

E R G O F I T O I N A C T I O N

Give Nature What Nature Wants

Palm Trees and Dates



ERGOFITO

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DATE PALM

The Date Palm is a tree. This fruit is called a Date. The tree is between 15m and 25m high. It has long leaves that look like feathers. Such leaves are called pinnate. The leaves can grow to 3–5 meters in length. There are about 150 leaflets. Each leaflet can be up to 30 cm in length and 2 cm in breadth. The full span of the crown of the tree is 6 to 10 meters. The tree has one or more trunks, that all come from a single system of roots.

DATE PALM TREES NUTRITIONAL REQUIREMENTS:

A date palm tree requires relatively great amounts of micronutrients to achieve a good growth and to realize economical production. Fertilization and rhizosphere management are therefore important practices to increase dates production and fruit quality.

Element	Quantity
N	1,5 Kg Per Tree
P	0,05 Kg Per Tree
K	0,35 Kg Per Tree

The above is the recommended dosage; please note that it is an indication only. There are many variants in soils and fertilization. Ensure that the full spectrum of micronutrients is available to the plant in the correct quantity.

DATE PALM TREES APPLICATION:

PRODUCTIVE TREES:

Productive trees will benefit from a balanced rhizosphere with the correct beneficial microbial activity.

Yearly application:

Apply once a year on the ground around the tree, in the diameter of the canopy the following:

Bio Agent	Quantity	Area
Ergostart Bio	150 Kg	Per Hectare

The above is applied with sufficient water, generally diluted 1:50, (1Kg product to 50 liters of water). **Ergostart Bio** will immediately start decomposing all inert organic matter into plant food. More important it will de-mineralize any accumulation in the rhizosphere that is and has suffocated the soil. It will start by converting all of the above into humus, thus rejuvenating tired soils and allow normal and healthy roots development.

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The following should be applied per year over and above the ground preparation.

Bio Agent	Quantity	Area
Ergofito Universal Plus	30 Kg	Per Hectare
Ergofito Algae	15 Kg	Per Hectare

The above application will ensure a superior growth and a strong preventive defense against plant sicknesses and parasitic attacks.

SPECIFIC APPLICATIONS:

Ergofito has a series of specialized products, such as **Ergofito Boron**, **Ergofito Stim**, **Ergofito Glucose etc.**, which targets specific fruits results. Brix content will increase with the above recommended applications; however colour, skin type and other requirements may be needed. *(Please contact **Ergofito** for any technical information).*

Soil exhaustion is the main culprit of low yields in tree plantations.

Soil Exhaustion

Plants send out explorer roots to identify nourishing soil. They use a capillary element (a root hair), which explores a very small space (micro-habitat) and samples the nutrients available. If there is only enough 'food' for one root hair the plant deposits toxins along the exterior surface of this space to stop the occupied area from being explored by other capillary elements.

When the food is finished the plant makes the microhabitat toxic and sheds off its root hair. This prevents other root hairs from exploring soil that has been exhausted. Through chemical fertilization you can replenish the nutrients in the spaces but if there is not sufficient bacterial activity to detoxify the soil, these areas will still be avoided by new roots. This is why it is possible for the efficiency (nutrients absorbed by plant nutrients applied to land) of chemical fertilizers to be below 15%.

Ergofito contains the enzymes and bacteria that destroy these toxins and they actually transform the poison back into food for plants. This emulates the properties of non-agricultural land that is full of organic material, high in microbiological activity and does not get affected by soil tiredness. The same applies to any soil rich in humus. Soil exhaustion does not occur where humus is present.



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