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Arnon and Stout 1939

What makes an element essential for plants?

- 1. Must be required for the completion of the life cycle of the plant.
- 2. Must not be replaceable by another element.
- 3. Must be directly involved in plant metabolism, that is, it must be required for a specific physiological function.







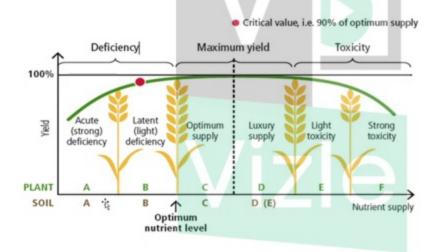
Jan Armon

Daniel I. Arnon November 14, 1910 — December 20, 1994





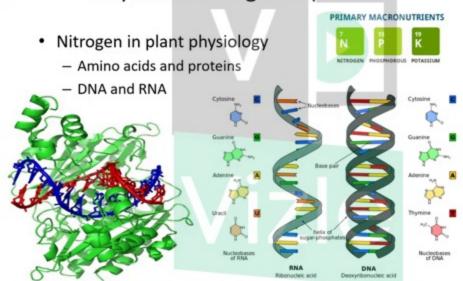
Deficiency, optimum and toxicity







Why is Soil Nitrogen important?



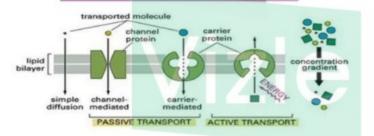




Vizie Nutrient uptake by plants

Passive Uptake of Ion Absorption:

- Non-Mediated Passive Uptake: Diffusion; Ion Exchange; Mass Flow of Ions:
- Mediated Uptake(Specificity and Saturation effects):
 - Passive Mediated Transport: <u>Ionophores</u> (K); carriers; Ion Channels;







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