

How to Grow Cocoa - Pro-Plant Only (Per Acre)

Stage When to Use the Bio-fertilizers	How to Use Them	Benefits
1. Nursery Stage: Growing Seedlings Months 1-2	<ul style="list-style-type: none"> As the seedlings grow, spray 100 cc of Pro-Plant mixed with 100 litres of water every 15 days. Spray with a fine, hazy spray before about 9 AM. Direct the spray diagonally upwards so that the spray hits the underside of the leaves as well because this is where the pores (stomata) are. Be thorough and generous when you spray. 	<ul style="list-style-type: none"> Pro-Plant protects the seedlings from disease. Pro-Plant coats the leaves with micro-organisms, which help to prevent disease.
2. Transplanting Month 3	<ul style="list-style-type: none"> Continue to spray 100 cc of Pro-Plant on the leaves every 15 days. 	<ul style="list-style-type: none"> This will add disease protection and increase the multiplication of micro-organisms around the plant.
3. Planting Shade Trees	<ul style="list-style-type: none"> Provide shade for the saplings. Spray the leaves of the shade trees with Pro-Plant mixed with water. The frequency depends on the type of shade trees. Spray 500 cc of Pro-Plant with 500 litres of water once per month. 	<ul style="list-style-type: none"> Pro-Plant's nutrients are instantly usable by the leaves. Spraying Pro-Plant also adds nutrients to the soil.
4. Growth Stage: Months 12-24	<ul style="list-style-type: none"> Spray 500 cc of Pro-Plant with 500 litres of water once per month. 	
5. Growth Stage: Months 25-30	<ul style="list-style-type: none"> Spray 500 cc of Pro-Plant with 500 litres of water once per month. 	
6. Flowering and Fruiting Stages: Apply Pro-Plant	<ul style="list-style-type: none"> Start to spray 500 cc of Pro-Plant mixed with 500 litres of water twice a month as the buds appear and before the flowers appear. Continue to spray like this on the buds and flowers during the flowering stage until shortly before harvest. You should spray Pro-Plant: <ol style="list-style-type: none"> 1) Before the flowers form. 2) When the buds have formed, but not opened. 3) When the flowers have opened fully. 4) When one-third of the flowers have fallen off. 5) When the pods have formed. 	<ul style="list-style-type: none"> Pro-Plant provides an abundance of instantly usable nutrients to increase flowering and fruiting. The trees will receive adequate Calcium, Potassium and Phosphorus, if the farmer sprays Pro-Plant often. Spraying Pro-Plant during the fruiting stage reduces the competition for nutrition resources amongst the pods as they mature. The abundance of nutrients will increase flowering and fruiting by providing more nutrients when they are needed. The pods will be shinier, larger, and of greater quality. Usually in trees the use of the bio-fertilizers reduces the number of flowers which drop off before turning into fruit. Pro-Plant coats the leaves and flowers with micro-organisms, which prevent disease.

Number of Litres of Pro-Plant to Grow Cocoa over an Acre

1. Pro-Plant

Months 1-3:

- Spray 100 cc mixed with 100 litres of water twice a month every 15 days.
- **Total: 600 cc in the 3 months.**

Months 4-6:

- Spray 200 cc mixed with 200 litres of water twice a month every 15 days.
- **Total: 1.2 litres in the 3 months.**

Months 7-12:

- Spray 300 cc mixed with 300 litres of water twice a month every 15 days.
- **Total: 3.6 litres in the 6 months.**

Months 13-24:

- Spray 500 cc mixed with 500 litres of water once a month.
- **Total: 6 litres in the 12 months.**

Months 25-30 (and beyond):

- During the flowering stage and fruiting stage spray 500 cc mixed with 500 litres of water every 15 days.
- **Total: 1 litre per month. 6 litres in the 6 months.**

Months 1-30

- **Total: 17.4 litres in the 30 months.**

Notes:

1. The dosage and frequency of spraying above assumes that the soil is poor in fertility and lacking nutrients.
2. Pro-Plant should be mixed with water and sprayed with a hazy, foggy spray before 9 a.m., which is until when the stomata are open the widest.
3. If the spray head produces a heavy spray, then the amounts below will have to be increased. For example: 100 cc in 100 litres of water might have to be increased to 150 cc in 150 litres of water.
4. Spraying Pro-Plant twice a month during the fruiting stage is very advantageous because the cocoa pods will then receive a lot of Calcium, which will help to increase the yield and quality.
5. The amounts shown are the minimum amounts. If you wish to spray more, increase the water accordingly. For example, if you wish to spray 600 cc of Pro-Plant per acre instead of 500 cc in order to provide more nutrients, increase the amount of water to 600 litres. 1 litre of Pro-Plant can be mixed with 1,000 litres of water. This volume is suitable for a hectare of trees.