

Moringa - The Miracle Food by Bibhas Nag - CEO / Founder - GreenTechs GreenFoods

"The hardest thing to see is what is in front of your eyes."

- Goethe

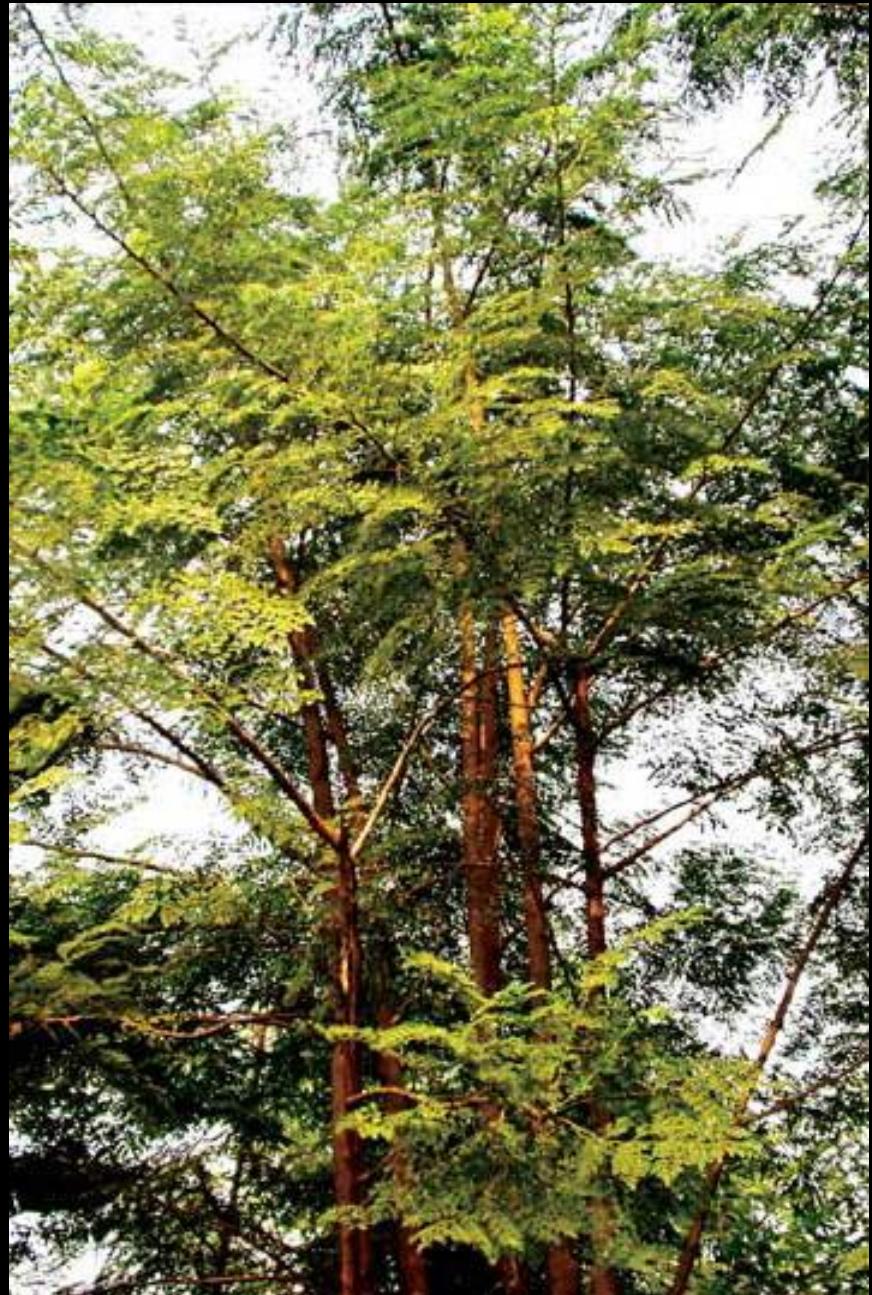
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These leaves could
save millions of lives.

The Moringa Tree

Moringa oleifera





Varieties

Thirteen Moringa species are known:

- M. oleifera*
- M. arborea*
- M. borziana*
- M. concanensis*
- M. drouhardii*
- M. hildebrandtii*
- M. longituba*
- M. ovalifolia*
- M. peregrina*
- M. pygmaea*
- M. rivae*
- M. ruspoliana*
- M. stenopetala*



Moringa Knowledge in the Ancient World

Ancient World Knowledge

Scientific Knowledge



Nutritional Value



=

Tiny leaves.

Enormous Benefits.

7 times the Vitamin C of Oranges



4 times the Vitamin A of Carrots



4 times the Calcium of Milk



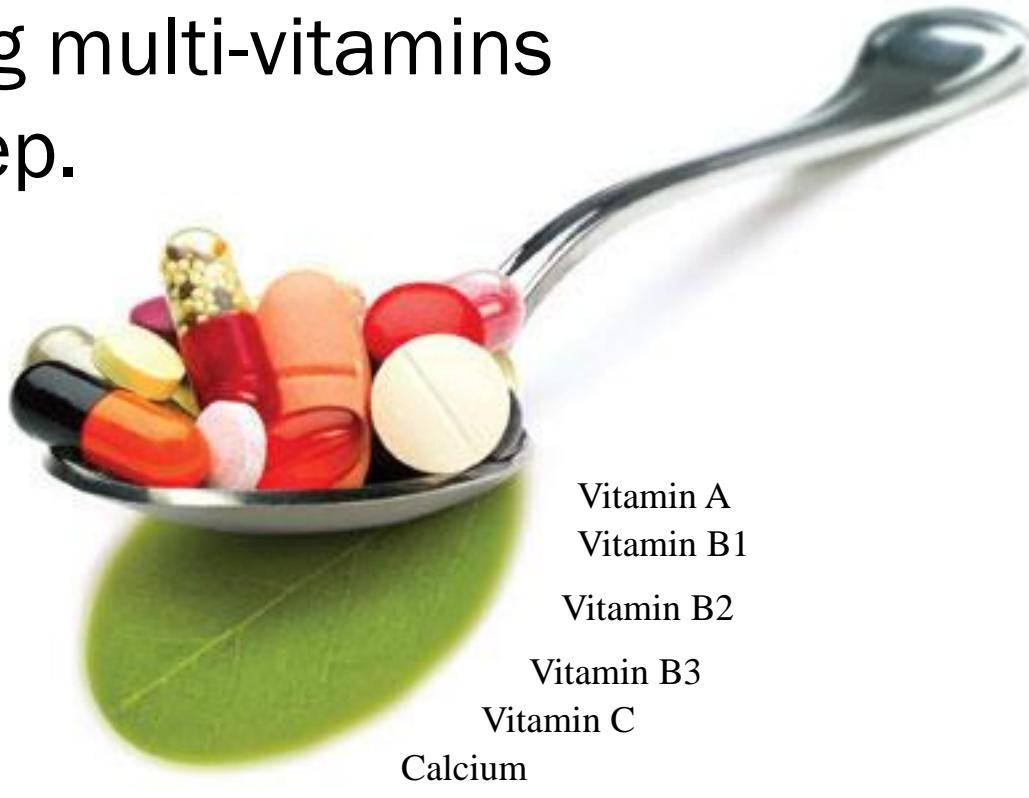
3 times the Potassium of Bananas



2 times the Protein of Yogurt



It's like growing multi-vitamins at your doorstep.



Vitamin A

Vitamin B1

Vitamin B2

Vitamin B3

Vitamin C

Calcium

Chromium

Copper

Iron

Magnesium

Manganese

Phosphorus

Potassium

Protein

Zinc

Rare for a
plant source,

Moringa leaves
contain all
the essential
amino acids...

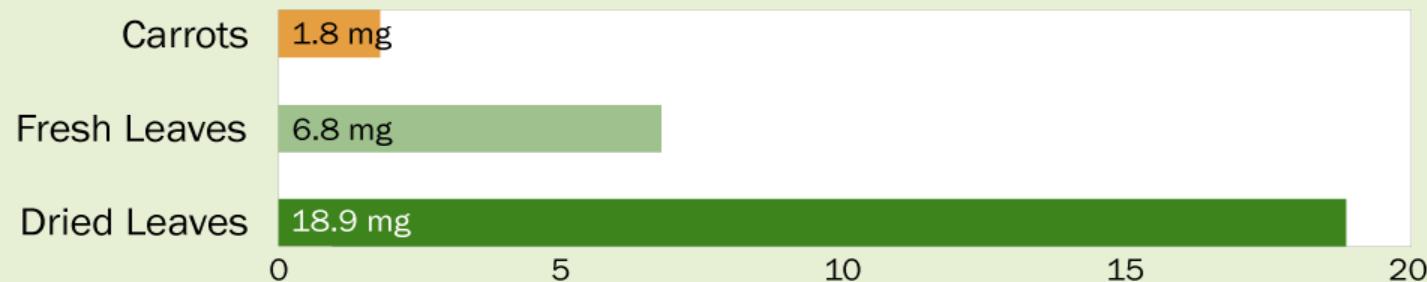


...to build
strong, healthy bodies.

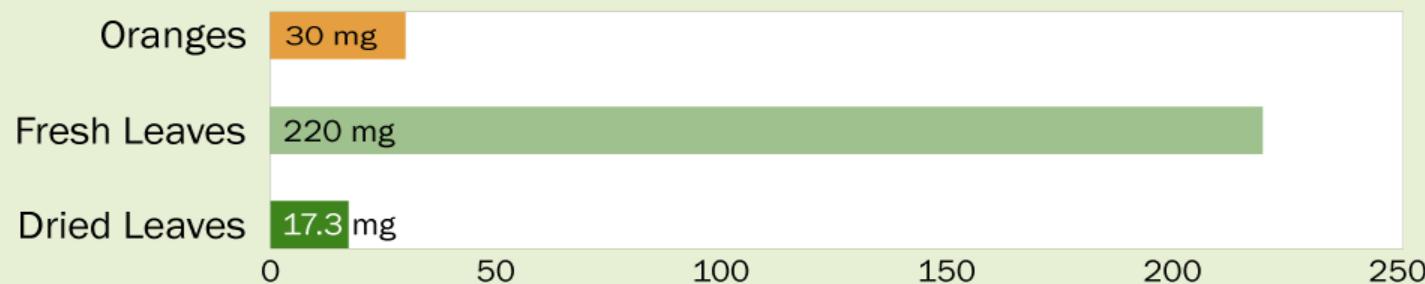


Moringa even contains *arginine* and *histidine*—two amino acids especially important for infants.

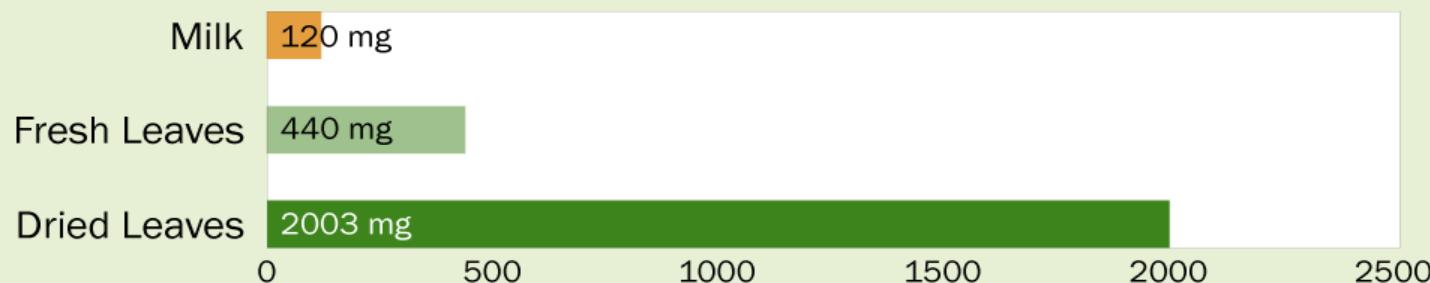
Vitamin A



Vitamin C

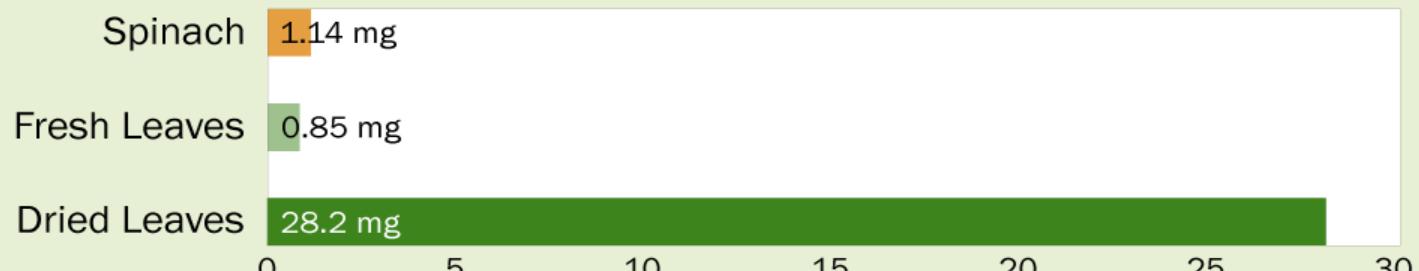


Calcium



Fresh leaves and common foods¹, Dried leaves²

Iron



Note: Iron from plants, including spinach and Moringa, is generally difficult for the body to absorb.

Potassium



Protein



Common Names for Moringa

(See more at: treesforlife.org/moringa/names)

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Malnutrition
Moringa

Leaves:
Nutrition
Medicine



Trees:
Alley Cropping
Erosion Control



Flowers:
Medicine



Pods:
Nutrition
Medicine



Consider the Possibilities



Roots:
Medicine



Seeds:
Water Purification
Medicine
Oil



Gum:
Medicine



Bark:
Medicine



Moringa's Potential

- Human Health
- Livestock Fodder
- Plant Growth Enhancer
- Biogas

Human Health



Test in Senegal

Conducted by:

- **Mr. Lowell Fuglie,**
Church World Service in
Dakar
- **AGADA**
(Alternative Action for
African Development)



A photograph of a young woman with dark skin and curly hair, wearing a yellow short-sleeved top and a necklace, holding a baby in her arms. The baby is wearing a patterned onesie. They are indoors, with a wooden shelf and some items visible in the background.

Test in Senegal

Results:

- **Children** maintained or increased weight and improved health.
- **Pregnant women** recovered from anemia and had babies with higher birth weights.

Research in Nicaragua

Nikolaus Foidl

Leonardo Mayorga



Dr. Nadir Reyes Sánchez



Intensive Cultivation













Livestock Fodder

Increases daily
weight gain
up to **32%**

Increases milk
production
43% to 65%



Plant Growth Enhancer

Plant Growth Spray

- Extract juice from green matter
- Dilute with 36 parts water
- Spray 25ml on each plant









Effects of Spray

- Accelerates growth of young plants
- Plants are firmer, more resistant to pests and disease
- Longer life-span
- Heavier roots, stems and leaves
- Produce more fruit
- Larger fruit
- Increase in yield 20-35%

Bell Pepper



Spray

Control

Sugar Cane Roots



Spray



Control

Sorghum



Spray

Control

Turnips



Freeze Dried
Spray

Control

Spray

Biogas



Need for Studies

- Human Health
- Livestock Fodder
- Plant Growth Enhancer
- Biogas

How to Help

- Share this information with key decision-makers in your country.
- Promote field studies and clinical studies in your country.
- Share your findings with the rest of the world.

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**Moringa oleifera: A Review of the Medical Evidence for its Nutritional, Therapeutic, and Prophylactic Properties- Part 1.**
Jeff W. Falley, Sc.D.

**Trees for Life Journal: A Bridge Between Science and Traditional Knowledge.**
Balbir S. Kather

**Trees for Life Journal: A New Adventure in Service**
Jeffrey Fenns

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Consider the Possibilities



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