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*Shaping Lives...
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Domain: Smart Agriculture

Course: Growing of Hydroponics Lettuce

Project topic: Nursery Raising





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- Lettuce (*Lactuca sativa*) is one of the most commonly grown hydroponic vegetables.
- Hydroponics is a method of growing plants without soil. Plants may be grown in a nutrient solution only (liquid culture) or they may be supported by an inert medium (aggregate culture).
- In both systems, all of the plants' nutritional needs are supplied through the irrigation water





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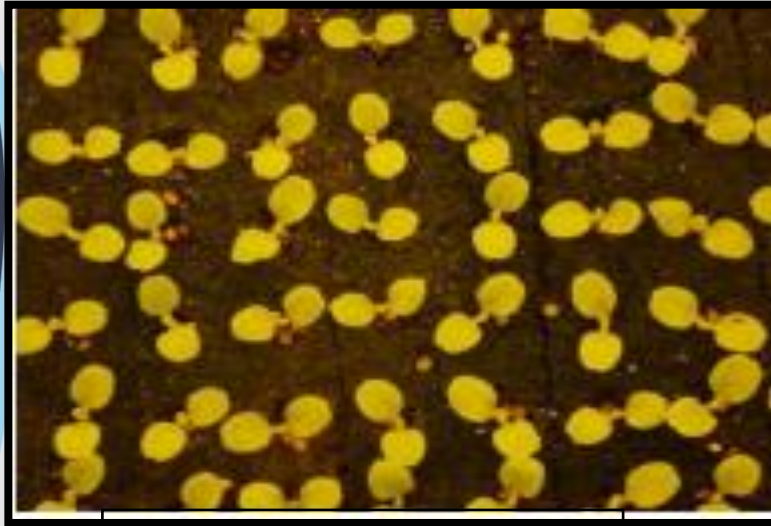
Seed sowing of Lettuce

- The production of the lettuce crop is separated into two growing areas.
- Seeds are started in a germination area where they germinate and grow for 11 days.
- They should be shaded from full sun on the first day after germination, but can then be exposed to full light ($17 \text{ mol/m}^2 / \text{d}$) or slightly greater.
- On Day 11, the plants are transported to the greenhouse and transplanted into the hydroponics system where they are grown until re-spacing on day 21 and finally harvested on Day 35



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Day 5 - Nursery



**Day 11 - Transplanting at
hydroponics system**



Day 21 - Transplant



Day 35 - Harvest



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Thank you...