

**EST**



**2020**

# NATURE IS LIFE

## INSTRUCTIONS FOR GUANO FERTILISER USE

### What Is Guano?

Guano is an organic plant super food consisting of bat or bird droppings, broken eggs and urine that's rich in the major NKP: nitrogen, phosphorus and potassium elements which are found in synthetic fertilizers.

These major elements aid in stem, flower, root, fruit and yield development and are accompanied by the trace elements calcium, zinc, magnesium, copper and manganese. These aid in the absorption and processing of the major elements to make plants strong and immune to parasites.

In it are also microbes that feed on parasites, pests and bad bacteria in the soil. They also diet on the bird droppings, digesting it and releasing their own excretion which provides the mineral salts required by plants. In the process increasing soil life, improving soil structure, water retention and fertility.

### How To Use Guano?

You use Guano like a top dressing or you can soak it in water and make a guano tea which you can use on your crop as water based fertilizer or folia on your crop leaves.

#### 1. Top Dressing

**Broadcast 50kg - 100kg of Guano per hectare evenly on either non-tilled but cleared land for zero tillage cultivation, or you can apply it to tilled land where you intend to plant, one to two weeks before planting.**

**Rationale: Guano is a slow-release fertilizer, so you want it to start conditioning your soil and allowing minerals to percolate even before planting your crop.**

**After planting your crop, allow it to germinate. Then apply 5gm per plant (if you used 50kg - 100kg for broadcasting) and 10gm (if you used 25kg - 50kg for broadcasting) within a 5 cm radius around your plant. Do not apply directly to the plant.**

**Repeat the process of using 5gm - 10gm per plant at flowering.**

**Ensure adequate watering after applying guano. Do not let the crop become dry, as it may lead to burning.**

You may use any amount ranging from 25kg to 200kgs of

guano per hectare (as required by your crops), and you will achieve positive results with your crops.

Test your soil or monitor and observe the performance of your crop's to determine the required organic fertilizer amount.

#### 2. Liquid Tea Form (Guano Tea)

Mix a 350 ml cup into 1 gallon of water, and scale it to make as many liters as you need. Let it sit overnight and then strain.

#### How to Apply Gunao Tea.

Apply it directly to the leaves as a foliar spray and to the roots. Use it all; do not keep it for more than 24 hours because it loses its microbes.

Apply with fine a spraygun as regularly as twice a week on your crops if you wish. This will introduce bacteria into your soil and improve soil conditioning, ultimately reducing the amount of fertilizer you need in your soil over time.

#### Contents.

Macro Element (NPK).

The fertilizer contains essential macro elements NKP:

- Nitrogen: 6-10%
- Phosphorous: 16-25%
- Potassium: 1-3%

These elements strengthen the roots, stem, leaves, and flowering of your plants, making them less susceptible to pests, diseases, and droughts.

#### Trace Elements

Guano also contains trace elements like copper, magnesium, zinc, calcium, and manganese that aid in the absorption of the primary NKP elements.

#### Hummus and Living Organisms

The remaining components of guano include humus, leftover materials digested by the birds, and living bacteria. These elements help in reducing soil parasites and pests on crops.

Guano made by nature is life, a product of Vana Va Mutapa Heirloom Foods which operates under Bereza Group.