

POTENTIALLY IMPORTANT LEAFY GREENS AND VEGETABLES IN RWANDA

PRACTICAL WAYS OF GROWING LOCAL FOOD PLANTS AND DOING IT WELL



**FOOD PLANT
SOLUTIONS
ROTARIAN ACTION GROUP**

*Solutions to Malnutrition
and Food Security*



The Mustard Seed Institute

A project of the Rotary Club of Devonport North,
and Food Plants International



www.foodplantsolutions.org

Potentially important leafy greens and vegetables in Rwanda



The Mustard Seed Institute

The vision of the Mustard Seed Institute is to be a community-based social enterprise providing practical and sustainable solutions for extreme poverty eradication and peace building through research and innovation, training and skills transfer, mediation and dialogues, in the rural community of Rwankuba, Eastern Province, Rwanda.

The Mustard Seed Institute has partnered with Food Plant Solutions to improve the health and well being of the local community through education and advocacy on agricultural innovations, with a focus on gaining knowledge about which crops to grow in order to lower malnutrition levels amongst the local children.

For further details about the project please contact us at info@foodplantsolutions.org.

We welcome and encourage your support.

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Rotary District 9830 & Food Plants International

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Potentially important leafy greens and vegetables in Rwanda

*Practical ways of growing local food plants,
and doing it well*

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Other publications in this series:

Fruit and Nuts in Rwanda

Good Gardening and Growing Root Crops in Rwanda

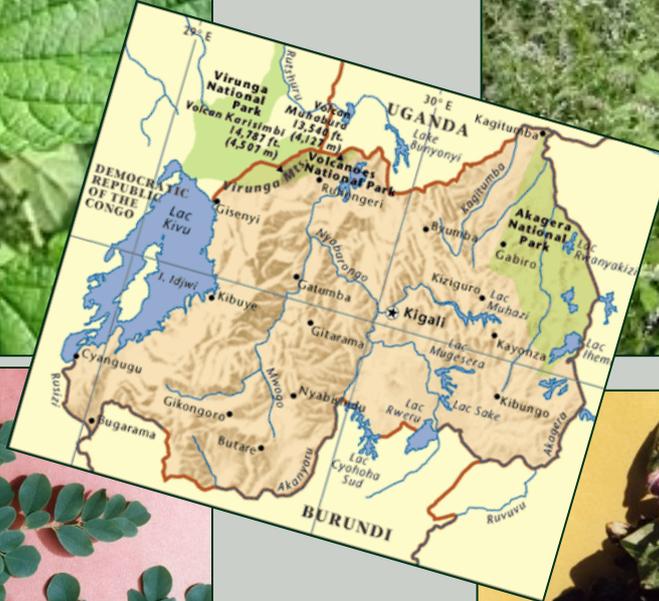
Food Plants for Healthy Diets in Rwanda

Rwanda - country of beautiful leafy vegetables

Maasai stinging nettle



Silver spinach



Moringa



Bean leaves



Leafy greens - the health foods of the nation

Shepherds purse



Indian spinach



Sweet potato



Jute

Using leafy greens

Collect and cook a mixture of leaves



Healthy food



Many edible leafy greens grow around houses and along roadsides.



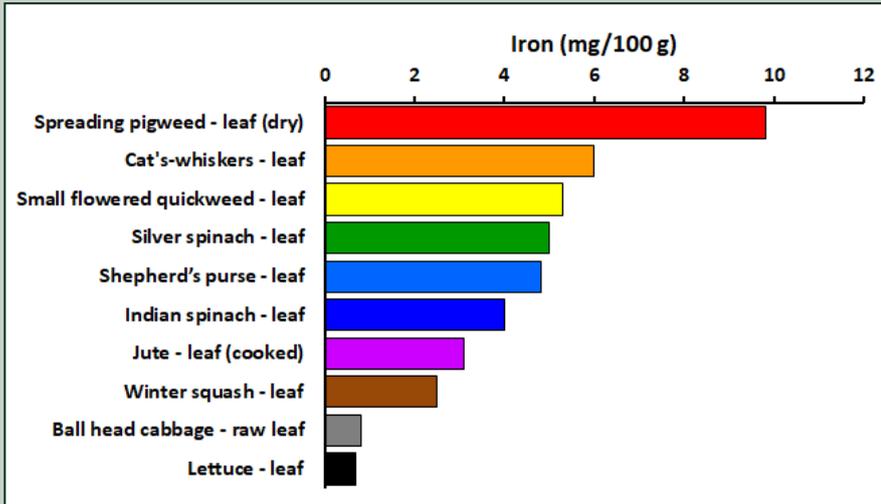
Green leafy vegetables should be cooked.



Healthy people eat leafy greens

- **Many plants have edible leaves.**
- **Edible leaves are nutritious.**
- **Normally, all leaves should be cooked to kill bacteria.**
- **Everybody should eat a cup full of dark green leaves every day to stay healthy.**
- **Some leafy greens can be grown as hedges, in swamps, and on soils around houses to provide a regular daily supply of leafy vegetables.**

Green leafy vegetables - Iron content



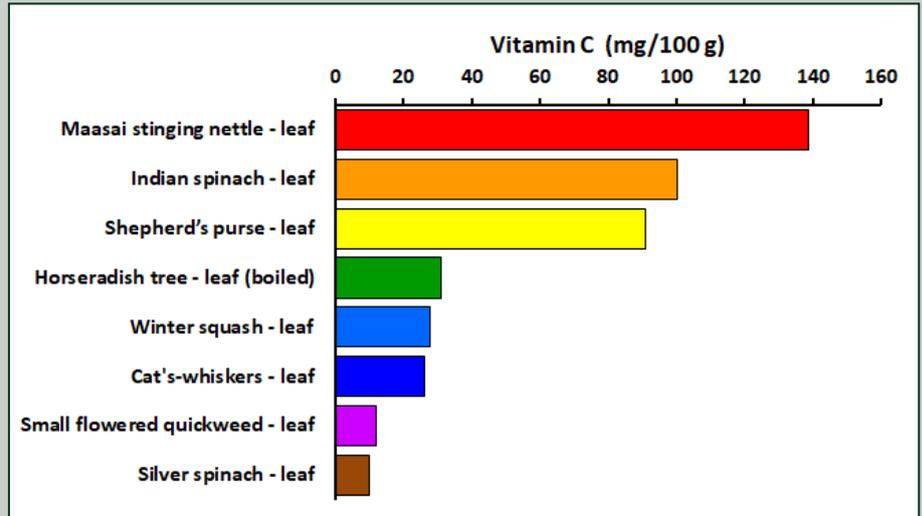
Iron is important, it is what makes our blood red.

Iron helps oxygen get to our lungs. This helps us to have energy to work.

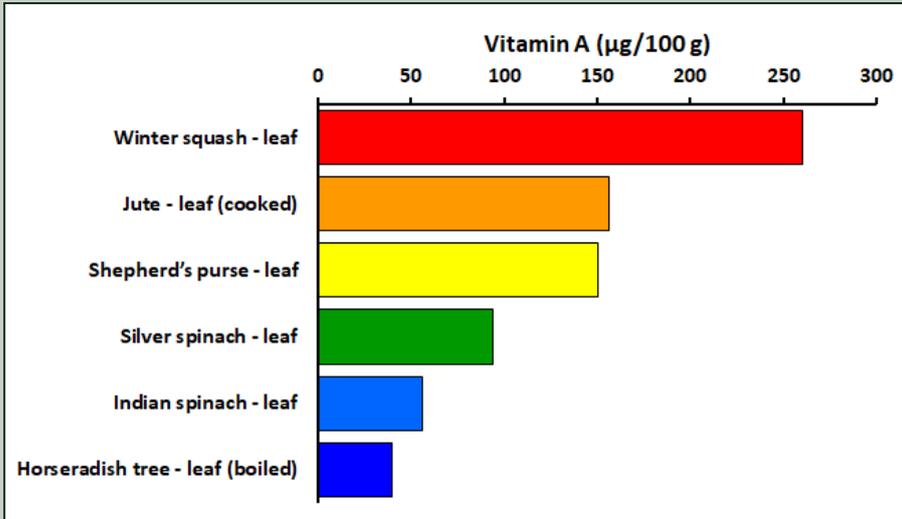
When we are short of iron we are called anaemic. Iron is more available when Vitamin C is also present.

Vitamin C for good health

Vitamin C is important for helping us to avoid sickness.



Vitamin A value of leaves



Winter squash leaf

Vitamin A is very important for eyesight and fighting disease, particularly in infants, young children and pregnant women.

People who are short of Vitamin A have trouble seeing at night.

In plants, this chemical occurs in a form that has to be converted into Vitamin A in our bodies.

Small flowered quickweed - fresh leaves are a good source of Vitamin C

The leaves and the young stems can be eaten
raw or cooked.



Galinsoga parviflora

Amaranth - a quick growing green and a home garden favourite



Scattering seeds in old fire ashes helps plants grow well.



Amaranthus
spp



Cat's whiskers



Leaves can be harvested 4-5 weeks after planting.



Cleome gynandra

Shepherd's purse



Young tender leaves
are eaten.

The leaves are a good source of
Vitamin A.

Leaves can be cooked as a
vegetable or eaten raw in salads.



Capsella bursa-pastoris

Sweet potato leaf



Leaves are edible raw or cooked.

Ground cover or climbing plant.



Ipomoea batatas

Maasai stinging nettle



Young leaves are wilted, boiled and eaten as a vegetable.



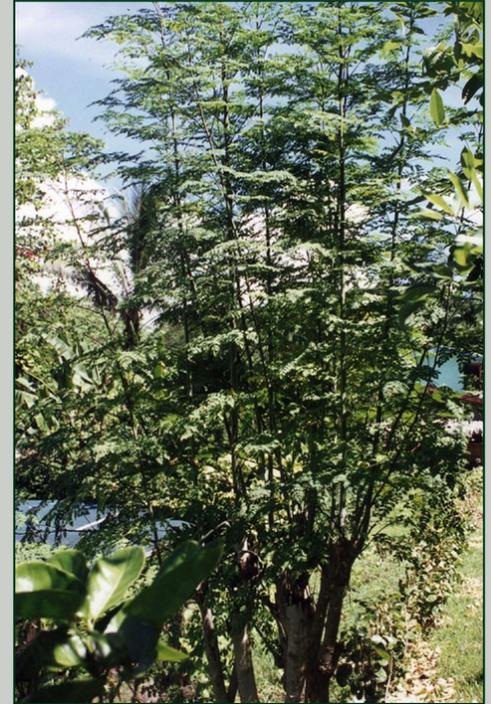
Urtica massaica

Moringa



**A fast growing tree.
The young tops and
leaves are eaten
cooked.**

Moringa oleifera



Cassava



Young leaves are edible after cooking.



Manihot esculenta

Indian spinach



The leaves can be fried, steamed and used in soups and stews.

It grows up fences, sticks or over stumps.



Basella alba



Taro leaf

A good quality delicacy.

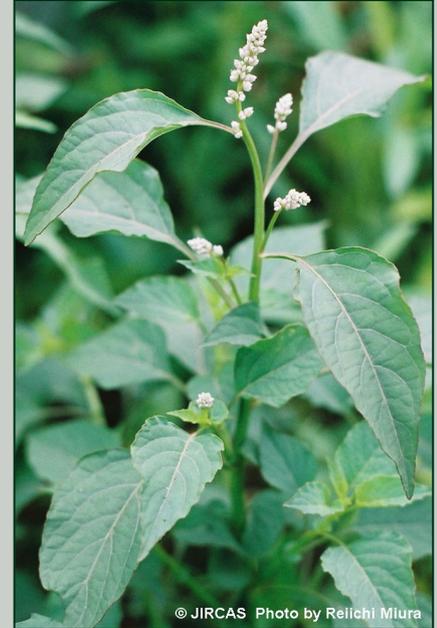


Colocasia esculenta



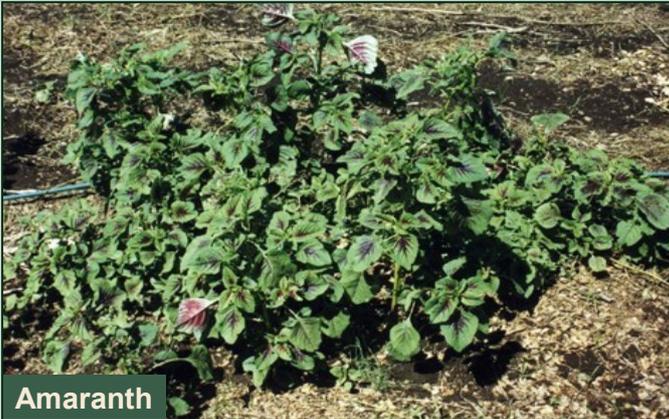
Silver spinach

The young shoots and leaves are cooked and eaten.



Celosia trigyna

Leafy greens of Rwanda



Amaranth



Bitter cucumber leaf



Moringa

Dark green leaves should be eaten daily.

They should be cooked and can be steamed, fried or boiled.



Indian spinach

Edible leaves



Taro



Peanut leaf



Jute



Pumpkin leaf



Cantaloupe leaf

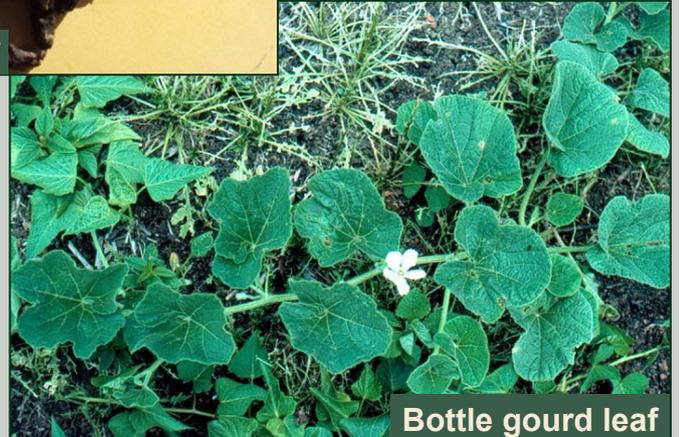
Edible leaves



Bean leaf



Silver spinach



Bottle gourd leaf

Edible leaves



Pigeon pea



Cassava



Egyptian sesban

Plant poisons

Some foods contain substances that can cause illness. Check preparation methods before eating. Some examples are:

- **Bacteria on leaves can cause stomach upsets. Food should be cooked to kill bacteria.**
- **Cyanide is a poison commonly found in plants (e.g. cassava). It makes them bitter, but is destroyed when food is well cooked.**
- **Oxalates are common in plants (e.g. taro). They are sour and can burn the throat. Changing the water during cooking can reduce oxalates.**
- **Plants can accumulate nitrates that are poisonous to children. This happens when excess nitrogen fertilisers are added to some leafy vegetables (e.g. amaranth).**

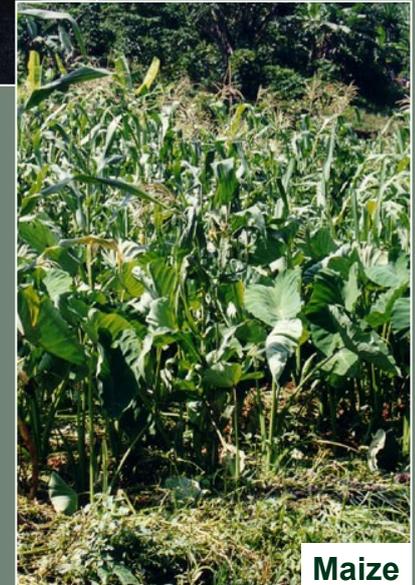
Vegetable foods of Rwanda



Bottle gourd



Angled loofah



Maize

Vegetables for variety and nutrition

Some vegetables and edible leaves should be planted near houses so they are easily available, even on wet days, or when people can't get to distant gardens.



As some vegetables only grow in certain seasons, families should plant a wide range to provide food all year.

Vegetables - nutritious and tasty



Mung bean



Scarlet runner bean



Eggplant

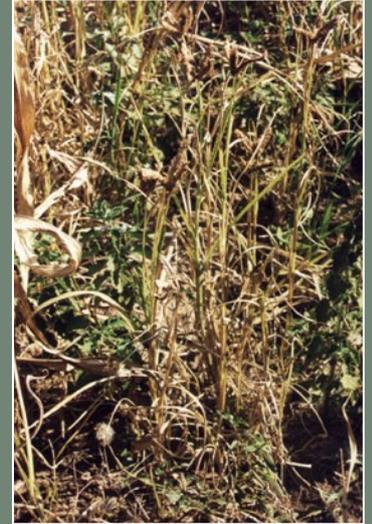


Marrow

Finger millet - versatile seeds



The seeds can be roasted or ground into flour.



Eleusine coracana

Eggplant

The fruit can be eaten fried, gilled, baked, stuffed or stewed.

They can also be dried for storage.



Solanum melongena



Bitter cucumber



Momordica charantia

The young, bitter fruit can be boiled, stuffed, fried or pickled.



The leaves are also eaten.

Soaking seeds for 24 hours before planting improves germination.



Pumpkin

The fruit can be baked, boiled, fried, steamed or mashed.



Cucurbita maxima

Scarlet runner bean



A climbing bean that can re-grow from the tubers.

Phaseolus coccineus



Bottle gourd



Young fruit can be boiled, steamed, fried or pickled. Young tips and leaves can be eaten.



Lagenaria siceraria



Peanut

Grows best in dry areas.

Seeds can be eaten raw or cooked.



Arachis hypogea

Pigeon pea - a shrub with edible seeds and leaves

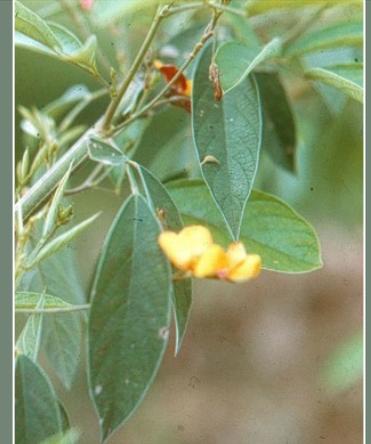


Pigeon pea has deep roots that recycle nutrients and help it to grow in drier places. Being a legume it puts nitrogen into the soil.



The leaves, pods, seeds and sprouts can all be cooked and eaten.

Cajanus cajan



Sorghum

Sorghum bicolor



The seed is eaten as cereal and ground to make flour. It is used for dumplings, fried cakes and drinks.

Acknowledgements



The Mustard Seed Institute

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Review, layout and formatting – Lyndie Kite, John McPhee and Executive Officer Karalyn Hingston

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