

ANCIENT AZTEC HERBAL REMEDIES

Introduction and Caution

Since ancient times the Aztecs used plants and herbs to cure numerous diseases and afflictions; in reality modern pharmacopia uses the natural plant and herbs of our earth in the elaboration of the medicines, tonics and all matter of prescribed and over the counter drugs we use.

Today; Natural medicine in it`s simplest form is less risky and more economical to alevate the pains and sufferings humans have that dont require surgery

I urge you to read the following pages, you never know there could be a cure for your ailment in your garden, cupboard or pantry.

Follow me into the Fantastic world of plants and herbs.

(All information is from the book "Ancient Aztec Medicinal Remedies", Library, Internet Resources and Family.)

CAUTION!

Just because herbs are natural substances doesn't mean that they can be used indiscriminately. Herbs can be strong medicine. Before trying any herbal remedy, be sure that you know what it does, how it is used, and any possible side effects. Never exceed the recommended dose. A doctor should monitor the use of any medicinal herb, making sure it does not conflict with medications already prescribed, and will not worsen conditions already known. Also, the sensitivity or allergic reaction can best be handled by a doctor.

As a general rule, new medical problems can occur from ingesting herbal remedies, but the potential for an allergic or toxic reaction is always there. In addition, about 1% of all plants are poisonous. Therefore, it is not recommended that people gather their own herbs unless they are skilled botanists. **Pregnant women should take herbs only under the direction of a knowledgeable physician or midwife.** Some herbs are contradicted in certain diseases and/or conditions. **Parents should check with a qualified health care practitioner before giving herbs to children.**

The information given on this site is for educational purposes only. Used as a reference; not as a means of diagnosis and/or treatment, it can act as a guide, but only with the cooperation and advise of medical supervision. It is not within the scope of any collection of information to perform the medical duties of the health care profession.

Think of the body as a test tube in a chemistry lab. Anything that is put into that test tube, or taken out, will cause a reaction. If the reaction is desirable, fine. But if it is not desirable, it should be changed with the help of medical advice. Even water causes a change in body chemistry.

Some people think that herbal tea is good, simply because it is a natural product. This is not only foolish, but dangerous. Every herbal tea should be weighed against possible complications, side effects, etc., before taking on a daily basis. Everyone knows that a great many modern day medications originated from herbs. Even aspirin was originally discovered from willow tea. The herbs in herbal teas should be known and checked against any medication, whether by prescription or over-the-counter, for compatibility and/or side effects. Sometimes taking herbal tea indiscriminately can cause unwanted or unnecessary conditions or illnesses, even death. Always consult medical advise before using herbal tea or herbs in any form.

The honey referred to in the information given on this site is natural honey of the local region. The honey commercially obtained has been distilled and does not have the minute amounts of local natural flora.

As already stated, herbs are powerful drugs. They should always be used with care and under medical supervision.

<u>Abedul-Birch</u>	<u>Acebo-Holly</u>	<u>Aciete de Oliva-Olive</u>	<u>Achicoria-Chicory</u>	<u>Achiote-Annatto</u>	<u>Ahuahuete-Cypress</u>	<u>Ajenjo-Wormwood</u>	<u>Ajo-Garlic</u>	<u>Ajonjoli-Sesame</u>	<u>Albahaca-Basil</u>
<u>Alcanfor-Camphor</u>	<u>Amapola-Poppy</u>	<u>Apio-Celery</u>	<u>Arnica-Arnica</u>	<u>Arrayan-Myrrh</u>	<u>Avena-Oats</u>	<u>Aguacate-Avocado</u>	<u>Axocopaque-Gaultheria</u>	<u>Azahar-Limeflower</u>	<u>Berros-Watercress</u>
<u>Boldo-Boldo</u>	<u>Borragge-Borage</u>	<u>Cactus-Cactus</u>	<u>Calabaza-Pumpkin</u>	<u>Cabellitos de Elote-Corn Hairs</u>	<u>Capulin-Wildcherry</u>	<u>Cafe-Coffee</u>	<u>Cascara Sagrada-Sacred Bark</u>	<u>Cebada-Barley</u>	<u>Cebolla-Onion</u>
<u>Cedro-Cedar</u>	<u>Cedron-Cedron</u>	<u>Cempasuchil-Marigold</u>	<u>Centeno-Rye</u>	<u>Cilantro-Coriander</u>	<u>Ciruella-Prune</u>	<u>Clavel-Carnation</u>	<u>Col-Cole</u>	<u>Cola de Caballo-Horsetail</u>	<u>Contrayerba-Isoplexis</u>
<u>Costomate-</u>	<u>Crameria-</u>	<u>Cuachalala</u>	<u>Cuajilote</u>	<u>Cuasia-Quassia</u>	<u>Chayote-</u>	<u>Chicalote-</u>	<u>Cuatecomate-Musictree</u>	<u>Damiana-Damiana</u>	<u>Diente de Leon-Dandelion</u>
<u>Doradilla-Resurrection Fern</u>	<u>Epazote</u>	<u>Espinacas-Spinach</u>	<u>Eucalipto-Eucalyptus</u>	<u>Flor de Manita</u>	<u>Floripondio-Angel Trumpet</u>	<u>Fresno-Ash</u>	<u>Gobernadora-Creosote Bush</u>	<u>Gordo Lobo-Mullein</u>	<u>Granado-Pomegranate</u>

<u>Guayabo-Guava</u>	<u>Guamuchil</u>	<u>Hierba del Angel-Angel Weed</u>	<u>Hierba del Gato-Catnip</u>	<u>Yerbabuena-Mint</u>	<u>Golondrina-Groundfig Spurge</u>	<u>Yerba de San Nicolas-Broom Snakeweed</u>	<u>Yerba del Pollo-Khakiweed</u>	<u>Hinojo-Fennel</u>	<u>Hoja Santa-Rootbeer Plant</u>
	<u>Hojita de Sen</u>	<u>Itamo Real</u>		<u>Jalapa-Jalap</u>	<u>Jicama-Mexican Potato</u>	<u>Laurel-Bay</u>	<u>Lechuga-Lettuce</u>	<u>Lenteja-Lentil</u>	<u>Limon-Lemon</u>
<u>Agave - Maguey</u>	<u>Malva-Mallow</u>			<u>Mamey-Sapote</u>	<u>Manzano-Apple</u>	<u>Manzanilla-Chamomile</u>	<u>Marrubio-Horehound</u>	<u>Matarique</u>	<u>Melon</u>
<u>Membrillo-Quince</u>	<u>Mezquite</u>		<u>Nabo-Turnip</u>	<u>Naranja-Orange</u>	<u>Nogal-Pecan</u>	<u>Nopal-Prickly Pear</u>	<u>Oregano</u>	<u>Ortiga - Nettle</u>	<u>Arbol de Brasil-Brasil Wood</u>
<u>Papa-Potato</u>	<u>Papaya</u>	<u>Perejil-Parsley</u>	<u>Pinguica</u>	<u>Piña-Pineapple</u>	<u>Platano-Banana</u>	<u>Rábano-Radish</u>	<u>Romero - Rosemary</u>	<u>Ruda - Rue</u>	<u>Anis Verde-Pimpinella</u>
<u>Cancerino-Heal All</u>	<u>Salvado Wheat Bran</u>	<u>Salvia Sage</u>	<u>Simonillo Flea Bane</u>	<u>Taray Tamarisk</u>	<u>Tejocote Mexican Hawthorn</u>	<u>Te Limon Lemon Grass Tea</u>	<u>Tepozan Butterfly Bush</u>	<u>Tila Linden</u>	<u>Toronjil Mexican Giant Hyssop</u>
<u>TumbaVaqueros Princess Vine</u>	<u>PTR & Business Links</u>	<u>For a Personal Consultation</u>	<u>Japans New & Unique Health Discovery</u>						<u>Ron's Affiliations and Opportunities Page</u>

In some northern countries, Birch wood is used for fuel. Birch tar and oil used in the medical practice are obtained by distillation of the wood of the common Birch.

The Black Birch, **B. lenta**, is one source of oil of wintergreen, which is used for medicinal purposes. This tree also yields sap, which is fermented to make Birch beer. The bark can be used for roofing houses and sheds and some is used for canoes. At one time, the bark was used by the North American Indians for making fancy articles and pictures were painted on its surface. Bark has also been used for writing paper.

Abedul Properties Useful to Aztec's

The Aztec's would use Birch as a Diuretic!

Aztec Method of Use

They would boil about 10 grams of bark to 1 liter of water which would be administered to the ill whenever they asked for water or as a daily drink for the non ill people.

[More About Abedul Here](#)

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Belgica Aurea is an attractive, female, large shrub or medium-sized tree covered with lightly spined, 3- to 4-inch, green leaves, which are mottled with light green and gray and edged with pale yellow or white. Another female variety of *altaclarensis*, called Lawsoniana, is a large shrub or medium tree that has very pretty, large, usually spineless leaves. The leaves are dappled with dark green, pale green and yellow. Any plain green shoots should be removed in order to preserve the variegation.

I. aquifolium

(English Holly) is a large shrub or small tree, capable of reaching 60 to 70 feet high in optimum conditions. This variety has glossy green leaves and bears bright red berries. Its berry-laden branches are in great demand during Christmas. There are numerous evergreen hybrids of this species that have varying shapes and colors; some, such as *I. aquifolium* 'Argentea Marginata Pendula' (Perry's Weeping Silver Holly), have pendulous branches covered with dark leaves edged with pale yellow. Most of this specie's varieties will flourish in industrial and coastal districts, but will not tolerate extreme heat and drought. These plants will form excellent hedges.

I. crenata var.

Mariesii is a dwarf, female, slow-growing shrub that almost doesn't resemble a holly at all. This variety forms a rigid, upright shrub up to 6 1/2 feet high that is excellent for growing in a container or for bonsai. It is covered with rounded, green leaves and in the winter, large, black berries.

[Acebo Graphic Courtesy of Nomura \(99-01-03\)](#)

Properties of Holly Favored by Aztec's

Used as a Fever Reducer and to Promote Perspiration

Aztec Method of Use

The Aztecs would boil 15 to 30 grams of fresh Holly Leaves in 1/2 liter of water for 15 min. and then drink 3 to 4 cups a day

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before bedtime.

3. **For blood poisoning:**

Take great quantities of Olive Oil until poison is expelled.

4. **For diarrhea and Stool-Urination Straining:**

Mix 1 teaspoon of Olive Oil, 1 teaspoon of red wine, 1 teaspoon of rosewater and take 2 times a day, 1 in the morning and 1 at bedtime.

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Achicoria - Chicory - Radicchio

(*C. intybus*)

Description:

Cichorium intybus is commonly known as Chicory and Radicchio, it is grown for its leafy shoots known as Witloof. This plant resembles Cos or Romaine Lettuce in its growth, being upright in nature. The heads are erect, loosely wrapped, and dark green. The foliage has a slightly bitter taste. Italian Chicory has deeply notched leaves and long stems.

Leaf Chicory is more popular in Europe than in the U.S.; a variety is cultivated for the creamy white buds known as Belgian Endive or Witloof Chicory. There is even a variety (*Magdeburg*) grown for its roots, which are roasted and ground as a coffee additive. Chicory is a hardy perennial; if you let it live over winter, it will shoot up tall stems of pretty light blue flowers in the summer.

Radicchio is a variety of Leaf Chicory that resembles a small red cabbage. It forms a compact head of dark red or magenta leaves, which are veined in white. The size ranges from a large Radish to a large Grapefruit. If this plant is left over winter, it will produce spikes of beautiful, bright blue flowers in the summer just as the Leaf Chicory.

Escarole or Curly Endive (*C. endiva*) - *C. endiva* is another vegetable commonly known as Escarole or Curly Endive. They are generally the same thing, but Endive has cut and curled foliage and Escarole has smooth, wide leaves. Restaurants often use Endive to line salad bowls or mix with lettuce. The leaves are chewier and more substantial than those of lettuce.

Chicory Properties Favored by Aztec's

Fever Reducer, Aperitif, Digestive, Antiinflammatory and Childrens Laxative

Aztec Method of Use

1. **For intermittent fever:**

Boil 5 to 7 grams of leaves in 1/2 liter of water and take a teaspoon of the liquid every 2 to 3 hours.

2. **For help in digestion and as an aperitif:**

Make an infusion of 15 to 30 grams of dried root(dry in the shade) boiled in 1/2 liter of water(Until It Gets Half Way); take 1 cup before each meal.

3. **For inflammation of throat and chest:**

Make syrup of equal parts of sugar and Chicory juice and take a teaspoon every 2 to 3 hours.

4. **As a Childrens Laxative:**

Take 8 to 10 grams of chicory juice before bedtime.

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coloring as body paint, and by women, who used it as lipstick. The dye contains Vitamin C.

Annatto Properties Favored by Aztec's

For sunstroke, Jaundice, Tonsillitis, Oral Excoriations, Burns, Leprosy, Asthma, Pleuresia(Inflammation of the membrane that covers the lungs), Sleep Apnia, rectal disorders and headaches.

1. **For sunstroke the Aztec indians would make a powder of the seeds in the following way:**

The Achiote seeds are simmered for several hours and right afterwards they are rubbed together vigoursly until they release the dye contained in them., then let sit in a dish until the sediment collects, it is red, which must be put in the sun to dry, the powder is formed, it is now mixed with coconut oil and the paste or ointment that is made is applied to the forehead, neck and sinus areas on head.

2. **For tonsillitis and oral excorations:**

They would take a pinch of the aforementioned powder and mix it with a teaspoon of vinegar to a cup of rice water and with the resulting liquid gargle 3 to 4 times a day.

3. **For burns and leprosy:**

A paste is formed with the mentioned powder mixed with olive oil and is applied to the affected area.

4. **For Pleuresia and Apnia:**

A pinch of the above mentioned powder mixed in a cup of lettuce water and taken on an empty stomach.

5. **For Rectal Discomforts:**

A enema is made with the boiled leaves.

6. **For neurologic in nature headaches:**

The leaves are applied on the temple area.

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Ahuehuate - Mexican Baldcypress - Sabino

(*Taxodiaceae*)

Synonyms :

Taxodium mucronatum Ten.

Taxodium montezumae Decaisne

T. mexicanum Carr.

Common Names :

Montezuma baldcypress, Ahuehuate, Pentamon, Cipres, Sabino, Yucu, Ndataura.

Introduction

General Botanical Characteristics:

Montezuma baldcypress is a large, native, semideciduous to evergreen tree. Mature height usually ranges from 60 to 100 feet (18-30 m), but the oldest trees can be much taller:

a record height of 170 feet (51.8 m) has been reported for the Tree of Montezuma (Chapultepec Park, Mexico City) which was estimated as 700 years old.

The Montezuma baldcypress is better known for its massive, convoluted trunk than for its height. El Arbol del Tule (Oaxaca, Mexico), an individual at least 1,000 years old and possibly much older, is more than 50 feet (15 m) in diameter and has a circumference of 117.6 feet

(35.84 m). Perimeter measures that include the bays and promontories of the buttressed trunk exceed 150 feet (45 m).

Montezuma baldcypress has a broad, spreading crown with strong, horizontal branches and delicate, weeping branchlets. The leaves are 0.24 to 0.48 inch (6-12 mm) long. The staminate strobili are borne in long, slender spikes. The ovulate cones are subglobose and 0.59 to 0.98 inch (1.5-2.5 cm) in diameter. The bark is shreddy. The roots of trees growing in standing water often send up conical projections ("knees"). Trees that experience periodic drying out, such as those growing along stream courses, apparently do not form knees .

The Aztec's Use of Ahuehuete

The boiled leaf brew is used for varicose veins and hemorrhoid, also as tonic for the heart especially problems with the mitral valve, for the lung, liver and kidney congestions, favors the elimination of retained liquids in the body (edema), lowers hypertension, relieves cough, difficulty in breathing and diarrhea. Applied as a poultice it favors the healing (much faster and cleaner scar) of wounds.

Aztec's Method of Use

Take for 3 to 4 days the brew made from 3 grams of leaves to 100 grams of water.

To help heal exposed ulcers and wounds, place a poultice over the affected area of the body.

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Ajo-Garlic

(*Allium sativum*)

Description:

Garlic (*Allium sativum*) is a member of the Amaryllis family (*Amaryllidaceae*), which also includes leeks, onions, and shallots. It is a perennial with an underground bulb (head) composed of pungent bulblets commonly called cloves.

Approximately 90 percent of the garlic grown in the United States is grown in California. California Early and California Late are the two major commercial varieties.

California Early has white skins and is planted in December for harvest in July and August. The largest garlic variety, Elephant Garlic, has a very mild-flavored clove and is a close relative of the leek.

The pungent flavor of garlic is caused by a chemical reaction that occurs when the garlic cells are broken. The flavor is most intense shortly after cutting or chopping. This chemical reaction cannot occur after garlic is cooked, which is why roasted garlic is sweet rather than pungent.

BOTULISM WARNING

Prevents tuberculosis and fevers and some people claim it is also good against malaria and rabies,
it regenerates the skin in case of light burns,
softens and removes calluses,
removes thirst and sour mouth.

Aztec's Methods of Use

The various properties of Garlic are much more efficient if eaten raw, since heat makes it lose its usefulness, nevertheless, if the garlic is undigested on certain occasions provokes disagreeable and odorous belching. To avoid this first crush 3 garlic cloves and swallow without chewing halfway thru meals, with the final result of not irritating the stomach lining and ease its way to the intestines. Other forms of eating garlic are in salads, boiled in milk or combined in water, lemon juice in tincture ect.

To Stimulate the Appetite and Digestion: Grind 3 Garlic cloves with a little water and eat raw, before or during meals.

For Anemia: Prepare a salad with radish, lettuce, tomato and raw crushed Garlic, add a little oil and salt to taste.

To Improve Blood Circulation: Eat 2 to 3 crushed Garlic cloves before breakfast.

To Lower Arterial Blood Pressure in Persons with Hypertension: Mince well 1 clove of Garlic and swallow with water for several days.

In Cases of Asthma, Difficulty in Breathing, Cough, Whooping cough, Diphtheria and Bronchial afflictions: Boil in 1/2 liter of water, 8 Garlic cloves, peeled and crushed, add a little bit of oregano, strain then add 2 spoonfuls of bee honey and from this take 1 teaspoonful once an hour until better avoiding any and all cold drinks or food.

For the same symptoms but to get better faster you can also do this: Boil in 1/2 liter of milk, 1/2 a head of Garlic and 2 carrots, sweeten to taste with bee honey and take 1 warm glass of the remedy before bedtime.

To Rid the Body of Intestinal Parasites: Mince a head of Garlic, heat in 1/4 liter of milk, **Do Not Boil!** Let stand for 3 to 4 hours, strain and drink before breakfast or on an empty stomach for 9 to 10 days in which case the parasites will be gone.

To Cure the Welt that Appears Around the Neck Area Especially in Summer: Take a clove of Garlic, cut in half and rub vigorously on the affected area, after approximately 3 hours add a little bit of lemon juice to the affected area 3 times a day and continue to follow the remedy until the welt is gone.

For Rheumatism: Take 2 Garlic cloves, open in half, and rub vigorously on the painful area until the Garlic juice appears. Do this same treatment several times a day avoiding water(as in baths) or cold environments.

For Mosquito, Scorpion, Bee, Hornet and Wasp stings: Crush 1 garlic clove and apply the remedy on the affected area while gently rubbing it in. The Pain Will Stop!

For Malaria: Take 3 whole Garlic cloves and a glass of milk each morning.

For Fevers: Boil 1/2 kilo of Garlic in liter of water then mix in 1/2 kilo of sugar, let stand, strain, then drink one spoonful before each meal.

For Rabies: Drink several times a day the infusion made with 100 grams of Garlic cut into little pieces to 1/2 liter of water, let sit for 1 day, wring and sweeten to taste with sugar or bee honey.

For Mild Burns: Take 3 or 4 Garlic cloves, crush, mix with oil(cooking oil)and apply to the burn.

For Calluses: Make a paste of Garlic and honey, apply to the callus for several days,the callus will soften then disappear. **To Remove Thirst Instantly:** Take a head of Garlic, blend in 1 liter of water and drink as a regular daily drink whenever thirsty.

To Remove that Certain Bad Breath almost Everyone Has in the Morning: Take 1 raw Garlic clove, crush, strain into a glass of water with the juice of 2 lemons and kiss your bad breath away.

For Athletes Foot: Dust feet with Garlic powder and wear clean socks all the time.

There are other methods to take advantage of Garlic`s curative properties,"Garlic Tincture" which is prepared the following way: Crush 2 Garlic heads and macerate in 250 grams of pure alcohol until the tincture is formed. Next is the description of the therapeutic effects from the use of this tincture(condensed excerpt from Dr. Helle of Berlin Germany).

1. 20 drops of Garlic tincture to 1/2 glass of water will attack uric acid which in turn relieves pain from arthritis, rheumatism and sciatic gout.
2. 20 drops of said tincture to 1/2 glass of water benefits the digestive apparatus relieving constipation and strain to the bowels.
3. 20 drops of the tincture in 1/2 glass of water will in a short while relieve hypertension.
4. 20 drops of the tincture in 1/2 glass of water will stimulate the hepatic(liver) function.
5. 20 drops of the tincture in 1/2 glass of water will relieve the palpitations, difficulty in breathing and the anguish most cardiac patients suffer.
6. 20 drops of the tincture in 1/2 glass of water alleviates continuous fatigue, neurologies, headaches, insomnia, hysteria, depression and muscular rigidity.
7. 20 drops of the tincture in 1/2 glass of water cures varicose and hemorrhoid.

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plants, as well as oils from them, have received lots of attention for their potential medicinal properties. Of these plants, *O. basilicum* is the most widely used. It is used in cosmetics, liqueurs, medicines, and perfumes.

Most *Ocimum spp.* can be grown and found throughout the world. However, they are not native to all areas. For example, *O. micranthum* originated in Central America. It grows to a height of approximately 50cm. The leaves are oval and slightly toothed, and the flowers are white or purple. *O. basilicum* looks very similar, but grows a bit taller (50-80cm).

Properties of Albahaca-Basil

Stimulant, Removes Cold Sores, useful for persons suffering from shortness of breath, cures humming or ringing of ears and temporary deafness, regulates menstruation, rids the body of certain intestinal parasites, destroys bad odors and macerated in alcohol and rubbed on the body will relieve pain from cramps, twists, sprains, rheumatism and headaches.

Aztec's Method of Use

To stimulate the body:

Make an infusion of 20 leaves of basil to 200 grams of water then drink 3 to 4 cups a day.

For Cold Sores:

Boil 40 grams of Basil leaves to 200 grams of water and gargle 3 times a day.

For Shortness of Breath:

Boil 12 leaves of Basil in 1/2 liter of water for 5 min., cool, strain, then drink one glass on an empty stomach and one before bedtime.

For Humming or Ringing of the Ears and Temporary Deafness:

Crush and Grind some Basil leaves then soak it up with a small piece of cotton the place in ear, change regularly until symptoms are gone.

To Regulate Menstruation: Prepare an Infusion of 100 grams of Basil leaves to 1 liter of water, then drink 4 cups a day.

To rid certain types of Intestinal Parasites: Boil 10 grams of Basil leaves to 100 grams of water then drink 1 glass daily on an empty stomach.

To rid your home of Bad Odors:

Put a couple of Basil branches in the room or habitation you want to get rid of the odor.

For Rheumatic pain, Headaches, twists and sprains:

Macerate for 8 days the mixture of equal parts of Basil, Ruta and Rosemary, with this rub on the affected area, day and/or night covering well afterwards.

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Alcamfor-Camphor

(*Cinnamomum camphora*)

Description and Introduction

Character:

Evergreen, arching vase, spreading form; dense canopy

Size:

Large (Height: 50 - 90'; spread: 50+').

Growth Rate:

Slow/moderate

Foliage:

Smooth, ovate-elliptical, pink, red or bronze when young. Drops foliage heavily in March, immediately regrows. Bark black in rain.

Flowers-Fruits-Bark:

Strong smelling yellow flowers in May, black berries in May.

The Camphor tree (*Cinnamomum camphora*), also known as Camphor laurel, is an exotic that has been widely cultivated for more than a century as a shade and ornamental tree in Florida and elsewhere. This is the aromatic tree from which camphor was derived (used in medicines and mothballs), until camphor oil began to be made artificially in the 1920s.

The camphor quickly grows into a good-looking shade tree which is frequented by berry-eating birds. Camphor laurel is native to China and Japan where it has been commercially used for its timber and essential oils for hundreds of years.

Introduction to Alcanfor

Alcanfor or Camphor is a white, hot, crystalin solid that is obtained from the boiled and crushed branches, trunk and roots from the camphor tree. It is soluble in alcohol, olive oil but not water.

Alcamfor Properties Favored by Aztec's.

Useful in relieving pain originating from bumps, sprains, twists, contusions, rheumatism, gout and back pain.

Aztec's Method of Use.

Dissolve a little piece of Alcamfor (about the size of a garbanzo bean) in 1/2 liter of 90 proof alcohol or olive oil then rub vigorously on the affected area.

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prevents the formation of seed heads valued for drying.

Poppy Graphic

Properties of Amapola Favored by Aztec's

Used for Sleeplessness, as an Analgesic, Dysentery, Diarrhea, Whooping Cough, Asthma and Antiperetic.

Aztec's Methods of Use

For sleeplessness, pain reducer, fever reducer, cough and asthma:

Prepare a herbal tea using 4 grams of Poppy leaves to 200 grams of water, boil for 15 min., let stand then take a teaspoon once an hour until better.

For dysentery and diarrhea:

Take the Poppy plant head cut into 4 pieces, remove seeds, boil for 5 min., 1 portion to 1 liter of water, let stand, strain then, when still warm, use as a enema.

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soups. The plants have open growth, with Celery-like leaves growing on thin stems from the root. Celeriac root tastes something like Celery, but stronger.

Celery Properties Favored by Aztec's

Diuretic, Digestive, Expectorant, Relieves Upset Stomach and for Varicose Vains.

Aztec's Method of Use

For Chest Colds:

They would drink 3 to 4 cups of a boiled mixture of 15 to 25 grams of celery root to 1/2 liter of milk.

As a Diuretic:

They would drink a boiled brew made from the mixture of 15 to 25 grams of celery root in 1/2 liter of water.

For Varicose Vains:

Boil for 5 min. 2 stalks of celery cut into pieces in 1 liter of water, then let sit for several hours then add the juice of 3 juicy lemons and take as a daily beverage.

More will be added as I keep my ongoing research into these Ancient Aztec Remedies.

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anti-bacterial and anti-inflammatory qualities that can reduce pain and swelling, improving wound healing.

Arnica Properties Favored by Aztec's

To combat Bronchitis, Fever, Hemorrhoids, Bumps, Wounds, As an Analgesic, Antirheumatic and for weak Nerves and Muscles.

Aztec Method of Use

For Bronchitis:

Take a spoonful of a brew made with 2.5 grams of flowers to 1 liter of water.

For Malaria, to lower fever and for weak nerves and muscles:

Boil 8 grams of flowers and leaves to 1 liter of water then drink 1 cup of the brew 4 times a day.

To cure Hemorrhoids:

Boil 25 grams of Arnica in 1 liter of water and with this bathe the affected area and lastly pat with iodine and alcohol.

For bumps, wounds, exposed ulcers and rheumatism:

Make a tincture of 20 branches of Arnica and rub the affected area; the tincture should be made in this way. Macerate the branches for 15 days in 1 liter of alcohol.

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Avena-Oats

Description and Introduction

History:

Oats have been noticed by the ancient Greek and Roman writers; at present they are cultivated in nearly all northern temperate latitudes. Their native country is unknown, though they are stated to be indigenous in Sicily and in a certain Chilean island.

When the seed is stripped of all its teguments, including its innermost, silky, fibrous covering it constitutes groats; and when this is ground into fine meal or flour it is called prepared groats.

When the seed is kiln-dried, stripped of its husk and delicate outer skin, and then coarsely ground it constitutes the oatmeal of Scotland, a common, farinaceous article of food for laboring people and children (C).

Many forms of "rolled oats" are now a general article of commerce, forming excellent cereal foods. Oats are largely in America as food for horses and cattle. American oatmeal is said to be inferior to the foreign preparations.

This plant is a nerve-tonic, stimulant, and antispasmodic. It ranks among the most important

Azahar-Keylime

(*Citrus aurantiifolia*)

Introduction and Description

Common Name: Lime, Acid Lime, Sour Lime

ENGLISH: Lime, Common lime, Acid lime, Mexican lime, West Indian lime, Sour lime, Large lime, Key lime.

Botanical Name: *Citrus aurantiifolia*, *C. lima*, *C. acida*, *C. medica*

Family : Rutaceae

Appearance: A shrub or small tree

Distribution: Cultivated nearly all over India, particularly in Andhra Pradesh, Maharashtra, Karnataka, Assam, Bihar, Utar Pradesh, Punjab, West Bengal, Madhya Pradesh and Rajasthan

Medicinal parts: Fruits, leaves, roots and Flowers.

Description:

These plants are native to the southern and southeastern mainland of Asia and the bordering Malayan islands. They are small, spiny shrubs or trees with alternate, usually evergreen, leaves, which are shiny and leathery and dotted with oil glands. The stems are mostly winged and jointed with the leaves and there is usually a spine on the twigs at the attachment of each stem.

Their flowers smell sweet and they have five petals that are white and some kinds have purple staining the outer surfaces. The fruits are spherical or egg-shaped and have 8-14 juicy sections containing large, white or greenish seed leaves (cotyledons).

These trees are cultivated in orchards or groves and in gardens where the climate and soil are suitable and as greenhouse plants. Florida and California produce an abundant supply of Citrus fruits. Citrus trees require a minimum winter temperature of 45-50 degrees. Citrus fruits are prized for their health values.

Oils, pectin, flavorings, perfumes and other by-products are secured from their flowers and fruits. Citrus is used as a group name for the fruits of these plants as well as for certain fruits now classified in groups other than Citrus.

Only eight are important horticultural plants

Lime(*C. aurantifolia*) -This evergreen tree is small, spiny and irregularly branched. Its small, elliptic to oblong leaves are pale green. The white flowers are small and produced in axillary clusters. The fruit is small, roundish and thin-skinned. The pulp is greenish and in sections of about ten. The juice is acid with a distinctive flavor. The Lime is a native of the East Indies and has spread all over the world in tropical and near tropical regions. It was brought to America by the Spaniards and became widely scattered throughout the West Indies. It was taken to Florida and in the southern parts has become naturalized. From Mexico, it was carried into California. While most Limes are acid, there also are sweet kinds grown and used in some of the areas where the acid ones are grown. Limes are gathered when fully grown, but still green, and shipped very soon after. The fruit is used in much the same way as Lemon.

Important! Azahar is the name of the flower described in this remedy.

Aztec Use of Azahar

Azahar Properties:

Digestive(Stimulates the Appetite), Nervous Tension, Distress, Calms Wrath or Anger and Helps Relieve Insomnia.

Aztec's Method of Use

As an Aperitif: Make a syrup using 1 liter of Azahar water(Azahar water is made by boiling 3 to 5 grams of flowers in water for 10 to 15 min.) 1 1/2 kilo of sugar and 2 spoonfuls of Rum, boil until it acquires consistency(gets thick) then take 1 tablespoon after meals.

For nervous Tension and Insomnia: Take 3 cups a day the last one before bedtime of an infusion made with 1 spoonful of Azahar flowers to 1/4 liter of water; let stand a while then sweeten to taste with bee honey or brown sugar.

Boldo

(Peumus boldo)

Botanic Name: *Peumus boldo*

Common Name: Boldo, Boldu, Boldus

Family: Monimiaceae

Parts Used: Leaves

Habitat: Chile

On dry sunny slopes in lightly wooded country in Chile.

Constituents: Volatile oils, Alkaloids (including boldine) Glycosides (boldoglucin) and Resin Tannins

Actions: Cholagogue, Hepatic, Bitter, Analgesic, Urinary antiseptic, Diuretic, Sedative

Applications: Gallstones, Gall-bladder infection, Biliary colic, Hepatic related pain, Urinary infections, Cystitis, Visceral pain due to problems in liver or gall-bladder, Rheumatic conditions, Body Systems, Digestive, (accessory organs of digestion), Urinary Infections, Combinations Gall Bladder and Liver – *Chionanthus virginicus*, *Berberis aquifolium*.

Cautions

A low dosage herb thus care must be taken when administering BHP Gallstones with

pain.

Aztec Use of Boldo

Drink 3 glasses a day, 1 in the morning, 1 at lunch and 1 before bedtime of a mixture made of 5 grams of Boldo to 1 liter of water.

For Gall Stones: Drink 4 cups a day before meals of a boiled mixture of 2 fingers worth of Boldo, 1 gram of Resurrection fern, 1 small branch of Wormwood and 1 leaf of Chinese Radish to 1 liter of water.

bodily fluids avoiding complications.

Aztec Method of Use

Drink 3 to 4 cups a day of a mixture made of 20 to 25 grams of leaves and flowers to 1/2 liter of water.

For Respiratory Illnesses: Drink 1 cup of the above infusion with the juice of 2 lemons and sweeten to taste with bee honey.

For Bilious fevers, Relief for Ardorous Urinary Track Infections: Take 3 glasses a day of the boiled mixture of 10 grams of leaves, 25 grams of bee honey to half a liter of water.

C. maxima (Mammoth Pumpkin) - These Pumpkins are closely related to Hubbard and other winter Squashes. The prostrate, annual vines are clothed with blunt, round or heart-shaped leaves and yellow flowers. The fruits are huge and pinkish-orange or grayish and usually pear-shaped, often bulging where they touch the ground.

Squashes are generally divided into two groups. One group is the Summer Squash, which have soft skins and are eaten when young. The other group is the Winter Squash; these can be stored in the winter because they have hard, protective shells. These are all warm-weather, annual vines with large, lobed foliage and yellow blossoms.

Summer Squash (*C. pepo*) - There is a wide variety of shapes and sizes in this group. Included are the following:

Smooth, yellow straightnecks; warty, yellow crooknecks; slender, medium to dark green, club-shaped Zucchini with golden-yellow varieties; smooth-skinned variously shaped fruits called vegetable marrows; and white or green, top- or disk-shaped scallop or patty pan Squashes with scalloped rims. There isn't much difference in the flavors of the varieties, but there is some difference in the texture of the cooked flesh. Vegetable marrows are eaten, often along with the blossoms, when very young.

Winter Squash (*C. pepo*, *c. maxima* *C. moschata*) - The 3 species in this group cover a large range of sizes, shapes and flavors.

C. maxima has large, long, Banana Squashes in pink, bluish gray or orange.

Buttercup is medium-sized, dark green, drum- or top-shaped, and blotched with gray.

Boston marrow may be medium to large, bulbous, orange-skinned and shaped like a teardrop.

Turk's turban has green, turban-shaped fruits that are brightly striped with red, white, or orange and a "naval" at the blossom end.

Hubbard is medium-sized, green, blue-gray, or golden, with bumpy skin.

C. moschata includes the tan-skinned **Butternut Squash**, these are long, cylindrical fruits with a bulbous base and orange interior.

Cushaws resemble large, striped Butternut Squash with curved necks.

C. pepo includes the small- to medium-sized **Acorn Squash**, which are deeply ribbed, dark green or golden colored. The **Vegetable Spaghetti Squash** also belongs to this group. These oval, smooth fruits are ivory to golden-yellow colored and their flesh cooks

to spaghetti-like strands.

Properties of Pumpkin used by Aztecs

Useful in Fighting: Worms, Tapeworm, Hemorrhoids, Nervousness and Used as a Cerebral Tonic.

Aztec Method of Use

To obtain the best results in the expulsion of tapeworms and worms,

The ill patient must not eat for 24 hours,

then before bed take a laxative of 30 grams of castor oil;

the following day, grind 30 grams of Pumpkin seeds without the husks or shell, sweeten with sugar to taste, and eat with a half glass of milk.

After 2 hours, take another laxative made with 30 grams of castor oil or sodium sulfate.

Some therapists recommend dividing the treatment into 2 days, the first, on an empty stomach, take 50 grams of Pumpkin seeds husked, grounded up and sweetened, with a glass of milk;

the following day the same but add a dose of 40 grams of castor oil.

In case you do not get satisfactory results, repeat the operation but

Only After 2(two) Months Have Passed.

Still on the subject of tapeworm and worms, some people prefer to prepare an orgeat using 100 grams of Pumpkin seeds, whole, 5 grams of fresh apple mint, and 1 quart of cold milk and brown sugar or bee honey to taste. Liquify the ingredients in a blender and drink daily in the morning instead of a breakfast, do this for 3 days and on the last day, 1 hour after dose has been taken, ingest a laxative of 60 grams of castor oil.

This treatment is for adults and children over 8 years old,

for children that are 4 to 7 years old give half of the described treatment,

and for children that are 1 to 3 years old give 1/4 of the above described treatment.

Likewise feed the patient fresh foods, in preference fruits and juices avoiding spicy or hot foods.

For **Cerebral Tonicity, Hemorrhoids and Nervousness**, it is recommended to eat cooked pumpkin.

If Raw Pumpkin is placed over a burn it will calm the pain and promote rapid healing

Corn Hairs or Cabellitos de Elote

Corn hairs or whiskers sell very well in Mexican and Latin American countries due to their great therapeutic value especially in renal infirmities.

Properties of Corn Hairs Favored by Aztec Indians

Diuretic and helps dissolve kidney and bladder stones.

Aztec Method of Use

Drink daily the boiled mixture made of 15 grams of corn hairs to 1 liter of water; if you add alfalfa or barley it will strengthen the curative process.

Do not take if Cystitis is present

Capulin - Wild Cherry

(*Prunus serotina*, *Prunus capuli*)

Spanish Name: Capulin

Botanical Name: *Prunus serotina*, *Prunus capuli*

Other Name: Capolinquahuitl(Aztec), Black cherry.

Properties: Sedative, expectorant, antispasmodic.

Preparation: Fresh leaf infusion / Tea

Indications: Cough, diarrhea, fever, intestinal inflammation

Side Effects: Warning:(Caution against large doses or long term use of Bark. The Seeds Can Be TOXIC If Ingested)

Comments: An extract from the bark of wild cherry is an ingredient in some OTC cough syrups. The simmered bark has been traditionally used to treat coughs and colds.

Capulin Properties Favored by Aztec's

For Dysentery, Antispasmodic, Nervousness and Pain.

Cafe - Coffee

(*Coffea*)

Class of the coffee plant: Dicotyledoneae

Subclass of the coffee plant: Sympetalae or Metachlamydeae

Order of the coffee plant: Rubiales

Family of the coffee plant: Rubiaceae

Genus of the coffee plant: Coffea

Some Species of the coffee plant: Coffea Arabica, Coffea Robusta

The genus, Coffea, which the common coffee tree belongs, contains about 25 species. Coffea Arabica is the largest cultivated coffee but other commercially known are Coffea Liberica, Coffea Stenophylla, Coffea Excelsa, and Coffea Canephora (Robusta). By far, Coffea Arabica and Coffea Robusta are the species of coffee plant most commonly cultivated. The other species of coffee plants are not cultivated commercially. There are indoor coffee plants grown for aesthetics because the plant can do well indoors where it is carefully cared for.

The coffee plant originally grew in African tropical forests. Some varieties of coffee plant typically grow over 30 feet. But, in cultivation, for ease of picking of the coffee berry, the coffee

contraction (peristalsis), resulting in bowel movement.

How much is usually taken? Only the dried form of cascara should be used. Capsules providing 20–30 mg of cascariosides per day can be used; however, the smallest amount necessary to maintain soft stool should be used. As a tincture, 1–5 ml per day is generally taken. It is important to drink eight 6-ounce glasses of water throughout the day. Cascara should be taken for a maximum of eight to ten days.

Are there any side effects or interactions? Women who are pregnant or lactating and children under the age of twelve should not use cascara without the advice of a physician. Those with an intestinal obstruction, Crohn's Disease, Appendicitis, or Abdominal Pain should not employ this herb. Long-term use or abuse of cascara may cause a loss of electrolytes (especially the mineral potassium) or weaken the colon. Loss of potassium may potentiate the action of digitalis-like medications with **Fatal Consequences**

Cascara Sagrada Properties Used by Aztec's

Lowers fever due to scurvy, useful as a laxative and for bile duct problems.

Aztec Method of Use

Drink 1 cup 3 times a day after meals of the mixture made with 10 grams of Cascara Sagrada to 1/2 liter of water.

Mexico, Western Europe, North Africa and parts of Asia where it is a staple food grain. In Canada, most of the barley produced is grown in the rich, black soils of Alberta, Saskatchewan, and Manitoba.

Barley is a well-known grain cultivated throughout the ages. As a food grain, it has been mentioned in the bible 37 times for its uses. As a spiritual use, it was used in festivals as it was barley that ripened first in the harvest of the grains and its sheaf was used to celebrate the Festival of Fruits. A quote in **Leviticus (23:9)** states "**...bring the first sheaf of the harvest to the priest on the day before the Sabbath. He will wave it before the Lord in a gesture of offering**".

Barley Properties Favored by Aztec's

Diuretic, Digestive, Coolant, Calmative, Febrifuge, Constipation Relief and used for Diseases of the Respiratory Apparatus (Pleuresia, Pneumonia)

Aztec Method of Use

Drink daily the mixture of 150 grams of Barley to 1 and 1/2 liter of water, as soon as it boils, empty the water and add the same amount of water again; boil for 10 min; let stand then add lemon and sugar to taste.

Onion Soup Cures Infectious Diseases and Opens Up the Appetite.

For Varicose, Cramps and Neurological Pain: Rub Vigorously the affected area every night with a slice of onion or onion juice.

To Lower Fevers and as an Antidote for Poisoning: Add to a hot tea, the juice of an onion and lemon juice, drink several cups a day.

To Avoid Dizzy Spells: Place half an Onion in each armpit.

To Eliminate Dandruff on Hairy Skin or the Scalp: Rub Onion juice on affected area twice a week.

To Clean and Remove Spots and Blemishes on the Skin: Rub upwards the juice of onion and of lemon juice in equal parts.

To Age or Mature Abscesses or Tumors: Add raw Onion as a poultice over affected area.

Cedron

(N.O. Simarubaceae)

Botanical: Simaba Cedron (PLANCH.)

Family: N.O. Simarubaceae

Synonym--- Cedron seeds.

Part Used--- Seeds.

Habitat--- Columbia, Mexico and Central America.

Description---A small tree, a native of New Grenada, remarkable for the properties of its seed. It has large pinnated leaves with over twenty narrow elliptical leaflets and large panicles of flowers, 3 to 4 feet long; the fruit is about the size of a swan's egg, and contains only one fruit, four of the cells being barren. The Cedron of commerce is not unlike a large blanchéd almond - it is often yellowish, hard and compact, but can be easily cut, it is intensely bitter, not unlike Quassia in taste and has no odor.

The Cedron of commerce is obtained from the seed. Cedron has always been used in Central

grains, for pasturage.

Italian rye grass is much used for lawns in warmer regions of the United States. Perennial rye grass was probably the first of all perennial grasses to be cultivated pure for forage. Poison rye grass, or darnel (*L. temulentum*), reputed to be poisonous, grows in grain fields and waste places; it is thought to be the tare of the Bible.

Common Name: Blue Rye Grass

Botanical Name: *Elymus condensatus*

Family: Poaceae

Height: Up to 3 feet

Width: Same as height

Growth Rate: Moderate

Sunlight: Full sun to Partial shade

Water: Light to Moderate irrigation

Soil: Any

Diseases/Pests: None

Description: A clumping evergreen herbacious perennial. Leaves are a silvery-gray color. Blue flowers are produced on stalks up to three feet above the foliage. Native to: San Miguel Island

ANNUAL RYEGRASS (*Lolium rigidum*)

Description:

Erect plant, up to 90cm in height. Shiny hairless leaves. Stems are reddish-purple toward the base of the plant. Leaves have auricles present, distinguishing it from phalaris.

Problem: Competes with pasture and crops.

Properties of Centeno valued by the Aztec's

Food, Laxative and Cures Headaches.

Aztec Method of Use

With the Rye grains brew a coffee similar to real coffee but with one advantage "No Caffeine" which is recommended for people with cardiac problems. This coffee is good for people suffering from headaches or constipation.

Prepare in the following way: Remove the shell casing of the Rye grain, wash the grains in water then boil until tender, then dry in sunlight then toast over fire and add sugar.

This infusion is made the same way regular coffee is made. The milled Rye flour is very nutritious and bread is made with it that has a very agreeable taste and odor, useful in the formation of fiber in the intestines which in turn helps fight constipation.

Ciruela-Prune

(*Prunus*)

By definition, a prune is a dried plum. All prunes are plums, but not all plums are prunes. Prunes can be dried without fermenting while still containing the pits. This is not true of other varieties of plums. It should be noted that when we plant an orchard, we plant a prune orchard.

Description: *Prunus* is the botanical name for a large group of deciduous and evergreen trees and shrubs. These popular plants are greatly valued for their delicious, edible fruits, gorgeous spring blossoms and some, for their colorful foliage; some varieties are grown for decoration alone, since all do not produce edible fruits. Numerous varieties have been developed from the wild forms; some were bred for maximum fruit production and better quality fruit while others were bred for larger and more abundant blossoms; some varieties can survive in different climates than others can. They are among the most beautiful trees and shrubs. Included in this group are the Almond, Apricot, Cherry, Nectarine, Peach and Plum trees. Most of the species need to be grown in Temperate regions though some, such as the evergreen kinds, need to be grown in mild climates.

Plum (*P. domestica*) - The Plum is widely cultivated throughout the U.S., since there are varieties suitable for growing in every state. Plums are extensively grown for commerce in Oregon, Washington, California and Idaho. Trees may have erect or spreading growth, depending on the variety. The leaves vary in shape, also, but are usually egg-shaped with finely serrated edges. The fruits are oval or round having smooth, thin skin. The flesh may be purple, blue, red, green or yellow, also depending on the variety.

Contrayerba-Isoplexis

(*Scrophulariaceae*)

Other common or vulgar names: Contrahierba, , Cresta de Gallo, Barbadilla, Cabaiahuache, Isoplexis canariensis

Family: Scrophulariaceae

Native: Canary Islands

If you have more documentation on this plant please e-mail me [Here](#). All Information hereby given is from the book "Ancient Aztec Remedies" (*Antiguo Recetario Medicinal Azteca*) since there is not much info on this particular plant, I will provide only the end results of my research.

Contrayerba Properties Used by Aztec's

Tonic, Stimulant, Promotes Perspiration, Used for Snake Bites, to Accelerate the Development of Chicken Pox and Measles for Faster Healing and to Clean Ulcers and Rebellious Sores.

Aztec Method of Use

Drink 1 cup in the morning on an empty stomach and 1 before bed of the mixture made with 50 grams of the root to 1/2 liter of water. This same mixture is used externally for Ulcers and Sores.

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Costomate

Genus: Physalis

Family: Solanaceae.

Common names: downy ground-cherry, ground-cherry, husk-tomato, strawberry-tomato, alkékenge doux, alquequenje-amarelo, capulí, tomate verde, muyaca

Economic importance: Human food: fruit

Distributional range: Native: Northern America: Mexico; United States [mainly s.e.]
Southern America: Antigua and Barbuda - Antigua; Argentina [mostly n.]; Belize; Bolivia; Brazil; Colombia; Costa Rica; Cuba; Dominica; Ecuador; El Salvador; French Guiana; Guadeloupe; Guatemala; Guyana; Hispaniola; Honduras; Jamaica; Martinique; Nicaragua; Panama; Paraguay; Peru; Puerto Rico; Suriname; Venezuela

Other: widely naturalized elsewhere

I have researched this plant and I have several references to it that go by other names and families.

I will give all related information below.

Copalchi Is a plant that pertains to the Solanaceae family, it grows in the temperate zones of the republic of Mexico, it's usable part is the root that resembles a yam or sweet potato.

Properties of Copalchi

antidiarrhea, intestinal gas and diuretic.

Cuajilote

(*Parmentiera edulis* D.C.)

Common name: Turi

Spanish common name: Cuajilote

Additional common names Mexico: Cuachilote, Chote, Guetoxiga, Kat, Turi

Aztec name: Quauhxilotl

Scientific name: *Parmentiera edulis* D.C.

Family: Bignoniaceae

Botanical characteristics and habitat: Tree of the lower deciduous forests of the Mexican states of Morelos, Guerrero, Michoacán, Oaxaca and Puebla. It reaches heights of 13 to 30 feet (4 to 9 meters); its stem is thick and woody with many branches; each leaf is divided into five light green leaflets; leaves are winged and sessile and there are two thorns at each leaf base. Its flowers are solitary or clustered; they are greenish cream in color and grow directly from the stem or on the tips of the branches. Fruits are 8 to 12 inches long (20 to 30 cm) and look like greenish-yellow cucumbers. The fruit is juicy and has a sweet flavor.

Properties: Anti diabetic, hydrops, pectoral.

Uses in traditional medicine: Turi has been part of the traditional medicine pharmacopoeia of indigenous Mexican communities since ancient times. Its Náhuatl name means "tree with corn-shaped fruit" (cuahuítl-xilot).

Its Latin scientific name comes from the military pharmacist Parmentier, who was responsible for introducing the potato in France. This plant is used in Mexico for kidney ailments, kidney stones, urinary tract infections, colds, inflammation of the outer ear,

Quassia - Quassia

(*Picrasma excelsa*)

1. **Common Names:** Quassia, Bitter Wood, Picrasma, Jamaican Quassia, Surinam Quassia, Quassia Amara, Amargo, Surinam Wood, and Ruda.
2. **Scientific Names:** Quassia is a collective term for two herbs: *Picrasma excelsa* and *Quassia amara* L.
3. **Family:** Simaroubaceae.

Quassia wood is used for the digestive system. It is a bitter tonic and Stomachic. In small doses it increases the appetite and is recommended to treat the formation of acid substances during digestion.

What Is Quassia? The pale yellow, intensely bitter-tasting wood of the West Indian quassia tree is granulated to prepare a medicinal remedy. Clusters of small, rose-colored flowers and long pinnate leaves grow on this tall tree. The wood of the Surinam quassia, *Quassia amara* L., a smaller tree that grows in Colombia, Argentina, Guyana, Mexico and Panama, is also used.

What it Is Used For?: West Indian natives familiar with this tree reportedly carved "quassia cups" out of the wood, added hot water, and let these stand long enough that the extremely bitter resin in the wood would be drawn into the water. They then sipped the mixture when indigestion or other stomach upsets developed or the appetite needed a boost. Quassia became a common European bitter tonic for similar conditions once it was imported to the continent in the 1700s. Although it is little used for these purposes today, quassia does appear in a number of prepared stomach-soothing and bile-stimulating herbal formulas. The extract, quassin, has been similarly used, and a number of contemporary herbalists recommend it for stimulating liver, gall bladder,

Chicalote

Also known by Prickle Poppy, Argemone mexicana and Chicotl / Chillazotl(Aztec).

This Mexican desert poppy shares some properties with the Chinese opium poppy. In Aztec traditions, some diseases were thought to be the result of angry gods. This plant was sacred to Tlaloc, the Aztec god of rain and water, and water related diseases such as rheumatism and palsy were treated with this herb to appease him.

Properties: Sedative, Antispasmodic, analgesic, laxative.

Preparation: Seed to be eaten or mix with water as a laxative drink, Infusion of the leaves as sedative, the sap as topical analgesic.

Indications: Skin Lesions, Burns, Cough, Migraine, Generalized Aches and Pains.

Side Effects: The dried leaves are smoked as an aphrodisiac in Mexico, with possible risk of side effects of vomiting and diarrhea!

Properties of Chicalote used by Aztec's

Hypnotic and Calmative, Used Against Insomnia, Fights Cough in Children also for Seizures and Convulsions.

Aztec Method of Use

For Cough, Convulsions and Seizures: Drink 1 cup before bedtime the powdered mixture of 50 grams of seeds and leaves to 1/2 liter of water boiled for 15 min.

For Hypnotic Effects and as a Calmative: Drink before bed 1 cup of the infusion of 14 grams of flowers to 1/2 liter of water.

For Diarrhea: Boil Chicalote leaves with rice, grind and toast then drink the mixture as a daily drink.

Damiana

(*Turnera diffusa* var. *aphrodisiaca*)

Family: Turneraceae

Common names: Damiana, Damiane, Oreganilla

Description: A potent mood altering herb. A small, perennial shrub bearing light green leaves whose under sides are covered in dense hairs. Yellow flowers.

Properties/Actions: Aphrodisiac, Anti depressant, Diuretic, Emmemagogue, Hormonal, Laxative, Nervine, Stimulant, Stomachic, Tonic.

Native to: Southwestern United States and Mexico.

Traditional/medicinal uses: The tops and leaves are harvested while the plant is in flower to assure a high alkaloid content. Care must be taken to cure/dry the plant materials in the shade at a low temperature so that the more volatile constituents are not lost.

Methods of ingestion: As a tea.

Health hazards: None known.

Phytochemicals Include: Albuminoids, Alpha-copaene, Alpha-pinene, Arbutin, Ascorbic-acid, Beta-pinene, Cineole, Chlorophyll, Chromium, Damianin, Magnesium, Manganese, Niacin, Potassium, Resin, Riboflavin, Selenium, Tannins, Thiamin, Thymol, Zinc.

Damiana is a small shrub with aromatic leaves found throughout Mexico, Central and South America and the West Indies. The botanical name of the plant describes its use as an aphrodisiac. For more than 100 years, Damiana's use has been associated with improving sexual function in both males and females. Damiana acts as an anti depressant, tonic, diuretic, to treat coughs and as a mild laxative. It is said to relieve headaches, control bed-wetting, and stimulate muscular contractions of the intestinal tract. Damiana is a stimulating nerve tonic used for

debility, depression and lethargy. The leaves are used in Germany to relieve stress and for its tonic action on the hormonal and central nervous system.

Herbal Definition: Emmemagogue. An emmenagogue is an herb which promotes mensuration.

Damiana Properties Used by Aztecs

Diuretic, Astringent(used in cases of diarrhea), Tonic(used in cases of weakness due to excessive alcohol drinking or sexual activity), Favors Digestion and Promotes the Appetite, Used with Success in Cases of Impotence and Sexual Neurasthenia Provoked by Nervous Depression, Cures Headaches Due to Excessive Drinking. (as in hangover - La Cruda).

Aztec Method of Use

Drink 1 cup after meals of the mixture consisting of 32 grams of fresh leaves boiled for 15 min. in 1 liter of water.

Main constituents: Essential oil with ascaridol (up to 70%), limonene and p-cymene, furthermore numerous other monoterpenes and monoterpene derivatives (alpha-pinene, myrcene, p-cymene, terpinene, thymol, campher and trans-isocarveol).

Ascaridol is rather an uncommon constituent of spices; another plant owing much of its character to this monoterpene peroxide is [boldo](#).

Origin: The plant is indigenous in Central and Southern México, but is today a common neophyte in Europe and the U.S.

Etymology: The English genus name, goose-foot, is a translation of the scientific genus name *Chenopodium*: Greek cheén "goose" and pouís "foot"; it is motivated by the the three-lobed leaf shape characteristic of several plants belonging to this group. Méxican origin or association with missionary orders (e.g., the Jesuits) gave rise to several of the popular names in English and German. A very closely related variety (*var. anthelmitica*) is cultivated in the Southern States of the US for its potency against intestinal worms; thus the name wormseed for the plant. To prevent confusion, the variety used in the kitchen (*var. ambrosioides*) is usually called epazote in English. This name is taken from Nahuatl, the tongue spoken by the Aztecs before the arrival of the Spanish; it is still a minority language in México and in use among the Indios living around México City. The name is due to the strong smell of the herb, which many find disagreeable (epatl "skunk" and tzotl "sweat").

Epazote (flowering tip) Epazote's strong taste is characteristic of the Mayan cuisine in the South of México and Guatemala. Center of epazote usage in México is the Yucatán peninsula. The herb is used fresh in soups, salads and meat dishes; it appears in the recipe for mole verde, a Méxican herb sauce (see Méxican pepper-leaf). The most common usage is, however, in bean dishes, especially Méxican re fried black beans (frijoles refritos). These are basically pinto beans, which are cooked with epazote and other spices (garlic, onion, cumin and dried Méxican chiles and/or paprika). After cooking, they are fried in some pig lard until a smooth puree. Re fried beans are often served in Tex-Mex-style restaurants. The dried herb is considered inferior to the fresh one, but outside Central America and the southern parts of the US, fresh epazote may be hard to find. A common substitute are coriander or long coriander leaves, even in México.

Aztec Use of Epazote

Augments the secretion of all intestinal glands, increases bile, favors the expulsion of intestinal parasites and favors menstruation.

CAUTION if pregnant or if hepatic or renal disease is present!

May be used even if pregnant in small amounts with food since only half a leaf is used for a pound of beans.

Aztec Method of Use

Drink 1 cup on an empty stomach for 3 to 4 days of the boiled mixture consisting of 5 grams of stems and leaves to 1/2 liter of water.

Due to its irritating properties due not take for too many days since it will provoke diarrhea and or colic.

waxy substance sometimes covering plants) leaves and stems, not evident in young plants. The bark peels to reveal a white trunk.

E. ficifolia: (Red flowering gum) is a medium-sized plant with clusters of beautiful, feathery, red flowers up to a foot long.

E. pauciflora: subsp. niphophila (Snow gum) is a small, fairly slow-growing tree that is covered in large, leathery, grayish-green leaves. The multi-colored trunk has been compared to the skin of a python with its green, gray, and cream bark.

Eucalyptus Graphic

Properties of Eucalyptus Used by Aztec's

Fights Diseases of the Respiratory Track, such as Asthma and Difficulty in Breathing, Also

Colds,

Coughs,

Laryngitis,

Chest Colds,

Dry Cough and Tuberculosis.

It is also recommended for Persons Suffering from Diabetes, also Used as an Aperitif and Helps Digestion.

Aztec Method of Use

For Diseases of the Respiratory Track: Drink 3 cups a day of the boiled mixture of 30 grams of leaves to 1 liter of water, it is also recommended to inhale the steam from a wide mouth container with the leaves inside it.

To Cure Diabetes: Drink 3 cups a day for 1 week of the infusion of 4 leaves to 1 liter of water.

For Coughs: Drink 1 cup before bed of the mixture of 20 eucalyptus leaves, 10 grams of cinnamon and 30 leaves of purple bougainvillea to 1/2 liter of water; let warm then sweeten with bee honey.

Floripondio-Angel Trumpet

(*Datura arborea* L.)

(synonymous with *D. blanca*), Reina de la noche, Angel Trumpet (family- Solanaceae)

Small tree that occurs along the ocean to about 1300 m in altitude. Its white flowers give off a strong perfume at night. Due to this perfume, this tree is considered intoxicating and divine in some parts of the world.

Angel Trumpet Links [Link 1](#)

[Link 2](#)

Used to cure Rheumatism, Worms, Inflammation, Colds, Fever, Erysipelas, Cramps and Infections.

Used to cure Asthma and Hemorrhoids. Also used as a Vermicide and as a Cataplasm to Relieve Pain.

This tree is known to occur in Costa Rica but is not very common and is thus not believed to be an indigenous plant.

Properties of Floripondio Used by Aztec's

Antispasmodic, Sciatica, Anticolic, Hepatic, Coughs as in Asthma, Calms Epileptic Convulsions, Eclampsia and Huntington disease.

Aztec Method of Use

This plant should be used with caution since it contains Atropine, a natural and principal active ingredient of it's leaves which will cause vertigo, hallucinations and delirium with convulsions.

Only use 1 to 2 leaves to 100 grams of water.

Properties of Gobernadora Beneficial to Aztec's

Dissolves Kidney and Bile Duct Stones, Used to Fight Rheumatism and Favors the Rapid Healing of Wounds.

Aztec Method of Use

To Dissolve Stones: Boil 5 grams of leaves to 1/4 liter of water, drink 1 to 2 cups a day.

For Rheumatic Pain: Rub on the affected area the same mixture described above.

For Rapid Healing of Wounds: Foment warm on affected area the same mixture as above.

was recommended as a vermifuge by Celsus, Dioscorides and Pliny. It may be used fresh or dried.

[Pomegranate Link](#) [Granada in my backyard](#)

Properties in Pomegranate Used by Aztec's

The roots are used to get rid of tapeworm, the rind is used to fortify the gums and help heal cold sores, the pulp is efficient in healing tonsillitis, respiratory track afflictions, cases of diphtheria and sexual weakness.

Aztec Method of Use

For Tapeworm: Soak 60 grams of root then boil in 1 liter of water, boil until water gets half way in container, from this mixture, drink half before bedtime, then drink the rest upon awakening. After 1 hour take a laxative of sodium sulfate or 45 grams of castor oil. If the tapeworm is not removed repeat the process the following week.

This treatment must not be taken by pregnant women, lactating mothers or children under the age of 10.

For mouth sores, mouth ulcers and cold sores: Boil the rind and gargle 3 times a day.

For Tonsillitis, respiratory afflictions, diphtheria and sexual weakness: Take 2 to 3 spoonfuls of the juice of Pomegranate mixed with bee honey

Hierba del Gato - Catnip

(Nepeta cataria)

Parts used and where grown:

The catnip plant grows in North America and Europe. The leaves and flowers are used as medicine. **Historical or traditional use (may or may not be supported by scientific studies):** Catnip is famous for inducing a delirious, stimulated state in felines. Throughout history, this herb has been used in humans to produce a sedative effect. Catnip tea was a regular beverage in England before the introduction of tea from China. Several other conditions (including cancer, toothache, corns, and hives) have been treated with catnip by traditional herbalists.

Active constituents: The essential oil in catnip contains a monoterpene similar to the valepotriates found in valerian, an even more widely renowned sedative. Animal studies (except those involving cats) have found it to increase sleep. The monoterpenes also help with coughs.

Are there any side effects or interactions? Using reasonable amounts, no side effects with catnip have been noted.

At the time of writing, there were no well-known drug interactions with catnip.

Properties Used by Aztec's

Sedative,

scent, but the aroma isn't always detectable. This Mint is good for garnishes because the thick leaves are slow to wilt.

- **Spearmint** (*M. spicata*) - This is considered one of the most popular and versatile garden Mint. Spearmint has a fruity aroma and flavor and blends well in many foods, including salads, sauces, teas and dips. This plant can reach 2 to 3 feet in height when in bloom. It has bright green leaves and purple flowers. Its toothed leaves lack stems, distinguishing this plant from Peppermint.
- **Water or Bog Mint** (*M. aquatica*) - This aggressive Mint is great for growing along the margins of water gardens, though care must be taken that it does not become troublesome. The Bog Mint grows to a height of 2 or 3 feet. It produces pairs of very fragrant, elliptic-shaped, serrated leaves that are usually tinted with purple and shaded with even more purple on their undersides. The leaves grow from reddish colored stems. In the summer, whorls of lilac colored flowers grow at the stem tips. The leaves may be used to flavor salads and teas.

Properties of Mint Used by Aztec's

Fights Gastrointestinal Distress such as Gastritis, Nausea, Soothes Sour stomach, Stimulates Digestion and Reduces Nasal Secretions due to Colds and Flu.

Aztec Method of Use

- Drink 1 cup after meals of the mixture made from 10 grams of Mint leaves to 1/2 liter of water.
- This same remedy is useful in calming gastrointestinal distress such as hiccups produced in children that are teething; (Should be given in small spoonfuls)

Hierba de San Nicolas-Broom Snakeweed

Gutierrezia sarothrae (Pursh) Britt. & Rusby

Other common names:

broomweed, broom snakeweed, matchweed, turpentine-weed, yellow top, kindlingweed, escobilla, yerba-de-vibora, coyaye, yerba del tabardillo, xoxonitzal and yoloxiltic

Synonymy: *Gutierrezia euthamiae*, *G. longifolia*, *G. diversifolia* Greene, *G. lepidota* Greene, *G. linearifolia* Lag., *G. linoides* Greene, *G. longipappa* S. F. Blake, *G. pomariensis* (S. L. Welsh) S.L. Welsh, *G. tenuis* Greene, *Solidago sarothrae* Pursh, *Xanthocephalum sarothrae* (Pursh) Shinnery, *Xanthocephalum tenue* (Greene) Shinnery, *Gutierrezia sarothrae* (Pursh) Britton & Rusby var. *pomariensis* S. L. Welsh, *Xanthocephalum sarothrae* (Pursh) Shinnery var. *pomariense* (S.L. Welsh) S.L. Welsh.

Latin name meaning: The genus *Gutierrezia* was named after Pedro Gutierrez, a correspondent of the Madrid Botanical Gardens. *Sarothrae* is derived from *sarotron* and *sarothrum*, Latin for broom.

Family: Asteraceae.

Similar species: Prairie snakeweed or threadleaf snakeweed (*Gutierrezia microcephala*). The primary difference between prairie snakeweed and broomweed is the number of ray flowers in the flower head. Broomweed has 3 or more ray flower per head compared to one or two in prairie snakeweed.

Distribution: Alberta, Arizona, California, Colorado, Idaho, Kansas, Northwest Territories, Manitoba, Mexico, Montana, Nebraska, New Mexico, New York, North Dakota, Oklahoma, Oregon, Saskatchewan, South Dakota, Texas, Utah, Washington,

- **For local hemorrhage, such as cuts or deep abrasions:** Apply the leaves on the cut or for a much more stronger remedy boil the leaves first than apply once they are cool to the touch.
- **To stop internal hemorrhage:** Boil 100 grams of leaves to 1 liter of water then drink 1 cup every 2 to 3 hours.
- **For menstrual hemorrhage or hemorrhage outside the menstrual period, after birthing or hemorrhage due to an abortion:** Take the same mixture as above also douch with the mixture and apply a non irritating antiseptic to the vaginal area, (Must be lukewarm to the touch).
- **For Dental Hemorrhage:** Apply leaves directly on the gums.
- **For Intestinal and renal tuberculosis:** Drink the same mixture as above 3 times a day after meals.

Aztec Method of Use

1. **Drink 1 cup after each meal of the infusion made of 1 leaf to 2 cups of water.**
2. **For Bronchial afflictions:** Take 15 to 30 drops of a tincture diluted with a couple of drops of water, prepare tincture with 25 grams of whole plant 1/4 liter of 90 proof alcohol, macerate for a couple of days then filter.

Itamo Real - Mormon Tea

Family: Gnetaceae

Genus: Ephedra

Common names: Mormon Tea, Brigham Tea, Cowboy Tea, Whorehouse Tea, Squaw Tea, Canyon Tea, Desert tea, Brigon tea

Spanish names: Itamo real, Popotillo, Tepopote, Canutillo, Pingo pingo

Indian names: Tuttumpin (Paiute), Tutupivi (Kawaiisu)

Distribution: All of the southwestern United States and Mexico. Found in deserts and on dry mountain sides.

Description: a branched broomlike shrub growing up to 4 feet tall, with slender, jointed stems. The leaves are reduced to scales and grow in opposite pairs or whorls of three and are fused for half their length. Male and female flowers, blooming in March and April, are borne on separate plants in conelike structures. They are followed by small brown to black seeds.

Itamo Real Properties Used by Aztec's

Cures Bronchial and Lung infections (such as: bronchitis, laryngitis, breathing difficulties)

stomach, or even vomiting. Large doses produce violent hypercatharsis, sometimes terminating fatally.

When applied to a wound, it is said to induce purgation. Notwithstanding its activity, it is a safe and convenient purgative, much in use among the profession, and is useful in all cases where it is desirable to produce an energetic influence on the bowels, or to obtain large evacuations.

If intestinal inflammations are present it should not be used.

United with the bitartrate of potassium, its hydragogue properties are much increased, and thus it proves beneficial in dropsies, as well as in some forms of scrofula. Jalap, however, is suitable for excitable, active conditions, and may be used where a cooling effect is desired, as when it is necessary to evacuate the bowels in febrile disorders.

Inflammatory conditions of the biliary apparatus are exceptions to the rule that it should not be used in gastro-intestinal inflammations. When the rectum is impacted with a hard, fecal mass, the expulsion of the latter is facilitated by the purgative action of jalap, which greatly augments the intestinal secretions; all cases of constipation, due to dryness of the mucus membranes, through inactivity of the intestinal glands, are relieved by jalap. The dose for this latter purpose may be 5 grains in the morning, repeated for several days. When a stimulating laxative can not be used because of hemorrhoids, jalap may be employed, and it is likewise efficient as a derivative in cerebral disorders.

It is stated that the aqueous extract of jalap, the root having been previously exhausted of its resin by alcohol, will exert no cathartic influence, but will operate as a powerful diuretic, but I have not been able to procure this effect, though having made a trial in several cases (King). Three grains of jalap, taken an hour before each meal, act as a slight nauseant, destroying a desire for food among persons who are apt to eat too freely. If jalap is digested in ether, its nauseous taste and smell will be wholly removed without lessening its cathartic power. A biscuit is sometimes made for those to whom it is extremely nauseous and disagreeable; 5 drachms of jalap, 30 of sugar, and 4 ounces of flour, are made into 15 biscuits after the usual mode; 1 biscuit is a dose. The tendency of jalap to gripe and nauseate, may be obviated by adding to the dose 1 or 2 grains of camphor, or 3 grains of cloves. The dose of powdered jalap is from 10 to 30 grains (**the aqueous extract ought not to be used, except as a diuretic**) of the tincture, from 1 to 4 fluid drachms; the resin, or alcoholic extract, is given in from 2 to 8-grain doses, being usually rubbed up with sugar, or in emulsion, for the purpose of lessening its disposition to produce painful irritation of the intestinal mucus membrane.

To clean the stomach, liver and to dissolve body fat: Drink daily the juice of 2 Lemons in 1/2 cup of hot water.

To cure Hernias: Rub Lemon juice on the affected area combined with equal parts of Onion juice then compliment with a sun bath.

For Heaviness of the legs and Hidropsia: Drink equal parts of Lemon juice and Onion juice, twice a day. To obtain the Onion juice, slice an onion, collect the juice, strain with a clean handkerchief or metal strainer.

To strengthen gums and cure Gingivitis: Give in a circular motion a massage with the tips of the fingers covered with lemon juice.

To cure Headaches and Nervous Pains: Drink 1 cup of tea, coffee or hot water with the juice of 2 lemons.

To Prevent and Fight Premature Aging: Drink on an empty stomach 1 hour before breakfast the juice of 10 lemons in the space of 3 months, seven days on, seven days off.

To Avoid Baldness and Conserve Strong and Healthy Hair: Rub vigorously on the scalp with the tips of the fingers and the juice of 3 or 4 lemons preferably at night then the next day wash the hair with water and soap avoiding the shower head since this promotes the fallout of the hair.

For Sexual weakness: Drink half a glass of Lemon juice on an empty stomach, 2 hours before breakfast; do this for 3 days.

For a leaking Bile duct and/or Gall bladder: Suck the juice out of a lemon while at the same time eat a piece of bread; in this way the bile will be neutralized and nervousness will disappear.

To stop hemorrhage: Apply Lemon juice directly on the bleeding area; this will promote calcium salt formation leading to quick coagulation.

To disinfects wounds, pustules and exposed ulcers: Apply Lemon juice on the affected region which was previously cleaned with soap and water.

To Cure Flu: Drink on an empty stomach half a glass of Lemon juice with half a glass of strong coffee, as hot as can be tolerated, at night, repeat the process, cover body well avoiding drafts and cold areas.

To stimulate the sweat glands and to promote urination: Drink 1 cup of chamomile or linden flower tea etc, hot with the juice of 2 lemons avoiding drafts and cold areas.

To cure Rheumatism and Gout: Drink for 40 days on an empty stomach, the juice of 7 large lemons, when feeling better, rub the affected areas with a mixture of 1 liter of milk to half a liter of petroleum(fuel oil), empty this mixture into a bottle and heat in a double boiler, when warm, use as suggested taking care to cover the body well and avoid getting wet until the following day.

To Remove Certain Intestinal Parasites: Crush well the several seeds of a lemon

add lots of sugar and eat before bedtime or on an empty stomach until desired results are obtained.

To Promote the Appetite and Increase Gastric juices: Drink the juice of 2 to 3 lemons in half a glass of water, 1/2 hour before meals.

To cure Tonsillitis: Add sodium bicarbonate to lemon juice, gargle 2 to 3 times a day avoiding cold beverages.

To Fight Diarrhea and Dysentery: Drink as a daily drink, whenever thirsty, large quantities of lemon juice sweetened with bee honey or sugar to taste.

To Smoothen, Beautify and Remove Skin Spots: Rub Lemon juice at night on face(avoid the eyes), legs and arms.

To Normalize Cardiac Palpitations: Drink the juice of 2 or 3 lemons dissolved in a glass of cold water, every time as needed.

To Refresh the Body and Remove Thirst: Drink a glass of lemonade prepared with the juice of 2 lemons in 1/4 liter of water sweetened to taste.

To Cure Chronic Insomnia: Drink for 3 consecutive days the juice of 10 lemons; on the fourth night there will be a tranquil sleep.

- Colitis
- Rectitis
- Intestinal Infections
- Cutaneous Diseases
- and to Soften Tumors and Abscess.

Aztec Method of Use

For Bronchitis, Gastroenteritis and Pleuresia: Drink 3 times a day the brew made from 8 to 10 grams of Malva leaves and roots to 1/2 liter of water.

For Tonsillitis: Gargle 3 times a day with the same brew described above.(Avoid Cold Beverages)

For Leucorrea or White Discharge and Inflammation of the Cervix: Wash vagina with the brew made from 50 grams of Malva leaves and roots to 1 liter of water.

For Inflamed Hemorrhoids, Colitis and Rectitis: Employ the same brew described above in rectal washings.

To soften Tumors and/or Abscess and to Cure Skin Disorders: Apply Malva Leaves as a cataplasm over affected area.

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Mamey Sapote

(*Pouteria sapota*)

Other common names: sapote, mamey colorado

Scientific name: *Pouteria sapota* (Jacq.) H.E. Moore & Stearn

Synonyms: *Calocarpum sapota* (Jacq.) Merr., *Calocarpum mammosum* (L.) Pierre

Family: Sapotaceae

Relatives in same family: sapodilla, satin leaf, caimito, canistel, abiu, green sapote.

Origin: Mexico and the Central American lowlands.

Distribution: Mamey sapotes have been grown or cultivated in Central America, Mexico, northern South America, and the West Indies for centuries. The first recorded introduction into southern Florida was during the mid-1880s.

Importance: The mamey sapote is an important fruit in Florida (US), Mexico, Central America, and in the West Indies--including the Dominican Republic, Puerto Rico, and Cuba. In the state of Florida, Cuban Americans and Central Americans have helped to establish a small but viable industry. Except for the Americas, this very attractive and excellent fruit is not well-known, probably because its short-lived seeds may have discouraged intercontinental transport in colonial times.

Recently, there is increasing interest in this fruit in other countries (e.g., Australia, Israel, Philippines, Vietnam, Spain, Venezuela).

[Click for Mamey Graphic](#)

Mamey Properties Favored by The Aztec's

Used to heal exposed ulcers Also used for curling hair.

Aztec Method of Use

0. **For Exposed Ulcers:** Roast in fire the Mamey seed then crush or mash until it is powder then apply on affected area.
1. **To Curl the Hair:** Pick at the Mamey seed until the oil it contains comes out, then apply oil to scalp or hair area each morning until you get the desired effect.

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- Good against Intestinal Colds
- Used to fight bad digestion Gout
- and lowers Fever.

Aztec Method of Use

- **Eat 1/4 to 1/2 kilograms of Apples in form of a Pap daily, they may be a little under ripe, ripe and a little over ripe for best effect. Distribute these meals 4 to 5 times a day.**
- **To fight Insomnia:** Eat 1 to 2 apples before going to bed.
- **To Lower Fever:** Boil 250 grams of Apple Root Cortex in 1/2 liter of water- Drink 3 cups daily.

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allergens.

The chamomiles can also cause contact dermatitis

[Credit for Chamomile Info Here](#) [Click for Manzanilla Graphic](#)

Properties of Manzanilla Favored by Aztec's

- Encourages the Appetite since one of Chamomile's properties is the stimulation of Gastric juices,
- calms colic due to indigestion,
- fights Intestinal Gas,
- favors and eases menstruation,
- eases the pain due to menstrual cramps,
- also useful for Leucorrea or white discharge,
- and also used to cure Conjunctivitis(inflammation of the mucus membrane that surrounds the eyeball).

Aztec Method of Use

- **Drink 3 cups a day of the brew made from 10 grams manzanilla leaves and flowers to 1/2 liter of water.**
- **In cases of Leucorrea or White Discharge:** boil 20 grams of Chamomile leaves and flowers to 1/2 liter of water then use as a vaginal wash.
- **In cases of Conjunctivitis:** Apply the same remedy described above but as an eye wash.

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bronchitis, sore throats, and skin irritations. The plant has also been used as a diaphoretic, diuretic, expectorant, laxative, stimulant, stomachic, tonic, and vermifuge.

Horehound has been used in treatment of tumors . The volatile oil is a carminative and expectorant, while the bitter principle results in gastric activity. Consumption of large quantities of horehound can induce diarrhea and nausea.

[Learn More About Horehound-Marrubio Here](#)

Properties of Marrubio Favored by Aztec's

- Favors Digestion
- Stimulates the Appetite
- Tones and Stimulates the Body
- Disinflames the Bile Ducts
- Calms Cough
- Favors Menstruation
- Useful to Diabetic Persons
- Prevents Hair Loss
- Also Used to Clean Sores and Exposed Ulcers.

Aztec's Method of Use

- **Boil 25 grams of leaves to 1/2 liter of water, drink 3 cups a day one cup after each meal.**
- **To have a Healthy Head of Hair and to prevent Hair Loss:** Use the same brew described above but add Lemon Juice from 3 to 4 lemons then massage scalp twice a week.
- **To Clean Sores and Exposed Ulcers:** Use the same concoction externally.
- **To Stimulate Menstruation:** Drink 1 to 2 days before menstruating the brew made from 12 grams of Marrubio to 1/2 liter of water.

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Matarique

This is the only information I could get on this plant.

Psacalium decompositum (Gray) Rob et Brett.

Common Names: Matarique, Matariqui, Pitcáwi (*tarahumara*).

Es una planta compuesta, de rizoma fibroso, flores blancas, hojas radicales y tallo subleñoso, que crece principalmente en el norte de la Republica Mexicana.

Propiedades:

Cura la Diabetes

El Reumatismo

El Estrñimiento

Neuralgias

y Favorece la Cicatrizacion de las Heridas.

Modo de Empleo

1. Tomar durante 4 a 5 dias una tasa en ayunas del cocimiento de 5 gramos de raiz para un cuarto de litro de agua; se descansa unos dias y se repite el trata miento.
2. **Para Combatir los Dolores Reumaticos:**

Friccionar las partes adoloridas con la tintura alcoholica preparada con cien gramos de la raiz macerados durante 5 dias en medio litro de alcohol 90°; poster iormente, se filtra y se mezcla con medio litro de agua.

3. Para Favorecer la Cicatrizacion de las Heridas:

Aplicar el jugo de la planta sobre la region afectada.

[For English Translation Click Here](#)

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Melon - Melon

(*Cucumis melo* L.)

- Family Name: Cucurbitaceae
- Common Names: Melon, Cantaloupe
- Description: Round, oval, or obvoid in shape, up to 12 inches long, smooth skin, grooved, ribbed or netted, varieties vary in color.
- Family Characteristics: The Cucurbitaceae contains over 90 genera and 750 species. They are predominately warm season crops of tropical and temperate subtropical origin, many of which thrive in hot and humid conditions. Members of this family are known as vine crops, having a prostrate or climbing nature, and are characterized by tendrils. Most are herbacious annuals, few are perennials, and all are frost sensitive.
- Origin: World-Wide

Melons are known to contribute to a person's health by being a rich source of beta-carotene (for muskmelon), but are less well known for their ascorbic acid, carbohydrate, dietary fiber, potassium, calcium and iron contents. Melons have at least thirty-eight (38) of these chemical compounds with beneficial human biological activities. These compounds are called phytochemicals and can have anti-arthritis, cataract, cold, depressant, glaucomic, migraine, obesity, parkinson, ulcer, properties in addition to cancer-preventive attributes.

One of Many Melon Types

Properties of Melon Favored by Aztec's

- Diuretic,
- Digestive,
- Laxative,
- Recommended for Persons suffering from Bladder and Kidney Problems
- and used against certain types of Intestinal Parasites.

Aztec Method of Use

- **Eat the fruit be it either a natural, in salads or as a drink.**
- **To fight certain types of Intestinal Parasites:**
Drink on an empty stomach a glass of Melon **Horchata** prepared with Melon seeds, water and sugar to taste.

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Aztec's Method of Use

Apply an intestinal wash(enema) consisting of 8 Membrillo Hearts and 1/2 teaspoon of Castillian or Wild Roses in 1/2 liter of water. Once the water has boiled add 1/4 of a teaspoon of Hydrogen Peroxide(This is to be a warm enema). Once the child has had a bowel moment, administer another enema consisting of 4 tablespoons of sweet almond oil. The following day repeat the treatment followed by a rigorous diet.

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- wawahi,
- western honey mesquite.

Description: Large shrub or small tree to 6 m (20 ft) tall and 30 cm (1 ft) in diameter. Bark rough, thick, brown, divided into long narrow strips. Twigs glabrous, brown, with usually paired (stipular) sharp spines at the nodes. Buds very small, no terminal bud. Leaves alternate, drooping, bipinnately compound with only one pair of side branches. Leaflets sessile, 7-17 pairs, narrowly oblong, 1-3 cm (0.4-1.2 in) long, yellowish-green, glabrous. Flowers very small, numerous, crowded in spikes about 5-7.5 cm (2-3 in) long, blooming in Spring and Summer.

Fruits legumes, 10-20 cm (4-8 in) long and about 1 cm (0.4 in) in diameter, slightly constricted between seeds, yellowish or brown, ending in a sharp point, maturing in late Summer or Fall.

[Mezquite in my backyard](#)

[Mezquite Graphic 1](#)

[Mezquite Graphic 2](#)

Properties of Mezquite Favored by Aztec's

Expectorant,
Lowers Inflammation,
Helps Fight Irritation in the Digestive Track

Method of Use

Drink a cup several times a day of the infusion made from 50 grams of Mezquite Cortex or seeds to 1 liter of water.

In cases of Dysentery: apply a enema using the same formula as above, apply warm and double dose.

Bronchitis and
Whooping Cough
also used externally for Itchy Skin.

Methods of Use

To eliminate Bile Stones: Mix 6 Turnip slices, 10 Tomato Plant leaves, 10 Wormwood leaves, 2 pinches of Resurrection Fern and the juice of 2 Lemons in a liter of water. Drink 3 cups of this brew, the first cup on an **EMPTY STOMACH** before going to bed the second cup in the morning and the last cup at Noon.

To Calm Coughs, Cure a Cold, Bronchitis and Whooping Cough: Drink a Hot Cup of Turnip Root decoction and Bundle Up Well

To Sooth Itchy Skin: Apply external cataplsms of peeled and cooked Turnip over the affected area.

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7. The brew made from boiling Orange Tree Leaves is considered a sedative since it allows a tranquil sleep and calms nervous altercations, furthermore it relieves pain associated with Rheumatism and Gout.

Aztec's Method of Use

- **Drink one to two glasses of Orange Juice preferable in the morning with breakfast.**
- The Orange Tree Leaves brew is made from boiling 25 grams of Orange Tree Leaves to 1/2 liter of water. Drink 3 cups a day, after meals.

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Over half the fat (56 percent) found in pecans is monounsaturated fat and another 29 percent is polyunsaturated fat. This means that almost 90 percent of the fats (oils) in pecans are heart-healthy!

[To View a Pecan Tree, Click Here!](#)

Nogal Properties Favored by Aztec's

The word "Nogal" refers to the Tree and it's Leaves

Purifies the Blood,
Relieves Diarrheah,
Fights Anemia,
Gives the Body More Energy,
Cures Conjunctivitis and Tonsillitis,
Darkens and Favors the Growth of Hair.

Aztec's Method of Use

1. **(For Blood Purification)** Drink 3 cups a day of the boiled mixture consisting of 200 grams of Fresh Nogal Leaves to 1 liter of water, wait a few hours(2)after meals. Do this for 5 or 6 days.
2. **For Conjunctivitis and Tonsillitis:** Apply the same mixture described above but in the form of eye drops in the first case and as a gargle in the second.
3. **To Darken and Favor the Growth of Hair:** Macerate 200 grams of **Green Pecan Nuts** in 1 liter of pure alcohol then rub the mixture on hair area; best when hair has been washed before treatment.

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to-four-inch wide flowers that bloom in an array of colors, depending on the variety, from subtle to brilliant tones of yellows and oranges, pinks and reds. When the blooms fade, the edible fruits form.

While the prickly pear cactus is native to the United States, Mexico, and South America, it grows well in many areas of the world, including Africa, Australia, and the Mediterranean. In some areas of South Africa and Australia, it has become a notorious weed. It will grow at elevations ranging from sea level to 15,000 feet.

Like most plants that thrive in a wide variety of areas, the prickly pear is tolerant of varied soils, temperatures, and moisture levels. The plants grow best in a sunny position in well-drained sandy loam with some protection from cold winter winds. Plants benefit from applications of a balanced fertilizer during their spring-through-fall growing period and, with excellent drainage, can tolerate almost as much water as any other cultivated plant. They are, however, drought tolerant once established.

The sap from the pads can be used in first aid similar to the aloe vera plant. Simply cutoff a portion of a pad, crush it, and squeeze the juice onto a cut, burn, or bruise. The sap will soothe the wound. Ground or pureed young pads are used as a laxative and also as a remedy for diabetes. According to Marita Cantwellde-Trejo, Extension Vegetable Postharvest Specialist at the University of California, Davis, the Mexican Institute of Nutrition in Mexico City is researching the hypoglycemic effect of cactus consumed by humans.

In Central Africa, the sap from the pads served as a mosquito repellent. In 1911, Burbank noted in *Scientific American*, that when spread on water, it smothers mosquito larvae, and the effect lasts up to a year.

Culinary Uses:

However, forbidding the spines, this cactus is definitely worth eating. The pads are "cladodes" or "nopales" when they're whole, and "nopalitos" when they're diced. They taste something like green beans. The fruits are called prickly pears, cactus pears, or "tunas."

Whether you add sliced or cubed pads to omelettes or gently urge the fruit from its stickery skin and eat it fresh or cooked into jelly, this cactus has much to offer. Even the seeds can be eaten in soups or dried and ground into flour. Recipes and entertaining and informative tips on preparation can be found in Joyce L. Tate's *Cactus Cookbook*, available from the Cactus and Succulent Society of America. Recipes range from appetizers, soups, and salads through entrees, vegetable dishes, and breads to desserts, beverages, and candies.

In Central Mexico, the pads have grown as a traditional vegetable since before the Spanish

arrived. Today, the pads are available in this country throughout the year in specialty produce sections and at farmer's markets. The smaller young pads in the early spring are the most succulent, delicate in flavor, and have the fewest spines. Fresh pads are full of water and should be bright green and firm. To prepare the pad, simply hold its base and scrape the skin on both sides with a blunt knife until all the spines are removed. Then peel the pads and cut them into shoestring strips or dice them according to the needs of the recipe. They can be eaten raw in salads, boiled and fried like eggplant, pickled with spices, or cooked with shellfish, pork, chilies, tomatoes, eggs, coriander, garlic, and onions.

The flavor of a ripe prickly pear cactus fruit depends on the variety but include strawberries, watermelons, honeydew melons, figs, bananas, and citrus. You can eat them raw, at room temperature or chilled, and alone or with lemon juice. They can be cooked into jams and preserves or cooked down into a syrup as a base for jelly and candy (the "cactus candy" in some Mexican food stores.) This syrup can be reduced even further into a dark red or black paste that is fermented into a potent alcoholic drink called "coloncha." The fruit pulp can be dried and ground into flour for baking into small sweet cakes, or stored for future use.

Individual taste preferences will dictate which varieties to choose for eating fresh and which for cooking. In Mexico alone, there are over 100 species with edible fruits. Sam Williams, a cactus enthusiast in Carmichael, California, says that while all the fleshy fruit kinds are edible and none are poisonous, only a few are palatable and even fewer taste really sweet. They range from juicy to dry and sweet to acid. Cantwell-de-Trejo says that the acidity and fibrousness of the fruits are called "xoconochtlis" and are used in certain traditional Mexican stews and other dishes.

Fruit size, shape, and color vary from small and round like a walnut to three inches long and two inches wide like a rounded cylinder. Skin and flesh come in a rainbow of colors (white, green, yellow, orange, red, purple, and brown. White-skinned varieties are the most popular in Mexico, says Cantwell-de-Trejo, while the sweetest varieties generally available in this country have dark reddish-orange or purple skins and deep red-purple flesh. The fruit contains about one-half the amount of an orange. According to Cantwell-de-Trejo, this is its most important use in the diet of rural Mexicans.

The fruits ripen from early spring through late fall, depending on the variety. Those that are best for eating fresh ripen from September through November. Charlotte Glenn of Le Marche Seeds International in Dixon, California, who works extensively with gourmet vegetables, says that the perfect stage of ripeness of each fruit lasts only about a week, and the maximum shelf life of a fruit is only eight or nine days. Many of the fruits sold in California are imported from Mexico to extend the market season.

The Mexican indians and a lot of people who have tried them, including myself, will tell you that the Nopal Leaves or "Pencas" are delicious, furthermore, they are good for you also. Well enough, I'm getting hungry.

"Warning and Caution": All Pencas come with Spines Be Careful

Nopal Properties Favored by Aztec's

- Favors the expulsion of certain types of intestinal parasites,
- Increases the secretion and excretion of urine,
- Strengthens the lungs,
- Cures Diabetes,
- Increases milk production for mothers who are in lactation,
- Allows the maturation of abscesses.

Aztec's Method of Use

- **To Expel Certain Intestinal Parasites and to Increase the Secretion and Excretion of Urine:** Boil 100 grams of Nopal Pads(Pencas) to 1 liter of water, drink 3 cups daily.
- **To Strengthen the Lungs:** Cut in half a medium sized penca, scrape the interior in the shape of a cross, (don't remove all the internal material), add honey and re-close, let stand, the following day, cook over an open flame and eat on an empty stomach. Do This Daily for Three Months.
- **To Cure Diabetes:** Boil 1 Nopalito, 5 Green Tomato Husks, 1/2 small, tender(calabacita)calabash or squash in 1/2 liter of water. Let stand all night then the following day drink as a daily drink.

- **To Increase milk production in Lactating Mothers:** Eat daily on an empty stomach 2 grilled Nopales or in a salad with olive oil as dressing. after 1/2 hour has passed after eating the Nopales, drink a cup of alfalfa tea.
- **To allow Abscess to Mature:** Cut the Nopal in half, heat up the penca, then place on affected area.

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Oregano

(*Origanum vulgare* L.)

- Plant family: Lamiaceae (mint family).
- **Sensoric quality:** Aromatic, warm and slightly bitter. Oregano largely varies in intensity: Good quality is so strong that it almost numbs the tongue, but the cultivars adapted to colder climate have often unsatisfactory flavor.
- **Main constituents:** The essential oil (max. 4%) may contain variable amounts of the two phenols carvacrol and thymol (see also thyme and savory); furthermore, a variety of monoterpene hydrocarbons (limonene, terpinene, ocimene, caryophyllene, beta-bisabolene and p-cymene) and monoterpene alcohols (linalool, 4-terpineol) are reported.

In Mexican oregano (*Lippia graveolens*) an essential oil of very similar constitution is found. A typical analysis is as follows: 50% thymol, 12% carvacrol, 9% p-cymene and a number of further monoterpenoids (1,8 cineol, gamma-terpinene, terpinene-4-ol and terpinene-4-yl acetate) in amounts between 1 and 5%.

Flowering Oregano. This Italian cultivar has an exceptionally intensive flavor.

- **Origin:** Several species of genus *Origanum* are native to the Mediterranean, all of which are traded as a spice. The influence of climate, season and soil on the composition of the essential oil is greater than the difference between the various species. The most important species are *O. vulgare* (*pan-European*), *O. onites* (Greece, Asia Minor) and *O. heracleoticum* (Italy, Balkan peninsular, West Asia). A closely related plant is marjoram from Asia Minor, which, however, differs significantly in taste, because phenolic compounds are missing in its essential oil. Some breeds show a flavor intermediate between oregano and

Properties of Oregano Favored by Aztec's

- Expectorant,
- Stomachic,
- Strengthens the Body,
- Regulates Menstruation,
- Expels Intestinal Parasites in Great Quantities,
- Also Useful to Induce Vomiting(in case someone is poisoned and needs to empty stomach quick)
- **Children and Pregnant Women Should Refrain from Using this Herb!**

Aztec's Method of Use

- **Drink a cup on an empty stomach of the boiled mixture of 7 to 10 grams of Oregano to 1/2 liter of water.**
- **To induce vomiting:** Eat a large amount of Oregano to expel the toxic substance.

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Ortiga Properties Favored by Aztec's

- Cures Dropsy,
- Useful against Diarrhea,
- Rheumatism,
Bronchial Afflictions,
and Contains Uterine Hemorrhage.

Aztec's Method of Use

Drink 3 to 4 cups of the boiled mixture containing 15 to 30 grams of Ortiga Leaves and Roots to 1/2 liter of water.

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almost to extinction.

Save Our Tree's Global Tree Campaign

Properties of Arbol de Brasil^{wood} Favored by Aztec's

Useful for Renal and Cardiac Diseases

Aztec's Method of Use

Drink 1 cup 3 times a day of the infusion made with 12 to 15 grams of **splintered** Palo de Brasil to 1/2 liter of water.

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- Energizer, useful to thin weak people,
- Helps people suffering from rheumatism,
- Renal stones,
- Bladder stones,
- Dissolves tumors,
- Calms Neurologies
- Softens abscesses
- Eliminates loose dandruff and
- Fights afflictions that affect hairy dermis(skin)

Aztec Method of Use

- **Eat Papas, in all it's combinations, 2 to 3 times a week.**
- **To dissolve renal and bladder stones:** Drink for fourteen(14) consecutive days, the water in which Potatos have been boiled
- **To dissolve tumors,soften abscesses and calm neurologies:** Apply in the form of a cataplasm, raw grated Papa

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water can be controlled.

[Papaya Info Courtesy of "http://www.org.org/pubs/fl/papaya.html"](http://www.org.org/pubs/fl/papaya.html) [Papaya Graphic](#)
[Papaya Tree Graphic](#)

Properties of Papaya Favored by Aztec's

Favors Digestion,
Diuretic,
Laxative,
Vermifuge,
Meat Tenderizer,
Cures Skin Irritation
and Cures Sunburn

Aztec's Method of Use

Eat Papaya a natural, in salads, cooked, boiled, in a milk shake or as preserves.

To Use as a Vermifuge: Drink on an empty stomach, Papaya juice mixed with an equal amount of honey ,in a cup of hot coffee, 1 half hour later, administer a laxative.

To Use as a Meat Tenderizer: As the meat is being cooked, add Papaya seeds to it or wrap the meat in Papaya leaves before grilling.

To Cure Skin Irritations and to Cure Sunburn: Apply Papaya Juice on affected areas.

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Perejil Properties Favored by Aztec's

Increases the Amount of Urine,
Favors Menstruation,
Promotes Perspiration,
Applied Externally, it acts as a Disinflammatory.
and is an Aphrodisiac.

Aztec's Method of Use

Drink 3 Cups a Day of the Boiled Mixture made of 60 grams of Fresh Parsley to 1/2 liter of Water.

As a Disinflammatory: Apply Crushed and Boiled Parsley on Wounds and Contusions.

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Further Reference Sources: "A Field Guide to the Plants of Arizona", Anne Orth Epple, 1995, Falcon Press

Pinguica Properties Favored by Aztec's

- Increases the amount of Urine, and helps in the elimination of Renal Stones,
- lowers Albumin Level
- also good for curing Bronchitis, Diarrheah, White Vaginal Discharge and Infections of the Urinary Tract.

Aztec's Method of Use

- **Drink 3 cups a day of the boiled mixture consisting of 50 grams of leaves to 1/2 a liter of water, or better still, drink a glass in the morning on an empty stomach and another at night before bed of the boiled mixture consisting of 25 to 50 grams of Pinguica Fruit to 1/2 liter of water.**
- **To Increase Urine Amount and to help dissolve and expel Renal Stones:** Drink as a Daily Drink the boiled mixture consisting of 120 grams of Resurrection Fern mixed with 50 to 100 grams of Pinguica to one and a half liter of water.

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Aztec's Method of Use

- **Eat Pineapple-** in any form(salad, shake..etc.)at any hour.
- **In Case of Diphtheria:** Drink a lot of Pineapple Juice mixed with Onion Juice and Sweetened with Bee Honey.
- **To Remove Renal Stones:** Drink Pineapple Juice on an Empty Stomach

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[Banana Graphic 1](#) [Banana Graphic 2](#)

[Banana Site](#) - Your online resource for Banana!

Banana Properties Favored by Aztec's

- Decongests the Respiratory Track,
- Calms the Nervous System,
- is a Laxative,
- Cures Urinary Infections,
- Has a Great Nutritional Value,
- Kills [Tuberculosis Bacteria](#)
- and Used to Fight Alcoholism

Aztec's Method of Use

- **Eat Banana's a Natural, Fried, Cooked, in a Shake, etc...**
- **To Kill Tuberculosis Bacteria:** Drink the Extract from the Stem attached to the Banana Cluster or Bunch.
- **To Fight Alcoholism:** Drink a small glass of the boiled mixture consisting of 3 Banana Peels, Tabasco, the Water or Milk from 1 Coconut, Brown Sugar or Sugar Loaf to Taste; let Ferment for 3 Days then add a Snifter of Licor. **Do This for 9 Days!**

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- Stimulates the Appetite,
- Stimulate Sweat and Urine Production,
- Tones and Purifies the Blood Prevents Muscle Fatigue,
- Cures Laryngitis and
- Bronchial Infections,
- Gingivitis,
- Scurvy,
- Fights Anemia and
- Helps Dissolve Bile Stones

Aztec's Method of Use

- **Eat Radish**, (making sure it is washed and disinfected), in a salad or better yet Drink a cup after meals of the brew made from 7 to 15 grams of Rabano Root to 1/2 a liter of water.
- **To Cure Laryngitis, Bronchial and Throat Infections:** Drink Daily whenever thirsty the brew made from 50 grams of Radish to 1/2 liter of water, sweetened with Honey.
- **To Fight Anemia:** Take a Tablespoon 3 Times a Day of the Radish Syrup made by boiling 150 grams of Unpeeled radish; (Boil for 20 Min. in 1 and 1/2 liter of water)add 750 grams of Sugar and 22 Drops of Tincture of Iodine, Boil without stopping until syrup consistency is achieved.
- **To Dissolve Bile Stones:** Eat 20 grams of Rabano Negro in the Morning on an Empty Stomach and then the Same Dose at Night Before Bed.

It Is a Very Good Remedy

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- **To Prevent Hair Loss, Promote Hair Growth and Avoid Dandruff:** Rub on Head, Twice a day, with the following Rubbing Alcohol Mixture-10 grams of Romero Flowers and Leaves, 10 grams of Brotano Macho(Cotton Lavender), and 1/2 liter of Alcohol. **Mix Well**, Let Macerate for 1 Week, Then Filter or Strain.
- **To Cure Sciatica:** Rub the affected area with the mixture made from 4 Romero's, 1 liter of Alcohol, Crushed Garlic, Tabacco, Allspice, Beleño(Henbane), Ruda(Rue) and Pirull(Pepper Tree), Verter in a Bottle, Let Heat up outdoors in the Sun, then Rub on affected area until pain Disappears. Complete the Treatment by Chewing a Clove of Garlic in the Mornings,swallow the juice, but spit out the chewed remains.
 - **To Repel Insects and Aromatize your Home:** You must have a fire proof container that you can hold in your hands without burning yourself.
 1. Ignite 4 to 6 charcoal brickets
 2. Place glowing coals in fire proof container
 3. Add a mixture of dry and fresh Romero leaves
 4. As the mixture smolders,go from room to room in your home.**(Use Common Sense with this One!)**

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Ruda - Rue

(*Ruta graveolens* L.)

- **Common Name:** Common Rue, Herb-of-Grace, Bitterwort
- **Spanish:** Ruda
- **Family:** Rutaceae Juss.
- **Country of Origin:** Southern Europe
- **Habitat:** Rocks, old walls and dry hills, mainly on limestone
- **Description:** A hardy evergreen herb.
- **Division:** Magnoliophyta
- **Class:** Magnoliopsida
- **SubClass:** Rosidae
- **Order:** Sapindales
- **SubOrder:**

Rue is a small evergreen subshrub or semiwoody perennial 2-3' tall and almost as wide. The stems become woody near the base, but remain herbaceous nearer the tips. The 3-5" long leaves are dissected pinnately into oblong or spoon shaped segments. They are somewhat fleshy and usually covered with a powdery bloom.

The sea green foliage has a strong, pungent, rather unpleasant scent when bruised. The paniculate clusters of small yellow flowers appear in midsummer, held well above the foliage and often covering most of the plant. Each flower is about a half inch across with four concave notched petals. Rue usually grows in a compact, rounded mound. 'Jackman's Blue' has beautiful bluish green foliage and stays in a tight, rounded form, smaller than the species; this is the most popular cultivar in Europe. 'Blue Beauty' is small, to 18" tall, with

powdery blue foliage. 'Variegata' has white splashes on the leaves and is often used in floral arrangements.

Credits for this Page

[FloridaData.com](#) [BioDiversity](#) [Ruda Graphic](#)

Based upon: Watson, L., and Dallwitz, M. J. (1992 onwards). 'The Families of Flowering Plants: Descriptions, Illustrations, Identification, and Information Retrieval.' Version: 19th August 1999.

Ruda Properties Favored by Aztec's

- Provokes Menstruation that is why it is very important that pregnant women should refrain from using this herb.
- Calms pain associated with hepatic colic or intestinal.
- Useful in Treating Nervous Diseases.
- Regulates Hearts Palpitations.
- Kills Lice and their Eggs(nits).
- and is also used for cleaning exposed ulcers, sores, wounds.

Aztec's Method of Use

- **Drink 2 cups a day of the infusion made from 3 to 5 grams of Fresh Ruda, to 1 liter of water. If You Use Dry Ruda Use Only Half the Dose.**
- **To Eliminate Lice and Nits:** Apply a Strong Massage to the Head after Washing with the following Treatment:
Boil 35 grams of Ruda, after letting cool a while apply to head and soak well, then wrap with a linen or cotton cloth, after 1 hour, comb well.
- **To Clean Exposed Ulcers, Sores..etc...:** Boil 20 to 30 grams of Ruda and Clean the Area.

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Digestive, Carminative (the expulsion of intestinal gases), Emmenagogue (Helps to promote and regulate menstruation), Diuretic, Aperitif, Upset Stomach (helps relieve some of the gas accompanied by certain dyspepsias), Antispasmodic (relieves the colic pain accompanied by gastroenteritis), is also used for vomiting and nausea caused by Dizziness, Vertigo and Abstergencia nerviosa and Headaches.

Aztec Method of Use

They would drink 3 cups of the infusion a day by small teaspoonfuls. The infusion is made with 10 grams of seed to 1/2 liter of water.

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kinds of butterflies. Blooming time is March to frost.

Originally, Prunella was called Brunella, from the German bruen meaning quinsy, a disorder of the throat, for which this plant was considered a certain cure. Vulgaris comes from vulgus, of the common people. Both refer to the ancient belief in the healing powers of this plant.

It has been used medicinally to cure many ailments. No wonder it is called **Heal-all**. We find it used for the treatment of boils, gas, colic, sore throat, hemorrhages, and diarrhea. It is much esteemed for healing wounds as it is an effective astringent, thus useful in stopping the flow of blood from a cut or wound.

Research suggests that the plant possesses antibiotic, hypotensive, and antimutagenic qualities. It contains the antitumor and diuretic compound Ursolic Acid.

Cancerino - Heal All Properties

For Throat Pain and Tonsillitis also used for Exposed Ulcers and Wounds.

Aztec Method of Use

- **For throat pain, inflammation of the tonsils (tonsillitis), exposed ulcers and wounds:** Boil in 1/4 liter of water, 10 grams of Cancerino; then strain and with this decoction fill a glass 3/4 full, mix in a spoonful of hydrogen peroxide 1 spoonful of alcohol, and with this, gargle before bed for 2 to 3 days,

"Warning" Do Not Swallow The Liquid or Drink Cold Beverages After Taking Treatment! This Remedy is ONLY for Adults and Teenagers who are not likely to swallow the liquid.

- **For Exposed Ulcers and Wounds:** Take a couple of branches of Cancerino, "Shake Well" and collect the dust that this action will produce; (The violent shaking or beating of this plant will produce a fine dust, TRY to collect as much as possible.), then boil the weed in 1/2 liter of water and with this brew **Clean the wound Well**, dry with cotton, add the Cancerino dust then wrap with gauze bandage.

This procedure must be done daily until healing is noticed. It is also recommended **Not to drink Alcohol** or **Coffee** Do Not **Eat Hot** and/or **Spicy Foods** and **Pork** or **Pork Products**.

Salvia - Sage - Common Sage

(*Salvia officinalis*)
(*Salvia lavanduloides*)

Spanish Name: Salvia

Botanical Name: *Salvia officinalis*, *Salvia lavanduloides*.

Other Name: Salvia Real, Salvia de Bolita, Yerba de Santa Maria, Alhucema de la Costa, Te de Mar, Chia, Meforana, Mirto,

Origin: Mediterranean basin

Properties: Digestive, antiseptic, astringent, carminative, tonic.

Preparation: Leaf, stem. Tea/ Infusion.

Indications: Stomach ache, sore throat, sore gums, insomnia, nerves, diabetes.

Side Effects: Not to be taken during pregnancy or breastfeeding.

Comments: Sage's popularity peaked during Middle Ages. Sage elixirs were bottled and sold throughout Europe. There was a Latin proverb "why should a man die while sage grows in his garden?" The physicians used poultice of the pounded leaves for infected wounds, boiled it to wash itching skin conditions and prescribed sage tea for cold.

Mexican Americans today use these same remedies. Salvia comes from Latin word salvus, meaning health, to heal. Sage tea is still popular in Greece.

Salvia Properties Used by Aztec's

Favors Digestion

Stimulates Intestines

Diminishes the production of sweat, saliva, urine and mucus

Used with success in Bronchitis and Tuberculosis cases

[Click for Salvia Graphic](#)

Aztec Method of Use

Drink 1 cup 3 times a day, before meals, of the brew made from 10 grams of Salvia to 1 Liter of water or better yet, take 3 to 5 grams of tincture, diluted with a little water, 3 times a day. This tincture is prepared with 100 grams of Salvia to 1 Liter of Alcohol; let macerate for 2 days then afterwards filter or strain.

To diminish cough and the secretion of mucus: Take 3 to 5 teaspoons a day of the above mentioned tincture

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Aztec Method of Use

- **To Calm Rheumatic and Neurological Pain:** Apply Salvado on painful areas, Apply dry or wet, if applying wet Salvado, it must be warmed in water.

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Simonillo Properties Used by Aztec's

- Efficiently Combats Gastrointestinal Distress, since one of Simonillo's properties is to lower the stomach's mucus membrane inflammation, relieves pain and stops vomiting,
- Lowers Swelling of the Bile Ducts
- Increases Appetite
- Favors the expulsion of Bile
- **MUST NOT BE USED BY CHILDREN, BY WEAK INDIVIDUALS or PERSONS IN ADVANCED AGE.**

Aztec Method of Use

- **Drink 1 cup, on an empty stomach, of the brew made from 60 to 80 grams of Simonillo leaves to 1 Liter of water, in case nausea develops, reduce the dose.**
- **To remove the strong bitter after taste of the plant: Take a little honey with lemon juice or eat a little piece of sugar loaf.**

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Taray Properties Used by Aztec's

- Used in Renal Afflictions and
- Hidropsia

Aztec Method of Use

Drink 3 times a day, before meals, for 5 days, 1 cup of the brew made from a couple of pieces of Taray Cortex to 250 grams of water, add the juice of 1 lemon, drink warm.

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Tejocote - Mexican Hawthorn

(*Crataegus pubescens stipulacea*)

- **Latin Name:** *Crataegus pubescens stipulacea*
- **Synonyms:** *C. mexicana*. *C. mexicanus*. *C. stipulacea*. Loud.
- **Family:** Rosaceae
- **Spanish Name:** Tejocote
- **Other Name:** Chiste, Manzanilla, Manzanita
- **Aztec** Texocotl.
- **Habitat:** Clearings of pine - oak woodlands in Mexico.

Credit for info: GardenBed.com

CRATAEGUS pubescens - Mexican Hawthorn (Mexico) Height 5-7 metres A hardy, fast growing semi-evergreen small tree with dense branches and practically no thorns. Decorative for most of the year. White flowers followed by yellow edible fruit. Fairly large oval leaves turn orange-red in late autumn. Adapts to almost any well-drained location including clay soils but prefers a lime rich soil and dislikes extremely dry conditions. Frost hardy. Suitable for street planting, hedging or as a specimen.

Credit for info: Winterhill.com

Tejocote Properties Used by Aztec's

- Increases Urine Production
- Lowers Swelling of Renal Epithelium and
- Fortifies the Muscle System

Aztec Method of Use

Drink 3 cups a day of the brew made by boiling 75 grams of Tejocote root to 1 Liter of water. Boil until half the water is evaporated.

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Te Limon-Zacate Limon-Lemongrass

(*Cymbopogon citratus* syn.)

(*Andropogon citratus*)

- **Spanish Name:** Te limon
- **Botanical Name:** *Cymbopogon citratus* syn. *Andropogon citratus*
- **Other Name:** Zacate Limon.
- **Aztec Name:** Ocozacatl

Herb Names Credit: [Traditional Mexican Herb Usage](#)

Lemongrass (*Cymbopogon citratus*) is a native of India and Sri Lanka. It is used in herbal teas and other nonalcoholic beverages, in baked goods, and in confections. The oil is widely used in perfumes and cosmetics. Lemongrass has been considered a carminative and insect repellent. West Indian lemongrass is reported to have antimicrobial activity and the oil acts as a central nervous system depressant. East Indian lemongrass oil has antifungal activity. The volatile oils may also have some pesticide and mutagenic activities. The bulbous stems and leaves are used in Asian cooking and teas.

Credit: [Medicinal, Culinary and Aromatic Herbs](#)

Te Limon Properties Used by Aztec's

- Used to Calm Stomach Aches
and

- Minimizes Intestinal Gas

Aztec Method of Use

Drink 3 cups a day, after meals, of the brew made from 1 Te Limon Reed or Blade to 1 Liter of water.

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Aztec Method of Use

o

Drink 3 cups a day, after meals, of the boiled mixture consisting of 25 grams of Tepozan Root and Cortex to 1/2 Liter of water.

o **For Rheumatism, Sores and Exposed Ulcers:** Apply Tepozan leaves on the affected areas in the form of a cataplasm.

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- Cures Insomnia,
- Favors Digestion,
- Calms Menstrual, Hepatic and Renal Cramps,
- Disinflames the Digestive Tract,
- Is a Laxative,
- Sudorific
and
- Diuretic
- Useful in Bronchitis Cases

Aztec Method of Use

- **Drink 1 cup, 3 to 4 times a day of the infusion or brew made from 2 to 4 grams of Tila leaves to 1/2 Liter of water.**
- **To Increase it's Sedative effect:** Add 10 grams of Orange Tree Leaves.
- **To obtain the best effect over Bronchial Mucus:** Add to the Tila infusion, 5 grams of Borage Flowers

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Toronjil - Giant Mexican Hyssop

- **Spanish Name:** Toronjil
- **Botanical Name:** Agastache mexicana, Cedronella mexicana, Melissa spp.
- **Other Name:** Toronjil Morado, Te de Menta.
- **Aztec:** Tlalhaueuetl, Tlalamatl, Tzompilihuitzatl.

Agastache mexicana, also known by its common name Mexican Giant Hyssop or by its synonyms Brittonastrum mexicana or Cedronella mexicana, is an erect bushy, lemon scented, short lived perennial with ovate to lance shaped leaves, and bearing spikes of rose - red blooms in mid-late summer. It requires moderately fertile, well drained soil in full sun and will attain a height of 24-36" (60-90cm.) and a width of 12" (30 cm.).

Credit for info:

BotResearch.epluzg.com

[Click for Toronjil Graphic](#)

Toronjil Properties Used by Aztec's

- Stimulates Digestion,
- Opens the Appetite,

- Increases Energy to the Heart,
 - Improves Blood Circulation,
 - Calms the Nervous System,
 - Fortifies Brain Functions
- also used for
- Vertigo,
 - Fainting Spells,
- The cream is used for
- bumps,
 - bruises
- and
- Rheumatic Pain

Aztec Method of Use

- **Drink 1 cup, after each meal, of the infusion made with 15 to 20 grams of Toronjil leaves to 1/2 Liter of water**
- **To Calm the Nervous System:** Take the same infusion as above but add 10 grams of Orange Tree leaves; take 1 cup in the morning on an empty stomach and 1 before going to bed.
- **For Bumps and and Rheumatic Pain:** Apply the cream prepared with 25 grams of pure lard, and 1/2 gram of Essence of Toronjil

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Tumbavaqueros - Princess Vine

(*Cissus sicyoides L*)

- **Family:** VITACEAE Juss.
- **Common Name:** Princess Vine
- **Classification:**
- **Division:** Magnoliophyta
- **Class:** Magnoliopsida
- **SubClass:** Rosidae
- **Order:** Rhamnales
- **Origin:** Florida and Tropical America

A vigorous, much-branched climber to 3m (10ft) or more. Leaves heart-shaped, about 10cm (4in) long, slender-pointed, somewhat fleshy and a pleasing light green. Under humid conditions, slender aerial roots are produced in profusion, hanging down like a curtain.

Tumbavaqueros Properties Used by Aztec's

- Increases Urine Production,
- Fights Obeseity,
- Calms Cramps,
- Is a Laxative,

- Sedative
and used with success against
- Epilepsy
and
- Huntington disease

Aztec Method of Use

- **To Fight Obeseity:** Take 3 cups a day of the boiled mixture consisting of 30 grams of Tumbavaquero Root to 1/2 Liter of water.
- **Drink 1 cup 3 times a day of the boiled mixture consisting of 15 grams of Tumbavaquero Root to 1/2 Liter of water.**

**Must Not be Given to Small Children
or Used for a Prolonged Period of Time!**

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Carica papaya
Caricaceae
Gerald D. Carr



Curly Leaf Parsley













This is a picture of my mom scraping the spines off of nopalitos (prickly pear cactus)



This is a picture of Cuco grilling Nopalitos and Chicken (and a turkey drumstick)





Here you have my brother inlaw Refugio or Cuco, as he likes to be called, cooking Nopalitos and Chicken over a Mezquite fire

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This is a picture of ready to eat nopalitos.(notice the saute onions and cilantro)











A Guide to Medicinal and Aromatic Plants

Welcome to the Medicinal and Aromatic Plant home page, sponsored by the Center for New Crops and Plant Products. The **Guide to Medicinal and Aromatic Plants** has several main components:

[Plant/Crop Descriptors](#)

The plant/crop descriptors are general monographs providing background information about each herb plant. Plants are listed in alphabetical order by common and Latin names.

[Guide to Herb Varieties](#)

The Guide to Herb Varieties provides a listing of herb varieties available from commercial sources.

[Sources of Herb Seeds and Plants](#)

The herb seed and plants directory provides a guide to public and commercial sources of these plants.

[Botanical Companies Database](#)

Searchable database of companies in the botanical products industry. This project was funded in part by ASNAPP

[Flavor, Fragrance and Essential Oils Companies Database](#)

Searchable database of companies in the flavor, fragrance and essential oils industries. This project was funded in part by ASNAPP

[Links to Other Web Sites](#)

Links provides a direct bridge and listing to other related web sites.

You can also find:

[Aromatic, Spice, and Medicinal Plants](#)

General information about this site, instruction for use, acknowledgments, a comment/suggestion form, and information on contacting our personnel.

[NewCROP](#)

This will bring you into our main new crop server (NewCROP) of which this site can be considered a subset built to highlight information on these commodities of plants. NewCROP offers the most comprehensive library and compilation of new and alternative crop information available on the world-wide web.

We hope that this web site will provide technical assistance to you in your search for sound scientific information about medicinal, spice and aromatic plants, and in particular be of benefit in the introduction and production of these unique and fascinating specialty crops and natural plant products.

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Ostrya virginiana

Oxydendrum arboreum

Pacific Yew

Panax species

Papaver somniferum

Parsley

Parthenium hysterophorus

Passiflora incarnata

Passionflower

Patchouli

Pelargonium graveolens

Pennyroyal

Peppermint

Petroselinum crispum

Phytolacca americana

Pimenta dioica

Pimenta-longa

Pimpinella anisum

Pinkroot

Pinus strobus

Piper hispidinervum

Piper methysticum

Pipsissewa

Plantago spp.

Plantain

Podophyllum peltatum

Poison Hemlock

Pokeberry

Polygala senega

Polygonum

Poppy

Populus balsamifera

Populus candicans

Prickly-Ash

Prickly Lettuce

Prunus serotina

Psyllium

Ptelea trifoliata

Purple coneflower

Purplestem Angelica

Purple Trillium

Quack grass

Quercus alba

Rhamnus purshiana

Rhus glabra

Rose

Rosella

Rosmarinus officinalis

Rosemary

Rue

Rumex crispus

Ruta graveolens

Safed moosli

Saffron

Sage

Salix nigra

Salvia officinalis

Salvia sclarea

Sambucus canadensis

Sandalwood

Sanguanaria canadensis

Sarsaparilla

Sassafras variifolium

Satureja spp.

Savory

Saw palmetto

Scrophularia marilandica

Scutellaria lateriflora

Seneca-Snakeroot

Senecio aureus

Senna

Serenoa repens

Serenoa serrulata

Sesame

Sesamum indicum

[Skunkcabbage](#)

[Slippery Elm](#)

[Smilax pseudo-china](#)

[Smooth Hydrangea](#)

[Smooth Sumac](#)

[Snakeroot](#)

[Solanum carolinense](#)

[Solanum dulcamara](#)

[Solidago odora](#)

[Solidago suaveolens](#)

[Sorbus americana](#)

[Sourwood](#)

[Southernwood](#)

[Spathyema foetida](#)

[Spigelia marilandica](#)

[St. John's Wort](#)

[Stevia rebaudiana](#)

Stinging Nettles

[Sweet birch](#)

[Sweet Cudweed](#)

[Sweetfern](#)

[Sweetflag](#)

[*Symphytum officinale*](#)

[*Tagetes*](#)

[Tamarack](#)

[*Tanacetum vulgare*](#)

[Tansy](#)

[*Taraxacum officinale*](#)

[Tarragon](#)

[*Taxus*](#)

[Tea](#)

[*Theobroma cacao*](#)

[*Thuja occidentalis*](#)

[Thyme](#)

[*Thymus* spp.](#)

[*Tilia americana*](#)

[Tragacanth](#)

[Trailing-Arbutus](#)

[Trigonella foenum-graecum](#)

[Trilisa odoratissima](#)

[Trillium erectum](#)

[Tsuga canadensis](#)

[Tumeric](#)

[Turtlehead](#)

[Tussilago farfara](#)

[Twinleaf](#)

[Ulmus fulva](#)

[Uncaria guianensis](#)

[Uncaria tomentosa](#)

[Valerian](#)

[Valerianella olitoria](#)

[Vanilla](#)

[Vanilla planifolia](#)

[Veratrum viride](#)

[Verbascum thapsus](#)

[Verbena hastata](#)

[Veronica virginica](#)

Veronicastrum virginica

Vervain

Viburnum prunifolium

Viburnum trilobum

Wahoo

Watercress

West Indian Bay

White Ash

White Mustard

White Oak

White Pine

Wild Geranium

Wild-Sarsaparilla

Wild Yam

Winterberry

Wintergreen

Witch-Hazel

Woodruff

Wormseed

Wormwood

Xanthorhiza simplicissima

Xylopiya aethiopica

Yarrow

Yellowdock

Yellowroot

Yellow Wild-Indigo

Yerba Santa

Ylang Ylang

Yohimbe

Zingiber officinale

Zanthoxylum americanum

Zanthoxylum clava-herculis

Muskdana or Ambrette (*Abelmoschus moschatus*): Aromatic and Medicinal

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Abelmoschus moschatus (L.) Medic, Malvaceae (Syn. *Hibiscus abelmoschus* L.) is a tropical weedy shrub native to India valued for its scented seed. Ambrette is a close relative to Okra, a popular horticultural crop. The genus *Abelmoschus* has six species distributed in the South and South East Asia and in North Australia. *Abelmoschus moschatus* Medic., *A. manihot* (L.) Medic., and *A. esculentus* (L.) Moench, contain wild and cultivated forms, and *A. ficulneus*, *A. crinitus*, and *A. angulosus*, are only wild. *Abelmoschus manihot*, *A. moschatus* and *A. esculentus* are compared in Table 1. In Hindi, it is popularly known as *mushkdana*, *kasturi bhendi* (kasturi = musk; *bhendi* = lady's finger). In other Indian languages it is known as *gukhia korai* (Assamese), *kasturi bhenda* (Telgu), *kattukasturi* (Malayalam), *varttilai kasturi* (Tamil), *lalkasturika* (Sanskrit) (Krishnamurty 1993). The area under ambrette is presently low in India but is increasing rapidly (Oudhia and Tripathi 2000) with seed exports to France, Germany, Japan, Singapore, Spain for its use as an aromatic oil. Indian drug manufacturers are introducing new herbal drugs containing ambrette for medicinal use.

Table 1. Comparison of *A. esculentus*, *A. manihot* and *A. moschatus*.

Particulars	<i>A. esculentus</i> (n=65)	<i>A. manihot</i> (n=60)	<i>A. moschatus</i> (n=36)
English name	Okra, Gumbo	Manihot-mallow	Musk-mallow
Place of origin	Old world tropics	East Asia	India
Life cycle	Annual	Annual or perennial	Annual or biennial

Leaves	Large often 12 inch or more across; cordate-ovate.	Leaves large ovate to nearly orbicular in outline 6-12 inch or more. Manihot probably suggests the resemblance of leaves to those of cassava or manihot	With variously 3-9 lobed or divided. Margins coarsely toothed
Floral characteristics	Calyx large and spathe-like; bracts of involucre linear; pod 4-5 inch or more long.	Calyx large and spathe-like; bracts ovate to oblong.	Calyx large and spathe-like; Bracts of involucre linear; pod 3 inch or less long.
Flower colour	Yellow with a reddish center	Yellow or whitish with a dark brown center.	Yellow with a crimson center.

Botany

Erect hispid herbs or undershrubs, 0.5-2.5 meters high, with a long slender tap root. Leave extremely variable, lower suborbicular in outline, cordate, lower or palmately 3-7 lobed, upper narrower, hastate or sagittate at the base with linear-oblong or triangular lobes. Flowers regular, bisexual, involucre bracts 8-12, hairy yellow with purple centre. Fruits capsule fulvous hairy, oblong lanceolate, acute. Seeds subreniform and blackish (Verma et al. 1993; Agharkar 1991; Lindley 1985).

Uses

Ambrette oil obtained from seeds possess an odor similar to that of musk and its aromatic constituents have long been used in perfumery industry. Different grades of essential, or aromatic absolute, are marketed in Europe as high-grade perfumes (Singh et al. 1996) The seeds are valued for the volatile oil present in the seed coat. Seed analysis report 11.1% moisture, 31.5% crude fiber; 14.5% lipids, 13.4% starch, 2.3% protein, volatile oil (0.2-0.6%) and ca/ 5% resin (Srivastava 1995).

Analysis of volatiles report myricetin-3-glucoside and a glycoside of cyanidin in flowers, an aromatic constituent in seeds, beta-sitosterol and its beta-D-glucoside, myricetin and its glucoside in leaves and petals and beta-sitosterol from dry fruit husk (Rastogi and Mehrotra 1991a,b).

In India, roots, leaves (rarely), and seeds of ambrette are considered valuable traditional medicines. The bitter, sweet, acrid, aromatic seeds are used as a tonic and are considered "cooling, aphrodisiac, ophthalmic, cardiogenic, digestive, stomachic, constipating, carminative, pectoral, diuretic, stimulant, antispasmodic, deodorant, and effective against "kapha" and "vata," intestinal complaints, stomatitis; and diseases of the heart, allays thirst and checks vomiting. According to *Unani* system of medicine seeds allay thirst, cure stomatitis, dyspepsia, urinary discharge, gonorrhoea, leucoderma and itch. Roots and leaves are cures for gonorrhoea (Agharkar 1991). Even use against venomous reptiles has been reported (Lindley 1985).

Cultivation

Ambrette is cultivated as pre-kharif crop in India. It is usually sown in March–April but as late as the first week of July in Central India (Oudhia 2001a). Seed rates of 41g/kg are optimum (Oudhia 2000b). Application of dried Neem leaves (500Kg/ha) at last ploughing increased oil content and quality. April sown crop start flowering in September; fruits ripen from November to January and are harvested when fully mature. Applications of fertilizers improves growth of plant and seed yields (Krishnamurty 1993) but studies conducted by SOPAM indicate the use of chemical inputs resulted in negative impact on oil content and quality. Harvested capsules are sun dried and seeds dehisce when the capsules burst. The oil for perfumery is extracted by steam distillation of crushed seeds.

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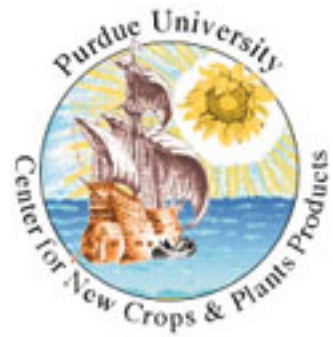
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Achillea millefolium L.

Compositae

Yarrow, milfoil

We have information from several sources:

[Herbs: An Indexed Bibliography. 1971-1980](#)—J.E. Simon, A.F. Chadwick and L.E. Craker.

[The Herb Hunters Guide](#)—Sievers, A.F. 1930.

Last updated: NaN/NaN/NaN by ch



***Acorus calamus* L.**

Araceae

Sweetflag, calamus, calamus root, flag root, myrtle flag

We have information from several sources:

[The Herb Hunters Guide](#)—Sievers, A.F. 1930.

[Food and feed crops of the United States](#)—Magness, J.R., G.M. Markle, C.C. Compton. 1971.

Last updated: NaN/NaN/NaN by ch

Horsechestnut

Aesculus hippocastanum L.

Other common names.—Hippocastanum, bongay, konker-tree

Habitat and range.—This tree is largely cultivated in this country as an ornamental shade tree and occasionally escapes from cultivation.

Description.—The horsechestnut is a rather large tree, usually reaching 40 feet or more in height. The large leaves are composed of five to seven leaflets from 4 to 8 inches long, pointed, and broader at the top than at the base. In June it produces handsome flower clusters sometimes a foot in length, consisting of large white flowers spotted with yellow and red. The fruit is round and prickly and contains a large shining brown nut.

Part used.—Horsechestnut bark is collected in autumn, and preference is given to the bark from the younger branches.



Figure 66.—Horsechestnut
(*Aesculus hippocastanum*)

Sievers, A.F. 1930. The Herb Hunters Guide. Misc. Publ. No. 77. USDA, Washington DC.

Last update March 19, 1998 by aw

New Antimicrobials of Plant Origin

Maurice M. Iwu, Angela R. Duncan, and Chris O. Okunji

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 4. *Cryptolepis sanguinolenta* Lindl. Schltr. (Periplocaceae)
 5. *Chasmanthera dependens* Hoschst (Menispermaceae)
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Infectious diseases account for approximately one-half of all deaths in tropical countries. In industrialized nations, despite the progress made in the understanding of microbiology and their control, incidents of epidemics due to drug resistant microorganisms and the emergence of hitherto unknown disease-causing microbes, pose enormous public health concerns. Historically, plants have provided a good source of antiinfective agents; emetine, quinine, and berberine remain highly effective instruments in the fight against microbial infections. Phytomedicines derived from plants have shown great promise

in the treatment of intractable infectious diseases including opportunistic AIDS infections. Plants containing protoberberines and related alkaloids, picralima-type indole alkaloids and garcinia biflavonones used in traditional African system of medicine, have been found to be active against a wide variety of micro-organisms. The profile of known drugs like *Hydrastis canadensis* (goldenseal), *Garcinia kola* (bitter kola), *Polygonum* sp., *Aframomum melegueta* (grains of paradise) will be used to illustrate the enormous potential of antiinfective agents from higher plants. Newer drugs such as *Xylopiya aethiopica*, *Araliopsis tabouensis*, *Cryptolepis sanguinolenta*, *Chasmanthera dependens* and *Nauclea* species will be reviewed.

INFECTIOUS DISEASE

World wide, infectious disease is the number one cause of death accounting for approximately one-half of all deaths in tropical countries. Perhaps it is not surprising to see these statistics in developing nations, but what may be remarkable is that infectious disease mortality rates are actually increasing in developed countries, such as the United States. Death from infectious disease, ranked 5th in 1981, has become the 3rd leading cause of death in 1992, an increase of 58% (Pinner et al. 1996). It is estimated that infectious disease is the underlying cause of death in 8% of the deaths occurring in the US (Pinner et al. 1996). This is alarming given that it was once believed that we would eliminate infectious disease by the end of the millenium. The increases are attributed to increases in respiratory tract infections and HIV/AIDS. Other contributing factors are an increase in antibiotic resistance in nosocomial and community acquired infections. Furthermore, the most dramatic increases are occurring in the 25–44 year old age group (Pinner et al. 1996).

These negative health trends call for a renewed interest in infectious disease in the medical and public health communities and renewed strategies on treatment and prevention. Proposed solutions are outlined by the CDC as a multi-pronged approach that includes: prevention, (such as vaccination); improved monitoring; and the development of new treatments. It is this last solution that would encompass the development of new antimicrobials (Fauci 1998).

Historic Use of Plants as Antimicrobials

Historically, plants have provided a source of inspiration for novel drug compounds, as plant derived medicines have made large contributions to human health and well-being. Their role is two fold in the development of new drugs: (1) they may become the base for the development of a medicine, a natural blueprint for the development of new drugs, or; (2) a phytomedicine to be used for the treatment of disease. There are numerous illustrations of plant derived drugs. Some selected examples, including those classified as antiinfective, are presented below.

The isoquinoline alkaloid emetine obtained from the underground part of *Cephaelis ipecacuanha*, and related species, has been used for many years as an amoebicidal drug as well as for the treatment of abscesses due to the spread of *Escherichia histolytica* infections. Another important drug of plant origin

with a long history of use, is quinine. This alkaloid occurs naturally in the bark of *Cinchona* tree. Apart from its continued usefulness in the treatment of malaria, it can be also used to relieve nocturnal leg cramps. Currently, the widely prescribed drugs are analogs of quinine such as chloroquine. Some strains of malarial parasites have become resistant to the quinines, therefore antimalarial drugs with novel mode of action are required.

Similarly, higher plants have made important contributions in the areas beyond antiinfectives, such as cancer therapies. Early examples include the antileukaemic alkaloids, vinblastine and vincristine, which were both obtained from the Madagascan periwinkle (*Catharanthus roseus* syn. *Vinca roseus*) (Nelson 1982). Other cancer therapeutic agents include taxol, homoharringtonine and several derivatives of camptothecin. For example, a well-known benzylisoquinoline alkaloid, papaverine, has been shown to have a potent inhibitory effect on the replication of several viruses including cytomegalovirus, measles and HIV (Turano et al. 1989). Most recently, three new atropisomeric naphthylisoquinoline alkaloid dimers, michellamines A, B, and C were isolated from a newly described species tropical liana *Ancistrocladus korupensis* from the rainforest of Cameroon. The three compounds showed potential anti-HIV with michellamine B being the most potent and abundant member of the series. These compounds were capable of complete inhibition of the cytopathic effects of HIV-1 and HIV-2 on human lymphoblastoid target cell in vitro (Boyd et al. 1994).

The Development of Phytomedicines and the Ethnomedicinal Approach

The first generation of plant drugs were usually simple botanicals employed in more or less their crude form. Several effective medicines used in their natural state such as cinchona, opium, belladonna and aloe were selected as therapeutics agents based on empirical evidence of their clinical application by traditional societies from different parts of the world. Following the industrial revolution, a second generation of plant based drugs emerged based on scientific processing of the plant extracts to isolate "their active constituents." The second-generation phytopharmaceutical agents were pure molecules and some of the compounds were even more pharmacologically active than their synthetic counterparts. Notable examples were quinine from *Cinchona*, reserpine from *Rauvolfia*, and more recently taxol from *Taxus* species. These compounds differed from the synthetic therapeutic agents only in their origin. They followed the same method of development and evaluation as other pharmaceutical agents.

The sequence for development of pharmaceuticals usually begins with the identification of active lead molecules, detailed biological assays, and formulation of dosage forms in that order, and followed by several phases of clinical studies designed to establish safety, efficacy and pharmacokinetic profile of the new drug. Possible interaction with food and other medications may be discerned from the clinical trials.

In the development of "Third Generation" phytotherapeutic agents a top-bottom approach is usually adopted. This consists of first conducting a clinical evaluation of the treatment modalities and therapy as administered by traditional doctors or as used by the community as folk medicine. This evaluation is then

followed by acute and chronic toxicity studies in animals. Studies should, when applicable, include cytotoxicity studies. It is only if the substance has an acceptable safety index would it be necessary to conduct detailed pharmacological/ biochemical studies.

Formulation and trial production of the dosage forms are structured to mimic the traditional use of the herb. The stability of the finished product is given careful attention during the formulation of the final dosage form. This is a unique blend of the empiricism of the earlier first *generation* botanicals with the experimental research used to prove the efficacy and safety of second *generation* isolated pure compounds. Several pharmaceuticals companies are engaged in the development of natural product drugs through the isolation of the so-called active molecules from plant extracts.

PRESENT USE OF PLANTS AS ANTIMICROBIALS

It is estimated that today, plant materials are present in, or have provided the models for 50% Western drugs (Robbers 1996). Many commercially proven drugs used in modern medicine were initially used in crude form in traditional or folk healing practices, or for other purposes that suggested potentially useful biological activity. The primary benefits of using plant derived medicines are that they are relatively safer than synthetic alternatives, offering profound therapeutic benefits and more affordable treatment.

Therapeutic Benefit

Much of the exploration and utilization of natural products as antimicrobials arise from microbial sources. It was the discovery of penicillin that led to later discoveries of antibiotics such as streptomycin, aureomycin and chloromycetin. (Trease 1972). Though most of the clinically used antibiotics are produced by soil micro-organisms or fungi, higher plants have also been a source of antibiotics (Trease 1972). Examples of these are the bacteriostatic and antifungicidal properties of *Lichens*, the antibiotic action of allinine in *Allium sativum* (garlic), or the antimicrobial action berberines in goldenseal (*Hydrastis canadensis*) (Trease 1972). Plant based antimicrobials represent a vast untapped source for medicines. Continued and further exploration of plant antimicrobials needs to occur. Plants based antimicrobials have enormous therapeutic potential. They are effective in the treatment of infectious diseases while simultaneously mitigating many of the side effects that are often associated with synthetic antimicrobials. They are effective, yet gentle. Many plants have tropisms to specific organs or systems in the body. Phytomedicines usually have multiple effects on the body. Their actions often act beyond the symptomatic treatment of disease. An example of this is *Hydrastis canadensis*. *Hydrastis* not only has antimicrobial activity, but also increases blood supply to the spleen promoting optimal activity of the spleen to release mediating compounds (Murray 1995).

Economic Benefit

World wide, there has been a renewed interest in natural products. This interest is a result of factors such as: consumer's belief that natural products are superior; consumer's dissatisfaction with conventional

medicines; changes in laws allowing structure-function claims which results in more liberal advertising; aging baby boomers; national concerns for health care cost.

Sales of products in this market have increased dramatically in the last decade. Sales of botanical products in the United States have reached \$3.1 billion of the \$10.4 billion dollar dietary supplement industry 1996 (NBJ June 1998). The industry anticipates growth on the order of 15–20% into the new millenium (Herbalgram 1996). This growth rate will be maintained in an industry that is still considered to be in its infancy. Many plants that were previously wildcrafted will need to be grown domestically to meet the demands of the consumer. This represents many opportunities for the cultivation of crops for this industry.

A market based illustration of the need for plant based antimicrobials is demonstrated by the dissection of the herbal products market. In reviewing the top botanicals used as antiinfectives, the primary botanical used as an antimicrobial is *Hydrastis* with sales of 4.7% in 1995 (Gruenwald 1997). While antiinfectives agents make up 24 % of the pharmaceutical market (1992 Census of Manufactures 1994).

A similar, analysis of *Hypericum* (St. John's wort), demonstrates the value of such an evaluation. Though *Hypericum* is an antiviral, it is primarily used for its antidepressant activity. In 1995 it was not among the top selling herbs (Gruenwald 1997). However, by 1997, it had become an overnight success, with sales increasing over 20,000% in the mass market sector (Aarts 1998). The meteoric increase in the sales of *Hypericum* is multifactorial, but one factor in its popularity was the existence of an unexploited market opportunity. In 1994 21% of pharmaceuticals sold were for the conditions affecting the central nervous system (1992 Census of Manufactures). Most of the drugs sold in this category are for depression. During this period of time, none of the top selling herbs sold had a primary indication for depression. This market hole, coupled with the media exposure produced a market success.

Many market holes exist. When using the same strategy to look at antimicrobial agents there is a similar gap. If the market dissection for antiinfectives is viewed in the same light as the *Hypericum analogy*, then perhaps this market is prime for receiving new plant based antimicrobials.

The potential for developing antimicrobials into medicines appears rewarding, from both the perspective of drug development and the perspective of phytomedicines. The immediate source of financial benefit from plants based antimicrobials is from the herbal products market. This market offers many opportunities for those cultivating new crops, as many of the plants that are wildcrafted today must be cultivated to match the demands of this market. Again *Hydrastis*, one of the top selling antimicrobials in the US herbal market, represents an example of a herb that has undergone domestication. Originally this plant, native to eastern North America, was wild crafted. *Hydrastis*, has been used by Native Americans for many conditions, including as an antimicrobial for infections. Efforts to cultivate this plant were undertaken in order to supply the demands of the herbal products market and to battle it's threatened extinction.

It is vital to be in the position to capitalize on the phytomedicine market, providing environmentally

responsible solutions to public health concerns presented by new trends in infectious disease. In order to be prepared, the industry must be able to sustainably harvest and supply the herbal market. That means we must be able to anticipate the market needs and develop products to satisfy this market.

PLANTS WITH PROMISING ANTIINFECTIVE ACTIVITY

In our organizations, our major emphasis has been on drug discovery from ethnomedicinal information using the "Third Generation Approach." This method differs in that the clinical evaluation in humans takes place before the precise active constituents are known but the chemical composition and safety of the extracts are determined before formulation into dosage forms.

Plants containing protoberberines and related biflavones used in traditional African system of medicine have been found to be active against a wide variety of micro-organisms. Many medicinal plants of Africa have been investigated for their chemical components and some of the isolated compounds have been shown to possess interesting biological activity. Some of these plants are discussed below.

***Garcinia kola*, bitter kola (Guttiferae)**

Garcinia kola, is found in moist forest and grows as a medium size tree, up to 12 m high. It is cultivated and distributed throughout west and central Africa. Medicinal uses include, purgative, antiparasitic, antimicrobial. The seeds are used in the treatment of bronchitis and throat infections. They are also used to prevent and relieve colic, cure head or chest colds and relieve cough. Also the plant is used for the treatment of liver disorders and as a chewing stick (Iwu 1993).

The constituents include—biflavonoids, xanthenes and benzophenones. The antimicrobial properties of this plant are attributed to the benzophenone, flavanones. This plant has shown both anti-inflammatory, antimicrobial and antiviral properties. Studies show very good antimicrobial and antiviral properties. In addition, the plant possesses antidiabetic, and antihepatotoxic activities (Iwu 1993).

***Aframomum melegueta* (Zingiberaceae) Grains of Paradise**

This is a spicy edible fruit that is cultivated and occurs throughout the tropics. It is a perennial herb. The medicinal uses of *Aframomum* include aphrodisiac, measles, and leprosy, taken for excessive lactation and post partem hemorrhage, purgative, galactagogue and anthelmintic, and hemostatic agent (Iwu 1993). The constituents are essential oils—such as gingerol, shagaol, paradol. Studies show antimicrobial and antifungal activity and effective against schistosomes (Iwu1993).

***Xylopiya aethiopica*, Ethiopian Pepper (Abibacceae)**

An evergreen, aromatic tree growing up to 20 m high with peppery fruit. It is native to the lowland rainforest and moist fringe forest in the savanna zones of in Africa. Largely located in West, Central and Southern Africa. Medicinal uses of the plant are, as a carminative, as a cough remedy, and as a post partum tonic and lactation aid. Other uses are stomachache, bronchitis, biliousness and dysentery. It is also used externally as a poultice for headache and neuralgia. It is used with lemon grass for female hygiene. It is high in copper, manganese, and zinc (Smith 1996).

Key constituents are diterpenic and xylopic acid. In studies, the fruit as an extracts has been shown to be active as an antimicrobial against gram positive and negative bacteria. Though it has not been shown to be effective against *E. coli* (Iwu 1993). Xylopic acid has also demonstrated activity against *Candida albicans* (Boakye-Yiadom 1977).

***Cryptolepis sanguinolenta* Lindl. Schltr. (Periplocaceae)**

A shrub that grows in the rainforest and the deciduous belt forest, found in the west coast of Africa. Related species appear in the east and southern regions of the continent. Its main medicinal use is for the treatment of fevers. It is used for urinary tract infections, especially *Candida*. Other uses are inflammatory conditions, malaria, hypertension, microbial infections and inflammatory conditions, stomach aches colic (Iwu 1993).

Active principals identified are indo quinoline alkaloids. Studies show inhibition against gram negative bacteria and yeast (Silva 1996). Additionally studies have shown this plant to have bactericidal activity. Clinical studies have shown extracts of the plant were effective in parasitemia. Recent in vitro study shows activity against bacteria specifically, enteric pathogens, most notably *E. coli* (but also staphylococcus, *C. coli*, *C. jejuni*, pseudomonous, salmonella, shigella, streptococcus, and vibrio) and some activity against *candida* (Sawer 1995). It has shown histamine antagonism, hypotensive, and vasodilatory activities (Iwu 1993). In addition it has demonstrative antihyperglycemic properties (Brierer 1998).

***Chasmanthera dependens* Hoschst (Menispermaceae)**

A woody climber that grows wild in forest margins and savanna. The plant is cultivated. It is used medicinally for venereal disease, topically on sprained joints and bruises and as a general tonic for physical and nervous debilities. The constituents include berberine type alkaloids, palmatine, colombamine, and jateorhizine. Studies show that the berberine sulfate in the plant inhibits lieshmania.

***Nauclea latifolia* Smith (Rubiaceae)**

It is a shrub or small spreading tree that is a widely distributed savanna plant. It is found in the forest and fringe tropical forest. Medicinal uses are as a tonic and fever medicine, chewing stick, toothaches, dental caries, septic mouth and malaria., diarrhea and dysentery (Lamidi 1995).

Key constituents are indole-quinolizidine alkaloids and glycoalkaloids and saponins. There are studies showing the root has antibacterial activity against gram positive and negative bacteria and antifungal activity (Iwu 1993). It is most effective against *Corynebacterium diphtheriae*, *Streptobacillus* sp., *Streptococcus* sp., *Neisseria* sp., *Pseudomonas aeruginosa*, *Salmonella* sp. (Deeni 1991).

***Araliopsis tabouensis* (Rutaceae)**

It is a large evergreen tree found throughout west tropical Africa. Its medicinal use is for the treatment of sexually transmitted diseases. The bark infusion is drunk for gonorrhea in the Ivory Coast (Irvine 1961). Its major constituents are alkaloids. Seven alkaloids have been isolated from the root and stem bark (Fish 1976).

CONCLUSION

Thomas Jefferson wrote that "The greatest service which can be rendered any country is to add a useful plant to it's culture." Plants have forever been a catalyst for our healing. In order to halt the trend of increased emerging and resistant infectious disease, it will require a multi-pronged approach that includes the development of new drugs. Using plants as the inspiration for new drugs provides an infusion of novel compounds or substances for healing disease. Evaluating plants from the traditional African system of medicine, provides us with clues as to how these plants can be used in the treatment of disease. Many of the plants presented here show very promising activity in the area of antimicrobial agents, warranting further investigation.

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Ageratum conyzoides: A Tropical Source of Medicinal and Agricultural Products

Lin Chau Ming

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Ageratum conyzoides L., Asteraceae, is an annual herbaceous plant with a long history of traditional medicinal uses in several countries of the world and also has bioactivity with insecticidal and nematocidal activity. This tropical species appears to be a valuable agricultural resource.

BOTANY

Ageratum is derived from the Greek "*a geras*," meaning non-aging, referring to the longevity of the flowers or the whole plant. The specific epithet "*conyzoides*" is derived from "*kónyz*," the Greek name of *Inula helenium*, which it resembles (Kissmann and Groth 1993).

The synonyms of *A. conyzoides* include *A. album* Stend; *A. caeruleum* Hort. ex. Poir.; *A. coeruleum* Desf.; *A. cordifolium* Roxb.; *A. hirsutum* Lam.; *A. humile* Salisb.; *A. latifolium* Car.; *A. maritimum* H.B.K.; *A. mexicanum* Sims.; *A. obtusifolium* Lam.; *A. odoratum* Vilm. and *Cacalia mentrasto* Vell.

(Jaccoud 1961). In Brazil, *A. conyzoides* has the following vernacular names: *catanga de bode*, *catanga de barrão*, *erva de são joão*, *maria preta*, *mentrasto*, *erva de são josé*, *picão roxo*, *erva de santa-lúcia*, *camará-opela*, *agerato*, *camará apeba*, *camará iapó*, *camará japê*, *erva de santa maria*, *macela de são joão*, *macela francesa*, *matruço* (Jaccoud 1961; Oliveira et al. 1993).

Ageratum ranges from Southeastern North America to Central America, but the center of origin is in Central America and the Caribbean. Most taxa are found in Mexico, Central America, the Caribbean, and Florida. *Ageratum conyzoides* now is found in several countries in tropical and sub-tropical regions, including Brazil (Baker 1965; Lorenzi 1982; Correa 1984; Cruz 1985).

Johnson (1971), classifies two subspecies, *latifolium* and *conyzoides*. Subspecies *latifolium* is found in all the Americas and subsp. *conyzoides* has a pantropical distribution. The basic chromosome number is $2n = 20$ but natural tetraploids are found. *A. conyzoides* subsp. *latifolium* is diploid and *A. conyzoides* subsp. *conyzoides* is tetraploid.

Ageratum conyzoides is an erect, herbaceous annual, 30 to 80 cm tall; stems are covered with fine white hairs, leaves are opposite, pubescent with long petioles and include glandular trichomes. The inflorescence contain 30 to 50 pink flowers arranged as a corymb and are self-incompatible (Jhansi and Ramanujam 1987; Kaul and Neelangini 1989; Ramanujam and Kalpana 1992; Kleinschmidt 1993). The fruit is an achene with an aristate pappus and is easily dispersed by wind. In some countries the species is considered a weed, and control is often difficult (Lorenzi 1982; Scheffer 1990; Kalia and Singh 1993; Lam et al. 1993, Paradkar et al. 1993; Waterhouse 1993; Kshatriya et al. 1994). Seeds are positively photoblastic, and viability is often lost within 12 months (Marlks and Nwachuku 1986; Ladeira et al. 1987). The optimum germination temperature ranges from 20 to 25°C (Sauerborn and Koch 1988). The species has great morphological variation, and appears highly adaptable to different ecological conditions.

PHYTOCHEMICAL CHARACTERISTICS

There is high variability in the secondary metabolites of *A. conzyoide* which include flavonoids, alkaloids, cumarins, essential oils, and tannins. Many of these are biologically active. Essential oil yield varies from 0.02% to 0.16% (Jaccoud 1961). Vyas and Mulchandani (1984) identified conyzorigum, a cromene. Borthakur and Baruah (1986) identified precocene I and precocene II, in a plant collected in India. These compounds have been shown to affect insect development, as antijuvenile hormones, resulting in sterile adults (Borthakur and Baruah 1987). Ekundayo et al. (1988) identified 51 terpenoid compounds, including precocene I and precocene II. Gonzales et al. (1991) found 11 cromenes in essential oils, including a new cromene, 6-angeloyloxy-7-methoxy-2,2-dimethylcromen. Vera (1993), in Reunion, found ageratocromene, other cromenes, and beta cariophyllene in its essential oil. Mensah et al. (1993) and Menut et al. (1993) reported similar yields of precocene I in the essential oil of plants collected in Ghana.

Vyas and Mulchandani (1986), in India, identified flavones, including some considered new such as

ageconyfavones A, B, and C. Horrie et al. (1993) reported hexametoxyflavone. Ladeira et al. (1987) in Brazil, reported three coumarinic compounds, including 1-2 benzopirone. The species contains alkaloids, mainly the pyrrolizidinic group, which suggest that it may be a good candidate for pharmacological studies. Trigo et al. (1988) found several alkaloids, including 1,2- desifropirrolizidinic and licopsamine which can have hepatotoxic activity. Alkaloids also were found by Weindenfeld and Roder (1991) in a hexane extract of *A. conyzoides* in Africa.

FOLK MEDICINAL USES AND PHARMACOLOGICAL STUDIES

A. conyzoides is widely utilized in traditional medicine by various cultures worldwide, although applications vary by region. In Central Africa it is used to treat pneumonia, but the most common use is to cure wounds and burns (Durodola 1977). Traditional communities in India use this species as a bacteriocide, antidysenteric, and antilithic (Borthakur and Baruah 1987), and in Asia, South America, and Africa, aqueous extract of this plant is used as a bacteriocide (Almagboul 1985; Ekundayo et al. 1988). In Cameroon and Congo, traditional use is to treat fever, rheumatism, headache, and colic (Menut et al. 1993; Bioka et al. 1993). In Reunion, the whole plant is used as an antidysenteric (Vera 1993). The use of this species in traditional medicine is extensive in Brazil. Aqueous extracts of leaves or whole plants have been used to treat colic, colds and fevers, diarrhea, rheumatism, spasms, or as a tonic (Penna 1921; Jaccoud 1961; Correa 1984; Cruz 1985; Marques et al. 1988; Negrelle et al. 1988; Oliveira et al. 1993). *A. conyzoides* has quick and effective action in burn wounds and is recommended by Brazilian Drugs Central as an antirheumatic (Brasil 1989).

Several pharmacological investigations have been conducted to determine efficacy. Duradola (1977) verified inhibitory activities of ether and chloroform extracts against in vitro development of *Staphylococcus aureus*. Almagboul et al. (1985), using methanolic extract of the whole plant, verified inhibitory action in the development of *Staphylococcus aureus*, *Bacillus subtilis*, *Escherichia coli*, and *Pseudomonas aeruginosa*. Bioka et al. (1993) reported effective analgesic action in rats using aqueous extract of *A. conyzoides* leaves (100 to 400 mg/kg). Assays realized in Kenia, with aqueous extract of the whole plant, demonstrated muscle relaxing activities, confirming its popular use as an antispasmodic (Achola et al. 1994).

In Brazil, assays conducted by State University of Campinas and Paraiba Federal University) showed promising results. Marques Neto et al. (1988) in clinic trials with patients with arthrosis, administered aqueous extract of the whole plant, and reported analgesic effect in 66% of patients and improvement in articulation mobility in 24%, without side effect. Mattos (1988), using aqueous extract of the whole plant, verified effective clinical control of arthrosis, reporting a decrease in pain and inflammation or improvement in articulation mobility, after a week of treatment.

BIOACTIVITY

Ageratum conyzoides has bioactive activity that may have agricultural use, as shown by several research investigations in different countries. Pereira in 1929, cited by Jaccoud (1961), reported use of the leaves as an insect (moth) repellent. The insecticide activity may be the most important biological activity of this species. The terpenic compounds, mainly precocenes, with their antijuvenile hormonal activity are probably responsible for the insecticide effects.

Assays conducted in Colombia by Gonzalez et al. (1991) showed activity of this species against *Musca domestica* larvae, using whole plant hexane extract. Vyas and Mulchandani (1980) reported the action of cromenes (precocenes I and II), isolated from *Ageratum* plants, which accelerate larval metamorphosis, resulted in juvenile forms or weak and small adults.

Ekundayo et al. (1987) also demonstrated the juvenilizing hormonal action of precocene I and II in insects, the most common effect being precocious metamorphosis, producing sterile or dying adults. Raja et al (1987), using *A. conyzoides* methanolic extract from fresh leaves (250 and 500 ppm) in the fourth instar of *Chilo partellus* (Lepidoptera, Pyralidae), a sorghum pest, observed the presence of a dark stain in the insects' cuticle and immature pupae formation, both symptoms of deficiency of juvenile hormone.

A. conyzoides also induces morphogenetic abnormalities in the formation of mosquitoes larvae (*Culex quinquefasciatus*, *Aedes aegypti*, and *Anopheles stephensi*). This has been verified using petroleum ether extracts (5 and 10 mg/L) of the whole plants. The larvae showed intermediary stages between larvae–pupae, discolored and longer pupae, as well as incompletely developed adults (Sujatha et al. 1988). Extracts of the flowers of this species showed activity against mosquitoes (*Anopheles stephensi*), in the last instar, showing DL 50 with 138 ppm (Kamal and Mehra 1991).

Cetonic extracts of the species produced significant effects against the mosquito, *Culex quinquefasciatus*, in India, when applied to fourth instar larvae and adult females. In larvae, the extracts produced altered individuals, intermediate between larvae and pupae, unmelanized and with inhibition of development, as well as adults with deformed wings muscles. In female adults, there was loss of fecundity, lower eggs production, and production of defective eggs (Saxena et al. 1992). Similar results were observed in larvae of *Anopheles stephensi* and *Culex quinquefasciatus* in others essays, confirming the antijuvenile potential of *A. conyzoides* (Saxena and Saxena 1992; Saxena et al. 1994).

The species also has potential use in controlling other pests. Shabana et al. (1990), using aqueous extract of the whole plant, verified reduction of larvae emergence of *Meloidogyne incognita*. Pu et al. (1990) and Liang et al. (1994), verified that plants of *A. conyzoides* in *Citrus* orchards sheltered predators of the spider *Panonychus citri*, suggesting that its development in orchards is beneficial. Other *Citrus* spiders populations, *Phyllocoptruta oleivora* and *Brevipalpus phoenicis* were decreased with maintenance of *A. conyzoides* in the orchards and a reduction of leprosy virus was noted (Gravena et al. 1993)

The presence of *A. conyzoides* can also be used as an seed inhibitor, decreasing development of several herbaceous plants. Jha and Dhakal (1990) in Nepal, reported that an aqueous extract of the aerial part or roots of this species (15 g of aerial part or 3 g of roots in 100 ml of water, during 24 h) inhibited

germination of wheat and rice seeds while Prasad and Srivastava (1991) in India, reported a lower germination index in peanut seeds with aqueous extract.

CULTURAL STUDIES

Magalhaes et al. (1989) in Brazil evaluated fertilizer studies and plant density on biomass production of *A. conyzoides*. The higher the N level, the higher the biomass production (dry weight basis). Optimum spacing was 70 cm between rows and 50 cm between plants. Biomass yields was 1.3 t (dry weight)/ha.

Correa Jr. et al. (1991) obtained biomass yields of 3.3 to 5.3 t (fresh wt)/ha. Essential oil content was 0.02% (fresh wt) and 0.16 % (dry wt) in the preflowering state. Preliminary data of Ming (1998) indicated that essential oils, higher in leaves than in flowers, peaked during early-flowering.

FUTURE POTENTIAL

There are some small pharmaceutical companies in Brazil using *A. conyzoides* as a raw material for phytochemicals. The demand is increasing year by year and this situation warrants further scientific research to develop both agricultural and medical uses. Research on medicinal plants should be focused primarily on species whose pharmaceutical activities have already been demonstrated. Positive preliminary clinical assays of *A. conyzoides* clearly demonstrate that this species may be an important economic resource in several tropical countries. The use of this species as a natural biocide or agent for pest management particularly requires further investigation.

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Agropyron repens (L.) Beauv.

Gramineae, Poaceae

Quack grass

We have information from several sources:

[The Herb Hunters Guide](#)—Sievers, A.F. 1930.

[Food and feed crops of the United States](#)—Magness, J.R., G.M. Markle, C.C. Compton. 1971.

Last update Wednesday, July 08, 1998 by aw

Aletris

Aletris farinosa L.

Other common names.—Stargrass, blazing star, mealy starwort, starwort unicorn root, true unicorn root, unicornplant, unicorn's-horn, colicroot, devil's-bit, ague grass, ague root, aloeroot, crow corn, huskwort. Some of the common names are also used in connection with Helonias (*Chamaelirium luteum* (L.) A. Gray), which causes much confusion, although the two plants do not bear any close resemblance. It is best, therefore, to designate it as Aletris, under which name it is best known in the drug trade.

Habitat and range.—Aletris occurs in dry, generally sandy soil, from Maine to Minnesota, Florida, and Tennessee.

Description.—This plant is an erect slender herb 1 1/2, to 3 foot tall with leaves only at the base. These are grasslike, of a yellowish green color, and from 2 to 6 inches long. They surround the base of the stem in the form of a star, in this respect differing distinctly from starwort (*Chamaelirium luteum*), with which it is sometimes confused, as stated. The erect, flowering spike produced from May to July bears white urn-shaped flowers sometimes tinged with yellow.

Other species.—Three other species of Aletris, namely, *Aletris aurea* Walt., *A. lutea* Small. and *A. obovata* Nash, bear much resemblance to *A. farinosa* and are for this reason no doubt frequently collected with the latter.

Part used.—The rootstock, which should be collected in autumn.



Figure 1.—Aletris (*Aletris farinosa*)

Sievers, A.F. 1930. The Herb Hunters Guide. Misc. Publ. No. 77. USDA, Washington DC.

Last update Monday, March 12, 1998 by aw



Allium cepa L.

Amaryllidaceae

Bermuda onion, California Italian Red onion, Common onion, Green onion, Italian red onion, Maui onion, Onion, Pearl onion, Purple onion, Red onion, Salad onion, Scallion, Spanish onion, Spring onion, Sweet onion, Vidalia onion, Walla Walla onion, White onion, Wild onion, Yellow onion

We have information from several sources:

[Simon, J.E., A.F. Chadwick and L.E. Craker. 1984. Herbs: An Indexed Bibliography. 1971–1980.](#)

[Midwest Vegetable Production Guide for Commercial Growers 1998](#)

[Onions and its Relatives](#) production links

[Alternative Crops Research in Virginia](#)—Harbans L. Bhardwaj, Andy Hankins, Tadesse Mebrahtu, Jimmy Mullins, Muddappa Rangappa, Ozzie Abaye, and Gregory E. Welbaum

[Advances in New Alliums](#)—Michael J. Havey

[Onions and Their Relatives](#)—HO-67 Purdue University Cooperative Extension Service

Magness, J.R., G.M. Markle, C.C. Compton. 1971. Food and feed crops of the United States.

[Onion](#)—*Allium cepa* L. (Common onion group)

[Onion \[cv. Beltsville Bunching\]](#)—*Allium cepa* L. x *Allium fistulosum* L., 4N

[Potato Onion](#)—*Allium cepa* L. (Aggregatum group)

[Shallot](#)—*Allium cepa* L. (Aggregatum group)

Outside Links



Allspice

Pimento, Jamaica pepper, Pimienta

Myrtaceae *Pimenta dioica* (L.) Merr.

Source: [Magness et al. 1971](#)

Allspice is the dried, unripe berries of a large evergreen tree, native to the Caribbean area. The leaves are large and leathery, about 8 inches long by 2 inches wide. The fruits are about 0.33 inch diameter, near globose, produced in clusters of a dozen or more at or near the terminals of branches. The fruit is harvested while immature, as it is then most strongly flavored. It is a drupe, with 1 or 2 seeds. The whole dried fruit is ground to produce the allspice powder of commerce. Both pulp and seeds are aromatic, and contain an oil with qualities similar to clove oil.

Last updated: NaN/NaN/NaN by ch

Hazel Alder

Alnus rugosa (DuRoi) Spreng.

Synonym.—*Alnus serrulata* Willd.

Other common names.—Tag alder, common alder, red alder, smooth alder, green alder, American alder, speckled alder, swamp-alder, notch-leaved alder.

Habitat and range.—Hazel alder is found in swamps and along the marshy banks of streams from New England south to Florida and Texas and westward to Ohio and Minnesota.

Description.—The hazel alder, although it sometimes attains the height of a tree, is more frequently a shrub from 5 to 20 feet high with smooth, brownish-gray bark. It has somewhat leathery, oval leaves from 2 to 4 1/2 inches long. The flowers, which appear early in the spring before the leaves develop, are reddish green. The male flowers are borne in drooping and the female in erect catkins. The conelike fruit usually remains on the shrub throughout the winter. The bark has a strong, rather aromatic odor and a bitter astringent taste.

Part used.—The bark.



Figure 60.—Hazel alder (*Alnus rugosa*)

Sievers, A.F. 1930. The Herb Hunters Guide. Misc. Publ. No. 77. USDA, Washington DC.

Last update March 19, 1998 by aw

Sambucus canadensis L.



Caprifoliaceae

American Elder, American elderberry, Blueberry elder, Blue elderberry, Eastern elderberry, Red elderberry, Western elderberry

We have information from several sources:

[Temperate Berry Crops](#)—Chad Finn

[Sievers, A.F. 1930. The Herb Hunters Guide. Misc. Publ. No. 77. USDA, Washington DC.](#)

[Magness, J.R., G.M. Markle, C.C. Compton. 1971. Food and feed crops of the United States.](#)

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American Mountain-Ash

Sorbus americana Marsh.

Synonym.—*Pyrus americana* DC.

Other common names.—Roundwood, round-tree, American rowan tree, American servicetree, mountain sumac, dogberry, quickbeam, wild ash, winetree, witchwood, life-of-man, Indian mozemize, missey-moosey, moose-misse.

Habitat and range.—The American mountain-ash occurs in swamps, low woods, or moist ground from Newfoundland south along the mountains to North Carolina and to Michigan. It is most abundant in the northern portion of its range.

Description.—This smooth-barked tree reaches a height of 30 feet with a trunk 18 inches in diameter. The leaves resemble those of the sumac, consisting of from 11 to 17 lance-shaped, pointed leaflets about 1 1/4 to 4 inches long. When young they are slightly hairy, both sides soon becoming smooth. The white flowers are borne from May to June in dense clusters measuring from 3 to 6 inches across. The flowers are followed later in the season by large, dense, showy clusters of bright-red berries about the size of peas, which give the tree a brilliant appearance.

Part used.—The bark with the outer layer removed.



Figure 7.—American mountain-ash (*Sorbus americana*)

Sievers, A.F. 1930. The Herb Hunters Guide. Misc. Publ. No. 77. USDA, Washington DC.

Last update Wednesday, March 11, 1998 by aw



Hedeoma pulegioides L.

Lamiaceae (Labiatae)

American Pennyroyal

We have information from several sources:

[Simon, J.E., A.F. Chadwick and L.E. Craker. 1984. Herbs: An Indexed Bibliography. 1971-1980.](#)

[Sievers, A.F. 1930. The Herb Hunters Guide.](#)

Last update Wednesday, July 08, 1998 by aw



Cardamom

Zingiberaceae *Elettaria cardamomum* (L.) Maton.

Amomum cardamomum L.

Source: [Magness et al. 1971](#)

Both the above related species of tropical plants produce the cardamom seeds of commerce. Both are tropical, perennial herbs, the tops growing each year from underground rhizomes. *E. cardamomum* reaches 5 to 10 feet, with lanceolate leaves up to 2 feet long. The capsules are oblong to globular, ribbed and indehiscent. These dried capsules are the principal cardamoms of commerce. The seeds and plant of *A. cardamomum* are very similar to "grains of paradise" These seeds are also sold as cardamom.

Last updated: NaN/NaN/NaN by ch

***Ancistrocladus korupensis* D. Thomas & Gereau**



We have information from several sources:

[Ancistrocladus: Potential Anti-AIDS Source](#)

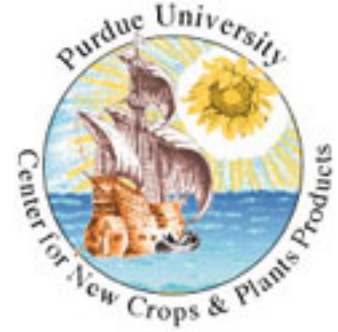
[Drug Discovery and Development at the National Cancer Institute: Potential for New Pharmaceutical Crops](#)—Gordon M. Cragg, James E. Simon, Johnson G. Jato, and Kenneth M. Snader

last update October 21, 1997 by aw

Anethum graveolens L.

Apiaceae (Umbelliferae)

Dill



We have information from several sources:

[Simon, J.E., A.F. Chadwick and L.E. Craker. 1984. Herbs: An Indexed Bibliography. 1971–1980.](#)

[Alternative Crops Research in Virginia](#)—Harbans L. Bhardwaj, Andy Hankins, Tadesse Mebrahtu, Jimmy Mullins, Muddappa Rangappa, Ozzie Abaye, and Gregory E. Welbaum

[Lowman, M.S. and M. Birdseye. 1946. Savory Herbs: Culture and Use. Farmer's Bulletin No. 1977. USDA, Washington, DC.](#)

[Magness, J.R., G.M. Markle, C.C. Compton. 1971. Food and feed crops of the United States.](#)

Last update Monday, March 2, 1998 by aw



***Angelica archangelica* L.**

Apiaceae (Umbelliferae)

Angelica

We have information from several sources:

[Simon, J.E., A.F. Chadwick and L.E. Craker. 1984. Herbs: An Indexed Bibliography. 1971–1980.](#)

[Magness, J.R., G.M. Markle, C.C. Compton. 1971. Food and feed crops of the United States.](#)

Last update Tuesday, December 30, 1997

Purplestem Angelica

Angelica atropurpurea L.

Synonym.—*Archangelica atropurpurea* Hoffm.

Other common names.—American angelica, great angelica, high angelica, purple angelica, masterwort.

Habitat and range.—Purplestem angelica is a native herb, common in swamps and damp places from Newfoundland to Delaware and west to Minnesota.

Description.—This strong-scented, tall, stout perennial reaches a height of from 4 to 6 feet. It has a smooth, dark purple, hollow stem 1 to 2 inches in diameter. The leaves are divided into three parts, each of which is again divided, with many broad leaflets. The lower leaves are sometimes 2 feet in width, but the upper ones are smaller, and all have very broad stalks. From June to July the greenish-white flowers are produced in somewhat roundish heads, which sometimes are 8 to 10 inches in diameter. The root is branched, from 3 to 6 inches long, and less than an inch in diameter. It has an aromatic odor, and the taste at first is sweetish and spicy, afterwards bitter. The fresh root is said to be poisonous.

Part used.—The root, dug in autumn. It must be carefully dried and preserved, because it is very subject to the attacks of insects.



Figure 89.—Purplestem angelica (*Angelica atropurpurea*)

Sievers, A.F. 1930. The Herb Hunters Guide. Misc. Publ. No. 77. USDA, Washington DC.

Last update Friday, April 3, 1998 by aw



***Pimpinella anisum* L.**

Apiaceae (Umbelliferae)

Anise, Aniseed, *jintan*, sweet cumin

We have information from several sources:

[Simon, J.E., A.F. Chadwick and L.E. Craker. 1984. Herbs: An Indexed Bibliography. 1971–1980.](#)

[Lowman, M.S. and M. Birdseye. 1946. Savory Herbs: Culture and Use. Farmer's Bulletin No. 1977. USDA, Washington, DC.](#)

[Magness, J.R., G.M. Markle, C.C. Compton. 1971. Food and feed crops of the United States.](#)



***Bixa orellana* L.**

Bixaceae

Achiote, anato, annatto, arnato, bija, bijol, *bixa*, lipstick tree, roucou

We have information from several sources:

[New Crops from Brazil](#)—David Arkcoll

[Achiote](#) In: Magness, J.R., G.M. Markle, C.C. Compton. Food and Feed Crops of the United States. 1971.





***Anthriscus cerefolium* Hoffm.**

Apiaceae (Umbelliferae)

**Chervil, Garden Chervil, Leaf Chervil, Salad Chervil,
Sweet Cicely, Turnip Chervil, Turnip-rooted Chervil**

We have information from several sources:

[Simon, J.E., A.F. Chadwick and L.E. Craker. 1984. Herbs: An Indexed Bibliography. 1971–1980.](#)

[Lowman, M.S. and M. Birdseye. 1946. Savory Herbs: Culture and Use. Farmer's Bulletin No. 1977. USDA, Washington, DC.](#)

[Magness, J.R., G.M. Markle, C.C. Compton. 1971. Food and feed crops of the United States.](#)



Apium graveolens L.

Apiaceae (Umbelliferae)

Celery, Celeriac, *Céleri Rave*, Celery Heart, Hamburg Celery, Knob Celery, Pascal Celery, True Celery, Turnip-rooted Celery, Wild Celery

We have information from several sources:

[Simon, J.E., A.F. Chadwick and L.E. Craker. 1984. Herbs: An Indexed Bibliography. 1971–1980.](#)

[Lowman, M.S. and M. Birdseye. 1946. Savory Herbs: Culture and Use. Farmer's Bulletin No. 1977. USDA, Washington, DC.](#)

[Celery](#) production links

Magness, J.R., G.M. Markle, C.C. Compton. 1971. Food and feed crops of the United States.

[Celery](#)

[Celery seed](#)

[Celeriac](#)

Hemp Dogbane

Apocynum cannabinum L.

Other common names.—Black hemp, black Indian hemp, Canadian hemp, American hemp, amy-root, bowmans root, bitterroot, Indian-physis, rheumatism weed, milkweed, wild cotton, Choctaw-root.

Habitat and range.—Hemp dogbane is a native of this country and may be found in thickets and along the borders of odd fields throughout the United States.

Description.—Hemp dogbane is from 2 to 4 feet high, with erect branches and sharp-pointed, short-stalked leaves from 2 to 6 inches long. The small greenish white flowers which appear from June to August are borne in dense heads followed later by the slender, pointed pods which are about 4 inches in length. The plant contains a milky juice.

Other species.—The roots of a closely related species, *Apocynum androsaemifolium* L., are also collected. The branches of this plant are diverging and forked and the flower heads loose and spreading. It also contains a milky juice. There are several well-recognized forms which formerly were recognized as varieties of *A. cannabinum* and *A. androsaemifolium*, but which are now considered distinct species. The roots of all these species possess somewhat similar properties, but they are not all acceptable to the trade.

Part used.—The root, collected in autumn.



Figure 62.—Hemp dogbane (*Apocynum cannabinum*)

Sievers, A.F. 1930. The Herb Hunters Guide. Misc. Publ. No. 77. USDA, Washington DC.

Last update March 19, 1998 by aw

Wild-Sarsaparilla

Aralia nudicaulis L.

Other common names.—False sarsaparilla, Virginian sarsaparilla, American sarsaparilla, small spikenard, rabbitroot, shotbush, wild licorice.

Habitat and range.—Wild-sarsaparilla grows in rich, moist woods from Newfoundland west to Manitoba and south to North Carolina and Missouri.

Description.—This plant produces a single, long-stalked leaf and flowering stalk from a very short stem. The leafstalk is about 12 inches long and is divided at the top into three parts each bearing about five leaflets from 2 to 5 inches long. The flowering stalk produces in May to June three flower clusters consisting of from 12 to 30 small greenish flowers followed later in the season by round purplish black berries. The rootstock is rather long, creeping, somewhat twisted, and possesses a very fragrant, aromatic odor and a warm, aromatic taste.



Figure 119.—Wild-sarsaparilla (*Aralia nudicaulis*)

Other species.—The American spikenard (*Aralia racemosa* L.), known also as spignet, spiceberry, Indian root, petty-morrel, life-of-man, and old-man's root, is used for the same purpose as *A. nudicaulis*. It is distinguished from this by its taller form, its much-branched stem from 3 to 6 feet high, and very large leaves. The flowers are arranged in numerous clusters instead of only three, as in *A. nudicaulis*, and they appear several months later. The range of this species extends as far south as Georgia.

Part used.—The root, collected in autumn.

Sievers, A.F. 1930. The Herb Hunters Guide. Misc. Publ. No. 77. USDA, Washington DC.

Last update Friday, April 3, 1998 by aw

Thuja occidentalis L.



Cupressaceae

Arborvitae, Northern white cedar

We have information from several sources:

[Sievers, A.F. 1930. The Herb Hunters Guide. Misc. Publ. No. 77. USDA, Washington DC.](#)

[Handbook of Energy Crops](#)—James A. Duke. 1983. unpublished.

Last update Monday, April 16, 1998 by aw

Burdock

Arctium minus (Hill) Bernh.

Synonym.—*Lappa major* Gaertn.

Other common names.—Cockle button, cuckold dock, beggar's-buttons, hurr-burr, stick-button, hardock, bardane.

Habitat and range.—Burdock, one of our most common weeds, was introduced from the Old World. It grows along roadsides and in fields, pastures, and waste places, being very abundant in the Eastern and Central States and in some scattered localities in the West.

Description.—Burdock is a coarse, unsightly weed. During the first year it produces only a rosette of large leaves from a long tapering root. In the second year the plant grows to a large size, measuring from 3 to 7 feet in height. The stem is round, fleshy, and much branched and bears very large leaves, the lower ones frequently measuring 18 inches in length. The flowers are not produced until the second year, appearing from July until frost. They are purple and are borne in small clustered heads armed with hooked spines, and the spiny burs thus formed are a great pest, attaching themselves to clothing and to the wool and hair of animals. The plant has a large fleshy taproot. When dry this root is much wrinkled lengthwise.

Part used.—The roots, collected from plants of the first year's Growth. As they are large and fleshy they are likely to become moldy, and it is best to slice them lengthwise, so that drying may proceed more rapidly. The roots of other species of *Arctium* are also used.



Figure 28.—Burdock (*Arctium minus*)

Sievers, A.F. 1930. The Herb Hunters Guide. Misc. Publ. No. 77. USDA, Washington DC.

Last update Friday, March 13, 1998 by aw

Bearberry

Arctostaphylos uva-ursi (L.) Spreng.

Other common names.—Uva-ursi, red bearberry, bear's-grape, bear's bilberry, bear's whortleberry, foxberry, upland cranberry, mountain cranberry, crowberry, mealberry, rockberry, mountain box, kinnikinnic, killikinnic, universe vine, brawling, burren myrtle, creashak, sagachomi, rapper dandies (fruit).

Habitat and range.—Bearberry, also commonly known in the trade as uva-ursi is a native of this country, growing in dry sandy or rocky soil from the middle Atlantic States north to Labrador and westward to California and Alaska.

Description.—The bearberry is a low, much-branched shrub trailing over the ground and having numerous leathery evergreen leaves about 1 inch in length. The waxy flowers, which appear in May, are few and are borne in short, drooping clusters at the ends of the branches. They are white with a pinkish tinge, 5-lobed, and somewhat bell-shaped in form. Smooth, red, globular fruits containing five nutlets follow the flowers.

Part used.—The leaves, collected in autumn.



Figure 14.—Bearberry
(*Arctostaphylos uva-ursi*)

Sievers, A.F. 1930. The Herb Hunters Guide. Misc. Publ. No. 77. USDA, Washington DC.

Last update Friday, March 13, 1998 by aw

Jack-In-The-Pulpit

Arisaema triphyllum (L.) Schott.

Synonym.—*Arum triphyllum* L.

Other common names.—Wild turnip, arum, three-leaved arum, Indian-turnip, wakerobin, wild pepper, dragon-turnip, brown dragon, devil's-ear, marsh turnip, swamp turnip, meadow turnip, pepper turnip, starchwort, bog onion, priest's-pintle, lords-and-ladies.

Habitat and range.—Jack-in-the-pulpit inhabits moist woods from Canada to Florida and westward to Kansas and Minnesota.

Description.—The jack-in-the-pulpit has one or two smooth leaves consisting of three leaflets from 3 to 6 inches long and from 1 1/2 to 3 1/2 inches wide. The flower, which is either all green or green with dark purple stripes, is readily recognized on account of the similarity of its form to that of the calla lily. In autumn the fruit ripens in the form of a bunch of bright, scarlet, shining berries. The underground portion, usually referred to as the root but botanically known as a corm, is shaped like a turnip. The lower part is flat and wrinkled, while the upper part is surrounded by coarse wavy rootlets. It has an extremely burning taste.

Part used.—The dried corm, collected in the summer, is sliced crosswise and dried. Drying and heat diminish its burning taste, which disappears rapidly with age.



Figure 69.—Jack-in-the-pulpit (*Arisaema triphyllum*)

Sievers, A.F. 1930. The Herb Hunters Guide. Misc. Publ. No. 77. USDA, Washington DC.

Last update March 19, 1998 by aw

Snakeroot

(1) *Aristolochia serpentaria* L.; (2) *A. reticulata* Nutt.

Other common names.—(1) Virginia snakeroot, Virginia serpentaria, serpentary, snakeweed, pelicanflower, snagrel, sangrol, sangree-root; (2) Texas snakeroot, Texas serpentaria, Red River snakeroot.

Habitat and range.—Virginia snakeroot is found in rich woods from Connecticut to Michigan and southward, principally among the Alleghenies, and Texas snakeroot occurs in the Southwestern States, growing along river banks from Arkansas to Louisiana.

Description of Virginia snakeroot.—This plant is nearly erect, the slender, wavy stem sparingly branched near the base growing usually to about a foot in height sometimes, however, even reaching 3 feet. It has thin leaves, heart-shaped at the base and pointed at the apex, about 2 1/2 inches long and from 1 to 1 1/2 inches wide. The dull-brown, somewhat leathery flowers are produced individually from near the base of the plant on slender stems. The fruit is round, about half an inch in diameter, and contains numerous seeds. Serpentaria has a short rootstock with many thin, branching, fibrous roots. The rootstock has a very agreeable, aromatic, camphorlike odor and a warm, bitterish, camphoraceous taste.

Description of Texas snakeroot.—This plant has a very wavy stem with oval, heart-shaped, clasping leaves which are rather thick and marked with a network of veins. The entire plant is hairy, with numerous long, coarse hairs. The small densely hairy, purplish flowers are produced from the base of the plant. The rootstock of this species is larger and has fewer small roots than that of the Virginia snakeroot.

Part used.—The roots of both species, collected in autumn.



Figure 99.—Snakeroot
(*Aristolochia serpentaria*)



***Armoracia rusticana* P. Gaertn., B. Mey. & Scherb.**

Brassicaceae (Cruciferae)

Horseradish, Creole mustard, German mustard, Horse-reddish root (archaic), Red horseradish

We have information from several sources:

[Simon, J.E., A.F. Chadwick and L.E. Craker. 1984. Herbs: An Indexed Bibliography. 1971–1980.](#)

[Magness, J.R., G.M. Markle, C.C. Compton. 1971. Food and feed crops of the United States.](#)

Artemisia abrotanum L.

Asteraceae (Compositae)

Southernwood, Old-man, southern wormwood

We have information from several sources:

[Simon, J.E., A.F. Chadwick and L.E. Craker. 1984. Herbs: An Indexed Bibliography. 1971–1980.](#)

[Magness, J.R., G.M. Markle, C.C. Compton. 1971. Food and feed crops of the United States.](#)

Last update Monday, January 6, 1998 by aw





Artemisia absinthium L.

Asteraceae (Compositae)

Wormwood, Absinthe

NewCROP holds information from the following sources:

[Herbs: An Indexed Bibliography. 1971-1980](#)—J.E. Simon, A.F. Chadwick and L.E. Craker

[The Herb Hunters Guide](#)—Sievers, A.F. 1930.

[Magness, J.R., G.M. Markle, C.C. Compton. 1971. Food and feed crops of the United States.](#)

Outside links to Wormwood info:

[Illustration of *Artemisia absinthium* L.](#) from Hermann A. Köhler's 3-part tomes *Medizinal Pflanzen* (1887) plates.

[Wormwood](#) and absinthe FAQ's.

[Wormwood](#) from the "Vaults of Erowid"

Artemisia dracunculus L.

Asteraceae (Compositae)

Tarragon, French tarragon, Russian tarragon, true tarragon



We have information from several sources:

[Simon, J.E., A.F. Chadwick and L.E. Craker. 1984. Herbs: An Indexed Bibliography. 1971–1980.](#)

[Lowman, M.S. and M. Birdseye. 1946. Savory Herbs: Culture and Use. Farmer's Bulletin No. 1977. USDA, Washington, DC.](#)

[Magness, J.R., G.M. Markle, C.C. Compton. 1971. Food and feed crops of the United States.](#)

Canada Wildginger

Asarum canadense L.

Other common names.—Asarum, Indian ginger, Canada snakeroot, Vermont snakeroot, heart snakeroot, southern snakeroot, black snakeroot, coltsfoot snakeroot, black snakeweed, broad-leaved asarabacca, false coltsfoot, colicroot.

Habitat and range.—This inconspicuous little plant frequents rich woods or rich soil along roadsides from Canada south to North Carolina and Kansas.

Description.—Canada wildginger, better known perhaps as Canada snakeroot, is a small plant, apparently stemless, and not more than 6 to 12 inches in height. It usually has but two leaves, which are borne on slender, finely hairy stems. The leaves are kidney-shaped or heart-shaped, thin, dark green above and paler green on the lower surface, and from 4 to 7 inches broad. The solitary flower is borne on a short, slender stalk produced between the two leaf stems, and on account of its closeness to the ground it is not readily noticeable. It is bellshaped and of a dull-brown or brownish-purple color, the inside being darker than the outside. The plant has a creeping, yellowish rootstock with thin rootlets produced from joints which occur about every inch. It has a fragrant odor and spicy taste.

Part used.—The rootstock, collected in autumn.



Figure 32.— Canada wildginger (*Asarum canadense*)

Sievers, A.F. 1930. The Herb Hunters Guide. Misc. Publ. No. 77. USDA, Washington DC.

Last update Friday, March 13, 1998 by aw



Asclepias tuberosa L.

Asclepiadaceae

**Butterfly weed, Indian posy, Orange milkweed,
Orange root, Pleurisy root, Tuberroot**

We have information from several sources:

[The Herb Hunters Guide](#)—Sievers, A.F. 1930.

[New Flower Crops](#)—Abraham H. Halevy

Last updated: NaN/NaN/NaN by ch

Astragalus species

(over 1500 species exist)



Fabaceae, or Leguminosae

Tragacanth, Gum Tragacanth

The gum group includes:

Astragalus adscendens Boiss

A. echinaeformis Sirjaev

A. gossypinus

A. gummifer Labill

A. microcephalus Willd.

Milk Vetches used for forage & groundcovers

forages and groundcovers

Astragalus adsurgens Pall

A. cicer

A. falcatus L. Per.

A. melioides

Other *Astragalus* species and their uses:

Astragalus boetica - Swedish Coffee (seeds roasted for a coffee substitute)

A. crassicaarpus Nutt.- Buffalo Pea, Ground Plum (unripe seed pods edible)

A. glycyphyllos - (Used for a tea)

A. membranaceus - Milk-vetch root, huang qi (a chinese medicine)

[Introduction of Chia and Gum Tragacanth in the U.S.](#)—Howard S. Gentry, Marc Mittleman, and Peter R. McCrohan

See: [Astragalus](#) In: Potential New Specialty Crops from Asia: Azuki Bean, Edamame Soybean, and Astragalus. Lumpkin, T.A., J.C. Konovsky, K.J. Larson, and D.C. McClary. 1993.

Balm-Of-Gilead Poplar

Populus candicans Ait.

Other common names.—Balsam poplar, balm buds.

Habitat and range.—The balm-of-Gilead tree, which has mostly escaped from cultivation, is found along roadsides or streams from Newfoundland to Minnesota and Georgia.

Description.—This is a large tree reaching a height of 100 feet with a maximum trunk diameter of about 6 1/2 feet with spreading branches, the young twigs slightly hairy, and with very resinous, fragrant buds. The broad, pointed leaves, 2 1/2 to 6 inches long, are somewhat heart-shaped at the base, fine toothed, dark green above, pale beneath, and hairy when young. The male and female flowers are borne in separate catkins 6 inches or less in length, which appear before the leaves.

Part used.—The leaf buds.



Figure 11.—Balm-of-Gilead poplar (*Populus candicans*)

Sievers, A.F. 1930. The Herb Hunters Guide. Misc. Publ. No. 77. USDA, Washington DC.

Last update Wednesday, March 16, 1998 by aw

Bamboo Greenbrier

Smilax pseudo-china L.

Other common names.—Bamboo brier, long-stalked greenbrier, American chinaroot, false chinaroot, bullbrier.

Habitat and range.—This plant occurs in dry, sandy thickets from New Jersey to Florida and west to Texas and Nebraska.

Description.—Bamboo greenbrier is a smooth vine with a tuberous rootstock and with the lower part of the stem smooth or sometimes beset with straight, needle-shaped prickles. The leaves, 2 1/2 to 5 1/2 inches long and 1 1/2 to 3 1/2 inches wide, are egg-shaped or sometimes narrowed at the middle, usually rough on the margin, and somewhat leathery when old. The greenish flowers, 12 to 40 in number, are borne in round clusters on flattened stalks 1 to 3 inches long. These are followed in autumn by one to three seeded black berries up to one-quarter inch in diameter.

Part used.—The root.



Figure 12.—Bamboo greenbrier (*Smilax pseudo-china*)

Sievers, A.F. 1930. The Herb Hunters Guide. Misc. Publ. No. 77. USDA, Washington DC.

Last update Wednesday, March 16, 1998 by aw

Yellow Wild-Indigo

Baptisia tinctoria (L.) R. Br.

Other common names.—Baptisia, indigo weed, yellow indigo, American indigo, yellow broom, indigo broom, clover broom, horsefly weed, shoofly, rattlebush.

Habitat and range.—This native herb grows on dry, poor land and is found from Maine to Minnesota and south to Florida and Louisiana.

Description.—Yellow wild-indigo is an erect, much-branched, very leafy plant about 2 to 3 feet in height with cloverlike leaves. The flowers are bright yellow, one-half inch in length, and are produced in numerous clusters from June to September. The root, which is round and fleshy, sending out branches and rootless almost 2 feet in length, has a white interior and a thick, dark-brown bark. The bark root has a bitter, nauseous taste.

Other species.—A related species, said to possess similar properties, is *Baptisia alba* R. Br., called the white wild-indigo. This plant has white flowers and is found in the Southern States and on the western Plains.

Part used.—The herb and the root, the latter collected in autumn.



Figure 127.—Yellow wild-indigo (*Baptisia tinctoria*)

Sievers, A.F. 1930. The Herb Hunters Guide. Misc. Publ. No. 77. USDA, Washington DC.

Last update Friday, April 3, 1998 by aw



***Ocimum basilicum* L.**

Lamiaceae

Basil, basilic common, *basilico*, bush basil, sweet basil, wild basil

We have information from several sources:

[FactSheet](#) contributed by James Simon

[Herbs: An Indexed Bibliography. 1971-1980](#)—J.E. Simon, A.F. Chadwick and L.E. Craker

[Midwest Vegetable Production Guide for Commercial Growers 1998](#)

[Antioxidant Activity of Basil](#)—H.R. Juliani and J.E. Simon

[Basil Seed Oils](#)—Paul Angers, Mario R. Morales, and James E. Simon

[Basil: A Source of Essential Oils](#)—James E. Simon, James Quinn, and Renee G. Murray

[Essential Oils and Culinary Herbs](#)—James E. Simon

[New Aromatic Lemon Basil Germplasm](#)—Mario R. Morales, Denys J. Charles, and James E. Simon

[New Basil Selections with Compact Inflorescences for the Ornamental Market](#)—Mario R. Morales and James E. Simon

[Basil: A Source of Aroma Compounds and a Popular Culinary and Ornamental Herb](#)—James E. Simon, Mario R. Morales, Winthrop B. Phippen, Roberto Fontes Vieira, and Zhigang Hao

[Alternative Crops Research in Virginia](#)—Harbans L. Bhardwaj, Andy Hankins, Tadesse Mebrahtu,

Bayberry

Myrica cerifera L.; *M. carolinensis* Mill.

Other common names.—(1) Southern waxmyrtle, waxberry, tallow berry, candleberry, tallow shrub, candleberry myrtle; (2) northern bayberry, small waxberry.

Habitat and range.—The bayberry is native in sandy swamps or wet woods from New Brunswick south to Florida. *Myrica cerifera* is found as far west as Texas and Arkansas while *M. carolinensis* is common in bogs in northern New Jersey and Pennsylvania.

Description.—The southern waxmyrtle is a shrub or slender tree up to 40 feet high. The leaves are from 1 to 4 inches long, narrow, wedge-shaped, entire or with a few teeth, and have a fragrant odor when crushed. The flowers appear from March to May, according to locality, generally before the leaves are fully expanded. Male and female flowers are borne on separate trees, the male flowers in cylindrical yellow clusters and the female flowers in green somewhat shorter clusters. The fruit, which remains on the tree for several years, consists of clusters of round, 1-seeded, somewhat berrylike nuts covered with a whitish wax. Northern bayberry is a shrub 8 feet high or less, with broader and blunter leaves.

Part used.—The bark of the root, collected in late autumn. After thorough cleansing and while still fresh the bark is loosened and removed by heating the root. The wax obtained from the berries, used for making bayberry candles, is also an article of commerce.



Figure 13.—Northern bayberry (*Myrica carolinensis*)

Sievers, A.F. 1930. The Herb Hunters Guide. Misc. Publ. No. 77. USDA, Washington DC.

Last update Friday, March 16, 1998 by aw



***Laurus nobilis* L.**

Lauraceae

Bay laurel

We have information from several sources:

[Simon, J.E., A.F. Chadwick and L.E. Craker. 1984. Herbs: An Indexed Bibliography. 1971–1980.](#)

[Magness, J.R., G.M. Markle, C.C. Compton. 1971. Food and feed crops of the United States.](#)

last update December 30, 1997

Oregon Hollygrape

Berberis aquifolium Prursh.

Other common names.—Oregon grape, Rocky Mountain grape, hollyleaved barberry, California barberry, trailing mahonia.

Habitat and range.—This shrub is native in woods in rich soil among rocks from Nebraska to the Pacific Ocean, but it is especially abundant in Oregon and northern California.

Description.—Oregon hollygrape is a low-growing shrub from 2 to 5 feet in height, resembling the holly of the Eastern States. The leaves are divided like those of an ash; the five to nine leaflets from 2 to 3 inches long and about 1 inch wide are evergreen, thick, leathery, smooth, and shining on the upper surface with marginal spines. The numerous small yellow flowers appear in April and May and are borne in erect clusters. The fruit consists of a cluster of blue berries. The rootstock and roots are more or less knotty, about an inch or less in diameter, with tough yellow wood and brownish bark.



Figure 81.—Oregon hollygrape (*Berberis aquifolium*)

Other species.—The roots of *Berberis nervosa* Pursh, which is found in the same region, are sometimes collected with that of Oregon hollygrape.

Part used.—The bark, collected in autumn.

Sievers, A.F. 1930. The Herb Hunters Guide. Misc. Publ. No. 77. USDA, Washington DC.

Last update Friday, April 3, 1998 by aw

Monarda sp.

Lamiaceae (Labiatae)

Bergamot, American horsemint, bee balm, bergamot herb, gergamot orange, horsemint, mellarosa, wild bergamot



We have information from several sources:

[Simon, J.E., A.F. Chadwick and L.E. Craker. 1984. Herbs: An Indexed Bibliography. 1971–1980.](#)

[Monarda: A Source of Geraniol, Thymol, Linalool, and Carvacrol-rich Essential Oils](#)—G. Mazza, F.A. Kiehn, and H.H. Marshall

Last updated: NaN/NaN/NaN by ch



***Betula lenta* L.**

Betulaceae

Sweet birch, black birch, cherry birch, spice birch

We have information from several sources:

[The Herb Hunters Guide](#)—Sievers, A.F. 1930.

[Handbook of Energy Crops](#)—James A. Duke. 1983. unpublished.

Last updated: NaN/NaN/NaN by ch

Bilberry

Whortleberry

Ericaceae *Vaccinium* spp.

Source: [Magness et al. 1971](#)

Similar to blueberries except berries are only 4 or 5-celled. Fruit is a glabrous berry, blue to black-colored, and sweet. Used like blueberries.



Last update February 18, 1999 by ch

Bitter Nightshade

Solanum dulcamara L.

Other common names.—Bittersweet, dulcamara, nightshade, climbing nightshade, woody nightshade, amara dulcis, fevertwig, violet-bloom, blue bindweed, felonwort, poisonberry, poisonflower, pushion-berry, morel, snakeberry, wolfgrape, scarlet berry, tether-devil, dwale, skawcoo.

Habitat and range.—This plant occurs in low damp grounds and moist banks of rivers from New Brunswick to Minnesota and south to New Jersey and Kansas.

Description.—Bitter nightshade has a climbing, somewhat woody, branched stem about 2 to 8 feet long. The leaves are from 2 to 4 inches long, some entire and others having one to three lobes at the base. The purplish flowers, which resemble those of the potato, are produced from about May to September in compound clusters. The berries, which ripen in autumn, are oval, red, juicy, and contain numerous seeds. The plant has a handsome appearance in autumn with its colored berries, and is often planted as an ornamental.

Part used.—The young branches from plants only 1 or 2 years old, collected after the leaves have fallen.



Figure 15.—Bitter nightshade (*Solanum dulcamara*)

Sievers, A.F. 1930. The Herb Hunters Guide. Misc. Publ. No. 77. USDA, Washington DC.

Last update Friday, March 13, 1998 by aw

American Bittersweet

Celastrus scandens L.

Other common names.—False bittersweet, climbing bittersweet, shrubby bittersweet, fevertwig, fever-twitch, staff tree, climbing staff tree, staff vine, waxwork, Roxbury waxwork, yellowroot, climbing orange-root, Jacob's-ladder.

Habitat and range.—This woody vine or climbing shrub is found in woods and thickets, growing in rich damp soil from Ontario to Manitoba and south to North Carolina and New Mexico.

Description.—American bittersweet is a woody and shrubby climber, growing over trees or fences. It has smooth thin leaves 2 to 4 inches long and about half as wide. The small greenish-white or greenish-yellow flowers are produced in June in short clusters. The fruit is a roundish, orange-yellow capsule which opens in autumn, disclosing the scarlet-colored seed. The seed capsules remain on the plant well into the cold season.

Part used.—The bark of the plant and root, but especially that of the root.



Figure 2.—American Bittersweet
(*Celastrus scandens*)

Sievers, A.F. 1930. The Herb Hunters Guide. Misc. Publ. No. 77. USDA, Washington DC.

Black Cherry

Prunus serotina Ehrh.

Synonym.—*Prunus virginiana* Mill., not of Linnaeus.

Other common names.—Wild cherry, wild black cherry, cabinet-cherry, black choke, rum cherry, whisky-cherry, Virginian prune-bark.

Habitat and range.—The black cherry occurs in woods or open places and is most abundant in the Southeastern States, but its range extends from Nova Scotia to Florida, westward to Texas, and north through Oklahoma, the eastern portions of Kansas, Nebraska, and South Dakota.

Description.—This tree sometimes reaches a height of 90 feet and a maximum trunk diameter of 4 feet. The trunk is straight and covered with rough black bark, but the young branches are smooth and reddish. The smooth shining leaves are about 2 to 5 inches long. The long drooping clusters of small white flowers are borne at the ends of the branches, usually during May. The cherries, which ripen about August or September, are round, black, or very dark purple, about the size of a pea, and have a sweet, slightly astringent taste.

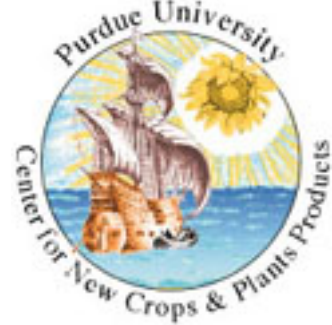
Part used.—The bark, collected in autumn. The outer layer is removed, and the bark is then carefully dried and preserved. Young thin bark is preferred and that from very young or very old branches should not be used. Black cherry bark should not be kept longer than one year, because it deteriorates with age.



Figure 16.—Black cherry
(*Prunus serotina*)

Sievers, A.F. 1930. The Herb Hunters Guide. Misc. Publ. No. 77. USDA, Washington DC.

Last update Friday, March 13, 1998 by aw



***Cimicifuga racemosa* (L.) Nutt.**

Ranunculaceae

Cohosh Bugbane, Black Cohosh

We have information from several sources:

[Sievers, A.F. 1930. The Herb Hunters Guide. Misc. Publ. No. 77. USDA, Washington DC.](#)

[Phytomedicines as a New Crop Opportunity](#)—Loren D. Israelsen

Last updated: NaN/NaN/NaN by aw

Blackhaw

Viburnum prunifolium L.

Other common names.—Sloe, sloe-leaved viburnum, stagbush, shonny.

Habitat and range.—The blackhaw occurs in dry woods and thickets and on rocky hillsides from Connecticut to Florida and west to Michigan and Texas, but is found in greatest abundance in the South.

Description.—This shrub or small tree, from 10 to about 20 feet in height, has rather stout, spreading branches. The smooth bright-green, finely toothed, broadly or roundish oval leaves are 1 to 3 inches long. The numerous stemless flower clusters are from 2 to 4 inches broad, composed of numerous white flowers appearing from April to June. The fruit, which is sweet and edible, is about half an inch long, bluish black, covered with a bloom, and ripens in early autumn. It contains a somewhat flattened stone.



Figure 17.—Blackhaw
(*Viburnum prunifolium*)

Another species.—The sweet viburnum (*Viburnum lentago* L.), known also as nannyberry and sheepberry, is collected with *V. prunifolium*. It grows in rich soil from Canada south to Georgia and Kansas. Its fruit matures in October, becoming sweet and edible, and sometimes remaining on the shrub until the following spring.

Part used.—The bark of both species, collected in autumn.

Sievers, A.F. 1930. The Herb Hunters Guide. Misc. Publ. No. 77. USDA, Washington DC.

Last update Friday, March 13, 1998 by aw

Black Willow

Salix nigra Marsh.

Other common names.—Swamp willow.

Habitat and range.—This tree is found in low ground and along streams from New Brunswick to western Ontario and in North Dakota, Florida, and Texas.

Description.—This willow is a tree attaining a height of 120 feet and a trunk diameter of 3 feet, with narrow lance-shaped leaves 2 1/2 to 5 inches long and up to three-quarters of an inch wide, finely toothed and hairy when young. Male and female flowers are borne in separate catkins which expand with the leaves the male catkins 1 to 2 inches and the female catkins 1 1/2 to 3 inches long.

Part used.—The bark and buds.



Figure 19.—Black willow
(*Salix nigra*)

Sievers, A.F. 1930. The Herb Hunters Guide. Misc. Publ. No. 77. USDA, Washington DC.

Last update Friday, March 13, 1998 by aw

Blessed Thistle

Cnicus benedictus L.

Synonyms.—*Carduus benedictus* Steud., *Carbenia benedicta* Adans.

Other common names.—Holy thistle, St.-Benedict's-thistle, Our Lady's thistle, bitter thistle, spotted thistle, cursed thistle, blessed cardus, spotted cardus.

Habitat and range.—The blessed thistle is a weed which is found sparingly in waste places and stony, uncultivated localities from Nova Scotia to Maryland and the Southern States, also on the Pacific coast.

Description.—This plant, which scarcely exceeds 2 feet in height, has a coarse, erect, branched, and rather woolly stem. The leaves are 3 to 6 inches long, more or less hairy, with margins lobed and spiny. The yellow flower heads which appear from about May to August are borne at the ends of the branches, almost hidden by the upper leaves, and are about 1 1/2 inches long. Surrounding the flower heads are leathery scales, tipped with long, branching, yellowish-red spines. The herb has a rather disagreeable odor which is lost in drying.

Part used.—The leaves and leafy flowering tops, gathered preferably just before or during the flowering period.



Figure 20.—Blessed thistle
(*Cnicus benedictus*)

Sievers, A.F. 1930. The Herb Hunters Guide. Misc. Publ. No. 77. USDA, Washington DC.

Last update Friday, March 13, 1998 by aw



***Sanguinaria canadensis* L.**

Papaveraceae

Bloodroot

We have information from several sources:

[Sievers, A.F. 1930. The Herb Hunters Guide. Misc. Publ. No. 77. USDA, Washington DC.](#)

[Phytomedicines as a New Crop Opportunity](#)—Loren D. Israelsen

Last update Monday, April 17, 1998 by aw

Blue Cohosh

Caulophyllum thalictroides (L.) Michx.

Other common names.—Caulophyllum, papoose root, squawroot, blueberry root, blue ginseng, yellow ginseng.

Habitat and range.—Blue cohosh is found in the deep rich loam of shady woods from New Brunswick to South Carolina and westward to Nebraska, being abundant especially throughout the Allegheny Mountain region.

Description.—Blue cohosh is from 1 to 3 feet in height and bears at the top one large almost stemless leaf which is divided into three divisions, each of which is again divided into three divisions consisting of three leaflets each. The latter have from three to five lobes. During its early growth the plant is covered with a bluish-green bloom which gradually disappears. The small greenish-yellow flowers are borne in small heads during April and May. The small round seeds, which ripen in August, are borne on stout stalks and resemble dark-blue berries. The thick, crooked rootstock is covered with a mass of matted roots.



Figure 22.—Blue cohosh
(*Caulophyllum thalictroides*)

Part used.—The rootstock with roots, collected in autumn.

Sievers, A.F. 1930. The Herb Hunters Guide. Misc. Publ. No. 77. USDA, Washington DC.

Last update Friday, March 13, 1998 by aw

Blueflag Iris

Iris versicolor L.

Other common names.—Iris, flag lily, liver lily, snake lily, poison flag, water flag, American fleur-de-lis or flower-de-luce.

Habitat and range.—Blueflag iris delights in wet, swampy localities, making its home in marshes, thickets, and wet meadows from Newfoundland to Manitoba and south to Florida and Arkansas.

Description.—This well-known plant is from 2 to 3 feet in height. With an erect stem, sometimes branched near the top, and sword-shaped leaves, shorter than the stem, from one-half to 1 inch in width and showing a slight grayish bloom. The flowers, which appear from May to July, are large and handsome, each stem bearing from two to six or more. They have a peculiar form, consisting of six segments, the three outer ones turned back and the three inner ones erect and much smaller. They are purplish blue, the narrow base of the segments variegated with yellow, green, or white and marked with purple veins. Blueflag has a thick, fleshy, horizontal, branched rootstock producing many long, fibrous roots. It is poisonous and has caused poisonous effects in persons who mistook the plant for sweetflag which it resembles greatly when not in flower.

Part used.—The rootstock, collected in autumn. demand.



Figure 23.—Blueflag iris (*Iris versicolor*)

Sievers, A.F. 1930. The Herb Hunters Guide. Misc. Publ. No. 77. USDA, Washington DC.

Last update Friday, March 13, 1998 by aw

Blue Vervain

Verbena hastata L.

Other common names.—Verbain, false verbain, wild hyssop, simpler's-joy, ironweed.

Habitat and range.—Vervain is found in moist fields, meadows, and waste places from Nova Scotia to British Columbia and Florida, Nebraska, and Arizona.

Description.—This rather rough, finely haired herb has an erect, straight 4-sided stem, 4 to 7 feet high, usually branched above with broadly lance-shaped sharply toothed leaves. The small, usually blue, flowers are densely clustered in numerous slender paniced spikes 2 to 6 inches long.

Part used.—The herb.



Figure 24.—Blue vervain
(*Verbena hastata*)

Sievers, A.F. 1930. The Herb Hunters Guide. Misc. Publ. No. 77. USDA, Washington DC.

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***Blumea lacera*: Useful Plant**

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Blumea lacera L., Compositae, is one of the common rabi weeds of India (Oudhia and Tripathi 1999a). It is an annual herb, with a strong odor of turpentine. Stem is erect, ash colored, densely glandular, pubescent. Leaves are often incised or lyrate. There are many flower heads in single plant, arranged in axillary cymes or terminal panicle. Pappus is white. Fruits is an achene, oblong and not ribbed. Flowering time January to April (Agharkar 1991).

The plant occurs throughout the plains of India from the north-west ascending to 2,000 ft in the Himalayas. It is a common roadside weed in Ceylon and Malaya. It is distributed to the Malay Islands, Australia, China and Tropical Africa. *Blumea* consists of about 80 species (Caius 1986). *Blumea lacera* competes with rabi crops such as linseed, chickpea, and wheat for light, food and moisture (Oudhia, 1997) and harbors diseases and insects such as *Euplexia dolorosa*, *Eublemma trifasciata* (Lefroy, 1909). *Blumea lacera* is described as a valuable medicinal plant in many popular systems of medicine including *Ayurveda*, homoeopathy, and unani. Stimulatory allelopathy of different parts of *B. lacera* on many agricultural crops has also been reported (Oudhia 1996). Not much work has been done on various utility aspects of *B. lacera*. In many parts of India, *Blumea* is cultivated for its green leaves and roots. *Blumea* is late kharif crop in these parts (Oudhia and Tripathi 1999b)

Reported Uses

Blumea is described in *Ayurveda* as bitter, astringent, acrid, thermogenic, errhine, anti-inflammatory, styptic, ophthalmic, digestive, anthelmintic, liver tonic, expectorant, febrifuge, antipyretic, diuretic, deobstruant, and stimulant (Warner et al. 1996). The root kept in the mouth is said to cure disease of the mouth. In the Konkan region of India, the plant is used to drive away fleas and other insects. It is prescribed as an antiscorbutic in West Africa (Caius 1986). Essential oil from *Blumea* has been shown analgesic, hypothermic, and tranquilizing activities (Anonymous 1972). Campesterol has been isolated from aerial parts and 5-hydroxy-3, 6, 7, 3',4'- pentamethoxy flavone, 5,3',4' trihydroxy flavone and an unidentified flavone have been isolated from leaves (Rastogi and Mehrotra 1991). *Blumea lacera* is

considered a valuable homoeopathic drug (Oudhia et al. 1998a) useful in case of enuresis, neuralgia, headache, cold borne cough. A tincture is useful in case of bleeding piles (Ghosh 1988). Natives of Chhattisgarh use this weed for treating health problems (Oudhia et al. 1998b). There is a heavy demand of different parts (fresh and dry both) of this weed in national and international drug markets (Oudhia and Tripathi 1999c). Farmers can earn extra income after selling various parts of *Blumea* with the help of co-operatives (Oudhia and Traipathi 1999d). Fresh leaves of *Blumea* are the most valuable part.

Stimulatory allelopathy of *B. lacera* on many agricultural crops such as rice has been reported (Oudhia et al. 1997b, 1998c,d) including rabi and kharif obnoxious weeds such as *Echinochloa colonum*, *Ageratum conyzoides* (Oudhia et al., 1998c), *Chenopodium album*, *Melilotus indica*, *Phalaris minor*, *Cirsium arvense*, and *Spilanthus* (Oudhia et al. 1997a)

Cultivation

Blumea is a late kharif crop. Standard agrotechniques have not been developed. Seeds are generally sown in late August on prepared land with good tilth; fertilizers are not used. Leaves are harvested at time of 50% flowering. *Blumea* leaf beetle (*Chrysolina madrasae* Jackoby) is the main insect pest (Oudhia 1989, 1997, 1999a,b,c,d; Oudhia & Thakur 1996).

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- Oudhia, P. and R.S. Tripathi. 1999b. A usefull weed *Blumea lacera* L. : A review. *Indian J Weed Sci.* 31 (1 & 2):108-109.
- Oudhia, P. and R.S. Tripathi. 1999c. Medicinal weeds : A boon for the farmers of Chhattisgarh *Abstract*. Eighth Biennial Conference of Indian Society of Weed Science, BHU, Varanasi 5-7 Feb. p. 152.
- Oudhia, P. and R.S. Tripathi. 1999d. Scope of cultivation of important medicinal plants in Chhattisgarh plains. Proc. National Conference on Health Care and Development of Herbal Medicines, IGAU, Raipur. p. 215-222.
- Oudhia, P., B.S. Joshi, and V.K. Koshta. 1998a. Chhattisgarh ke kleshkarak kharptwaron se homoeopathic dava nirman kisambhavnayain (The possibilities of preparing homoeopathic drugs from obnoxious weeds of Chhattisgarh. Abstract : V National Science Conference, Bhartiya Krishi Anusandhan Samittee, JNKVV, Gwalior.
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- Oudhia, P., S.S. Kolhe, and R.S. Tripathi 1998b. Allelopathic effect of *Blumea lacera* L. on wheat. *Indian J. Weed Sci.* 29: 4-7.
- Oudhia, P., S.S. Kolhe, and R.S. Tripathi. 1998c. Allelopathic effect of *Blumea lacera* L. on rice and common kharif weeds. *Oryza* 35: 175-177.

Bogbean

Menyanthes trifoliata L.

Other common names.—Buck bean, bog myrtle, bog hop, bog nut, brook bean, bean trefoil, marsh trefoil, water trefoil, bitter trefoil, water shamrock, marsh clover, moonflower, bitterworm.

Habitat and range.—The bogbean is a northern marsh herb occurring in North America as far south as Pennsylvania, Minnesota, and California.

Description.—This herb arises from a long, black, creeping, scaly rootstock, the leaves being produced from the end of the same on erect stems measuring about 2 to 10 inches in height. The leaves consist of three somewhat fleshy, smooth leaflets 1 1/2 to 3 inches long. The flower cluster is produced from May to July on a long, thick, naked stalk arising from the rootstock. It bears from 10 to 20 flowers each, with a funnel-shaped tube terminating in five segments which are pinkish purple or whitish on the outside and whitish and bearded on the inside.

Part used.—The leaves, collected in the spring.



Figure 25.—Bogbean
(*Menyanthes trifoliata*)

Sievers, A.F. 1930. The Herb Hunters Guide. Misc. Publ. No. 77. USDA, Washington DC.

Last update Friday, March 13, 1998 by aw

Boneset

Eupatorium perfoliatum L.

Synonym.—*Eupatorium connatum* Michx.

Other common names.—Thoroughwort, thorough-stem, thoroughwax, wood boneset, teasel, agueweed, feverwort, sweating plant, crosswort, vegetable antimony Indian sage, wild sage, tearal, wild isaac.

Habitat and range.—Boneset is a common weed in low, wet ground, along streams, on the edges of swamps, and in thickets from Canada to Florida and west to Texas and Nebraska.

Description.—This plant is easily recognized by the peculiar arrangement of the leaves, which are opposite each other and joined at the base, making it appear as though they were one with the stem passing through the center. It is erect, growing rather tall, from 1 to 5 feet in height, with rough, hairy, stout stems. The crowded, flat-topped clusters of flowers are produced from about July to September and consist of small heads of tubular white flowers.

Part used.—The leaves and flowering tops, collected when the plants are in flower, and stripped from the stalk.



Figure 26.—Boneset
(*Eupatorium perfoliatum*)

Sievers, A.F. 1930. The Herb Hunters Guide. Misc. Publ. No. 77. USDA, Washington DC.

Last update Friday, March 13, 1998 by aw

Borago officinalis L.

Boraginaceae

Borgae



We have information from several sources:

[Borage Culture on the Black Soil Zone of Alberta, Canada](#)—R. El Hafid, S.F. Blade, and Y. Hoyano

[Borage: A New Crop for Southern Chile](#)—M. Berti, R. Wilckens, S. Fischer, and R. Araos

[Simon, J.E., A.F. Chadwick and L.E. Craker. 1984. Herbs: An Indexed Bibliography. 1971–1980.](#)

[Borage: A Source of Gamma Linolenic Acid](#) (Abstract)—James E. Simon, Nancy Beaubaire, Stephen C. Weller, and Jules Janick

[Drawing by Mary Lou Overley](#)

[New Crops In The UK: From Concept to Bottom Line Profits](#)—Francis H. Nicholls

[Alternative Crops Research in Virginia](#)—Harbans L. Bhardwaj, Andy Hankins, Tadesse Mebrahtu, Jimmy Mullins, Muddappa Rangappa, Ozzie Abaye, and Gregory E. Welbaum

[Preliminary Agronomic Evaluation of New Crops for North Dakota](#)—Marisol T. Berti and A.A. Schneiter

[Neglected Crops: 1492 from a Different Perspective](#)—J.E. Hernándo Bermejo and J. León (eds.)

[Food and feed crops of the United States](#)—Magness, J.R., G.M. Markle, C.C. Compton. 1971.



Mustards

Brassicaceae, or Cruciferae

We have information from several sources:

[Herbs: An Indexed Bibliography. 1971-1980](#)—J.E. Simon, A.F. Chadwick and L.E. Craker

[Midwest Vegetable Production Guide for Commercial Growers 2000](#)

[Mustard](#): Alternative Field Crops Manual, University of Wisconsin Cooperative Extension Service, University of Minnesota Extension Service, Center for Alternative Plant & Animal Products

[Black Mustard](#) In: Potential of Fanweed and Other Weeds as Novel Industrial Oilseed Crops—Patrick M. Carr

Handbook of Energy Crops. 1983. James A. Duke. unpublished

[Brassica juncea](#)

[Brassica nigra](#)

[Sinapis alba](#)

[The Herb Hunters Guide](#)—A.F. Sievers. 1930.

[Potential of Sugar Beet Nematode-Resistant Radishes and Mustard for Use in Sugar Beet Rotations](#)—James M. Krall, David W. Koch, Fred A. Gray, and Li Mei Yun

[Alternate Crops for Dryland Production Systems in Northern Idaho](#)—Kenneth D. Kephart, Glen A. Murray, and Dick L. Auld

[New Crops for Canadian Agriculture](#)—Ernest Small

[Evaluation of Tropical Leaf Vegetables in the Virgin Islands](#)—Manuel C. Palada and Stafford M.A. Crossman

Bugleweed

Lycopus virginicus L.

Other common names.—Buglewort, sweet bugleweed, American water hoarhound, carpenter's herb, green archangel, gypsyweed, Paul's betony, woodbetony, wolf foot, purple archangel, water bugle, gypsywort, gypsy herb, Virginia hoarhound.

Habitat and range.—Bugleweed is a native herb frequenting wet, shady places from Canada to Florida, Missouri, and Nebraska.

Description.—This herb has long, threadlike runners and a bluntly 4-angled, smooth, slender, erect stem from 6 inches to 2 feet in height. The leaves are about 2 inches in length, pointed, rather narrow, and dark green or of a purplish tinge. The whitish flowers, which appear from about July to September, are small, tubular, and bell-shaped, and are produced in dense clusters in the axils of the leaves. They are followed by four nutlets. The plant has a rather pleasant, mintlike odor, but a disagreeable bitter taste.

Part used.—The entire herb, gathered during the flowering period.



Figure 27.—Bugleweed (*Lycopus virginicus*)

Sievers, A.F. 1930. The Herb Hunters Guide. Misc. Publ. No. 77. USDA, Washington DC.

Last update Friday, March 13, 1998 by aw

Juglans cinerea L.

Juglandaceae

Butternut



We have information from several sources:

[Sievers, A.F. 1930. The Herb Hunters Guide. Misc. Publ. No. 77. USDA, Washington DC.](#)

[Magness, J.R., G.M. Markle, C.C. Compton. 1971. Food and feed crops of the United States.](#)

Outside links:

[Butternut accessions from the National Germplasm Repository, Corvallis, Oregon](#)

[Walnuts, *Juglans* spp.](#)

Prickly-Ash

(1) *Zanthoxylum americanum* Mill.; (2) *Z. clava-herculis* L.

Synonyms.—(1) *Xanthoxylum fraxineum* Willd.; (2) *X. carolinianum* Lam.; *Fagara clava-herculis* (L.) Small.

Other common names.—Common prickly-ash, northern prickly-ash, toothache tree, toothache bush, yellowwood, angelica tree, pellitory-bark, suterberry; (2) southern prickly-ash, Hercules-club, toothache tree, yellow Hercules, yellowthorn, yellowwood, yellow prickly-ash, prickly yellowwood, West Indian yellowwood, sea ash, pepperwood, wild orange.

Habitat and range.—The common, or northern, prickly-ash is common in woods, thickets, and along river banks from Virginia, Missouri, and Kansas northward to Canada, while the southern prickly-ash grows along streams from southern Virginia to Florida and west to Texas and Arkansas.

Description.—(1) The common or northern prickly-ash is generally a shrub from 10 to 12 feet high, rarely exceeding 25 feet. Its leaflets are from 5 to 11 in number and from 1 1/2 to 2 inches long. The greenish-yellow flowers appear about April or May, before the leaves are borne in dense, stemless clusters from the axils of the branches. The branches have brown, cone-shaped prickles, and the bark, leaves, and pods are highly aromatic.

(2) The southern prickly-ash is taller than the northern species, but seldom attains a greater height than 45 feet. Its leaves consist of 5 to 17 leaflets from 1 1/2 to 3 inches long, and its small, greenish flowers appear in June after the leaves are out, borne in large clusters at the ends of the branches. The entire tree is furnished with sharp spines or prickles.

Part used.—The bark of both species.



Figure 87.—Southern, prickly-ash (*Zanthoxylum clava-herculis*)

Yellowroot

Xanthorhiza simplicissima Marsh

Synonym.—*Zanthorhiza apiifolia* L'Her.

Other common names.—Shrub yellowroot, southern yellowroot.

Habitat and range.—Yellowroot grows in woods from southwestern New York to Kentucky and Florida, chiefly in the mountains

Description.—This slightly shrubby plant, 1 to 2 feet high, has compound slender-stemmed leaves 5 to 6 inches long clustered at the summit of the short stem. The leaves consist usually of five thin leaflets 1 to 3 inches long, with sharp, irregular teeth. The small, purplish-brown flowers are produced in spring, borne either singly or in clusters from terminal scaly buds. A characteristic of this plant is the bright-yellow color and bitter taste of its bark and long roots.

Part used.—The roots.



Figure 126.—Yellowroot
(*Xanthorhiza simplicissima*)

Sievers, A.F. 1930. The Herb Hunters Guide. Misc. Publ. No. 77. USDA, Washington DC.

Last update Friday, April 3, 1998 by aw



Xylopia aethiopica (Dunal) A. Rich

Annonaceae

Ethopian pepper

We have information from several sources:

[Identification of the Key Aroma Compounds in Dried Fruits of *Xylopia aethiopica*](#)—A.O. Tairu, T. Hofmann, and P. Schieberle

[New Antimicrobials of Plant Origin](#)—Maurice M. Iwu, Angela R. Duncan, and Chris O. Okunji

Last updated: NaN/NaN/NaN by aw

Yerba Santa

Eriodictyon californicum (Hook. and Arn.) Greene.

Synonym.—*Eriodictyon glutinosum* Benth.

Other common names.—Mountain balm, consumptive's weed,* bear's-weed, gum plant, tarweed.

Habitat and range.—Yerba santa is common on the Pacific coast along the coastal ranges from central California north to Oregon.

Description.—This evergreen shrub, which reaches a height of from 3 to 4 feet, has a smooth stem which exudes a gummy substance. The narrow, dark-green, leathery leaves are from 3 to 4 inches in length and are covered with a resinous substance which makes them appear as if varnished. The rather showy, whitish, or pale-blue flowers are borne in clusters at the top of the plant.

Part used.—The leaves.

*This is a popular but misleading name.



Figure 128.—Yerba santa
(*Eriodictyon californicum*)

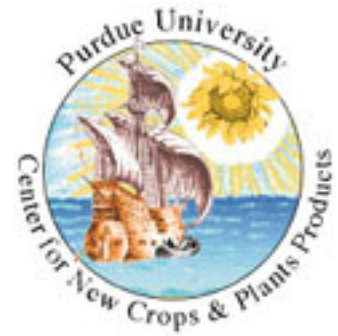
Sievers, A.F. 1930. The Herb Hunters Guide. Misc. Publ. No. 77. USDA, Washington DC.

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Ginger

Jengibre

Zingiberaceae *Zingiber officinale* Roscoe



Source: [Magness et al. 1971](#)

Ginger is a biennial or perennial reed-like herb, grown for the pungent, spicy underground stems or rhizomes. The stems reach a height of 3 feet, with lanceolate, smooth leaves up to 8 inches long. The plants are propagated by small divisions of the rhizomes. A crop of rhizomes can be harvested approximately a year after planting. After harvesting, the rhizomes may be cleaned, washed and dried directly, or they may be peeled before drying. Preserved ginger is prepared from immature rhizomes by washing, boiling successively in sugar and water, and placed in containers in syrup, or dried and rolled in sugar. Ginger is used as a spice or condiment especially in carbonated beverages. Oil of ginger is also extracted from the rhizomes. Ginger is produced in many tropical countries, and has been grown experimentally in Florida; produced commercially in Hawaii 352 tons on 19 acres (1968).

Last update February 18, 1999 by ch

Wormseed

Chenopodium ambrosioides anthelminticum (L.) A. Gray.

Synonym.—*Chenopodium anthelminticum* L.

Other common names.—Chenopodium, American wormseed, Jerusalem-oak.

Habitat and range.—Wormseed occurs in waste places from New England to Florida and westward to California.

Description.—This common weed has a much-branched stem from 2 to 3 feet in height and numerous, lance-shaped leaves, the lower ones 1 to 3 inches in length and the upper ones much smaller. The greenish flowers are produced from July to September in closely crowded spikes mixed with leaves and are followed by small, green, roundish fruits each of which contains a very small black seed. The entire plant has a strong, disagreeable odor due to the volatile oil which is present.

Part used.—The fruit, collected when ripe, and the volatile oil distilled from the fruit or from the entire plant. Wormseed is grown commercially mainly in central Maryland for the production of the oil.*

Information on the extraction of volatile oils from plants is contained in the following publication:
Sievers, A.F. Methods of extracting volatile oils from plant material and the production of such oils in the United States. U.S. Dept. Agr. Tech. Bul. 16, 36 p. illus. 1928.



Figure 123.—Wormseed (*Chenopodium ambrosioides anthelminticum*)

Sievers, A.F. 1930. The Herb Hunters Guide. Misc. Publ. No. 77. USDA, Washington DC.

Last update Friday, April 3, 1998 by aw







California Pepper Tree (Peruvian Pepper Tree)

Schinus molle L.

Anacardiaceae (Sumac Family)

South America

August photo

Plant Characteristics: Dioecious evergreen tree, 5-15 m. high, with slender pendulous twigs; lvs. 2-3 dm. long, alternate, odd-pinnate, long, pendulous, with numerous lance-linear lfts. 3-6 cm. long; fls. in bracteate panicles, small, whitish; calyx short, 5-parted; petals 5, imbricated; fr. reddish, 6-8 mm. in diam.

Habitat: Commonly cult. in Calif., frequently becomes natur., especially in canyons. No bloom dates are printed in the text references. Blooms have been photographed in June and August.

Name: Greek, *schinus*, the mastic tree. Peruvian, *molle*, name for the pepper tree. (Jaeger 157, 231).

General: Uncommon in the study area, having been found only in the Santa Ana Heights flats and along the Delhi Ditch. Photographed specimen is from Santa Ana Heights. (my comments). *Schinus* species have been known to cause hay fever and asthma, also dermatitis. (Fuller 369,379). About 15 species, mostly from South America. (Munz, *Flora So. Calif.* 66).

Text Ref: Hickman, Ed. 136; Munz, *Calif. Flora* 997; Munz, *Flora So. Calif.* 66; Roberts 7.

Photo Ref: June 6 83 # 8; Sept 1 83 # 13; Aug 1 85 # 8.

Computer Ref: Plant Data 130.

Identity by R. De Ruff.

No plant specimen.

Last edit 7/12/00.



June photo (1)



June photo (2)



September photo











