infusions for intestinal worms, fatigue, indigestion, palpitation, dyspnoea, dysentery, asthma, in postpartum depurants. Poultice of herb for sores".

Biodynamic Notes

Ascaridole is the oily constituent of this plant responsible for its anthelmintic properties (de Pascula et al., 1981); and it is a characteristic for plants of the family Chenopodiaceae



Citrus aurantifolia

(RUTACEAE)

A rather small tree branching low and continuously replacing the leaf and fruit.

A rather small tree branching low and continuously replacing the leaf and fruit. A rather small tree branching low and continuous, replacing the leaf and fruit-bearing twigs; very spiny. Leaves elliptical, mostly 4 - 7 cm long and 2 - 4 cm bearing twigs; very spiny. Leaves elliptical and articulated to the blade, dark A rather shial twigs; very spiny. Leaves elliptical, mostly the blade, dark bearing twigs; very spiny. Leaves elliptical, mostly the blade, dark broad, the petiole narrowly winged and articulated to the blade, dark broad, the petiole narrowly aromatic. Flowers in short axillary racemes, when the petiole sharply aromatic. bearing twigs, the petiole narrowly winged and articulated to the brade, dark broad, the petiole narrowly aromatic. Flowers in short axillary racemes, white, somewhat leathery, sharply aromatic about 5 cm long, ripening yellow with broad, the property, sharply aromatic. Flowers in short axiliary racemes, white, somewhat leathery, sharply aromatic. Fruit subspherical, up to about 5 cm long, ripening yellow with a fragrant. Fruit subspherical, up to about 5 cm long, ripening yellow with a greenish very acid pulp.

Habitat and Distribution

There are many varieties. All are in cultivation although occasionally plants may There are many varieties. All ale in abandoned farms. Plants may grow up as escapes or be present as relicts in abandoned farms. Native of tropical Asia, very prevalent in the West Indies.

Medicinal Uses

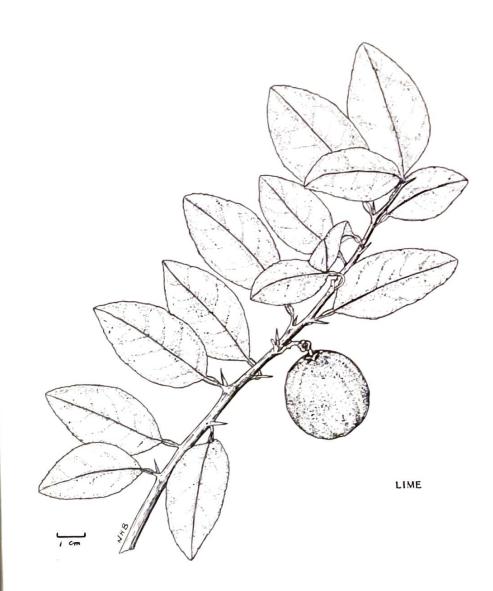
Lime bud tea is used for gripe in babies. Half of a roasted green lime is applied Lime bud tea is used for ground itch. Black coffee plus Lime juice is drunk for with salt to the skin for ground itch. arthritis.

Wong (1976) states, "Fruit juice for heat, flu, sore throat, fever, worms, Wong (1976) states, dysemenorrhoea; as rub for erysipelas, thrush, pneumonia, cystitis, rheumatism, dysemenorrhoea; for veneral discounting for venera cystitis, rheumatism, dysellicinent. Root infusion for venereal diseases, scorpion-sores, toothache, bewitchment. Root infusion for venereal diseases, scorpionsting. Lime bud tea for empacho and insomnia".

Biodynamic Notes

The Citrus species have been quite well analyzed for vitamin C and other constituents (Watt and Breyer-Brandwijk, 1962).

Orange peel oil is very popular for stomach pains and upsets (Morton, 1981). Even in whole oranges contamination is known to occur which produces Mycotoxins on the outer surface of the fruits (Stinson et al., 1981). Such mycotoxins are described as the greatest health hazards due to chemicals in the rural and agricultural environment (Schlatter, 1980).



Cocos nucifera

(PALMAE)

Description

A slender-trunked palm up to 20 or even sometimes 30 m high. The trunk

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A slender-trunked palm up to 20 or even sometimes and the trunked palm up to 20 or even sometimes and the trunked palm up to 20 or even A slender-trunked palm up to 20 of cred; it is always unbranched. The trunk from a swollen base and is often curved; it is always unbranched. The from a swollen base and bear all their leaflets in the same plane; The forescences are axillary and bear plane; A slender-trunked and is often currently distributed. The from a swollen base and bear all their leaflets in the same plane; the leaflets in the same plane; t from a swollen acrown and bear all the are axillary and bear the separate are pinnate in a crown and bear and the numerous male flowers are reduplicately folded. Inflorescences and the numerous male flowers at the bases of the branches and contain one large and the bases and contain one large. are pinnate in a solded. Inflorescences and the numerous male flowers at the bases of the branches and the numerous male flowers at the bases of or so long, and contain one large seed. flowers at the bases of the branches and contain one large seed.

Habitat and Distribution

Habitat and Discussions near the sea - perhaps the most important of Common, mostly in plantations near the sea - perhaps the most important of Common, mostly in plantations near the sea - perhaps the most important of Common, mostly in plantations are west indies and when left unattended to the most important of the common perhaps t Common, mostly in plantations little in the Common, mostly in plantations little in the Common mostly in plantations little in the Common mostly in plantations little in the Common, mostly in plantations little in the Common little in the palms economically. Origin uncertainty palms economically. Origin uncertainty palms economically in the West Indies and when left unattended dies out

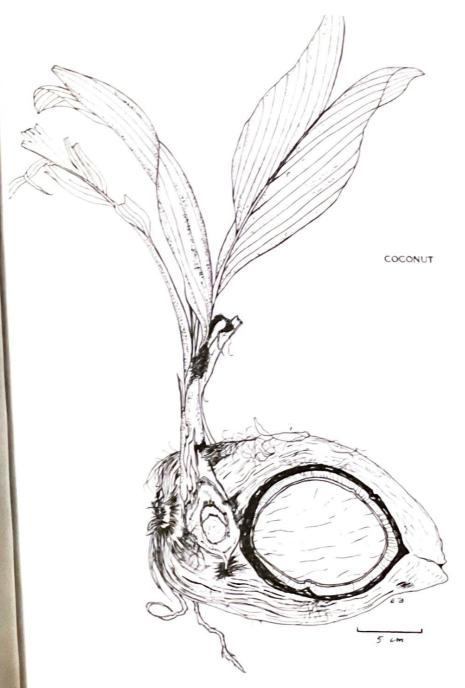
Medical Uses

Coconut root and husk and Roukou root (Bixa orellana) are used to make a coconut root and husk and Roukou root (Bixa orellana) are used to make a coconut root and husk and Roukou root (Bixa orellana) are used to make a coconut root and husk and Roukou root (Bixa orellana) are used to make a coconut root and husk and Roukou root (Bixa orellana) are used to make a coconut root and husk and Roukou root (Bixa orellana) are used to make a coconut root and husk and Roukou root (Bixa orellana) are used to make a coconut root and husk and Roukou root (Bixa orellana) are used to make a coconut root and husk and Roukou root (Bixa orellana) are used to make a coconut root and husk and Roukou root (Bixa orellana) are used to make a coconut root and husk and Roukou root (Bixa orellana) are used to make a coconut root and husk and Roukou root (Bixa orellana) are used to make a coconut root and husk and Roukou root (Bixa orellana) are used to make a coconut root and husk and Roukou root (Bixa orellana) are used to make a coconut root and husk and Roukou root (Bixa orellana) are used to make a coconut root and husk and Roukou root (Bixa orellana) are used to make a coconut root and husk and Roukou root (Bixa orellana) are used to make a coconut root and husk and Roukou root (Bixa orellana) are used to make a coconut root and husk and root and husk and root are used to coconut root and husk and root are used to coconut root and husk and root are used to coconut root and husk and root are used to coconut root and husk and root are used to coconut root and husk and root are used to coconut root and husk and root are used to coconut root Coconut root and husk and Round rubifacient. The roots of Coconut for amenorrhoea. Coconut oil is a popular rubifacient. The roots of Coconut for amenorrhoea hirta) and Pigeon Pea (Cajanus cajan) are boiled for amenorrhoea. Coconut on Pigeon Pea (Cajanus cajan) are boiled and Malomay (Euphorbia hirta) and Pigeon Pea stalk attached to the Coconum Malomay drunk for venereal disease. The stalk attached to the Coconum Malomay Malomay (Euphorbia hirta) and ligease. The stalk attached to the Coconut light decoction is drunk for venereal disease. The stalk attached to the Coconut light decoction is drunk for venereal disease. The stalk attached to the Coconut light decoction is characteristic and tooth brush, usually described as DATWAN decoction is drunk for venereal discussions, usually described as DATWAN. Also is used as a chewstick and tooth brush, usually described as DATWAN. Also is used as a chewstick and tooth brush, usually described as DATWAN. Also is used as a chewstick and tooth brush, usually described as DATWAN. Also is used as a chewstick and tooth brush, usually described as DATWAN. is used as a chewstick and tooth broad, lime root (Citrus aurantifolia) combined saps from the crushed coconut root, lime root (Citrus aurantifolia) combined saps from the crushed coconut root, lime root (Panicum maximum) are placed into the cavity combined saps from the Crushed maximum) are placed into the cavity in Guinea Grass root (Panicum maximum) are placed into the cavity in a combined saps from the crushed maximum are placed into the cavity in the combined saps from the crushed maximum are placed into the cavity in the crushed maximum are placed into the cavity in the crushed maximum are placed into the cavity in the crushed maximum are placed into the cavity in the crushed maximum are placed into the cavity in the crushed maximum are placed into the cavity in the crushed maximum are placed into the cavity in the crushed maximum are placed into the cavity in the crushed maximum are placed into the cavity in the cavi Guinea Grass root (Lances) as a gargle for the same purpose.

Wong (1979) states, "Root teas for heat, venereal disease, amenorrhoea, mous Wong (1979) states, Root teach poultice for erysipelas. Oil rub for rash, low wash for toothache. Coconut flesh poultice for erysipelas. Oil rub for rash, low wash for toothache. wash for toothache. Coconut wash for toothache. Coconut wash flu. Husk teas for dysmenorrhoea, amenorrhoea, menorrhagia. Coconut washildren with jaundice". and coffee to children with jaundice".

Biodynamic Notes

No harmful constituents in Coconut (Perry and Metzger, 1980).



(RHAMNACEAE)

Description

Description

Tree up to 13 m high, usually much smaller. Leaves ovate-lanceolate to obline

Tree up to 13 m high, usually much smaller. Leaves ovate-lanceolate to obline

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Tree up to 13 m high, usually much smaller. Leaves ovate-l Tree up to 13 m high, usually much smaller, rusty-woolly tomentose beneath, up to about 12 cm long and 6 cm broad, rusty-woolly tomentose beneath, up to about 12 cm long and 6 cm broad, rusty-woolly tomentose beneath, up to about 12 cm long and 6 cm broad, rusty-woolly tomentose beneath, at the country to about 12 cm long and 6 cm broad, rusty-woolly tomentose beneath, at the country to about 12 cm long and 6 cm broad, rusty-woolly tomentose beneath, at the country to about 12 cm long and 6 cm broad, rusty-woolly tomentose beneath, and the country to about 12 cm long and 6 cm broad, rusty-woolly tomentose beneath, and the country to about 12 cm long and 6 cm broad, rusty-woolly tomentose beneath, and the country to about 12 cm long and 6 cm broad, rusty-woolly tomentose beneath, and the country to about 12 cm long and 6 cm broad, rusty-woolly tomentose beneath, and the country to about 12 cm long and 6 cm broad, rusty-woolly tomentose beneath, and the country to about 12 cm long and 6 cm broad, rusty-woolly tomentose beneath, and the country to about 12 cm long and 6 cm broad, rusty-woolly tomentose beneath, and the country to about 12 cm long and 6 cm broad, rusty-woolly tomentose beneath the country to about 12 cm long and 6 cm broad, rusty-woolly tomentose beneath the country to about 12 cm long and 6 cm broad, rusty-woolly tomentose beneath the country to about 12 cm long and 6 cm broad, rusty-woolly tomentose beneath the country to a country to Tree up to about 12 cm long and 6 cm long black seeds.

Habitat and Distribution

In natural thickets and low woodlands on rocky terrain in the drier island.

One of the drier island. In natural unickets and West Indies south to Barbados. Florida, Central America and West Indies south to Barbados.

Medicinal Uses

The unsweetened beverage made from the bark of this plant is taken to treat The unsweetened beverage made from traded in small bundles across the treat diabetes. Pieces of Mauby bark are traded in small bundles across the treat diabetes. Pieces and are imported into Trinidad and Tobago to make a small bundles across the treat diabetes. diabetes. Pieces of Mauby bark are imported into Trinidad and Tobago to make a diluted Indian islands, and are imported into Trinidad and Tobago to make a diluted decoction taken as a cooling drink.

Biodynamic Notes

Colubrina faralaotra contains isoquinoline alkaloids (Guinaudeau et al., 1976). but C. arborescens does not.

Sister species C. asiatica contains a hypotensive and spasmolytic essential oil (Kar et al., 1970).

Footnote

Colubrina elliptica (Syn. C. reclinata) is a related species with less tomentose leaves and the capsule less enveloped in the persistent calyx. It has a closely similar distribution and ecological preference.



Cordia curassavica

(BORAGINACEAE)

Shrub or small tree with rough dark brown bark and aromatic foliage, up to 25 cm long and 10 cm about 5 m high. Leaves lanceolate or elliptical, up to 25 cm long and 10 cm about 5 m high. Leaves smaller, the margin somewhat toothed shallowly broad but usually much smaller, stalked. Inflorescences spicate, 15 cm mostly broad at both ends and shortly stalked, white, the corollar shortly firm or mostly the corollar shortly shortly shortly the corollar shortly short about 3 m mg... about 3 m much smaller, the margin somewnat toothed shallowly broad but usually much smaller, stalked. Inflorescences spicate, 15 cm or mostly pointed at both ends and shortly small, white, the corollas shortly funnel-shaped long, usually drooping. Flowers small, white, the corollas shortly funnel-shaped Fruit (drupe) small, ripening red and protruding from the cuplike calyx.

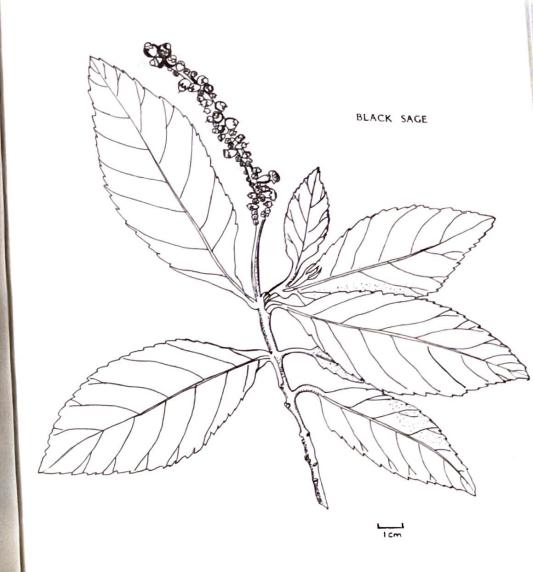
Habitat and Distribution

Native of Central and North South America and the southern Caribbean, usually limited and mainly inhabited areas or lastro (ruinate). Native of Central and Hollar solution of Central and mainly inhabited areas or lastro (ruinate).

Medicinal Uses

Leaf teas are taken for colds and fevers.

Wong (1976) states, "Decoctions of fresh or old leaves for colds, flu, fever, cough. Leaf juice for malarial fever". wong (17/0) states, pneumonia, insomnia, cough. Leaf juice for malarial fever".



Crescentia cujete

(BIGNONIACEAE)

Description

A tree with numerous low spreading branches, rarely as much as 10 m high, and the older branches high, the older branches high, the old wood in clusters the old wood in clusters. A tree with numerous low spreading blad shoots along the older branches, high.

Leaves oblanceolate in clusters on reduced shoots along the older branches, up to broad. Flowers borne on the old wood in clusters, up to long and 6 cm broad. Flowers borne on the old wood in clusters; A tree with numerous clusters on reduced shoots the old wood in clusters, high.

Leaves oblanceolate in clusters borne on the old wood in clusters, up to

20 cm long and 6 cm broad. Flowers borne on the old wood in clusters; up to

20 cm long, deeply split; corolla broadly campanulate with an irresult Leaves oblanceolate in broad. Flowers borne on the old wood in clusters; up to 20 cm long and 6 cm broad. Flowers broadly campanulate with an irregular about 2 cm long, deeply split; corolla broadly campanulate with an irregular about 2 cm long, greenish-white to greenish-yellow with brownish brownish foul-scented. Fruit hard, unilocular, smooth, green, spherical, up to the old wood in clusters; up to 20 cm long and 6 cm broad. Flowers borne oil wood in clusters; up to 20 cm long and 6 cm broad. Flowers borne oil wood in clusters; up to 20 cm long and 6 cm broad. Flowers borne oil wood in clusters; up to 20 cm long and 6 cm broad. Flowers borne oil wood in clusters; up to 20 cm long and 6 cm broad. Flowers borne oil wood in clusters; up to 20 cm long and 6 cm broad. Flowers broadly campanulate with an irregular about 2 cm long, greenish-white to greenish-yellow with brownish brownish foul-scented. Fruit hard, unilocular, smooth, green, spherical, up to 20 cm long and 6 cm broad. about 25 cm in diameter.

Habitat and Distribution

Widespread in the tropics, frequently in semi-cultivation.

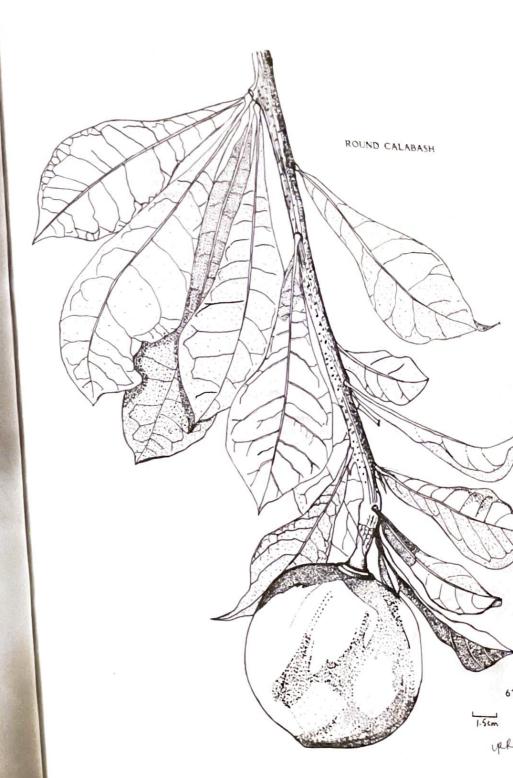
Medicinal Uses

Round Calabash leaves (three leaves) in a decoction of water (one cup) is taken Round Calabash leaves (three leaves). The inner bark of the Calabash tree is squeezed, and the juice is used to treat bruises in the eye.

Wong (1976) states, "Loch of fruit flesh for cold in chest. Leaf teas for palpitation, hypertension, flu, pneumonia".

Biodynamic Notes

Calabash leaf extracts gave negative tests for antibiotic activity (Watt and Breyer-Brandwijk, 1962).



Croton conduplicatus

(EUPHORBIACEAE)

Description

A shrub with rather slender branches up to about 3 m high. Leaves ovate, 4 shrub with rather slender broad, on slender petioles up to 3 cm long, with and 2 = 4.5 cm broad, on this plant is covered long, with the same and 2 = 4.5 cm broad, on the parts of this plant is covered. A shrub with rather slender branches up to about 7 in lugit. Leaves ovate, 4 - 9 cm long and 2 - 4.5 cm broad, on slender petioles up to 3 cm long, without cm long and 2 - 4.5 cm broad, parts of this plant is covered with a minute bairs. Inflorescences terminal, racemost a minute bairs. A shrub with rather state broad, on stender pertones up to 3 cm long, without cm long and 2 - 4.5 cm broad, on stender pertones up to 3 cm long, without cm long and 2 - 4.5 cm broad, on stender pertones up to 3 cm long, without cm long and 2 - 4.5 cm broad, on stender pertones up to 3 cm long, without cm long and 2 - 4.5 cm broad, on stender pertones up to 3 cm long, without cm glands. The whole of the younger parts of the plant is covered with a mealy glands. The whole stellate hairs. Inflorescences terminal, racemose of clusters overing of minute stellate flowers nearer the tip and solitary shorter-stalked flowers nearer that the stellate flowers nearer than the stell glands. The whole stellate hairs. Inflorescences terminal, racemose of mealy clusters of minute stellate hairs in the tip and solitary shorter-stalked female of longer-stalked male flowers nearer the tip and solitary shorter-stalked female of longer-stalked male flowers about 5 mm long. Seeds three, about 3 covering of minute covering of minute of longer-stalked male flowers nearer the tip and solitary shorter-stalked female of longer-stalked male flowers about 5 mm long. Seeds three, about 3 mm flowers towards the base. Capsules about 5 mm long. long -

Habitat and Distribution Habitat and Venezuela, the Dutch West Indies (southern group), Patos and A rare plant of Venezuela, Probably known on the main island of Triniand A rare plant of Venezuela, the Dutch west indies (Southern group), Patos and the Bocas Islands of Trinidad. Probably known on the main island of Trinidad the Bocas Islands of Trinidad as a medicinal plant. It has been misnamed as Conditional plants are the south of A rare plants of Trinidad. Probably Ribert St. the main Island of Trinidad the Bocas Islands of Trinidad as Croton only in cultivation as a medicinal plant. It has been misnamed as Croton only in cultivation species known only from Jamaica. only in cultivation as a medical plant. It has t flavens, a different species known only from Jamaica.

Medicinal Uses

Warm one green leaf and one yellow leaf and squeeze juices into the ear for earache. Then use the plant residue as an earplug.

Under Croton flavens, Wong (1976) describes the uses of this plant also as Under Croton flavens, wong (1777) and the solution of the plant also as "Rubbed on belly for postpartum pain. In teas for sore throat and pneumonia".



Cuscuta americana

(CONVOLVULACEAE)

Description

Leafless twiner with yellow or orange smooth glabrous stems up to 2 mm thick in thick in thick in the condition on herbs, shrubs and low trees. Flowers tightly clustered in thick in the condition of the condition o Leafless twiner with yellow or orange sillowers. Flowers tightly clustered in cymose parasitic on herbs, shrubs and low trees. Flowers tightly clustered in cymose rounded in outline, about 3 mm wide; corolla greenish or cymose rounded in outline, middle. 1-2 seeded. Leafless twiller by shrubs and low trees, mm wide; corolla greenish or cymose inflorescences, rounded in outline, about 3 mm wide; corolla greenish or cymose inflorescences, rounded in around the middle, 1-2 seeded. Seeds about 1.5 parasitic on heros, rounded in outline, about 1.2 seeded. Seeds about 1.5 mm long.

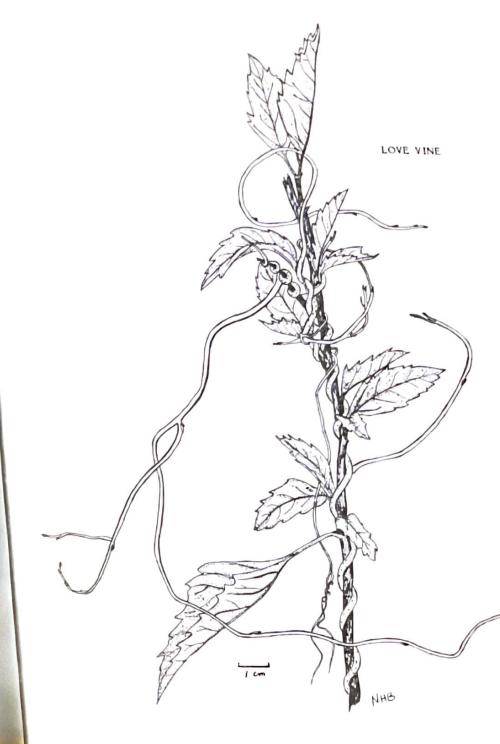
Habitat and Distribution

Common, especially on ornamental 'Croton' and Hibiscus bushes, throughout tropical and southern subtropical America.

Medicinal Uses

As a "cooling", the recipe consists of two handfuls of Love Vine to about one As a "cooling", the recipe consists decoction which is taken as required, it is taken as required, For litre of boiling water to make a decoration with a required. For jaundice, a strong decoction is taken made from yellow Moka (Musa sp.), a for this (Courthita pepo). Lash root (Agave sp.) and Love piece of pumpkin (Cucurbita pepo), Lash root (Agave sp.) and Love Vine. piece of pumpkin (Cucurita peper) Patients are usually advised not to eat curry or other "greasy" foods when taking this tea.

Wong (1976) states, "Plant decoctions (of Love Vine) are baths for marasmus. Infusion drunk for jaundice".



Cymbopogan citratus (Syn.Andropogon citratus)

FEVER GRASS LEMON GRASS

(GRAMINEAE)

Description

A densely tufted perennial grass with leaf-blades tapered to both ends up to 1 m long and 5 - 15 mm broad. The flowering panicles are rarely formed; long and 5 - 30 to 60 cm long and nodding, the partial inflorescences are inflorescences are spikelets subtended by spathes.

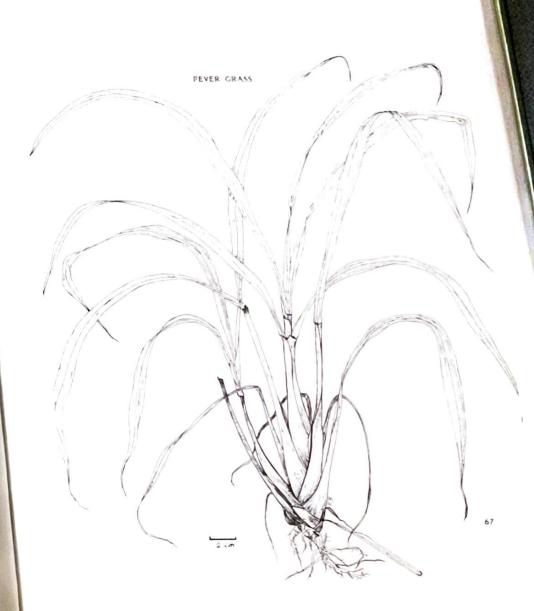
Habitat and Distributed in gardens and along pathsides. Probably originated in frequently cultivated in the tropics. India, now widespread in the tropics.

Alone or mixed with Carpenter Grass (Justicia pectoralis), Black Sage (Cordia Alone or Mixed Pavee (Capraria biflora), Shado Beni (Eryngium Jostan Pavee) Alone or mixed with Carpenter Grass (Justicia pecchials), Black Sage (Cordia curassavica), Ditay Payee (Capraria biflora), Shado Beni (Eryngium foetidum), Curassavica), (Lippia alba) and Tansy (Ambrosia cumanensis), Lernon Cordia curassavica), Ditay Payee (Capraria Dilicia), Santa maria (Lippia alba) and Tansy (Ambrosia cumanensis), Lemon Grass is used in a decoction to treat fevers and colds.

Wong (1976) states, "Grass and rhizome teas (of Fever Grass) for colds, flu, Wong (1976) states, "Grass and Intzonic to Cough, consumption of Colds, flu, fever, pneumonia, malarial fever; in lochs for cough, consumption. Rhizome infusion is mouthwash for pyorrhea".

Biodynamic Notes

Fever Grass yields a volatile oil used commercially in perfumery trade (Perry and Metzger, 1980; Morton, 1981).



Eclipta alba

(COMPOSITAE)

Description

Herb of variable habit, either decumbent and trailing or erect and bushilly Herb of variable habit, either declare, elliptic-lanceolate, often serrulate branched. Leaves opposite in pairs, sessile, elliptic-lanceolate, often serrulate branched. Leaves opposite in pairs, sessile, elliptic-lanceolate, often serrulate branched. Leaves opposite in pairs, sessile, elliptic-lanceolate, often serrulate. branched. Leaves opposite in pairs, sad, rough on both surfaces. Flower-heads up to about 8 cm long and 2 cm broad, rough on both surfaces. Flower-heads up to about 1 cm across. The involucial heads up to about 8 cm long and 2 cm bload, to about 1 cm across. The involucral bracks usually solitary on long stalks, up to about 1 cm across. The involucral bracks usually solitary on long stalks, up to about 1 cm across. The involucral bracks usually solitary on long stalks, up to about 1 cm across. The involucral bracks usually solitary on long stalks, up to are white, numerous, with linear ligules, are leafy, the outer (ray) florets are white, numerous, with linear ligules. are learly, disc could have a summer out and a summer out a summer out

Habitat and Distribution

Common in wet places. General in the subtropics and tropics.

Medicinal Uses

For athlete's foot, wash the area with an aqueous decoction of Congolala containing a little pot salt.

Wong (1976) states, "Bush teas for marasmus, cough, whooping cough. In baths for marasmus".

Biodynamic Notes

Extracts of this plant have been used against carbon tetrachloride-induced liver damage. (Khim and Nyum, 1978). Biochemical studies are continuing (Morton, 1981).



Eleusine indica

DUTCH GRASS FOWL-FOOT GRASS PAYAPUL PIE PUL PIED POULE

(GRAMINEAE)

Description

A tufted grass with erect and spreading culms up to about 30 cm or more long to the follower. The culms are very tough and are usually smooth and dark green. The inflower. The culms are very tough smostly 2 - 5 radiating from the apex of the leaves are strongly keeled. Spikes mostly 2 - 17 cm long, the spikelets leaves are sometimes with one slightly below, 4 - 17 cm long, the spikelets in peduncle, sometimes with one slightly below. Spikelets ovate, 2 - 6 flowered.

Very common in trampled and mown places, a weedy grass of mostly non-arable sites. In all warm countries.

To clean the bladder an infusion of this plant is taken for nine consecutive days.

To clean the bladder an infusion of this plant is taken for nine consecutive days.

To clean the bladder an infusion of this plant is taken for nine consecutive days. To clean the bladder an infusion of this plant is taken for hine consecutive days.

A strong drink made from Pie Pul root, Mang Bush (Flemingla strobilifera), Bamboo leaves (Bambusa vulgaris) and Soursop leaves (Annona strobilifera) is taken every two days for arthritis. muricata) is taken every two days for arthritis.

Wong (1976) states, "Grass and root decoctions for cystitis, heat, pneumonia"

Biodynamic Notes

In Africa and Australia this plant has produced nitrate and cyanide toxicities (Watt and Breyer-Brandwijk, 1962).



Eleutherine bulbosa

(IRIDACEAE)

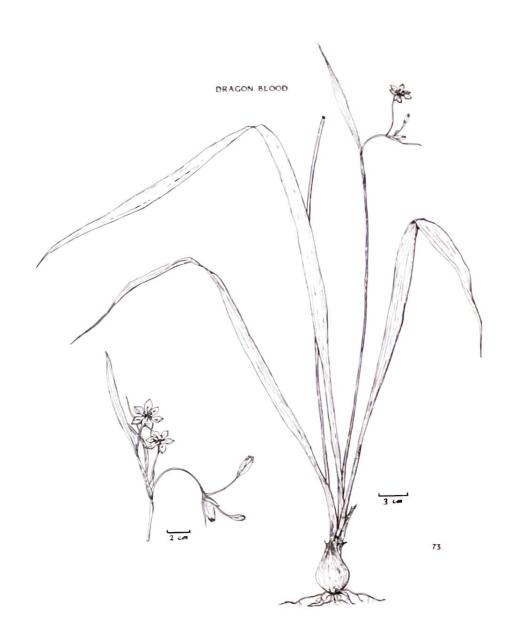
An herb growing from a bulb having bright red shiny scale-leaves. Foliage of An herb growing from a bulb having bright red sniny scale-leaves. Foliage of green leaves plaited with distinct lateral longitudinal veins, up to about 4 cm green leaves plaited with distinct lateral longitudinal veins, up to about 4 cm broad. In flower about 60 cm or more high, the white flowers about 2 cm open in the evening. Capsule enclosed in a stratageous bract. spathaceous bract.

Origin uncertain, mostly cultivated but naturalised in some of the Caribbean islands. Also in the Old World tropics.

A tea is made from the corms and taken for menstrual pains.

Biodynamic Notes

Naphthoquinones of unknown biodynamic activity have been obtained from this Naphthoquinones of unknown biodynamic activity have been obtained from this plant (Schmid and Ebnother, 1951; Farnsworth, 1975). Ethanolic extracts of this plant are abortifacient (Weniger et al., 1980).



MAYOC CHAPELLE

Entada polystachya (LEGUMINOSAE-MIMOSOIDEAE)

High-climbing unarmed woody vine with bipinnate leaves, sometimes developing High-climbing unarmed woody vine with opinines leaders, sometimes developing tendrils from the terminal pinnae. Pinnae 2 - 6 pairs. Leaflets 6 -8 pairs, the cm long and 1 - 2 cm broad. Inflorescence tendrils from the terminal pinnae. Pililae 2 - 6 pairs. Lealiets 6 -8 pairs, oblong, mostly 2 - 4 cm long and 1 - 2 cm broad. Inflorescence with many spikelike branches bearing numerous minute cream-coloured strong-scented spikelike branches bearing numerous spikelike branches br flowers. Fruit a flat pod up to 25 cm line roug and about 6 cm broad, comprising thin rectangular windborne segments, each containing one seed and separating from the marginal frame.

Habitat and Distribution

In thickets at low elevations, mainly along rocky shores. Tropical continental In thickets at low elevations, mathy Lesser Antillean islands from Guadeloupe southwards; Trinidad and Tobago.

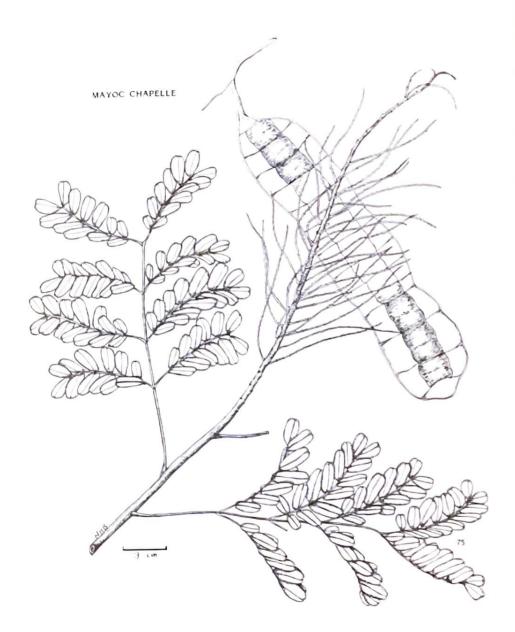
Medicinal Uses

Scrapings from the stem of Mayoc Chapelle are soaked in water and the infusion is taken for veneral disease.

Wong (1976) states, "Root decoctions and infusions for heat and venereal diseases".

Biodynamic Notes

"Entada polystachia" has been described as being poisonous to cattle (Lewis and Lewis, 1977).



FIT WEED SHADO BENI

Eryngium foetidum

(UMBELLIFERAE)

Description

Taprooted biennial pungently scented herb. Older leaves in a basal rosette, Taprooted biennial pungently scented nerb. Order leaves in a basal rosette, oblanceolate, serrate-dentate, up to 30 cm long and 4 cm broad. Flowering shoot divaricately branched, bearing more deeply toothed leaves. Flower-heads cylindrical subtended by a whorl of 5 - 6 unequal bracts resembling the upper leaves.

Habitat and Distribution

Locally common along damp or shaded tracks and near cultivations especially on Locally common along continental tropical America and the West Indies.

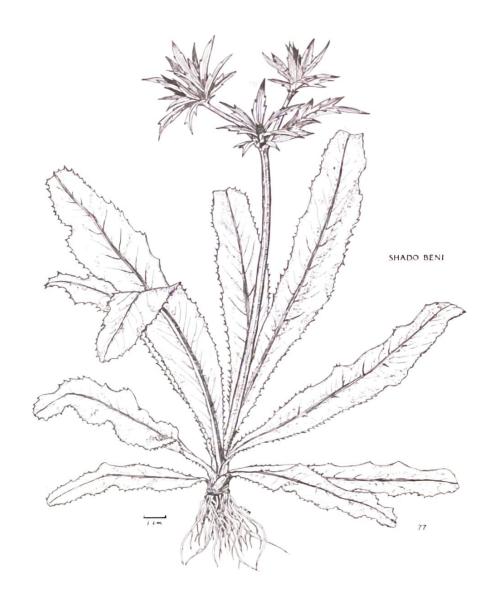
Medicinal Uses

Leaf decoction is taken for colds and in cases of pneumonia. (Plant tops, especially the leaves are a very popular spice for meat dishes).

Wong (1976) states, "Leaf teas for fever, flu, diabetes. Leaf baths for cough, Wong (1976) states, beats for fever, flu, pneumonia. Root decoctions for heat; urinary infusion baths for fever, constination leftures for fever constination. heat; urinary intusion batton, malarial fever, constipation. Infusion of root in rum and vermouth for bles, worms".

Biodynamic Notes

The above-ground plant parts are described as quite nutritious (Morton, 1981).



(COMPOSITAE)

Description

Eupatorium macrophyllum is a shrub up to about 2 m high with velvety strongly striate stems. Leaves opposite in pairs, broadly ovate, cordate at base, acute or broadly acuminate at tip, three-nerved, irregularly crenate, up to about 20 cm long. Flower-heads numerous, crowded in rounded compact panicles. Involucre about 5 mm long, the bracts closely imbricate in about six series. Florets up to 50, whitish. Achenes a little over 1 mm long.

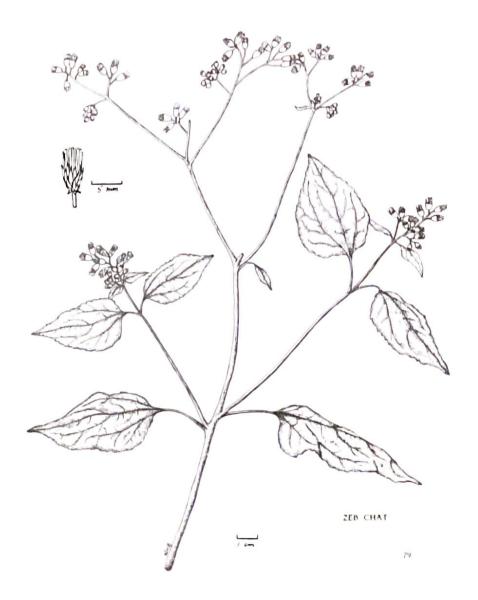
Habitat and Distribution

Generally distributed in moderately wet places throughout continental tropical America and the West Indies.

Medicinal Uses

A strong decoction is made from Zeb Chat and Coraili (Momordica charantia) and drunk for painful menstruation.

Wong (1976) states, "Root in tisanes for heat, oliguria, as postpartum depurants. Root and leaf infusion for fever. Leaf poultice as vaginal suppository for womb inflammation and prolapse".



Eupatorium odoratum L.

BABY BUSH CHRISTMAS BUSH

(COMPOSITAE)

Description

Eupatorium odoratum is an erect or scrambling short-lived shrub up to about 2 m Eupatorium odoratum is an erect of school of the state of Eupatorium cooracium in pairs, rhombic-ovate, autupty narrowed at base, acut in high. Leaves opposite in pairs, rhombic-ovate, autupty narrowed at base, acut high. Leaves opposite in three-nerved, coarsely toothed, odorous, gland-dotted or acuminate at tip, the long and 5 cm broad. Flower-heads numerous in beneath, up to about 1 cm long, the bracts imbricate in 4 -5 series. Florets corymbs. Involucre about 1 cm long, the bracts imbricate in 4 -5 series. Florets corymbs. Involucre about 1 cm long, 5-angled, with numerous spreading bristles.

Habitat and distribution

Very common as a weed of waste places throughout the American subtropics and Very common as a weed of which and Asia where it has become a pest, tropics. Recently introduced in Africa and Asia where it has become a pest,

Medicinal Uses

A flower decoction is used for coughs and colds with or without the addition of Santa Maria (Lippia alba).

Wong (1976) states, "Leaf infusions and decoctions for colds, flu, fever. Leaf poultice on lashes".

Biodynamic Notes

Extracts from the aerial parts have been tested and shown to give no significant cytotoxicity (Arene et al., 1978).



Eupatorium triplinerve

(COMPOSITAE)

Description

Perennial herb up to 1.5 m high. Leaves opposite in pairs, lanceolate to oblong-lanceolate, up to about 15 cm long and 3 cm broad, pointed at both ends, 3-nerved from well above the base. Heads few in loose inflorescences on slender hairy stalks 1 - 2 cm long. Involucres 4 - 5 mm long. Florets purple.

Habitat and Distribution

Introduced from continental tropical America and cultivated on several of the islands where in some of them it has escaped.

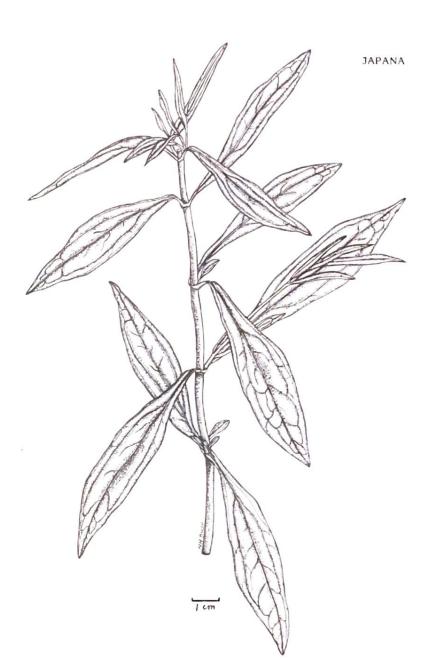
Medicinal Uses

A leaf decoction of Japana is taken twice daily as required for fever and colds.

Wong (1976) states, "Herb decoctions for flu, fever, cold in chest, pneumonia, yellow fever, constipation. Herb baths for flu and pneumonia".

Biodynamic Notes

Eupatorium triplinerve gave a positive test with the sodium picrate paper (for cyanide, or coumarin?). Perry and Metzger (1980) have reported an essential oil and also coumarin constituents which are non-toxic but possessing remarkable hemostatic properties. Detailed chemical analyses of the essential oils have been done (Morton, 1981).



MILKWEEDS

Euphorbia spp.

(EUPHORBIACEAE)

There are many species of Euphorbia displaying a range of life forms from small prostrate or creeping herbs to large shrubs. They have in common the small involucrate cup-shaped inflorescence from which stamens project and these are followed by a single stalked capsule at maturity.

The milky sap of all the species can be considered to be irritant.

Euphorbia hirta

MALOMAY MALOMEN

Description

A herb with more or less erect branches, spreading from near the base and bearing yellowish hairs. The plants usually grow to about 20 - 30 cm but may be shorter or taller. Leaves opposite in pairs from slightly swollen nodes, ovate to rhomboid, unequal-sided at base, serrulate, up to 4.5 cm long and 1.6 cm broad. Inflorescences - stalked globose clusters about 1 cm in diameter.

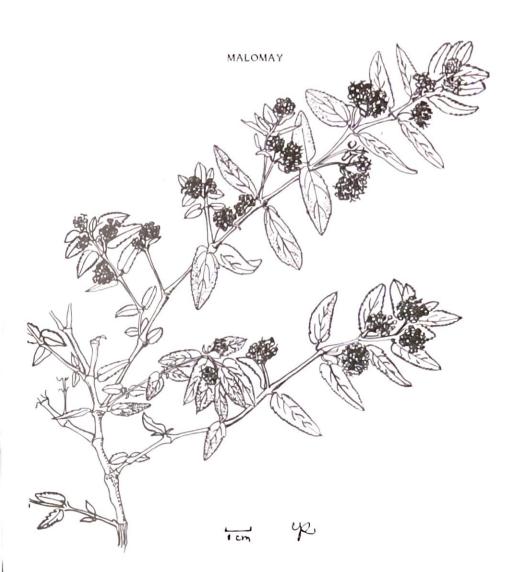
Habitat and Distribution

A very common weed, general throughout the subtropics and tropics.

Medicinal Uses

An infusion of this plant is used as a "cooling". Mixed with Seed-under-leaf (Phyllanthus amarus) the infusion is also used for oliguria. The latex from a freshly broken stem is used to treat ringworm by its application around the area to stop the spread of the infection.

Wong (1976) states, "Herb teas (of Malomay) drunk for flu, heat, fever, hypertension, measles".



Description

Weak erect annual little-branched herb, the stem-internodes hollow, up to about 50 cm high. Leaves alternate below, opposite above, ovate to oblong-elliptic, acuminate, entire, up to about 10 cm long and 4.5 cm broad, usually smaller, often somewhat crowded towards the apex. Involucres few together on a stalk up to about 1.5 cm long, terminal, each about 2 - 3 mm long. Capsule with short hairs.

Habitat and Distribution

Fairly common on shaded roadsides and at the margins of thickets; sometimes under cocoa trees. Continental tropical America, Jamaica, the Lesser Antilles, Tobago and Trinidad.

Medicinal Uses

A tea from this species is used to treat cases of oliguria.

Wong (1976) states, "Decoctions of leaves for heat and oliguria".



Euphorbia prostrata

Description

Low herb with prostrate reddish branches spreading from a central taproot. Leaves opposite in pairs with regular-spaced disposition, elliptic to narrowly obovate-elliptic, obtuse and minutely toothed at tip, unequally rounded at base, up to 7 mm long and 3 mm broad, dark greyish-green. Involucres in short axillary racemes, small. Capsule with short bristly hairs on the sharper margins only.

Habitat and Distribution

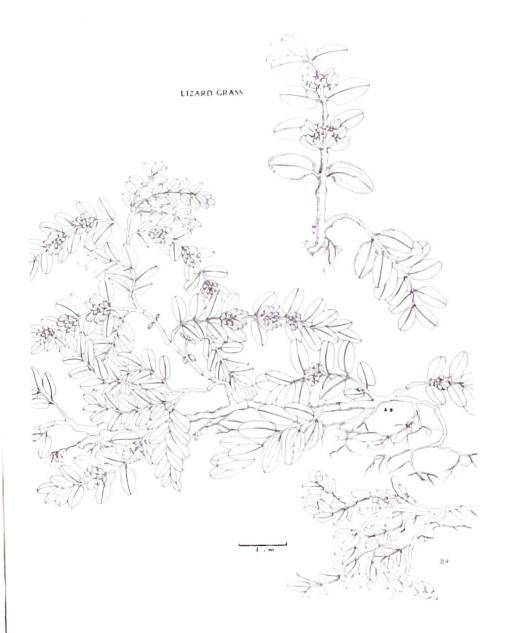
A fairly common weed of sandy ground; general throughout the tropics.

Medicinal Uses

A decoction of the whole plant is taken for cases of gastroenteritis.

Biodynamic Notes

The Euphorbia species generally contain an irritant sap due to constituents which are co-carcinogenic esters of closely related diterpenoid polyols (Evans and Schmidt, 1980). Many other interesting chemical constituents have been found in these species (Morton, 1981 Tripathi and Tiwari, 1980; Baslas and Agarwal; 1980).



BACHELOR BUTTON WHITE MARGUERITE

(AMARANTHACEAE)

Description

Annual bushy herb 50 to 80 cm high in flower. Leaves opposite, oblong-elliptical, 2 - 10 cm long and up to about 4 cm broad. Flower-heads subsubspherical, 2 - 3 cm long and 2 cm or more broad, usually magenta in colour but sometimes mauve or rarely white, the head often subtended by small leaves.

Habitat and Distribution

Cultivated in gardens for ornament and occasionally escaping on to waste ground

Native of tropical America but now grown in all warm parts of the world.

Medicinal Uses

A handful of the white flowers of this plant is boiled in about a litre of water and the water extract is taken for oliguria for as long as required. Also a tea is made for gripe in babies.

Wong (1976) states, "Tea or infusion of white flower head for children with oliguria, heat, empacho. Leaf tea for hypertension, cough, diabetes".

Biodynamic Notes

So far, only pigments of unknown biological activity have been found (Bouillant et al., 1978).



Gossypium spp.

(MALVACEAE)

Description

The classification of cottons is very difficult. The two main groups of native and The classification of cottons is very G. barbadense (Long Staple or Sea Island fully naturalised plants belong to Upland Cotton). They are shrubs up to the classification of cottons is very G. barbadense (Long Staple or Sea Island fully naturalised plants belong to Upland Cotton). They are shrubs up to about Cotton) and G. hirsutum (Short or Upland Cotton). They are shrubs up to about fully natural G. hirsutum (Short or Upiand Cotton). They are shrubs up to about Cotton) and G. hirsutum (Short or Upiand Cotton) and G. hirsutum (Short or Upiand Cotton). They are shrubs up to about 5 m high, with broad distinctly lobed leaves and leafy stipules. Each flower is subtended by three broad leafy toothed broadless are ovoid and dehisce to expose usually light yellow turning pinkish. The capsules are ovoid and dehisce to expose the seeds embedded in copious white lint.

Habitat and Distribution

Native of tropical America, G. barbadense of the South American mainland and Central America and some Native of tropical America, G. Barriera and Some of the G. hirsutum of subtropical North and Central America and some of the Caribbean islands mostly in coastal areas.

Medicinal Uses

A decoction of the leaves is given to young children for constipation. In cases of A decoction of the leaves is given and its juice is squeezed into the ear.

Wong (1976) states, "Leaf decoctions for flu, fever, cough, consumption, cold in chest. Leaf juice for earache. Flower in teas for flu and colds".

Biodynamic Notes

Gossypol a toxic constituent of Cottonseed oil (Merck, 1976), has been associated with antifertility activity in men (Murthy et al., 1981; Qixian and Yingong, 1980) and also with antiviral activity (Dorsett et al., 1975). The pressed seedcake remaining after the oil is removed is a rich source of Lglutamic acid (Perry and Metzger, 1980).



(MALVACEAE)

Description

A shrub with long slender branches up to about 6 m high. Leaves arranged spirally on the stem are ovate, have long stalks and measure up to about 15 cm long and 10 cm broad. Flowers are borne singly in the axils of the upper leaves, usually on rather long stalks. They have an epicalyx of 5 - 7 bracteoles about 1 cm long and a cupular calyx about 2.5 cm long. The corolla is short-lived of five very showy contorted-overlapping petals. Many varieties exist differing in size and colour of corolla, in single or double forms. The fruit (very rarely formed) is a capsule about 3 cm long.

Habitat and Distribution

Very common cultivated and relict by old habitations and cultivations in a wide range of situations. Native possibly of tropical Asia. Most ornamental varieties are hybrids, many of them resulting from crosses with the African H. schizopetalus.

Medicinal Uses

It is a useful constituent of "lochs" (syrups) for the treatment of coughs and colds. Twigs and stalks are used as DATWAN, a chewstick and toothbrush.

Wong (1976) states, "Decoctions of flowers for flu, cough, asthma. Infusions for colds amenorrhoea. Poultice of leaves for hernia".

Biodynamic Notes

Hibiscus flower anti-estrogens have been studied (Kholkute, 1977). Its red flower pigments include cyanidin glycosides (Shrivastava, 1976).



Hymenocallis tubiflora

COCOA ONION SPIDER LILY WILD ONION

(AMARYLLIDACEAE)

Description

Bulbiferous herb with soft fleshy lanceolate petiolate leaves in two rows. Leafblades up to about 30 cm long and 10 cm broad. Flowers in a scapose umbel, white, fragrant. Perianth segments linear, shorter than the tube, surrounding a corona formed from expanded bases of stamens. Fruit a membranous capsule containing one or a few fleshy seeds.

Habitat and Distribution

Occasional in sheltered places, mostly by streams. Native of Trinidad, Tobago and northern South America, cultivated as an ornamental elsewhere.

Medicinal Uses

In the treatment of asthma, a cup of tea made from the bulbous root of this plant is taken so as to induce vomiting. It is often recommended that only one-quarter of the bulb should be used to make the cup of tea.

Wong (1976) states, "Bulb in teas for asthma and vomiting. In poultice on boils".



Hyptis atrorubens

WILD MINT

(LABIATAE)

Description

Creeping perennial herb with long slender prostate stems rooting at the nodes and ascending flowering branches up to 25 cm high. Leaves ovate to lanceolate in opposite pairs, 1.5 - 4.5 cm long and up to 2 cm broad. Heads about 1 cm across. Flowers white with mauve marks on lip, subtended by leafy bracts. Nutlets bright brown, rough.

Habitat and Distribution

In moist places, not uniformly common. General throughout the tropics.

Medicinal Uses

Leaf infusion is taken as a carminative.

Wong (1976) states, "Leaf juice for diarrhoea, dysentery, vomiting. Tea of leaves for colds, flu, intestinal worms. Leaf infusion for indigestion".



(EUPHORBIACEAE)

Description

Shrub or small tree up to 4 m or more high with viscid milky or reddish sap. Leaves broadly ovate, entire or shallowly lobed, up to 15 cm long and broad, openly cordate at base. Flowers green, the male and female borne at different times in the same inflorescence; petals 6 - 7 mm long; capsule subspherical, 2.5 - 4 cm long; seeds blackish, about 2 cm long.

Habitat and Distribution

Rather common, particularly near habitations. Native of tropical America, now widespread.

Medicinal Uses

In the treatment of toothache the latex of the plant is rubbed on the gums. In the treatment of bruises, the leaves are applied in sequence until one sticks onto the skin. This is allowed to dry and then replaced with another leaf until the bruise is healed. Physic Nut leaves are boiled with Coraili leaves (Momordica charantia) and Lime juice (Citrus aurantifolia), then Epsom salts are added, and this liquid used to wash skin sores.

Wong (1976) states, "Leaf (of Physic nut) decoctions for heat, diarrhoea, empacho, fever. Leaf baths for sores, sprains, rash, bewitchment; poultices for sores and pain".

Biodynamic Notes

This seed contains a toxic protein, Curcin. Anti-cancer and co-carcinogenic constituents have also been found in various parts of the plant (Morton, 1981).



CARPENTER GRASS GARDEN BALSAM

(ACANTHACEAE)

Description

Perennial low herb with slender branches rooting sparingly from the nodes. Plant pleasantly aromatic when crushed. Leaves linear to lanceolate, mostly longacute, 3 - 8 cm long, 5 - 30 mm broad in opposite pairs. Flowering branches ascending up to 60 cm high. Flowers rather small, bright pink with white markings resembling a rib-cage, the corolla 7 - 8 mm long.

Habitat and Distribution

In low thickets and grassy places. Mexico to northern South America and the West Indies.

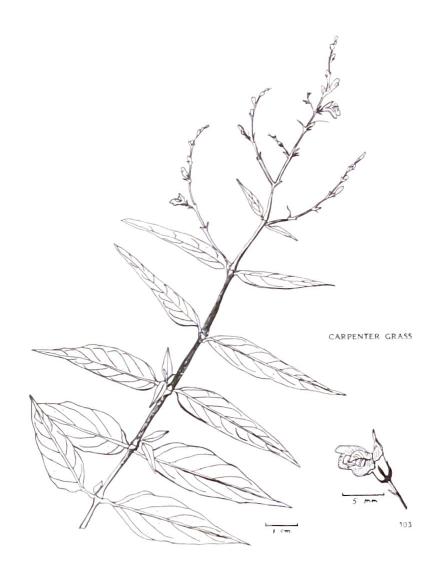
Medicinal Uses

This plant is used to make teas for coughs, colds and as a cooling. An infusion made from four or five leaves per litre of water is used as a "cooling". A stronger brew is used for hypertension. For cuts the juice of this plant together with some salt is applied to the area.

Wong (1976) states, "Herb decoctions for flu, fever, cold in chest, pneumonia, cough, vomiting. Leaf poultice on bleeding wounds".

Biodynamic Notes

This plant is a major ingredient in South American hallucinogenic snuff, but with unidentified active principles (Schultes, 1975).



(ACANTHACEAE)

Description

Shrubby herb up to about 3 m high. Leaves opposite in pairs on slender petioles, ovate-lanceolate, obtuse at base, acuminate at tip, thin, up to 15 cm long and 5 cm broad. Flowers in narrow terminal panicles on short stalks, subtended by small bracts. Corolla about 4 cm long, deeply two-lipped, the lower slightly longer, dull purplish-red. Capsule about 1 cm long.

Habitat and Distribution

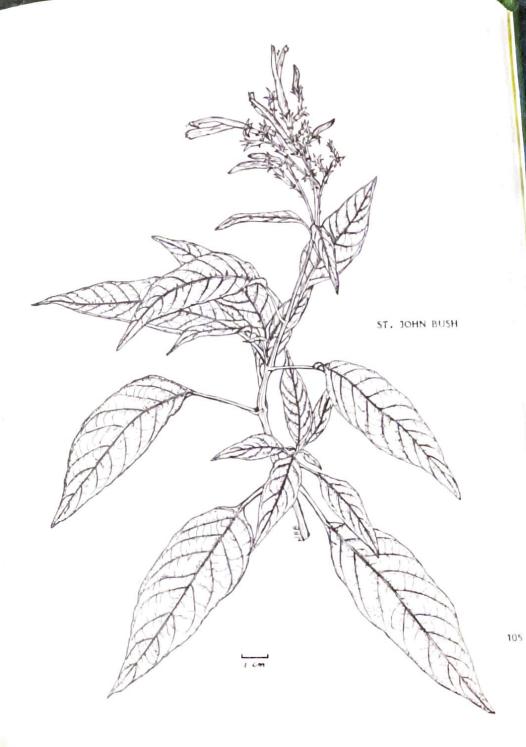
On roadside banks and in thickets in moderately wet places; Lesser Antilles and northern South American.

Medicinal Uses

A tea made from this plant is taken in the treatment of dysmenorrhoea and is also taken as a "cooling". St. John bush may be mixed into baby's bathwater to treat skin rashes.

Biodynamic Notes

Tests for cyanide were weakly positive to the sodium picrate paper.



Lantana camara

GRATER WOOD KAYAKEET KAYAKIT RAMONGSI

(VERBENACEAE)

Description

Loosely erect or scrambling aromatic shrub with rough angular or sometimes prickly stems, up to 6 m or more high. The leaves are ovate, acuminate and toothed, up to about 12 cm long and 5 cm broad. Inflorescences stalked in the axils of upper leaves, the flowers yellow, turning orange or red, in compact heads. Fruit greyish-blue or blackish drupe about 4 mm in diameter.

Habitat and Distribution

Very common in hedges, rough pastures and thickets. General in the tropics.

Medicinal Uses

For coughs, colds and fevers, teas are taken which are made from the young tops of this plant. Sometimes these teas are also made from a mixture of Kayakeet, Bamboo leaves (Bambusa vulgaris), Black Sage (Cordia curassavica), and Christmas Bush (Eupatorium odoratum).

Wong (1976) states "Leaf juice for dysentery, jaundice. Flower heads or young leaves in loch for cough, cold in chest, consumption".

Biodynamic Notes

Lantana camara leaves contain the toxic terpenoids called Lantadenes which are also skin photosensitizers (Sharma et al., 1980). The flowers contain an anthelmintic oil (Manaralam et al., 1980; Avadhoot et al., 1980).

Young Kayakeet plants sometimes are confused with Asclepias curassavica, which contains cardioactive glycosides, and is known to kill cows (Adams et al., 1963). This situation increases the risk of poisoning in young children through accidental treatment by the less experienced "healers".



KAYAKEET

STINGING NETTLE WARITOTE ZOOTI

(URTICACEAE)

Description

Erect annual branched herb up to about 120 cm high. Leaves spirally arranged, stalked, ovate, toothed, up to 15 cm or more long and 12 cm or more broad with bristly pungent hairs. (Some people experience a stinging effect after touching this plant, while others do not.) Flowers very small and numerous in often flat-topped divaricately branched axillary paniculate cymes. Fruit about 1 mm long with a residual hooked stigma.

Habitat and Distribution

A rather common weed. General in the tropics.

Medicinal Uses

Using about 200 g of the plant tops to a litre of water, an infusion is taken in cases of oliguria. For venereal disease, the tea is taken from a mixture of the following plants -- Stinging Nettle, Wild Pinder leaves (Desmodlum incanum), male Pawpaw (Carica papaya), Running Picka (Smilax (cumanensis), Mayoc Chapelle (Entada polystachya), Mazay Marie (Mimosa pudica), Payapul (Eleusine indica), Gully root (Petiveria alliacea), Coconut root (Cocos nucifera), Roukou root (Bixa orellana).

Biodynamic Notes

The stinging action of this plant may be due to certain amine bases (Evans and Schmidt, 1980).

STINGING NETTLE



Leonotis nepetifolia

BALL BUSH BALLHEAD BUSH CARTWRIGHT BUMP SHANDILAY

(LABIATAE)

Description

Erect annual herb 1 m or more high. Leaves broadly ovate, toothed, hairy, opposite in pairs. Flowers in globose clusters at the upper nodes. Calyces green, rather prickly; corollas dark orange.

Habitat and Distribution

Rather common as a weed of fields, roadsides and waste ground, evident mostly during the period October to March. Native of tropical Africa, now widespread in warm countries.

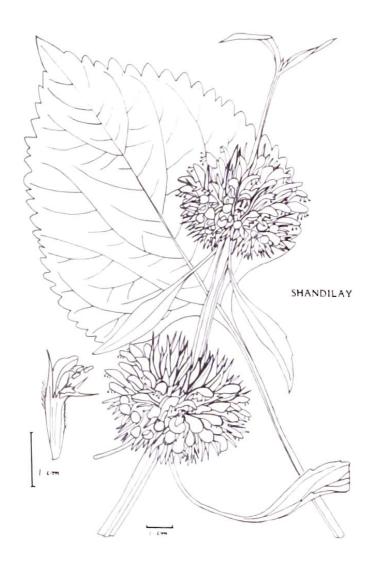
Medicinal Uses

The leaf decoction is used for coughs and fevers. Alternatively, crush and squeeze leaves, collect one tablespoon of the juice and take with a little salt.

Wong (1976) states, "Leaves in teas for fever; in vaginal suppository for womb prolapse, as abortifacient. Inflorescence infused in puncheon rum for fever; tea for malaria fever".

Biodynamic Notes

Antimalarial activity is not established (Watt and Breyer-Brandwijk, 1962). "Although ethanol extracts of L. nepetifolia in Porto Rico exhibited confirmed antitumour activity the biologically active constituents of the plant have yet to be identified" (Manchand and Blount, 1980).



(VERBENACEAE)

Description

Aromatic shrub with long straggling slender branches, up to about 1.5 m high. Leaves opposite in pairs or threes the blades oblong-elliptical, wedge-shaped at base, blunt or pointed at tip, finely serrate, usually up to about 3 cm long, sometimes longer, greyish pubescent beneath. Flower-heads in the leaf-axils, 1-2 cm long on stalks about the same length, often accompanied by additional axillary stipule-like leaves. Flowers very small, white, or pinkish or light purple.

Habitat and Distribution

Widely distributed in the American subtropics and tropics, in thickets and on stony ground mostly near the sea.

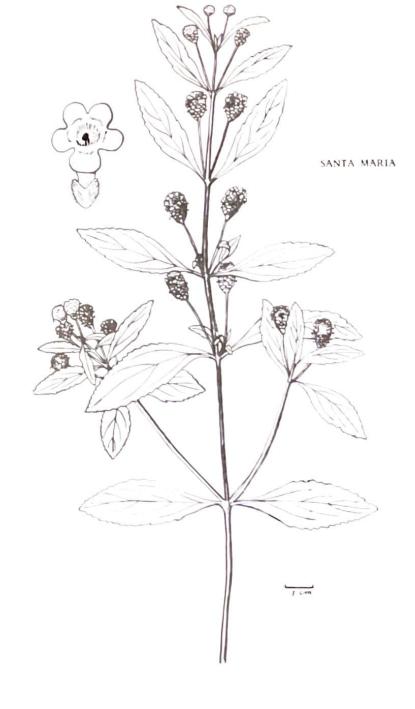
Medicinal Uses

An infusion is made from Bene Bush (Sesamum indicum), Sugar Apple bush (Annona squamosa), Man-better-man (Achyranthes indica), Basil (Ocimum sp.), Pop Bush (Passiflora foetida), Nickaracka (Gliricidia sepium) and Santa Maria, then some Mint Oil (Mentha sp.) is added. A tablespoonful is given to treat asthma in children.

Wong (1976) states, "Decoctions of (Santa Maria) leaves for flu, fever and cold in chest. Crushed (Santa Maria) leaves inhaled to promote sleep".

Biodynamic Notes

The essential oils of South American species of L. alba have been analysed in detail (Craviero et al., 1981).



Lygodium venustum

CORD VIOLAN CORDE VIOLIN FIDDLE BUSH

(FILICES)

Description

Fern with climbing and twining indeterminate fronds, each short branch with a pair of compound primary pinnae, the whole plant more or less softly hairy. Pinnae 5 - 40 cm long, again branched into 5 - 20 or more secondary pinnae and these, especially proximally, sometimes further branched or at least palmately lobed. Fertile segments of pinna-branches finger-like, 5 - 15 mm long, with cup-like hairy marginal flaps protecting the sporangia in two rows.

Habitat and Distribution

In thickets and secondary woodlands; scattered through the American tropics, Greater Antilles, Guadeloupe, Grenada, Trinidad and Tobago.

Medicinal Uses

For hypertension, a cup of an infusion of about 150 g Fiddle Bush in water is taken. Great care and constant monitoring are required as the blood pressure might fall to too low a level.

Wong (1976) states, "Rhizome decoctions for heat and venereal diseases", under the name L. volubile, a distinct species, with simple, usually larger segments distributed over more or less the same geographical range.



Malachra alceifolia

GIMAUVE

(MALVACEAE)

Description

Robust herb or undershrub up to about 3 m high. The stem is beset with large stiff mostly persistent pungent hairs each with 2 or 3 arms or simple. The leaves are ovate to suborbicular and lightly angled or lobed, serrate-dentate margined, up to about 10 cm long and broad. Flowers yellow, sessile or shortstalked in clusters subtended by broad leafy bracts; petals about 15 mm long.

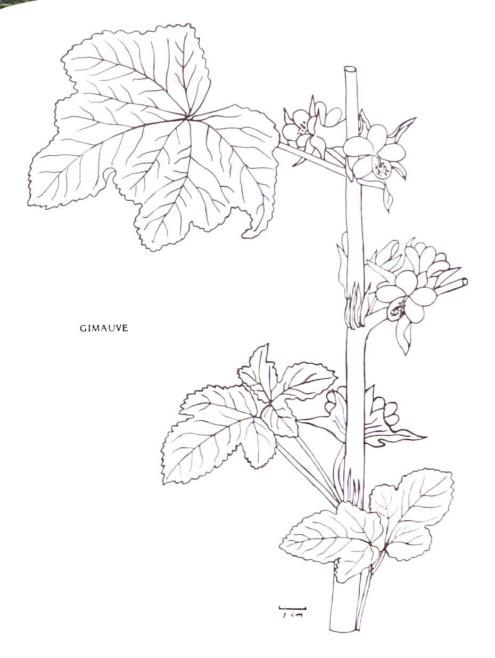
Habitat and Distribution

Throughout the region from Mexico to South America and in most of the islands: sparsely naturalized in the Old World tropics.

Medicinal Uses

An infusion of the flowers is used for coughs and colds.

Wong (1976) states, "Leaves in poultice and bath for sores, lashes; in gargle for sore throat; in loch for cough. Tea of flowers for heat".



(MALPIGHIACEAE)

Description

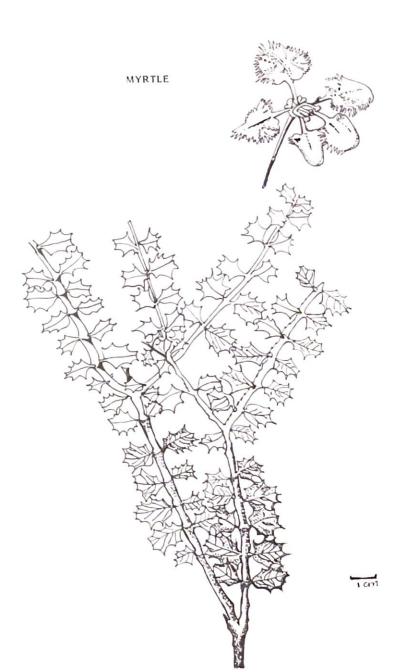
Shrub up to about 1 m high, diffusely branched and somewhat straggling. Leaves opposite in pairs, the blade ovate or rounded, the margin sinuate-dentate with spines, subsessile, glossy above, glabrous. Flowers solitary or few together in the leaf-axils; sepals with six glands; petals clawed, pink or white, the largest about 1 cm long. Drupe subglobose, red, with three stones, 9-10 mm in diameter.

Habitat

Native of rocky places in the West Indies, now probably known only in cultivation, introduced into many warm countries as an ornamental.

Medical Uses

A decoction of the plant tops is used in the treatment of tumours.



Mammea americana

MAMMEY APPLE MAMMY APPLE

(CLUSIACEAE)

Description

Tree up to about 18 m high. Leaves opposite in pairs, elliptic or obovate up to 25 cm long and 10 cm broad, dark green, pellucid-dotted, exuding milky sap when broken. Flowers solitary or few together, fragrant, with 4 - 6 obovate white petals up to about 20 mm long. Fruit drupaceous with 1 - 4 fibrouscoated stones, the skin is rough, brown and rather thick, the flesh is yellow and pulpy; up to about 15 cm in diameter.

Habitat and Distribution

Probably wild in most of the West Indian islands but so frequent in cultivation that it is difficult to determine the natural habitat; also through continental America from Mexico to Brazil and introduced into the Old World tropics.

Medicinal Uses

The seeds are grated and mixed in rum or in Coconut oil (Cocos nucifera) and applied to the scalp for head lice. This treatment is applied just before bed time and repeated as required. The same treatment is used for "chiggers" in the feet.

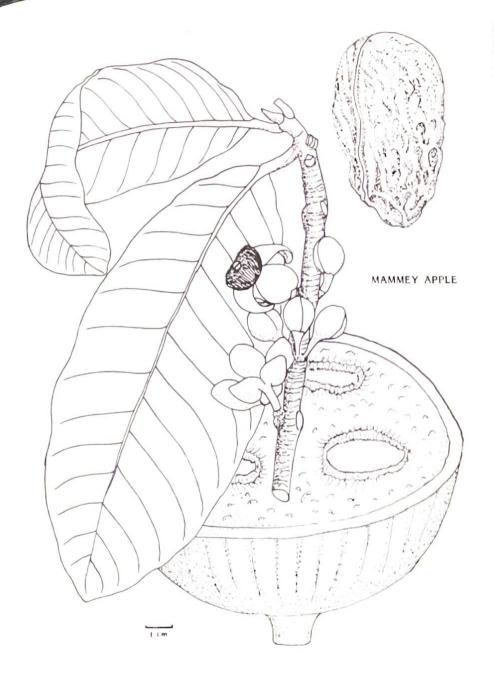
Wong (1976) states, "Grated seed in coconut oil against lice in hair. Fruit skin tea for indigestion. Tea of leaves for hypertension, of bark for cough".

Biodynamic Notes

Mammey apple seeds contain insecticidal coumarins which may be non-toxic to humans. (Crombie et al 1972).

FOOT NOTE

Not to be confused with the Mamey Sapote (Pouteria sapota) which has spirally arranged leaves and very smooth seeds with a broad hilum (SAPOTACEAE), related to Sapodilla.



(ANACARDIACEAE)

Description

Tree up to 15 m or sometimes more high, typically heavy-branched from a stout trunk. Leaves spirally arranged on the branches, lanceolate-elliptical, pointed at both ends, the blades mostly up to about 25 cm long and 8 cm broad, sometimes much larger, reddish and thinly flaccid when first formed (new flush). Inflorescences are large terminal panicles of small polygamous, fragrant, yellow to pinkish flowers. Fruit a drupe variously shape, according to the variety, from ellipsoid to obliquely reniform, 5 -15 cm long.

Habitat and Distribution

Completely naturalised in many of the West Indian islands and here and there a component of mature secondary vegetation. Native of tropical Asia and introduced whenever the climate is sufficiently warm and damp.

Medicinal Uses

To treat ringworm apply the hot exudate from the burned woody tissue of the Mango tree.

Wong (1976) states, "Leaf teas for fever, diarrhoea, insomnia. Tea or infusions of bark for hypertension".

Biodynamic Notes

Particular care should be taken in using the shoots and flowers since they may be contaminated with fungal toxins (Ghosal et al., 1978). Mycotoxins are amongst the most important chemical hazards in the rural countryside (Schlatter, 1980).



Manihot esculenta

(EUPHORBIACEAE)

Description

A perennial shrub with slender little-branched erect nodose glabrous stems arising from a stock bearing thick tuberous roots; usually growing to about 3 m high. Leaves spirally arranged, long-stalked to a blade deeply divided into 3 - 7 linear to elliptic-lanceolate lobes, exuding a milky sap when broken. Flowers not often formed because plants are harvested before flowing takes place; in loose panicles. Fruit a small capsule; seeds mottled about 12 mm long.

Habitat and Distribution

Native probably of Brazil, now widespread in the tropics. Cultivated and occasionally relict.

Medicinal Uses

Grated Bitter Cassava mixed with olive oil is applied to sores on the feet.

Wong (1976) states, "Freshly cut tuber on snake-bites; tuber flour in poultices on boils, sores; in water drunk for diarrhoea, dysentery. Bath of leaves for flu, marasmus. Grated tuber in poultice on abscesses".

Biodynamic Notes

Toxic cyanogenetic glycosides are found throughout the plant, but their concentrations vary greatly according to cultural and edaphic conditions. These glycosides are de toxified during traditional cooking processes (Nestel, 1973).



Manilkara zapota

(SAPOTACEAE)

Description

Tree up to 15 m or rarely more high, the foliage usually rather dense and dark green; branchlets and young leaves beneath brownish-pubescent. Sap milky. Leaves spirally arranged in clusters at the branch-tips, elliptical, rather broad at tip and then shortly pointed, up to about 13 cm long and 5 cm broad. Flowers solitary in the axils, the calyx rusty-pubescent about 1 cm long, the corolla white, a little longer. Fruit subglobose, brown, rough-skinned, 5 - 8 cm diameter, the pulp sweet, the seeds rather flat.

Habitat and Distribution

Mostly cultivated, occasionally escaped. Native of tropical America, introduced into the Old World tropics.

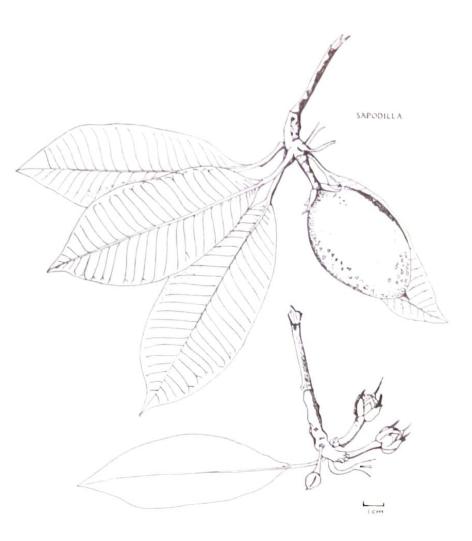
Medicinal Uses

A decoction of crushed Sapodilla seeds is drunk for oliguria. A decoction of Sapodilla leaves together with Portugal leaves (Citrus reticulata) is taken for hoarseness due to colds.

Wong (1976) states, "Decoctions of (Sapodilla) seed for oliguria; of yellow leaves for colds, flu, fever, cough, diarrhoea; of bark for diarrhoea; of root for amenorrhoea".

Biodynamic Notes

The bark of this tree provides chicle for use in chewing gums of commerce.



(PHYTOLACCACEAE)

Description

Annual herb [5 - 43 cm high with spirally arranged leaves. Leaves abovate to oblanceolate, acute or obtase at tip, tapered at base, up to 7 cm long and 3.5 cm broad, thin, light green. Flowers small, white, in terminal spikelike racemes up to about 3 cm long. Perianth-members 5, 1.2 mm long, persistent and becoming greenish in fruit. Fruit 1.5 mm long, covered with spinelike tubercles in a network.

Habitat and Distribution

Common in some islands, rare in others, perhaps overlooked being usually a low weedy herb in pastures and lawns and in sandy places near the sea. Continental tropical America and the West Indies.

Medicinal Uses

An infusion of the leaves taken for colds and fever, for as long as required,

Wong (1976) states "Decoctions of herb for cough, colds, flu, fever, whooping cough".



MAZAY MARIE SENSITIVE PLANT SHAME BUSH TI MARIE

(LEGUMINOSAE-MIMOSOIDEAE)

Description

Strong-stemmed undershrub with erect or prostrate prickly branches, up to 50 cm or more long, the plant glabrous or hispid. Leaves responding to tactile or heat stimuli by collapsing, of usually two approximate pairs of pinnae each with narrow leaflets in 15 - 25 pairs, the leaflets 6 - 10 mm long. Flower-heads rounded, pink on solitary or clustered peduncles, 1.0 -1.5 cm in diameter. Pods linear-oblong, constricted at the 2 - 5 joints, bristly-margined.

Habitat and Distribution

A weed of pastures and open uncultivated land. Native of tropical south America, now widespread.

Medicinal Uses

A tea from the whole plant is used for oliguria, for dysentery and as a "cooling". Ti Marie plus Man-better-man (Achyranthes indica) is made into a strong tea to be taken for three days for venereal disease.

Wong (1976) states, "Bush and root teas (of Ti Marie) for oliguria, heat, to promote sleep".

Biodynamic Notes

Mimosa pudica contains antispasmodic alkaloids (Abdul Quashem et al., 1977), and Mimosine, an amino acid which is an efficient deplilatory agent (Merck, 1976), which has been implicated in the characteristic leaf movements of this plant (Baskin and Cooper, 1980). The leaf-movement factor is a glycoside of a phenolic carboxylic acid, (Schildnecht et al., 1980).

The sister species M. hamata contains phenolic antimicrobial agents, (Husain et. al., 1979).



ICM

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Momordica charantia

CARAILI CORAILI POPILOLO POPOLOLA POPOLOLO SORROW SEED

(CUCURBITACEAE)

Description

Slender-stemmed tendril climber, the older stem often flattened and fluted, to 6 m or more long. Leaves alternate, cut into 5 - 7 narrow-based lobes, the lobes mostly blunt but with small marginal points, up to about 12 cm long, very thintextured and characteristically pungent-aromatic. Flowers, yellow, on short (female) or long (male) peduncles, short-lived. Fruit narrowed to both ends, ribbed with prominent tubercles on the ribs, 8 - 15 cm long, orange when ripe and then becoming softly fleshy and opening to reveal pendulous seeds covered with red pulp.

Habitat and Distribution

Common on fences and shrubs and in hedgerows, in the subtropics and tropics of both hemispheres.

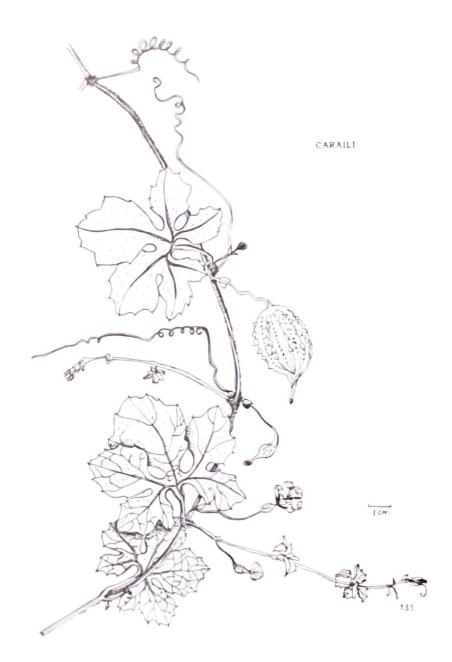
Medicinal Uses

Young girls suffering from painful menstruation are given half a cup of a decoction made from caraili leaves. Boiling is for two minutes, and often the mixture includes a piece of Malomay (Euphorbia hirta), a pinch of salt, and a strip of Orange peel (Citrus aurantium). Adults take a leaf tea for high blood pressure.

Wong (1976) states "Leaf decoctions for diabetes, hypertension, dysentery, worms, malarial fever; bath and poultice for rheumatism. Fruit juice for diabetes".

Biodynamic Notes

The fruits have been established as hypoglycaemic when ingested by rabbits (Akhtar et al., 1981); and also antifertility in action (Dixit et al., 1978). Anti-leukaemic agents have been found in M. charantia (Licastro et al., 1979).



(BUBLACEAE)

Description

Should or small tree 3-4 m or more high. Leaves opposite in pairs with large rounded stipules on innovative branches, broadly elliptic to oblong-ovate, acute, comparate or obtains at tip, comeans to rounded at hase, thiny, up to 45 cm long and 28 cm broad. Plowers in compact stalked heads, each giving rise to a compound fruit resembling a small breadfruit. Corolla white, the babe about 1 cm long. Rips fruit chiong, up to 10 cm long and 6 cm broad, becoming white then semi-translucent, equathy and factid.

Habitat and Distribution

Naturalized in the New World tropics in waste places especially near the sea, after introduction from tropical Asia and Australia.

Medicinal Uses

The leaf is heated and applied to painful areas on the body.



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NUTMEG

(MYRISTICACEAE)

Description

A dense-crowned tree, up to 10 m or more high, with aromatic wood. Leaves simple, alternate, oblong-elliptic, acutely acuminate, pinnately veined, paler beneath, up to 13 cm long and 6.5 cm broad. Flowers small, cream-yellow. Fruit oval to subglobose, about 5 cm long, usually yellow, splitting to reveal a dark seed (Nutmeg) covered by a flattened, usually red (or yellow) branched aril (Mace).

Habitat and Distribution

Native of the Molucca Islands in the East Indies, now cultivated in the islands of the West Indies and elsewhere.

Medicinal Uses

Sufferers from "stroke" keep a piece of the Nutmeg seed in their mouths to ward off further attacks.

Wong (1976) states, "Decoctions and infusions of seed for asthma, malarial fever, dysmenorrhoea, in postpartum depurants. Grated seed in ointments for fever, flu, pneumonia".

Biodynamic Notes

The volatile oil contains Myristicin, Elemicin and Safrole together with a number of terpenoids. It produces hallucinations, and may be toxic (Weil, 1965). Myristicin is also a useful insecticide (Lichtenstein and Casida, 1963).

NUTMEG



ZEBAPIQUE ZEBAPIQUE

(COMPOSITAE)

Description

Erect shrubby little-branched coarse herb up to 2.5 m high or rarely taller. The stem is ribbed and its leaves impart a yellow colour to the skin when handled. Leaves spirally arranged, pointed at both ends, toothed, sometimes 3-lobed, up to 30 cm long and 10 cm broad. Flower-heads on slender stalks, about 5 mm broad. Florets uniformly tubular, yellow, accompanied by receptacle-scales.

Habitat and Distribution

Rather common, especially on heavy soils in damp areas. Throughout the region except on the drier islands.

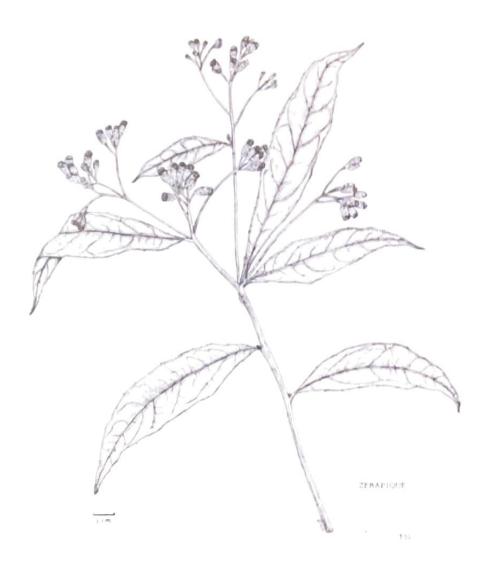
Medicinal Uses

This is used to make tea for fevers and malaria. A preparation of six leaves of Zebapique per litre of boiling water makes a bitter concoction, which is taken by the wine glass for bellypains and painful menstruation.

Wong (1976) states, "Leaf tea for diabetes. Infusion of leaf in vermouth drunk for colds, bles, malaria fever, dysmenorrhoea, biliousness, as aperitive".

Biodynamic Notes

The bitter principles are terpenoid but inactive as anti-tumour agents in the dried leaf extracts of this plant (Manchand and Blount, 1970).



(CACTACEAE)

Description

Shrubby much branched cactus with flattened elliptical segments with rounded margins, the plant up to 4 m or more high. Areoles are generally spineless, but clusters of minute prickles may develop here and there; minute leaves which fall off very early develop at these nodes on new branches. Flowers develop singly along the upper margins of the joints, they are 5.5 - 7 cm in overall length and have erect crimson petals, exceeded by the stamens.

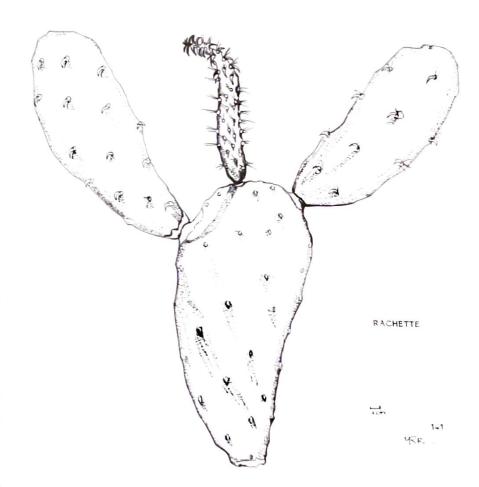
Habitat and Distribution

Probably a native of Mexico, now widespread in cultivation in the tropics. In dry weather the segments become infested with a gregarious mealy bug, the Cochineal Bug, which is the source of the natural cochineal dye.

Medicinal Uses

Used as a shampoo to treat dandruff. Rachette is boiled in water together with burnt bread and the strained extract is taken as a cooling. The roasted Rachette is also applied to inflamed and painful bruised areas.

Wong (1976) states, "Stem is poultice on erysipelas, boils, sores; placed on belly for diarrhoea. Stem juice drank for heat".



(LABIATAE)

Description

Shrubby plant with square-sectioned thinly hairy branches, up to 2 m high. Leaves opposite in pairs, ovate to elliptic-lanceolate, up to 15 cm long and 5 cm broad, tapered at the base, acuminate at the tip, serrate-dentate, thinly hairy only on the veins, copiously translucent-punctate in the lamina. Panicles terminal with usually 3 pubescent branches up to about 15 cm long, the pedicels curved and about 2 mm long. Callyx campanulate, very irregular, up to about 5 mm long, the lower lip closing in fruit, the midlobes shorter. Corolla irregular, greenish. Nutlets subglobose, dark brown, lightly pitted, about 1 mm in diameter.

Habitat and Distribution

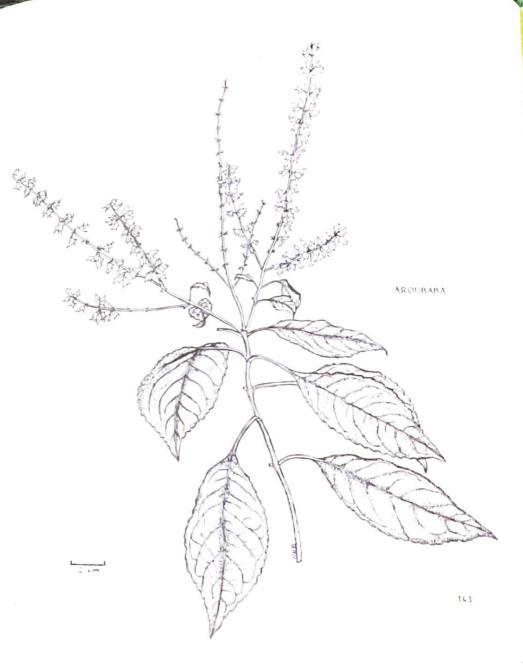
Known only in cultivation following introduction from the Old World tropics, Ocimum sanctum, known as Toolsie, is a sacred plant of Hindus, and is also introduced in Trinidad.

Medicinal Uses

A tea made from two or three leaves per cup is used for colds and high fever. This tea makes the patient perspire profusely and this is desirabe for the cure. Sometimes, Bois cano (Cecropia peltata) is mixed with Aroubaba in making this tea.

Biodynamic Notes

Ocimum sanctum contains Methylchavicol, Eugenol and other volatile oils of commercial importance in India (Pareek et al., 1980).



(COMPOSITAE)

Description

Annual diffusely branched taprooted aromatic herb up to about 120 cm high, usually about half that height. Leaves alternate, deeply cut to segments about 2 - 4 mm broad, overall up to about 15 cm long and nearly as broad, rather hairy. Flower-heads on slender stalks in loose panicles, about 5 mm in diameter, the florets white. Achenes black, flat, about 2 mm long.

Habitat and Distribution

Common along roadsides and in rough pastures and open waste places throughout the American subtropics and tropics. Introduced into the Old World.

Medicinal Uses

Teas for colds. A decoction is added to the bath water to treat skin rashes.

Biodynamic Notes

Parthenin is a terpenoid constituent which produces dermatitis in people in contact with the plant especially in parts of India and Australia (Picman et al., 1980; Mitchell, 1975).



Passiflora quadrangularis

BARBADINE

(PASSIFLORACEAE)

Description

A robust vine with 4-angled or 4-winged stem, broad alternate leaves and tendrils. Leaf-blades broadly ovate, up to 20 cm long, acuminate at tip, cordate to rounded at base, entire-margined and strongly veined. Leaf-stalk with 2 - 3 pairs of glands. Flowers showy, 8 - 10 cm diameter, the petals white or pinkish, the corona-filaments bluish-purple with white speckles. Fruit ovoid, 12 - 20 cm long and up to 15 cm broad.

Habitat and Distribution

Native of Central America, now widely cultivated in tropical countries.

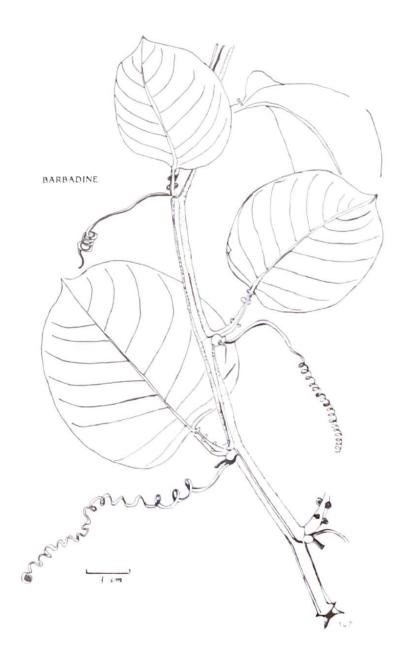
Medicinal Uses

Leaf teas are taken for high blood pressure.

Wong (1976) states, "Tea of leaves for heat, hypertension, diabetes".

Biodynamic Notes

The sedative and antihypertensive constituents of P. quadrangularis are under much study (Bombardelli et al., 1975).



SHINING BUSH SHINY BUSH

(PIPERACEAE)

Description

Delicate, erect, succulent herb up to about 30 cm high. Leaves alternate heart-shaped, pellucid, palmately 5-nerved, up to about 25 mm long and wide. Spikes mostly leaf-opposed or terminal, rarely axillary, up to about 5 cm long, slender, simple. Fruit ovoid, ribbed, up to 1 mm long.

Habitat and Distribution

Common as a weed of damp shady places. General in the tropics.

Medicinal Uses

A decoction is used as a cooling

Wong (1976) states, "Herb decoctions for flu, cough, heat, diarrhoea, cold in chest. Eaten fresh for sore throat."

Biodynamic Notes

The volatile oils of P. pellucida contain Apiol and other terpenoids (Olivieros -Bellardo, 1967).



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Description

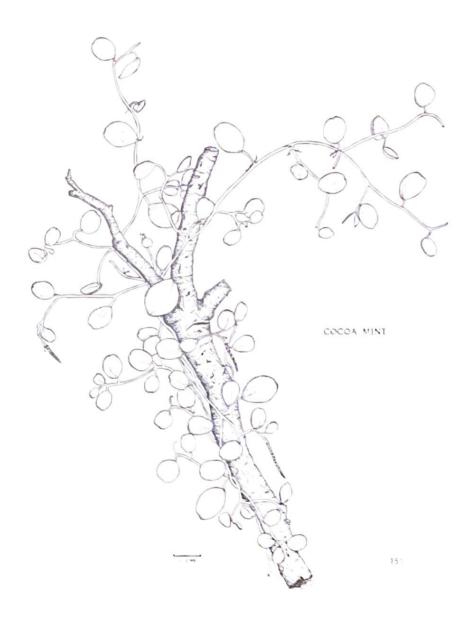
A small creeping epiphytic herb rooting frequently at the nodes. Leaves rounded in outline, nearly flat on one side, convex on the other, alternate, up to 16-18 mm long and broad, drying thin, usually slightly hairy, with 3 obscure nerves, Flower-spikes solitary, thinly rod-like, erect, mostly about 2 cm long.

Habitat and Distribution

Occasional in damp shady places on the trunk and branches of trees, sometimes locally common on the branches of Cocoa trees. Throughout tropical America and in tropical Africa and Madagascar.

Medicinal Uses

For colds and fevers, a tea is made using a small handful of the plant, all parts included, per cup of water.



(LAURACEAE)

Description

Tree with straggling-ascending branches, usually up to about 15 m high, sometimes much taller. Leaves spirally arranged, often clustered near the branchends, narrowly to broadly elliptical or obovate, usually pointed at the tip, up to 20 cm long and over 15 cm broad, with well developed petioles, glaucous beneath. Flowers in a much branched compact panicle shorter than the leaves, greenish-yellow. Fruit variable in size and shape according to the variety, greenish-yellow. Fruit variable in size and shape according to the variety, usually shiny and green or purple when ripe, often pear-shaped, up to about 15 cm long; flesh soft, greenish or yellow, oily, surrounding one large loose round seed.

Habitat and Distribution

Cultivated and occasionally naturalized. Native of Mexico, now widespread in the subtropics and tropics.

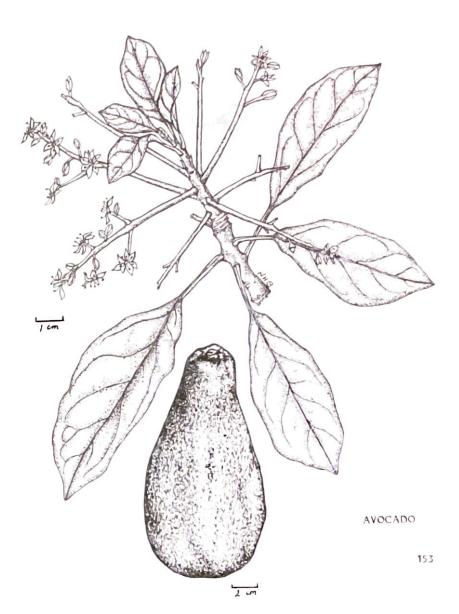
Medicinal Uses

A leaf decoction is taken for high blood pressure. The leaves are also used in baths for pains and fever. The grated seed may be used to treat jiggers (ground worms) in the feet.

Wong (1976) states, "Leaf and bark teas for diarrhoea, colds. Poultice of leaves for headache, rheumatism, sprains".

Biodynamic Notes

Chemical analyses have been done of the oils of Avocado (Montes et al., 1981). The leaf extracts are antihypertensive in rats (Feng et al., 1961). The fruit oil is "stimulant phagocytaire" (Delaveau et al., 1980); and cyanide has been found in the seeds and leaves (Morton, 1981).



GULLY ROOT KOJO ROOT MAPIURITE

(PHYTOLACCACEAE)

Description

Deeply rooted perennial undershrub with tough stems up to over 1 m high in flower, the whole plant emitting an acrid garlic odour when broken. Leaves spirally arranged, elliptical, acuminate, up to 20 cm long and 7 cm wide. Flowers in long slender spikes up to 40 cm long; perianth 4-membered, white at first becoming green in fruit. Fruit about 6 - 8 mm long, appressed to the rachis of the inflorescence, developing two deflexed apical very sharply pointed bristles.

Habitat and Distribution

A weed of semi-shaded undisturbed ground from Florida and Mexico to Argentina and throughout the West Indies. Introduced and now established in some parts of tropical Asia and Africa.

Medicinal Uses

For early arthritis, boil the whole plant in water and to the aqueous extract add some urine and a little Epsom salts and apply lukewarm in a cloth to bandage the area.

Wong (1976) states, "Root teas and infusions for flu, venereal diseases, cystitis, bles, dysmenorrhoea, womb inflammation, in abortifacients. Root bath for heat; poultice for cold in head".

Biodynamic Notes

Antimicrobial activity has been ascribed to extractives of this plant (Segelman and Segelman, 1975); and, the milk of cows which eat this plant is said to be tainted with sulphur compounds (Segelman, 1975)

The leaf extracts of P. alliacea gave positive tests for alkaloids.



GRAINE AMBA FEUILLE GRENAMBAFEU SEED-UNDER-LEAF

(EUPHORBIACEAE)

Description

Short-lived usually erect little-branched annual herb, often completely green including the flowers. Specialized determinate branches resemble compound leaves, but the true leaves are simple, very small, up to 14 mm long and 6 mm wide, but mostly much smaller, and bear the inconspicous flowers in pairs in their axils. Each pair of flowers usually comprises one male and one female. Capsule flattened-globose, about 2 mm long. Seeds light brown, about 1 mm long, with 5 - 6 longitudinal ridges on the back.

Phyllanthus urinaria is known as Seed-under-leaf, and closely resembles P. amarus. It differs in having angled stems which are often slightly reddish and the plants and leaves are generally a little larger. The seed has coarse transverse, rather than longitudinal, ridges across the back. Plants of these species have been misidentified and referred to P. niruri which is, however, a different plant not reported from Trinidad and Tobago. P. urinaria is a native of tropical Asia, now widely established in the New World.

Habitat and Distribution

Common as a weed of disturbed and waste ground. Although first described from West Africa, this species is a native of tropical America which has subsequently become pantropical.

Medicinal Uses

Herbal infusion is taken for oliguria. Special precautions should be taken in its use as it is generally believed to be abortifacient.

Wong (1976) states, "Herb decoctions for oliguria and venereal diseases".

Biodynamic Notes

A number of chemical analyses have been done on P. amarus, but, so far, no connections have been made with the usage of this plant (Morton, 1981).



(URTICACEAE)

Description

Small branched glabrous prostrate pendulous (on banks) or erect herb, with usually soft stems and numerous obovate opposite leaves; ranging from 1.5 - 7 mm long, these rounded at the tip, wedge-shaped at the base. Flowers unisexual, minute, in very shortly stalked inflorescences clustering at the nodes. Anthers of male flowers opening elastically.

Habitat and Describtion

Common as a weed of damp banks, stony pathways and flower-pots. Throughout all warm parts of the world and in hothouses in temperate countries.

Medicinal Uses

A tea is taken for oliguria.



(MYRTACEAE)

Description

A tree to 15 m high with smooth whitish bark variegated in large patches with light colours, the few major branches ascending. Young twigs 4-angled and slightly flattened, bearing rich green highly aromatic leaves in opposite pairs. Leaf-blades oblong to elliptical, (4-) 6-12 (-20) cm long, blunt at the tip, prominently net-veined. Inflorescence paniculate with many small flowers. Callyx with 5 spreading sepals, the lobes much wider than long and not clearly defined. Petals white, 3 mm long. Berries subglobose to ellipsoid, 8 - 10 mm long.

Habitat and Distribution

This species is native almost throughout the Caribbean region from Cuba to Tobago, as well as in Venezuela and the Guianas. It has been brought into cultivation in Florida, the Bahamas, Jamaica and Trinidad and, further afield in thee East Indies and other parts of Asia and the Pacific. The tree is locally plentiful in Tobago where natural populations have been augmented by planting in the past and regeneration takes place vigorously.

Medicinal Uses

Leaf decoctions are sometimes used for colds.

Wong (1976) states, "Leaf decoctions for flu, cold in chest, pneumonia, fever, stroke. Leaf in shark oil for pleurisy".



BAY RUM TREE

(PIPERACEAE)

Description

Shrub to 3 m, or more rarely a tree to 7 m high, with stems conspicuously swollen at the nodes and the internodes often rough with numerous small warts. Leaves more or less elliptical, mostly 7- 14 cm long and 2 - 6 cm wide, unequal at the base, pinnately nerved, rather dark green and shiny. Flowers in erect spikes 10 - 12 cm long and up to about 3.5 mm thick.

Habitat and Distribution

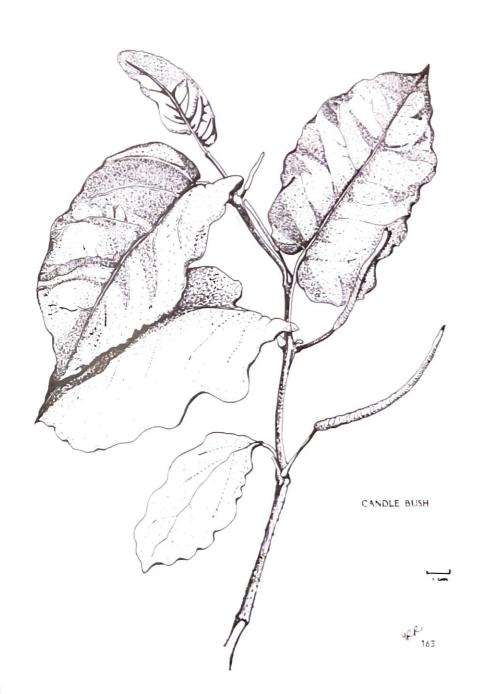
Native from Mexico to northern South America and in Jamaica (rare), Hispaniola and Trinidad. Very common in Trinidad where it is a regular component of secondary thickets, hedgerows and fence-lines.

Medicinal Uses

Used for bathing hunting dogs to stimulate their senses. Tea used for high blood pressure.

Biodynamic Notes

The Piper species are under intense biological activity study (Atal et al., 1975).



PLANTEN

Plantago major

(PLANTAGINACEAE)

Description

Annual or short-lived perennial herb developing a basal rosette of leaves. Leaf-blade broadly ovate-elliptical, blunt at the tip, narrowing to a more or less distinct stalk at the base, longitudinally veined, up to about 18 cm long and 12 cm broad. Inflorescences central and scapose, the scape (stalk) often 20 cm or more long, the spike as long or longer. Flowers numerous, green. Sepals 4. Corolla-lobes about 1 mm long. Capsule 3 - 4 mm long with about 30 seeds nearly 1 mm long.

Habitat and Distribution

Common in damp sandy or gravelly places, occasionally cultivated. Native of the Old World now in most of the West Indian islands and otherwise cosmopolitan.

Medicinal Uses

The leaf juice is used as eyedrops. A leaf is placed over the mouth of a clean cup, a hot iron is placed on it and the juice is collected.

Wong (1976) states, "Leaf tea, dew on leaf, or leaf juice used as eyewashes for ophthalmia".

Biodynamic Notes

A variety of constituents of uncertain pharmacological significance have been identified in this plant (Morton, 1981).



GERITOUT

Pluchea symphytifolia (Syns. P. caroliniana and 'P. odorata')

(COMPOSITAE)

Description

Coarse faintly aromatic undershrub or shrub with downy branches up to about 3 m high. Leaves spirally arranged, elliptical, sometimes with a few shallow teeth, acute, roughish-puberulous above, softly woolly beneath, up to about 15 cm long and 6 cm broad. Inflorescences compact corymbs with numerous flowerheads. Capitula 5 - 6 mm long and broad, of many light pink or dull mauve florets, giving rise to minute achenes bearing a spreading silky pappus.

Habitat and Distribution

Common in open waste places in both inland and coastal localities. Native from Florida to Venezuela and in Bermuda and most of the West Indian islands.

Medicinal Uses

Two leaves per cup of tea is used alone or mixed with other plants for colds and fevers. The leaf warmed with soft candle is applied to the head for headaches.

Wong (1976) states, under Pluchea odorata, "Leaves in decoctions for flu, fever, pneumonia, hypertension, headache; in eyewash for ophthalmia. Leaf poultice for cold in head".

Biodynamic Notes

Leaf extracts gave strongly positive tests for tannins.

Footnote

The use of the name P. odorata, common in the literature for this plant, was based on a misidentification.



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(COMPOSITAE)

Description

An aromatic glaucous erect annual herb up to 1 m or more high. Leaves spirally An aromatic glaucous erect annual field on long and 2.5 cm broad, narrowed at arranged, elliptic or oblong, up to 6 cm long and 2.5 cm broad, narrowed at arranged, elliptic or oblong, up to 6 cm long and 2.5 cm broad, narrowed at the base into a slender stalk, thin-textured. Flower-stalks swollen upwards, 2 to long, solitary or few together, bearing heads up to 2.5 cm long and 5 mm broad with five involucral bracts and about 30 green, purple-tipped florets. Achenes about 8 mm long with numerous slender barbellate setae.

Habitat and Distribution

Occasional on waste ground; throughout tropical America.

Medicinal Uses

A quantity of the entire bush is boiled in water, and then left to stand overnight in the dew. The aqueous extract is then used as an eye-wash.

Biodynamic Notes

A positive test for alkaloids in the plant extracts of P. ruderale has been obtained.



PURSLEY

PUSLEY

(PORTULACACEAE)

Description

Diffusely branched short-lived herb with rather fleshy stems and leaves. Leaves Diffusely branched short-lived need arranged on the stem, up to about 3 broad. Flowers in terminal clusters subtended by floshing terminal clusters subtended by floshing terminal clusters. obovate to spatulate, irregularly arranged on the stem, up to about 3 - 4 cm long and 2 cm broad. Flowers in terminal clusters subtended by fleshy bracts. Sepals keeled. Petals 4 - 6, deeply notched, light or dark yellow, about 5 mm long. Stamens 9 - 15. Capsule circumscissile. Seeds black.

Habitat and Distribution

A very common weed of cultivated and undisturbed land. Native of the Old World tropics now in all warm countries.

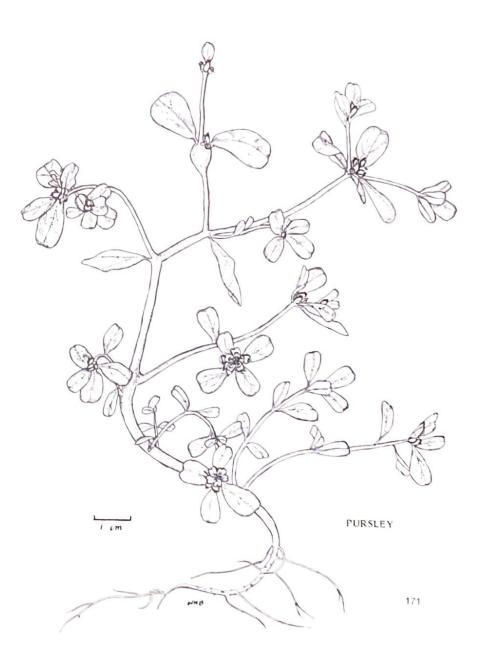
Medicinal Uses

For worms in children, the fresh leaves are eaten with a little salt. Also a tea is made from the leaves for the same purpose.

Wong (1976) states, "Herb teas for intestinal worms, palpitation, empacho".

Biodynamic Notes

Insecticidal activity has been attributed to this plant (Morton, 1981). Oxalates and nor-Adrenaline also have been isolated from P. oleracea indicating a possible hazard in the taking of its teas (Adams et al., 1963).



Psidium guajava

(MYRTACEAE)

Description

Shrub or small tree, rarely over 7 m high, with bark peeling in large smooth thin flakes. Leaves opposite in pairs on 4-angled twigs, elliptical or oblong, 7-14 cm long, appressed-hairy beneath, pellucid-dotted. Flowers usually solltary, the calyx closed in bud and splitting irregularly on opening into usually five lobes. Petals white. Stamens numerous. Fruit globose or pear-shaped, mostly up to about 6 cm long, ripening yellow with yellow or pinkish flesh, strongly aromatic.

Habitat and Distribution

Sometimes cultivated but also very common as an adventive in pastures (ruinate or lastro) and wayside thickets. Throughout the American tropics and introduced into the Old World.

Medicinal Uses

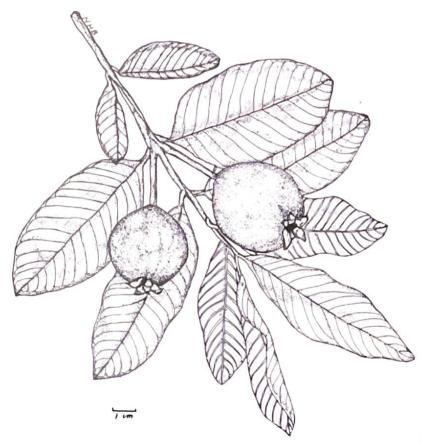
In the treatment of diarrhoea the young leaves, the bud or the bark are used in a tea. This tea is also used for feverish conditions.

Wong (1976) states "Tea of leaves for heat, diarrhoea, dysentery. Bark tea for diarrhoea, dysentery. Tea of fruit for dysentery."

Biodynamic Notes

High Vitamin C and high tannin levels are found in Guava leaves and fruit (Watt and Breyer-Brandwijk, 1962). Also the essential oils of Guava have been chemically analysed (Wilson and Shaw, 1978).

GUAVA



Ricinus communis

(EPHORBIACEAE)

Description

Short-lived shrub or small tree, usually up to about 3 or 4 m high. Leaves Short-lived shrub or small tree, usually beltate and palmately lobed into 7 or spirally arranged, long-stalked, the blade peltate and palmately lobed into 7 or more toothed lobes, up to 60 cm broad. Inflorescences terminal, the male more toothed lobes, up to 60 cm broad the female towards the base and the female towards the tip. more toothed lobes, up to 60 cm bload. Introduce terminal, the male flowers clustered towards the base and the female towards the tip. Stamens flowers clustered towards the base and the callyx deciduous. Capsule oblong, numerous with branched filaments. Female callyx deciduous. Capsule oblong, numerous with pranched mannered. Female caryx deciduous. Capsule oblong, spiny or rarely smooth, 3-valved, up to about 24 mm long. Seeds carunculate, variously mottled greyish or brown, 10 - 17 mm long.

Habitat and Distribution

Common as a casually cultivated plant and as an adventive in thickets and on Common as a casually cultivated profit tropics now widespread. There are many waste ground. Native of the Old World tropics now widespread. There are many waste ground. Native of the old world topics how wiscopieda. There are many varieties of this species differing in stature, colour of foliage, size and shape of fruit and colour and size of seed.

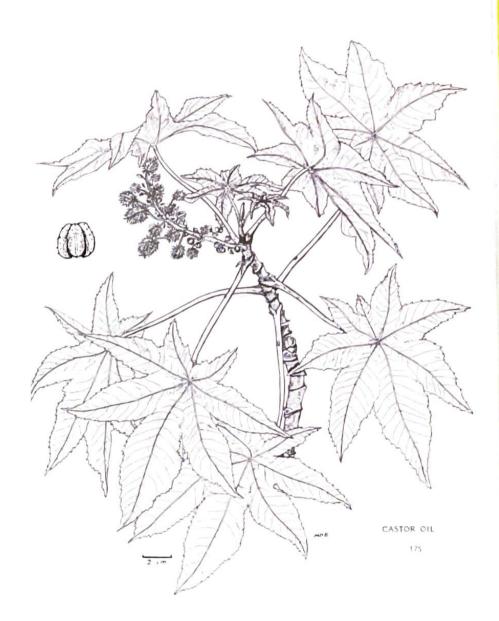
Medicinal Uses

The seed oil is used as a purgative. The leaf is rubbed with soft candle, warmed over a fire and then tied on the forehead for headaches.

Wong (1976) states, "Leaf is poultice for stomachache, erysipelas, flu, wong (1970) states, liu, inflammation of womb. Seed oil consumed during pregnancy, postpartum period, for empacho".

Biodynamic Notes

Ricin is a toxic glycoprotein in the seed of this plant (Adams et al., 1963) and it is currently under study in the chemotherapy of cancer (Lewis and Lewis, 1977).



BOIS BANDE BWA BANDAY

(PROTEACEAE)

Description

A medium-sized tree with simple or pinnately compound alternate leaves. Leaf-blade (or leaflet-blade) ovate, oblong or lanceolate, shortly cordate-acuminate with an obtuse or mucronate apex, acutely tapered at base, dentate or serrate-margined. Inflorescences axillary, laxly flowered, up to 8 cm long. Flowers white, fragrant, the perianth-lobes 7 mm long, linear, twisted. The two-seeded capsular fruit up to 4 cm long.

Habitat and Distribution

Through continental tropical America to Trinidad in lowland and submontane forests. R. tobagensis is known from only the original gathering in Tobago; it differs in having simple entire leaves on shorter stalks and more open inflorescences.

Medicinal Uses

An infusion made of a thumb-sized piece of the bark of Bois Bande in a cup of hot water is taken as an aphrodisiac. The effects are said to last for three days or more depending on the dosage.

Footnote

Other species of trees in Trinidad and Tobago are known also as Bois Bande and presumed also to have aphrodisiac properties. In the Euphorbiaceae are Richeria olivieri and Richeria grandis, the former being endemic to Trinidad and Tobago and quite common in Trinidad. The latter is in the Lesser Antilles and northern South America but rare in Trinidad. In the Chrysobalanaceae (vice Rosaceae) is Parinari campestris, a tree found in forests of northern Trinidad and also the Guianas and Brazil.



(ACANTHACEAE)

Description

Perennial herb with thick elongated fusiform roots in a fascicle. Shoots erect, rarely as much as 60 cm high. Leaves opposite in pairs, elliptical, up to 12 cm long and 4.5 cm broad. Inflorescence of few showy flowers. Calyx segments narrow, about 2 cm long, reflexed in fruit. Corolla trumpet-shaped, 3 - 4.5 cm across the limb, mauve to bluish purple, rarely white. Capsule straight, 2 - 2.5 cm long, opening explosively in wet weather.

Habitat and Distribution

Common in pastures and other non-arable grassy places, mostly at low elevation. General through the New World subtropics and tropics and established sporadically in East and West Africa and Asia.

Medicinal Uses

Used for oliguria as follows: about 100 g roots are crushed, and boiling water is added to make up about one litre of extract, which is cooled and then drunk. Greasy bush (Tournefortia hirsutissima) is also added in making the infusion in cases of burning sensation during urination.

An infusion is also taken in cases of diabetes and hypertension made from Lime root (Citrus aurantifolia), Pawpaw root (Carica papaya), Gully root (Petiveria alliacea), Sapodilla bark (Manilkara zapota) and Minny Root. In cases of venereal disease, this mixture is followed by a dose of Epsom salts. Male sufferers take the female Pawpaw in this mixture whilst the female sufferers take the male Pawpaw root instead in this infusion. The dose of this infusion is one cocktail glassful in the morning.

Wong (1976) states, "Roots in tea for oliguria, heat, flu; in tisanes and infusions for venereal disease, constipation".



Sambucus simpsonii (Syn. S. intermedia)

SIRRIO SIRIYO SYRIO

(CAPRIFOLIACEAE)

Description

Soft-wooded shrub or small tree up to about 6 m high. Leaves pinnately-compound, the lower leaflets often again divided into three; they are opposite with an interpetiolar stipular ridge; the leaflets elliptic-lanceolate, long-acuminate, serrate, up to about 11 cm long and 3.5 cm broad. The flowers are small, white and abundantly produced in a broad compound 4 - 5-rayed corymb. Corolla 5-lobed, 5 - 7 mm across the limb. Fruit a black or purplish-black berry 5 - 6 mm in diameter.

Habitat and Distribution

Native of the Southern United States and Central America, introduced and sometimes escaping from cultivation in other parts of the Caribbean.

Medicinal Uses

A syrup is made with the leaves and flowers for use against coughs and colds. Additional ingredients may include Hog Plum bark (Spondias mombin), old leaves of Bois Cano (Cecropia peltata), Kooze Maho (Urena lobata), Carpenter Grass (Justicia pectoralis), Double Hibiscus flowers (Hibiscus rosa-sinensis) and/or Water grass (Commelina elegans).



(SCROPHULARIACEAE)

Description

Much branched erect annual taprooted herb up to 60 cm or rarely more high. Much branched erect annual taprootes for whorled leaves. Leaves linear to Stems slender, glabrous, with opposite 5 cm long and 1 cm broad. Flowers oblong-elliptical, entire or serrate, up to 5 cm long and 1 cm broad. Flowers oblong-elliptical, entire or seriate, up to seriate commonly paired in the upper axis, stated, conditions the four equal lobes reflexed and densely bearded at the base. Capsule ovoidglobose.

Habitat and Distribution

Common weed of open ground, throughout the subtropics and tropics.

Medicinal Uses

Leaf juices are taken for worms and gastroenteritis in children.

Wong (1976) states, "Decoctions of root for dysmenorrhoea; of herb for wong (17/6) states, become Leaf juice for jaundice, marasmus, as diabetes, heat, diarrhoea, eczema. Leaf juice for jaundice, marasmus, as diabetes, near, diarrinea, eccenia. Leaf infusions to bathe infants with rash, antidote; in eyewash for ophthalmia. Leaf infusions to bathe infants with rash, sores, mange, marasmus".

Biodynamic Notes

Amellin is an extractive of the Sweetbroom used as an antidiabetic principle in Indian medicine (Mahato et al., 1981). 6-methoxybenzoxazolinone has been isolated from Sweet Broom roots and shown to be hypotensive. (Chen and Mingtyan, 1976).



(SOLANACEAE)

Description

Herb with slender spreading thinly hairy branches up to 60 cm or more high.

Herb with slender spreading thinly hairy branches up to 60 cm or more high. Herb with slender spreading thinly half with shallow soft prickles on the Stems weak, usually smooth but sometimes with shallow soft prickles on the Stems weak, usually smooth but sometimes on the blade narrowed on the ridges of the upper stem-branches. Leaves ovate, the blade narrowed on the often sinuate-margined or shallowly toothed, up to 14 cm to the ridges of the upper stem-branches. Leaves and the upper stem-branches and the upper stem-branches and the upper stem-branches. Leaves and the upper stem-branches and the upper stem-b stalk, acute, often sinuate-margined of sinuate-margined of stalk, acute, often sinuate-margined of stalk, acute, often sinuate-margined of sinuat 7 cm broad. Inflorescences umbelliform of the stalks, the pedicels spreading in all directions. Corolla-lobes white, 5, 2 mm long. Anthers yellow. Fruit a berry, ripening black.

Habitat and Distribution

Common as a weed of cultivation and disturbed ground. Throughout the American subtropics and tropics.

Medicinal Uses

In the treatment of shingles, leaf infusion is drunk, and the crushed leaves placed on a cloth are applied to the affected areas.

Wong (1976) states, "Leaf teas for fatigue; heat; infusion for constipation; mouthwash for boils on lips and tongue. Leaf juice for asthma".

Biodynamic Notes

The alkaloids of the Solanum species of plants are not generally regarded as The alkaloids of the Solation specified and rapidly detoxified following dangerous, because they are poorly absorbed and rapidly detoxified following dangerous, because they are poorly likely and following ingestion (Mahmood and Thakur, 1980). However, Solanum americanum (as S. ingestion (Mahmood and Friedler, potential human health hazard (Osman et al., 1976).



HOG PLUM PLUM BUSH

(ANACARDIACEAE)

Description

Tree up to 20 m high. Leaves spirally arranged, pinnately compound with usually 4 - 9 pairs of oblique-based leaflets, the leaflets 5 - 9 cm or more long, subentire, glabrous, acuminate. Flowers small in terminal panicles up to about 30 cm long, greenish-white, fragrant, the petals about 3 mm long. Fruit a drupe, the hard stone with several loculi with one seed in each. The ripe fruit ovoid or oblong, 3 - 4 cm long, yellow, fleshy, strongly aromatic.

Habitat and Distribution

Widespread in many situations and at least fully naturalised if not native.

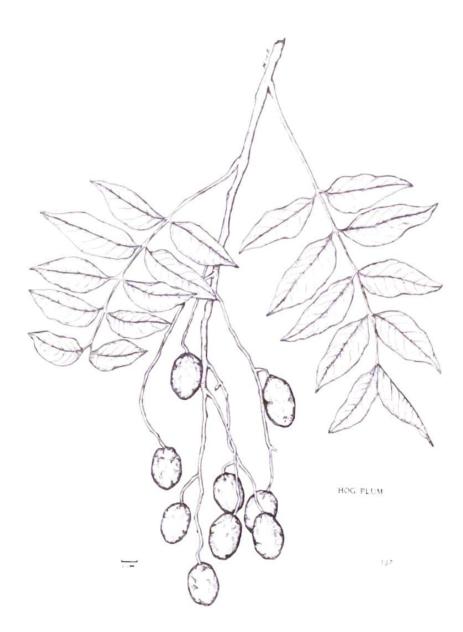
Medicinal Uses

The young leaves are boiled and the aqueous extract used as a gargle for sore throats.

Wong (1976) states, "Leaf decoctions are baths for sores, erysipelas; gargles for thrush, sore throat; drunk for colds, diarrhoea. Bark decoction bath for nephritis".

Biodynamic Notes

The tree bark contains tannins which may be responsible for the marked astringency (Morton, 1981).



VERVINE VORI-VINE

(VERBENACEAE)

Description

Herb or subshrub with ascending branches up to about 1 m high. Leaves, opposite in pairs, oblong-elliptical, long-tapered at base, blunt at tip, crenate, toothed, up to 9 cm long and 4.5 cm broad. Spikes up to about 0.5 m long, mostly about 2.5 mm thick, the flowers partly embedded. Corolla 8 - 10 mm long, bent, deep violet-blue. Fruit with 2 nutlets, about 7 mm long.

Habitat and Distribution

A common weed of pastures, especially in coastal or sandy situations, Subtropical and tropical America, introduced into the Pacific Islands.

Stachytarpheta cayennensis is a similar plant, often woodier but smaller in all its parts with a more slender spike and light blue-mauve or nearly white flowers.

Medicinal Uses

A tea is made from this plant for use as a lactogogue by nursing mothers. The tea is also taken as a cooling and to treat colds. The leaves are rubbed on the skin to treat "lotta" or "liver spot"

Wong (1976) states, "Leaf juice drunk for eczema, rash, vitiligo, boils, worms, as purgative".

Biodynamic Notes

Blood-pressure increasing action of the leaf extracts of Vervine is due to Gamma-aminobutyric acid (Durand et al., 1962).



MARIGOLD STINKING SUZY SUSI

(COMPOSITAE)

Description

An erect glandular-aromatic leafy herb up to about 40 cm high. Leaves opposite or alternate, deeply divided in a pinnate manner. Flower-heads about 4 cm alternate, stalks, with marginal ray-florets and central small tubuls. or alternate, deeply divided in a planty-florets and central small tubular disk. across on erect states, with mixture of yellow or red.

Habitat and Distribution

Commonly grown from seeds in flower-beds or pots as an ornamental. Originally Commonly grown from secultivated widely, especially in warm countries.

Medicinal Uses

An infusion of the flowers is prepared and then kept in the mouth to treat toothaches and also gum-boils.

Wong (1976) refers Stinking Suzy or Marigold to Calendula officinalis.

Biodynamic Notes

The flower extracts are antispasmodic and hypotensive (Dobrescu et al., 1970). Cercaricidal agents have been isolated from T. patula (Graham et al., 1980).



TAMARIND

(LEGUMINOSAE-CAESALPINIOIDEAE)

Description

Tree up to 16 m or more high, often of great girth but rarely with very long or spreading branches. Bark with large hard brownish-grey flakes. Leaves pinnately compound up to about 12 cm long. Leaflets in 10 - 20 pairs, opposite, oblong, unequal at base, rounded at tip, mostly up to about 2 cm long and 6 mm wide. Racemes axillary and terminal, up to 4 cm long. Flowers yellow marked red, the three larger petals 13 - 15 mm long. Stamens three, united into a sheath. Pod light brown and corky outside, about 7 - 15 cm long and 2.5 - 3 cm thick. Seeds in a pulp, irregularly rounded, 11 - 13 mm in diameter.

Habitat and Distribution

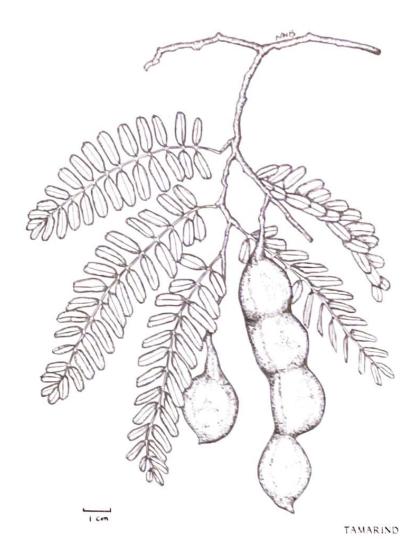
Native probably of tropical Africa, introduced and naturalized. Common near habitation in the subtropics and tropics of both hemispheres.

Medicinal Uses

The leaves are used to make a tea to treat hypertension.

Biodynamic Notes

The high tartaric acid content of the Tamarind pulp makes it a very useful laxative (Bezanger-Beauquesne et al., 1975)



GREASY BUSH JIGGER BUSH ROUGH BUSH

(BORAGINACEAE)

Description

Either an erect shrub to 2 m high or, more usually, a robust climber with stems up to 6 m or more long. The stem and leaves are hispid with coarse often brownish hairs. Leaves broadly elliptical to ovate, acutely acuminate at tip, mostly up to about 15 cm long and 8 cm broad, frequently larger. Inflorescence rather compact with branches about 4 cm long, uncolling in development. Flowers along one side of the branch, about 7 mm long, white, fragrant. Fruit a soft white berry drying to two nutlets.

Habitat and Distribution

A common weedy shrub of thickets and woodland margins. Throughout tropical America.

Medicinal Uses

This plant is used to make a cooling drink for the bladder. For every litre of water use 150 g bush to make the infusion. To make a stimulating bath use Jiggerbush, Stinging Nettle (Laportea aestuans), Money Bush, Pigeon Pea leaves (Cajanus cajan) plus some Lime juice (Citrus aurantifolia).



KOOZE MAHO KUZE MAHO

(MALVACEAE)

Description

Erect strong-stemmed shrubby herb up to 1.5 m high. Leaves spirally arranged, very variable, typically with more or less orbicular slightly angled blades up to 1.2 cm long and broad, otherwise more or less deeply divided into five lobes, axillary. Sepals 5 - 7 mm long. Petals pink, darker at base, about 15 mm long. Carpels 5, indehiscent, with numerous hooked spines on the outer surface.

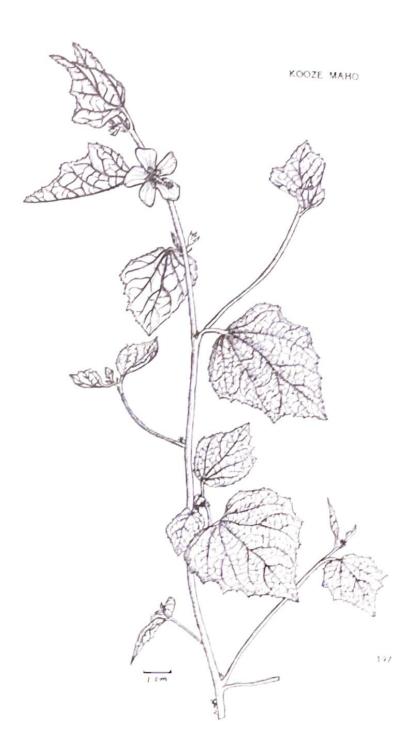
Habitat and Distribution

Common along roadsides and in thickets and waste places. General in the tropics. The variants in the degree of lobing of the leaves are sometimes regarded as distinct species, but intermediates occur.

Medicinal Uses

The leaves are made into an infusion which is taken in the treatment of urinary burning and "inflamed kidneys".

Wong (1976) states, "leaf infusion for heat, hangover. Teas for flu and stomachache".



RUCTION ROKSHAN RUCKSHAN

(COMPOSITAE)

Description

Shrub with stems scandent, distantly branched. Leaves ovate to broadly elliptical, 5-12 cm wide, acute or acuminate at apex, entire or very shallowly toothed, sparsely pubescent or almost glabrous above, thinly or more densely cymes curved, up to 10 cm long; involucre bell-shaped, 4 mm high. Corolla purple or mauve, 6 mm long. Achenes pubescent, 1 mm long; pappus white, the

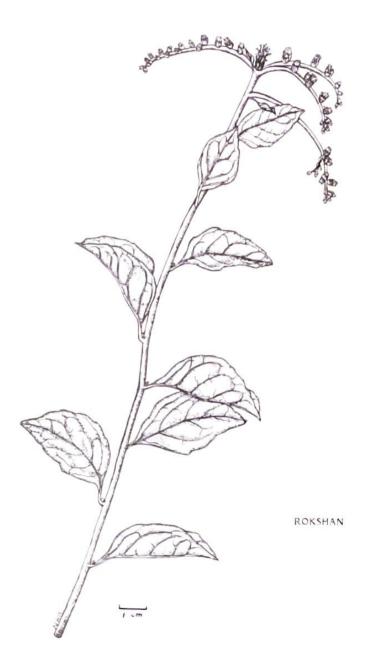
Habitat and Distribution

Thickets and hillsides in drier areas of Trinidad and Tobago. Found elsewhere in Central and South America.

Medicinal Uses

Used generously in the making of baths. Tea also taken for fevers.

Wong (1976) states, "Leaf baths for bewitchment. Tea of the root $_{\rm is}$ aphrodisiac".



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GLOSSARY OF TECHNICAL TERMS

Terms used in the Botanical Descriptions (a)

a small dry single-seeded fruit, not splitting when ripe, achene e.g. a Sunflower 'seed'.

of a leaf-margin concave-sided behind the tip, e.g. leaf of acuminate Capsicum.

sharply pointed. acute

of leaves arranged successively in different positions as alternate distinct from opposite or whorled.

plants having a life-cycle completed within one year, often annual used loosely for a short-lived plant propagating only by seed.

the part of the stamen which contains the pollen. anther

of parts lying close by their surfaces. appressed

of tree-like form. arborescent

- a small area distinct on a larger surface; a portion of leafareole blade encircled by veins.

- an appendage, usually fleshy or leathery, derived from the arll seed-stalk and partly or wholly enclosing the seed.

- jointed; separating cleanly at a certain position. articulated

ascending of branches or veins directed forward and outwards.

awn. awned referring to a fine terminal bristle.

the angle between a leaf and the stem from which it arises axil on the upper side; axillary - positioned in or arising from the axil.

barb a backwardly directed bristle or spine.

barbellate with small barbs.

berry a soft fruit with several seeds embedded in pulp, e.g. tomato; the Avocado is a single-seeded berry.

bipinnate - of a compound leaf with divisions of the second order of branching.

bisexual - having both male and female reproductive parts in the same

flower (or inflorescence) = hermaphrodite.

bract		a leaf forming part of an inflorescence.	corm	-	a storage and perennating organ formed from a shortened and thickened stem, e.g. Xanthosoma (Tannia).
bracteole		a bract closely associated with a single flower.			
bulb		a storage and perennating organ comprising a short stem bearing several appressed overlapping fleshy leaf-bases, e.g.	corolla	-	the inner floral envelope, consisting of, usually thin, showy, white or coloured, petals.
bulbil		a plantlet formed as a unit of vegetative multiplication from an axil, inflorescence, leaf-surface or leaf-margin	corona	-	a circle of appendages within the flower between the corolla and the stamens, e.g. Passiflora (Passion flower),
odion		an axil, inflorescence, leaf-surface or leaf-margin.			Nerium (Oleander) or Asclepias (Red Head).
caducous	-	soon falling off.	corymb	-	a flat-topped inflorescence in which flowers on stalks of different lengths are positioned more or less in the same
calyx	-	the outer floral envelope, consisting of, usually green, sepals.			plane.
campanulate		bell-shaped.	crenate	-	of a leaf-margin with blunt or rounded teeth; crenulate with very small such teeth or crenation.
capitulum	•	the flower-head of Compositae, comprising several florets	culm	-	referring to the erect leafy shoot or a grass or sedge.
		and the second of the second o	cuneate	-	wedge-shaped.
capsule	-	a fruit derived from an ovary of two or more carpels, opening when ripe by slits or pores or splitting by valves to release the seeds, e.g. Gossypium (Cotton).	cusp	-	of a (leaf-) tip with an abrupt broad-based dagger-like point.
carpel		the unit of construction of the female part of a flower; the ovary may comprise one or more carpels.	cyme	-	an inflorescence in which each subsequent branch is terminated directly by a flower, the oldest flower lying in a central position and the development being centrifugal; or
caruncle	-	an appendage to a seed formed as an outgrowth near the point of attachment, e.g. Ricinus (Castor Oil).			cymose; cymule - a cluster of flowers of similar determinate pattern.
caudate	-	of a leaf -tip drawn out into a tail.	deciduous	-	of the recurrent, usually seasonal, shedding of leaves.
censer		a form of capsule which sheds its seeds as it swings to and fro.	decumbent	-	of shoots or branches lying along the ground.
			deflexed	-	bent downwards or backwards.
		with a fringe of uniform hairs along the margin.	dehiscent	-	opening spontaneously, usually as a function of drying out, e.g. capsules or anthers.
Circumscissine	-	a form of capsule of which the top is shed like a lid from a pot.	dentate	_	of a leaf-margin with triangular pointed, usually more or
coma	-	a tuft of hairs at one end of a seed, e.g. Asclepias (Red			less equal-sided teeth.
		Head).	determinate	7	ending abruptly, as of the branches in a cymose inflorescence.
Compositae (Asteraceae)	or -	the Daisy family.	digitate	-	of a compound leaf in which the leaflets diverge from the the
compound	-	an organ of several similar parts, united or associated in a definite way; a compound (as opposed to a simple) leaf has	dianala		same point.
		several or many leaflets; a compound ovary comprises two or more carpels.	dioecious	-	of a species of plant having unisexual flowers, the female on one individual and the male on another, e.g. Carica (Papaya).
contorted		with parts of a set, i.e. sepals or petals in a flower-bud, overlapping in the same direction, and sometimes also twisted.	disk	-	the central tubular, usually hermaphrodite, florets in a capitulum of the Compositae.
cordate	e une	of a leaf-blade with a more or less deep notch at the base.	distal	-	the part of an organ farthest from its point of attachment; the opposite of proximal.
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divaricate	-	divergent; widely forked.			
drupe	-	a soft fruit containing a single hard 'stone', the 'stone' being part of the fruit-coat; if derived from one carpel, the 'stone' contains a single kernel, the seed, the Mangifera (mango); if comprising several carpels, the single stone may have several chambers with a seed or seeds in	herb	-	a plant with a soft, non-woody, impermanent stem.
			hispid	-	referring to a covering of bristly hairs.
			indehiscent	-	not splitting open at maturity, cf. dehiscent.
		each, e.g. Spondias (Hog Plum).	inflorescence	-	the part of a plant bearing flowers, and the way the flowers are arranged.
ellipsoid	-	a three-dimensional body of elliptical outline.			
elliptical, elliptic	-	of a flat organ, such as a leaf-blade, of elliptical	internode	- 1	the portion of stem between adjacent nodes, q.v.
			interpetiolar	\sim	the position on the stem between the points of attachment of petioles at the same node, usually with reference to
endemic	-	of a group of plants, or a species, known to occur only			stipules.
entire	-	of a flat organ, i.e. leaf or petal, with a smooth margin	involucre	-	as cup-like structure usually protective of a flower or flowers in an inflorescence, cf. capitulum, epicalyx.
epicalyx	~	and the second s	kernel	-	the seed in a 'stone' fruit, cf. drupe.
		(Passion	lanceolate	-	a shape (e.g. leaf-blade) about four or five times as long as broad and broader in the proximal half.
fern	-	a kind of flowerless plant with well developed stems, roots and leaves reproducing by spores rather than by seeds.	leaf-axil	-	see axil.
filament		the stalk of a stamen supporting the anther.	leaf-blade	-	the lamina or broad flat part of the leaf subtended by the petiole.
fimbriate	-	a margin divided into short tapering twisted lobes or hair-like outgrowths.	leaflet	-	the laminalar unit of a compound leaf.
floret	-	a small flower comprising with others the specialised inflorescence of such as the capitulum in Compositae or the spikelet in grasses or sedges.	ligule	-	in the family Compositae, the outwardly directed corolla-limb of a ray-floret.
		5	limb	-	the distal, usually lobed, part of a tubular corolla or calyx.
flower-head	-	an inflorescence of several or many closely associated flowers; cf. capitulum and floret.	linear	-	long and narrow with parallel margins.
follicle	-	a pod-like fruit derived from a siegle	lint	-	the mass of soft hairs developed on the seed-coat of Cotton.
frond		Account the bost of the second	lip	-	the prominent upper or lower midlobe of the calyx or corolla of an irregular flower.
	-	a term usually applied to the leaf of a fern, sometimes to those of palms.	lobe	_	the projecting portion of an indented surface or a cleft
fruit	-	the product of a female or hermaphrodite flower, normally			margin; of sinus.
		after fertilisation and accompanying the formation and maturation of seeds.	loculus	-	the cavity containing the seeds in an ovary or fruit, or the pollen in an anther.
glabrous	-	without hairs or other superficial appendages.	midrib	-	the central, usually thickened, vein of a leaf or leaflet
gland	-	a secretory structure oither			blade.
		tissue; a warty or fleshy outgrowth with or without a stalk and not necessarily performing a secreting role.	monoecious	-	of a species of plant having unisexual flowers borne on the same individual, e.g. (Ricinus (Castor Oil) or Zea (Sweet
glaucous	-	of a surface with a thin waxy, often pale or bluish, bloom.			Corn).

mucronate	-	ending abruptly in a short stiff point.	perennial	-	plants having a life-span of indefinite duration greater than two years; all woody plants and those herbaceous ones
nerve	-	the principal veins of a leaf diverging directly from the midrib.			capable of perpetuating themselves by new growth. the floral envelopes, calyx or corolla, or both.
node	-	the point on a stem where a leaf, scale-leaf, bract or bracteole is or has been borne; also the site of	perianth	-	
		origins and sometimes of roots.	petal	-	the unit of the corolla, q.v.
nutlet	-	a small dry one-seeded indehiscent fruit with a hard fruit-	petiole	-	the stalk of a leaf.
oblanceolate	i.	of lanceolate shape but reversed, i.e. broader in the distal	pinna	•	a primary division of a compound leaf where these are arranged along each side of a common rachis; pinnate (adj.). A pinna may be a simple leaflet or it may be again divided, see bipinnate, tripinnate, etc.
oblong	-	of a (leaf-) shape two or more times as long as broad with more or less parallel sides and usually rather blunt apex and base.	plaited		a form of folding lengthwise creating $\boldsymbol{\mathbb{W}}$ or \boldsymbol{M} sections or multiples thereof.
obovate	-	of ovate shape reversed.	pod	-	the typical fruit of leguminous plants, a capsule dehiscing along two sutures into two valves, sometimes explosively.
obtuse	-	blunt, rounded or wide-angled.			Each valve bears a row of seeds positioned alternately with respect to the other valve.
opposite	-	of leaves inserted two at the same node on opposite sides of the stem, also of branches; of organs positioned on the same radius, as of stamens in line with petals rather than alternating with them.	polygamous	-	of a species which has male, female and hermaphrodite flowers, on the same or different individual plants.
orbicular	-	circular or nearly so in outline.	proximal	-	the part of an organ nearest to its point of attachment; the opposite of distal.
ovary	•	that (female) part of the flower in which seeds are formed and will become part of the fruit.	puberulous	-	covered with very short soft hairs.
ovate			pubescent	-	covered with soft hairs.
Ovate		a shape of the outline of an egg, up to about twice as long as broad and broader in the proximal half.	pulvinus	-	a swelling, usually at the base of a petiole, whereby leaf movements may be effected.
ovoid		a three-dimensional body of ovate outline.	quadripinnate	-	of a compound leaf divided to the fourth order of branching.
palmate	-	lobed like a hand with spread fingers.	raceme	-	a simple, often elongated, inflorescence in which each
panicle	•	a many-flowered inflorescence in which the main axis is branched, each branch bearing several flowers or being again branched; paniculate (adj.).			flower is stalked and the first to open is at the base; the development of the axis is indeterminate, of the flowers centripetal, cf. cyme; racemose (adj.).
pappus			rachis	_	the main axis of a compound leaf, the continuation of the
pappus	-	the scaly, bristly or hairy appendages surmounting the fruit (achene) of Compositae and serving as aids to dispersal.			petiole to which pinnae or leaflets are attached; the main axis of an inflorescence (sometimes spelt rhachis).
pedicel	-	the stalk of an individual flower in an inflorescence.	ray	-	of the marginal florets of a capitulum of a member of
peduncle		the stalk of a solitary flower or the main (unbranched) stalk of an inflorescence or of a distinct partial inflorescence.			Compositae where these have ligulate corollas, hence ray-florets; cf. disk; of some kinds of inflorescence with long spreading branches.
pellucid	-	translucent.	receptacle	-	the expanded top of the pedicel to which the flower-parts
peltate	-	of a leaf where the stalk is attached to the undersurface rather than at the margin, e.g. Colocasia (Dasheen).			sepals, petals, stamens and ovary are attached; the modified top of the peduncle in Compositae to which involucral bracts, receptacle-scales and florets are attached in a flower-like inflorescence (capitulum) is also referred to
212					as receptacle (or torus).

receptacle- scale	-	a small chaffy bracteole accompanying the florets in the of some Compositae.	sinuate		of a flat structure (leaf-margin) with a wavy edge.
reduplicate	-	folded backwards (inverted V), e.g. the leaflet of C_{OCOS}	sinus	- 1	the recess in an indented surface or a cleft margin; complement of lobe.
reniform	-	kidney-shaped.	spathe	-	a specialised, often enlarged, leaf or bract enclosing an inflorescence or flower-cluster, cf. also sheath;
retrorse	-	directed backwards or downwards like a barb.			spathaceous (adj.).
rhizome	-	an undergound, often horizontal, stem producing erect leafy	spathulate	-	spoon-shaped with a long-tapering base.
		thus distinguishable from a root.	spicate	-	arranged in a spike.
rhombic, rhomboid	-	approximating to the shape of a playing-card diamond.	spike	-	as of a raceme but the flowers are not stalked.
rosette	-	of leaves arranged in a radiating pattern at or near the base	spikelet	-	the specialised partial inflorescence of grasses and sedges.
			spiral	-	in reference to the insertion of parts on an axis, e.g. carpels in a primitive flower, florets in a capitulum or
rugose	100	rough-textured surface, usually in the form of transverse or parallel wrinkles.			leaves in Agave (Century Plant); leaves in a loose spiral arrangement are often referred to as alternate.
sap	,	fluid exuding from broken leaves or cut branches or roots from whatever internal source whether latex tubes, glands or conducting elements.	sporangium	-	the minute capsule-like organ which produces and discharges spores in ferns.
scape			stamen	-	the male organ in a flower, producing pollen.
That I have		a leafless unbranched flower-stalk (peduncle), e.g. Hymenocallis (Spider Lily) or Allium (Onion); scapose	stellate	-	of hairs with radiating branches.
seed	-	the main feature of multiplication and perpetuation of species of flowering plants is seed production; seeds are	stigma	-	the structure on which pollen is received in the female part of the flower.
		formed in the ovary of the flower after pollination and fertilization; they mature in and are dispersed by fruits.	stipe	-	the petiole of a fern leaf; the stalk of an ovary or carpel; stipitate (adj.).
sepal	-	the unit of the calyx, q.v.	stipule	-	an appendage to the leaf at or near its base or attached at the same node, usually itself leaf-like; stipular or stipulate
serrate	-	of a leaf-margin toothed like a saw.			(adj.).
serrulate	-	serrate with very small teeth.	stolon	-	a stem branch spreading and rooting across the surface of the ground; stoloniferous (adj.).
sessile	-	without a stalk.	stone	-	the hard inner layer of an otherwise soft fruit containing the
seta		a stiff hair or bristle; setae (pl.): setose (adj.).	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		seed; cf. drupe.
sheath	-	a broad clasping or enclosing structure, usually applied to the proximal part of grass leaves and to protective bracts or bracteoles, cf. also spathe.	striate	-	marked with parallel grooves and ridges.
			sub-	-	a prefix meaning 'rather' or 'almost'.
shrub	-	a woody plant normally not more than 5 m tall and branching at or very near ground level.	suture	-	the line of junction in a carpel wall, often the same as a line of dehiscence.
simple	•	undivided, the opposite of compound; of a leaf comprising only one blade, or of an ovary or fruit derived from only one carpel, e.g. a legume pod.	taproot	-	the main downward growing root derived from the radicle after germination and often persistent.
			tendril	-	a slender outgrowth of a climbing plant serving to form an attachment to a support usually by curling around it.

densely covered with hairs. tomentose a woody plant of indefinite height with a single main stem of a compound leaf divided to the third order of branching. tripinnate a small outgrowth or swelling; tuberculate (adj:). tubercle an inflorescence in which all the flower-stalks arise from umbel umbelliform resembling an umbel. a small shrub or herb with some woody characteristics. undershrub undulate of a wavy surface. unilocular of an organ with a single cavity. a flower having stamens only (male or staminate) or ovary unisexual and stigma(s) only (female or pistillate). valve one segment of a capsule after dehiscence. a strand of vascular tissue; venation - the pattern of veins vein vine a climbing plant. a cyclical arrangement of three or more structures (leaves) whorl at the same node.

(b) Terms used under Medicinal Uses

an agent which induces abortion. abortifacient

absence of the menstrual flow. amenorrhoea

an agent which excites sexually. aphrodisiac

a drug which relieves flatulence. carminative

painful menstruation. dysmenorrhoea

an aqueous solution of active principles prepared by boiling decoction

the plant or plant part.

an aqueous or alcoholic solution of active principles made by infusion

pouring water or alcohol on the plant or plant part.

an agent which increases milk production in nursing mothers. lactogogue

skin infection. lohtah (lotta)

a condition of too little urine excretion. oliguria

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