

Reap Z is bio-fertilizer based on selective strain of beneficial autotrophic, acidophilic bacteria *Thiobacillus thioxidans*, which solubilizes un dissolved Zinc in the soil and make it available to plant. This bacterium is capable of mobilizing required Zinc to target crops to the extent of 45% - 50 % there by increasing the yield by 15% - 25%. This reduces the dosage requirement of Zinc benefits the next crop also due to its residual effect. Reap Z can be used as an effective component in Integrated Nutrient Management, thereby leading to a reduction in use of chemical fertilizers and creating a safer environment.

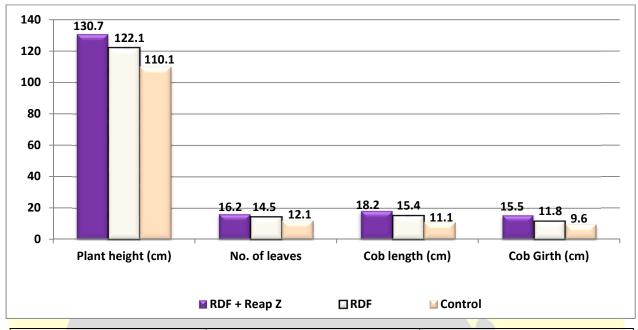
Reap Z; Zinc solubilizing Bacteria

Zinc (Zn) is one of the essential micronutrients required for optimum plant growth. Substantial quantity of applied inorganic zinc in soil is converted into unavailable form. Reap Z Microbes are potential alternate that could cater plant zinc requirement by solubilising the complex zinc in soil. These bacteria also exhibit other traits beneficial to plants, such as production of phytohormones, antibiotics, siderophores, vitamins, antifungal substances, and hydrogen cyanide.

Important in plant growth and development

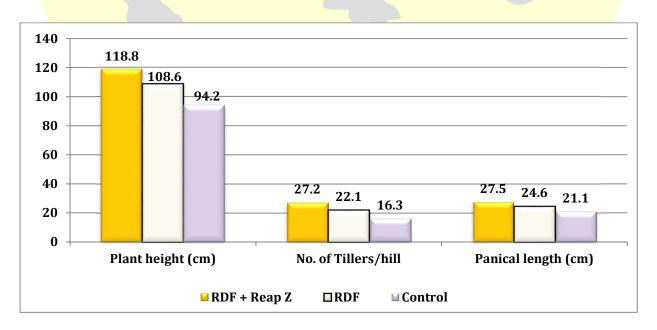
Zinc is a key constituent of many enzymes and proteins. It plays an important role in a wide range of processes, such as growth hormone production and internodes elongation. Hence Reap Z has important role in growth and development of plant.

Effect of Reap Z on growth and yield parameters of Maize



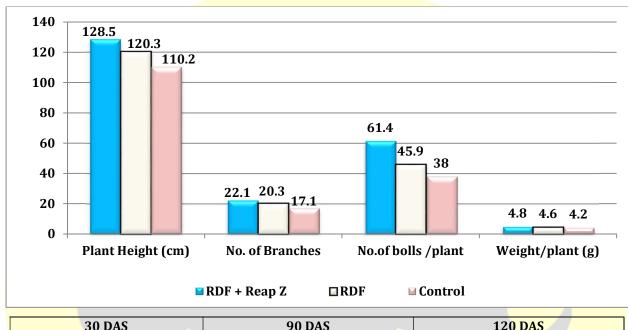
00 Days	60 DAS	120 DAS
Seed treatment	Drenching	Result

Effect of Reap Z on growth and yield parameters of paddy



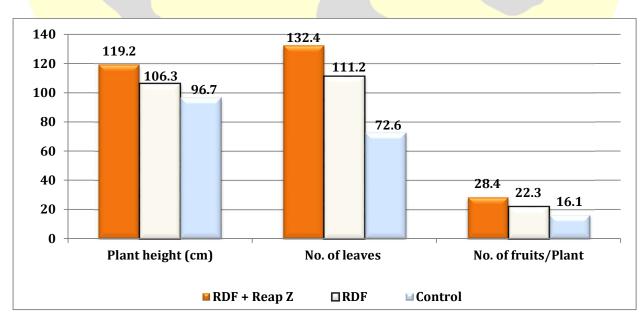
At Transplanting	60 DAS	120 DAS
Seedling treatment	Drenching	Result

Effect of Reap Z on growth and yield parameters of Cotton



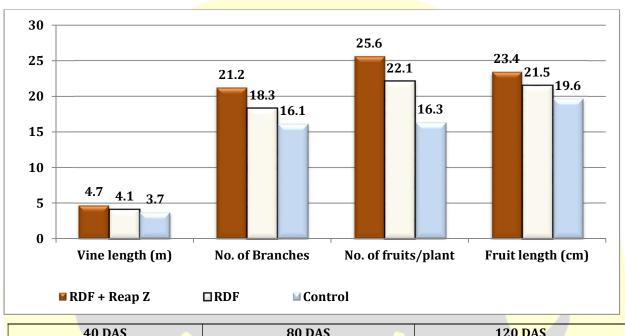
30 DAS	90 DAS	120 DAS
1st Drenching	2 nd Drenching	Result

Effect of Reap Z on growth and yield parameters of Tomato



At Transplanting	30 DAS	90 DAS
Seedling treatment	Drenching	Result

Effect of Reap Z on growth and yield parameters of Bitter Gourd



40 DAS	80 DAS	120 DAS
1st Drenching	2 nd Drenching	Result

Important in Plant metabolism

Zinc plays major role in carbohydrate metabolism, both in photosynthesis and in the conversion of sugars to starch, protein metabolism, auxin - growth regulator, metabolism, pollen formation, the maintenance of the integrity of cell wall and the resistance to infection by certain pathogens. Reap Z also secrets lot of enzymes and organic acids, which stimulates plant growth, resulting in more crop production.

Improves soil health

Reap Z avoids soil erosion thereby helping in the conservation and improvement of soil structure and fertility. The increase in the beneficial microbe population in soil improves soil health.

Use in conventional, sustainable and organic production systems

Reap Z can be used in conventional, sustainable & Organic production systems for the improvements in soil & plant health to maximize the yield. It is recognized as fully compliant for use on organic crops.

Proven performance

Many research trials have shown that soil application of Reap Z have very significant effects on growth & yield of various crops.

Environmental safety

Reap Z is Earthworm friendly, pet friendly, ecofriendly, infant friendly & does not disturb ecological balance.

HIGHLIGHTS

Effectively mobilizes unavailable zinc ions and make it assimable by plants

Reduces the dosage requirement of synthetic Zinc fertilizers

Encourages the soil health and soil fertility

Improves the yield and quality of produce

For use in conventional, sustainable and organic production

Environmentally safe

Be in touch with your Retailer or Green Earth Team member.
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