



REAP[®]-K

रीप-क

REAP K based on selective strain of Potash mobilizing bacteria which helps to mobilize the potash near to root zone and make available to plants. Reap K works well in all types of soil especially, low K content soil. Use of Reap K can increase the availability of more potash in usable form to the plants. It assimilate Potash to the extent of 20-50 Kg/ha in the soil.

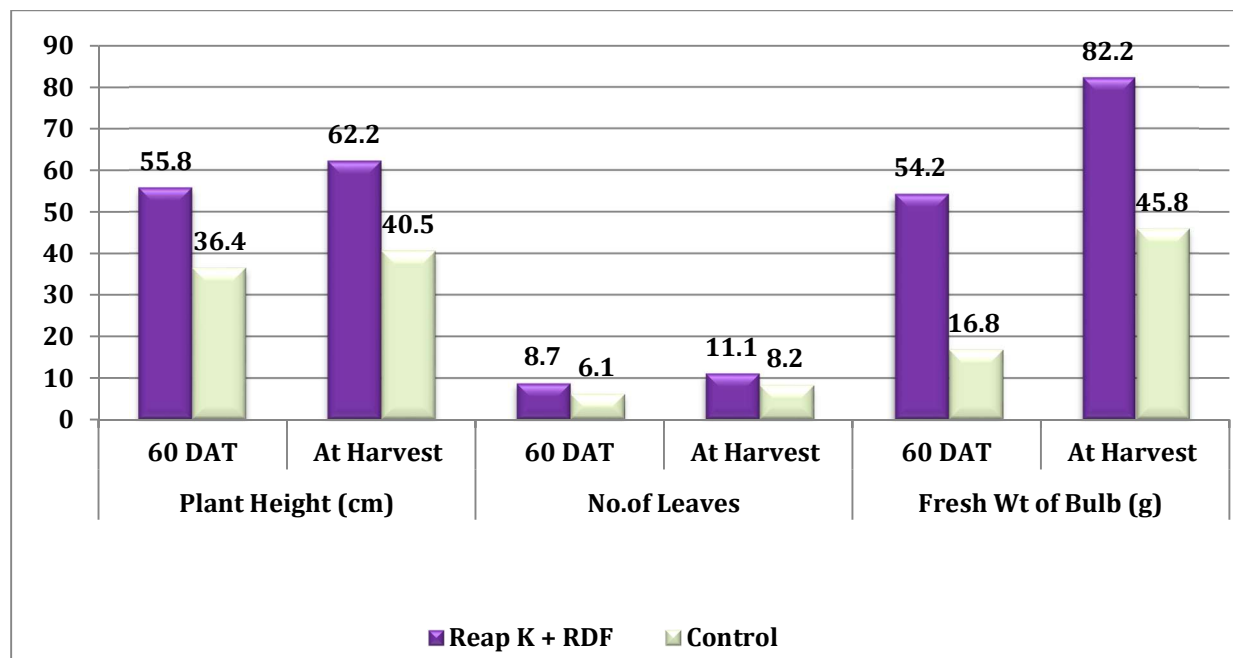
Reap K; Potash Mobilizing Bacteria

Potassium (K) is very essential for plant growth, yield quality and quantity and is usually found abundant in soil. K₂O content in soil ranges between 300 to 400 kg/ha in the Indian soil profile. Of this total K content 98% remains bound in the mineral form whereas 2% is in soil solution and exchangeable phases. Reap K effectively mobilizes this unavailable potassium and supplements it to plants to the extent of 20 to 50 kg/ ha.

Important in plant growth and development

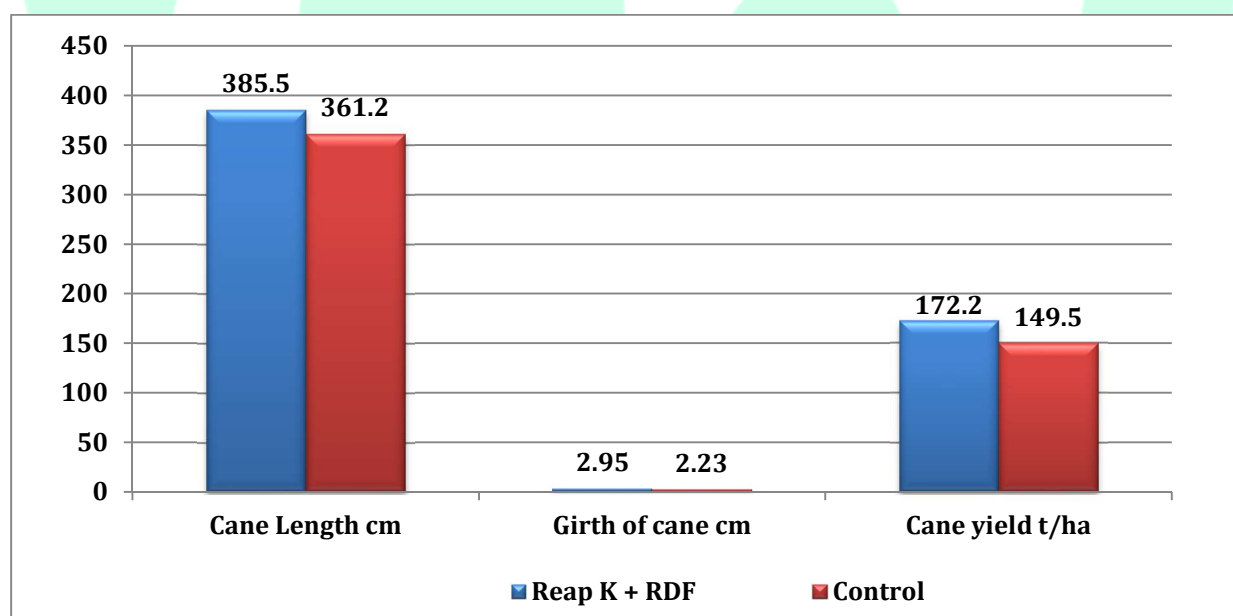
Potassium plays a vital role in the formation of amino acids and proteins from ammonium ions, which are absorbed by roots from the soil. It is also responsible for the transfer of carbohydrates, proteins etc. from the leaves to the roots. It plays a vital role in the uptake of other elements like nitrogen, phosphorous and calcium.

Effect of Reap K on Growth and yield parameters of Onion



| | | |
|-----------|------------------------|------------------------|
| 20 DAT | 60 DAT | At Harvest |
| Drenching | 1 st Result | 2 nd Result |

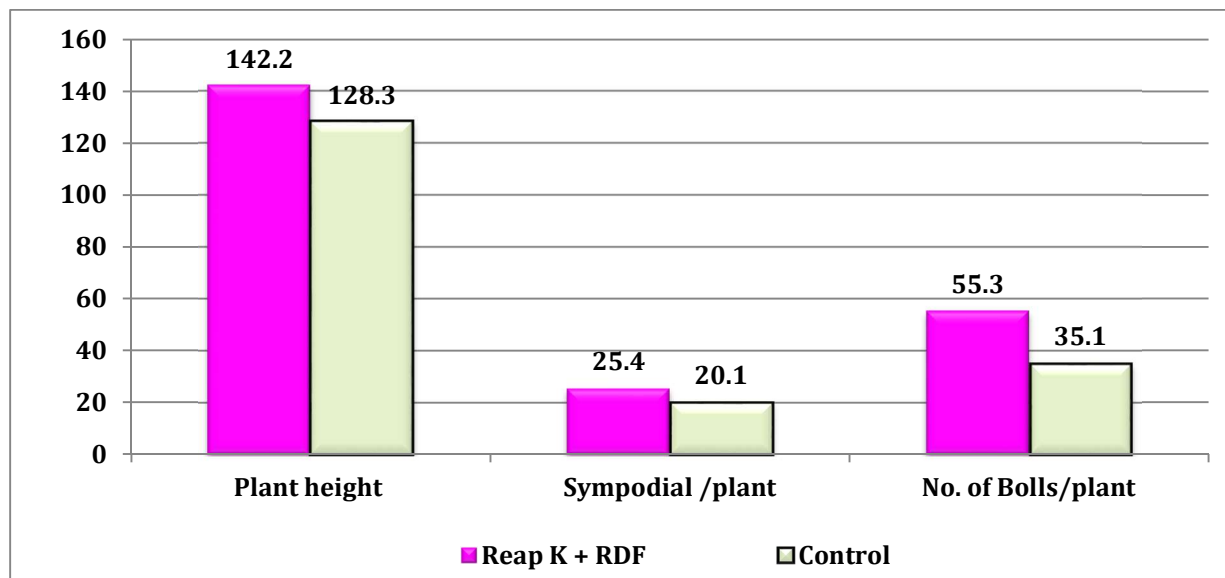
Effect of Reap K on growth and yield of sugarcane



| | | | | |
|--------|--------|---------|---------|---------|
| 0 Days | 90 DAP | 180 DAP | 300 DAP | 390 DAP |
|--------|--------|---------|---------|---------|

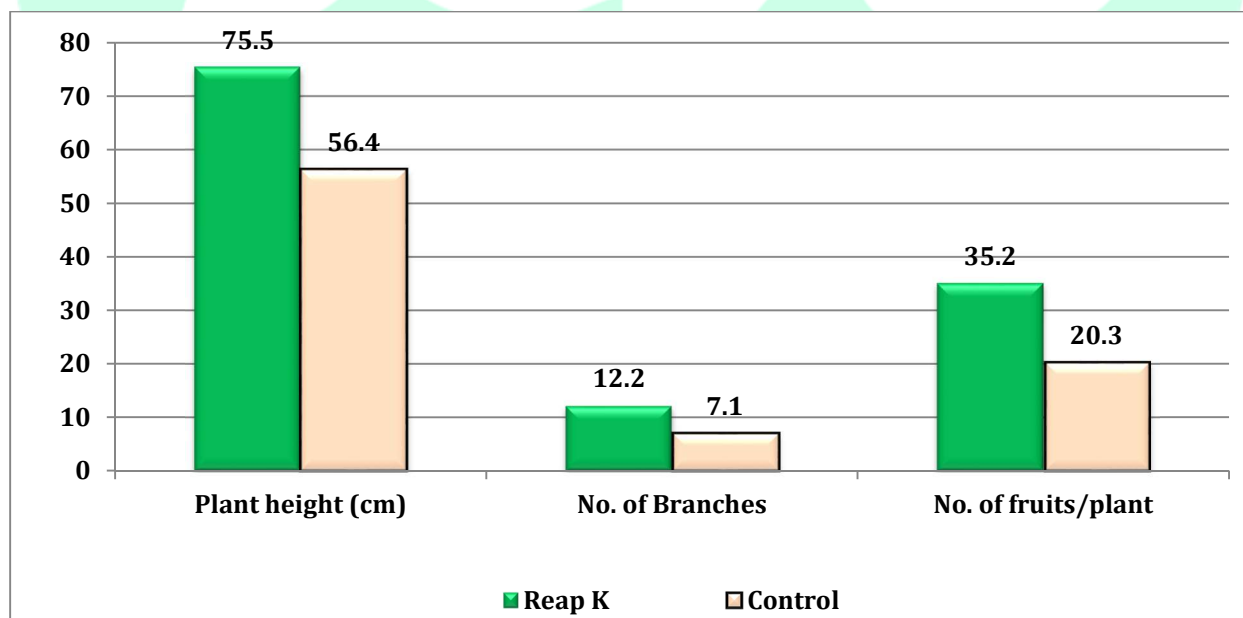
| Setts treatment | 1 st Drenching | 2 nd Drenching | 3 rd Drenching | Result |
|-----------------|---------------------------|---------------------------|---------------------------|--------|
|-----------------|---------------------------|---------------------------|---------------------------|--------|

Effect of Reap K on growth and yield parameters of Cotton



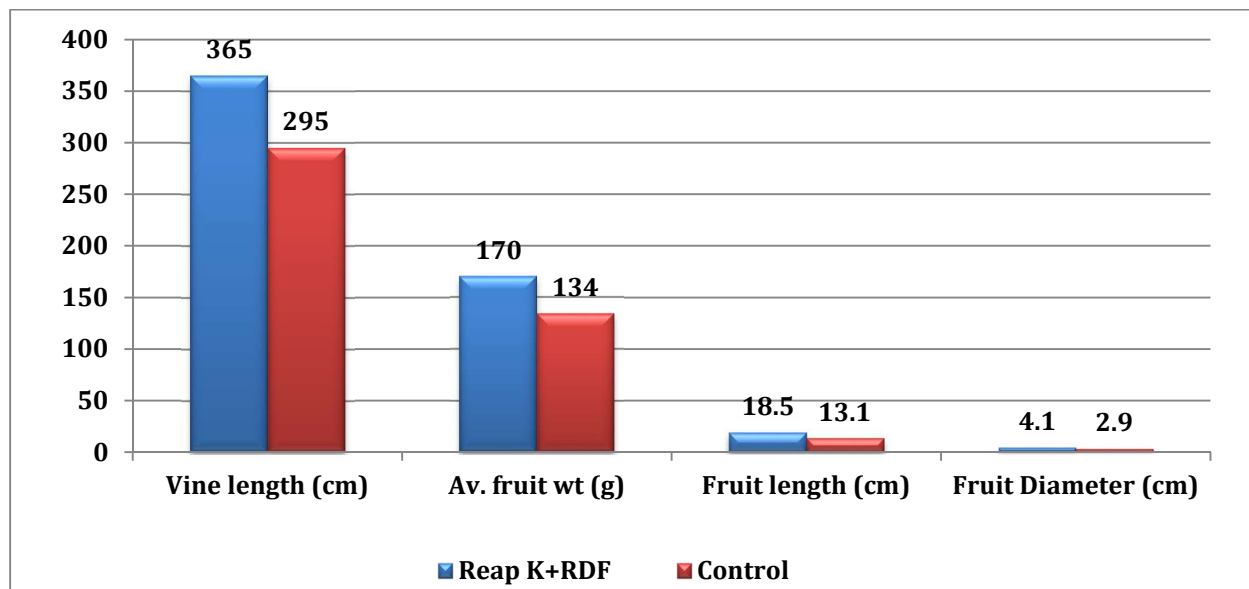
| 30 DAS | 120 DAS | 180 DAS |
|---------------------------|---------------------------|---------|
| 1 st Drenching | 2 nd Drenching | Result |

Effect of Reap K on growth and yield parameters of Chilli



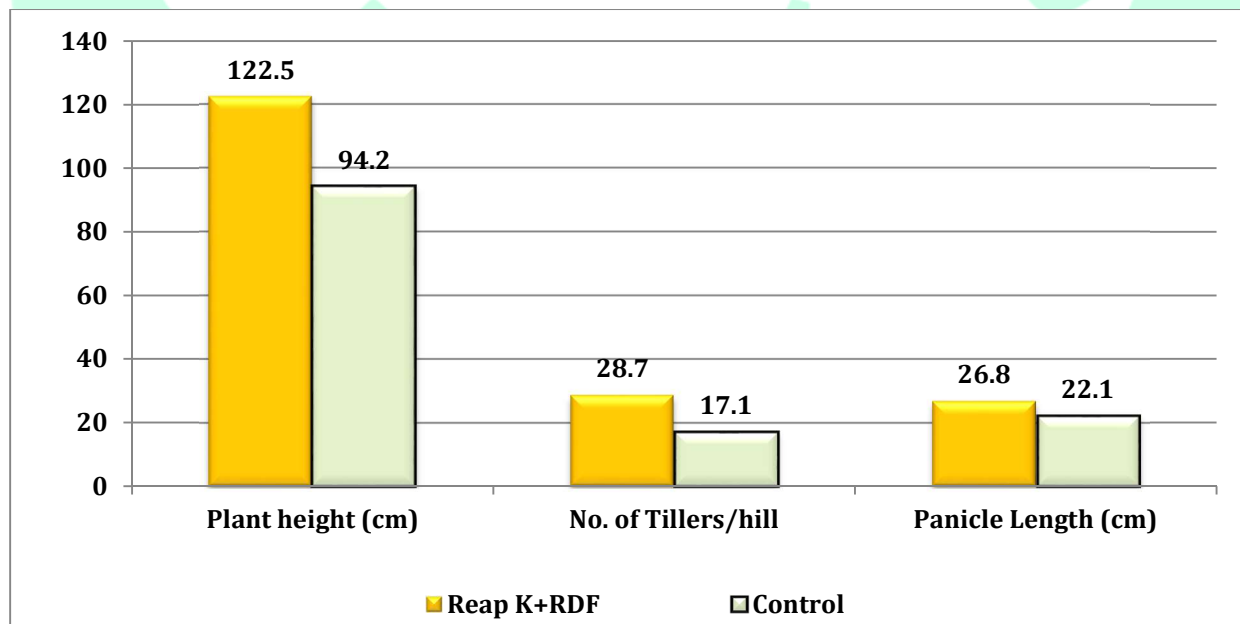
| At Transplanting | 25 DAS | 75 DAS |
|------------------|-----------|--------|
| Seedling Deeping | Drenching | Result |

Effect of Reap K on growth and yield parameters of Cucumber



| | |
|-----------|--------|
| 20 DAS | 70 DAS |
| Drenching | Result |

Effect of Reap K on growth and yield parameters of Paddy



| | | |
|------------------|-----------|---------|
| At Transplanting | 60 DAT | 120 DAT |
| Seedling Deeping | Drenching | Result |

Potash Mobilizing Bacteria as PGPR

Reap K considered as Plant growth promoting rhizobacteria (PGPR) which have been identified in influencing the growth and yield of many plants. The direct effects have been most commonly attributed to the production of plant hormones such as auxin, gibberellins and cytokinins.

Increases yield and quality

Reap K increases the availability of the potash to the crops which ultimately increases the yield and quality of the produce. It improves crop growth and yield by up to 20%

Improves resistance

Potassium increases the resistance of crops to hot and dry conditions and to insect pests and diseases. The increased availability of potash helps to regulate opening and closing of stomata and reduce water loss by affecting the transpiration and water uptake through stomata opening. It reduces lodging, helps to retard crop diseases, improved pest resistance resulting in vigorous growth and more crop yield.

Improves soil health

Natural Potassium Mobilization improves both plant and soil health and also aids in soil remediation. Reap K 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 K 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 K have very significant effects on growth & yield of various crops

Environmental safety

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

HIGHLIGHTS

Mobilizes unavailable potassium and supplements it to plants to the extent of 20 to 50 kg/ ha

It helps to reduce the amount of synthetic potash fertilizers use

Increase drought tolerance and accelerate the growth of plants

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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