

What?

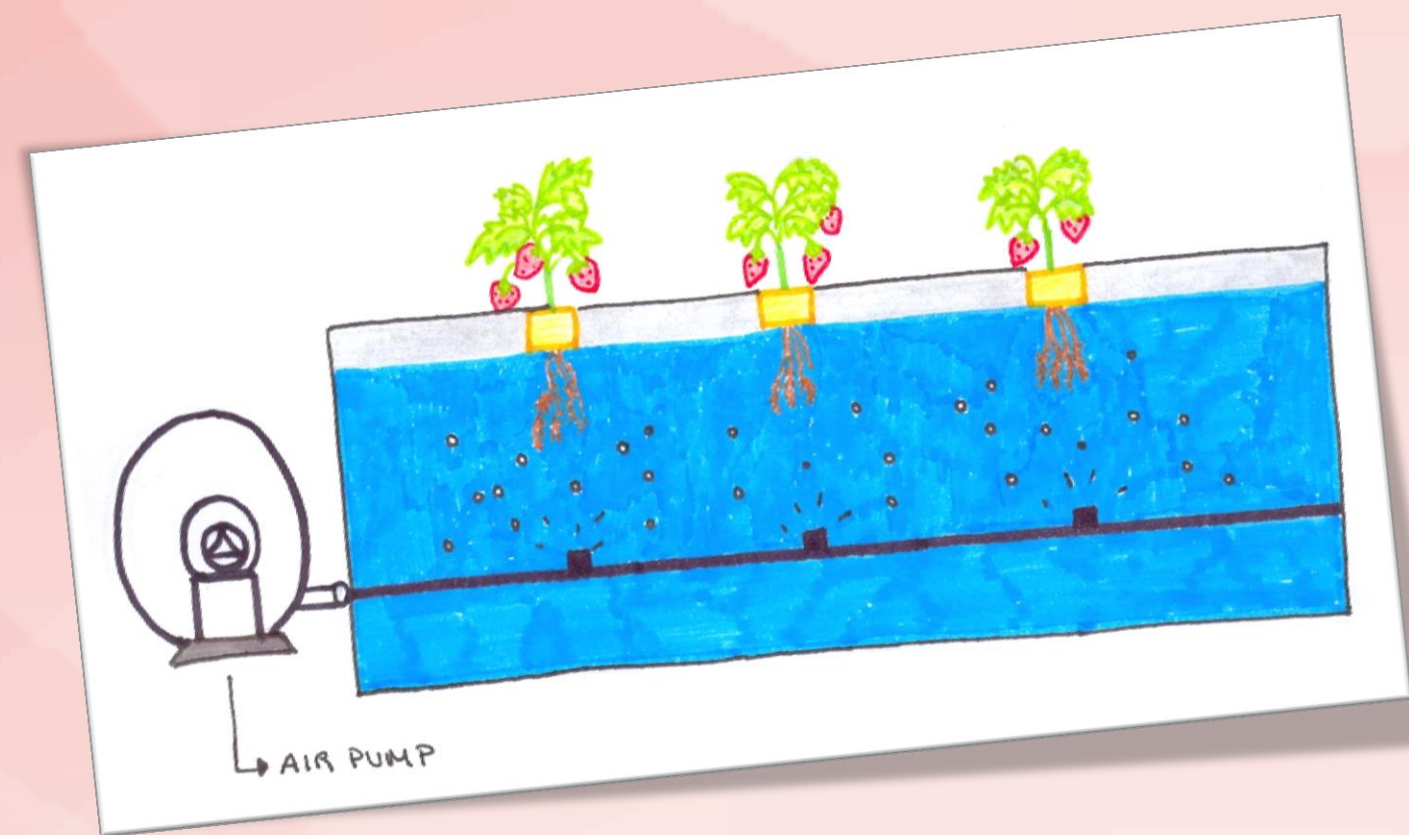
«Hydros – Ponos» → crop without *land*

How?

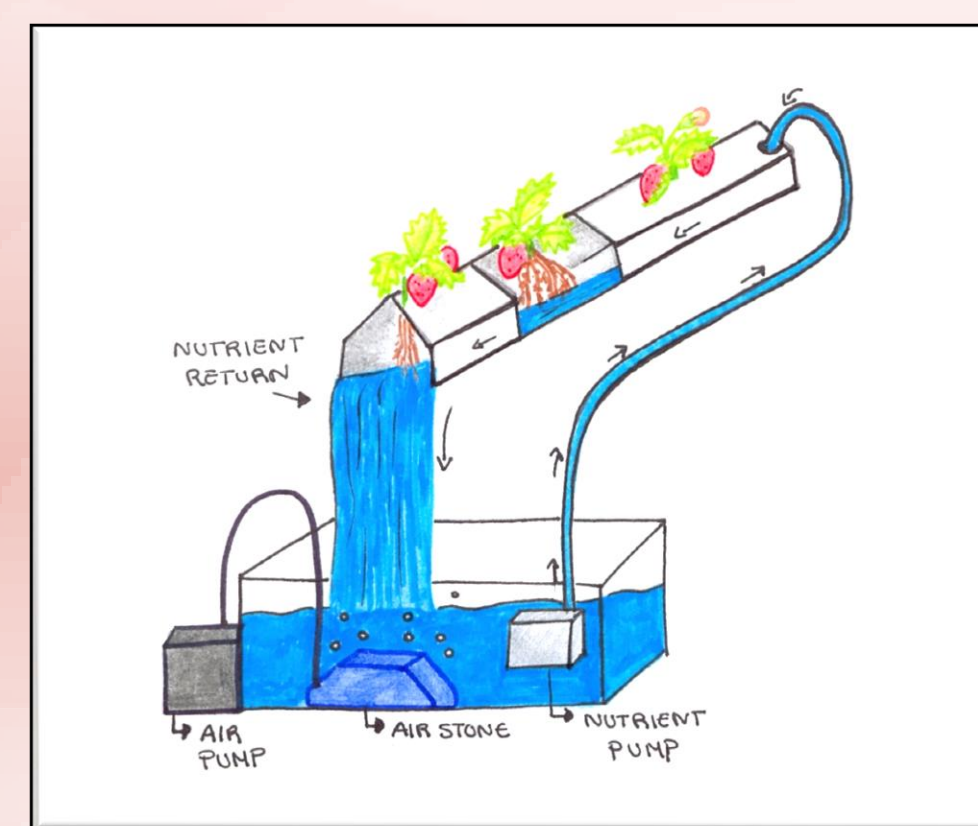
J.Benton Jones (1984)

Water crops

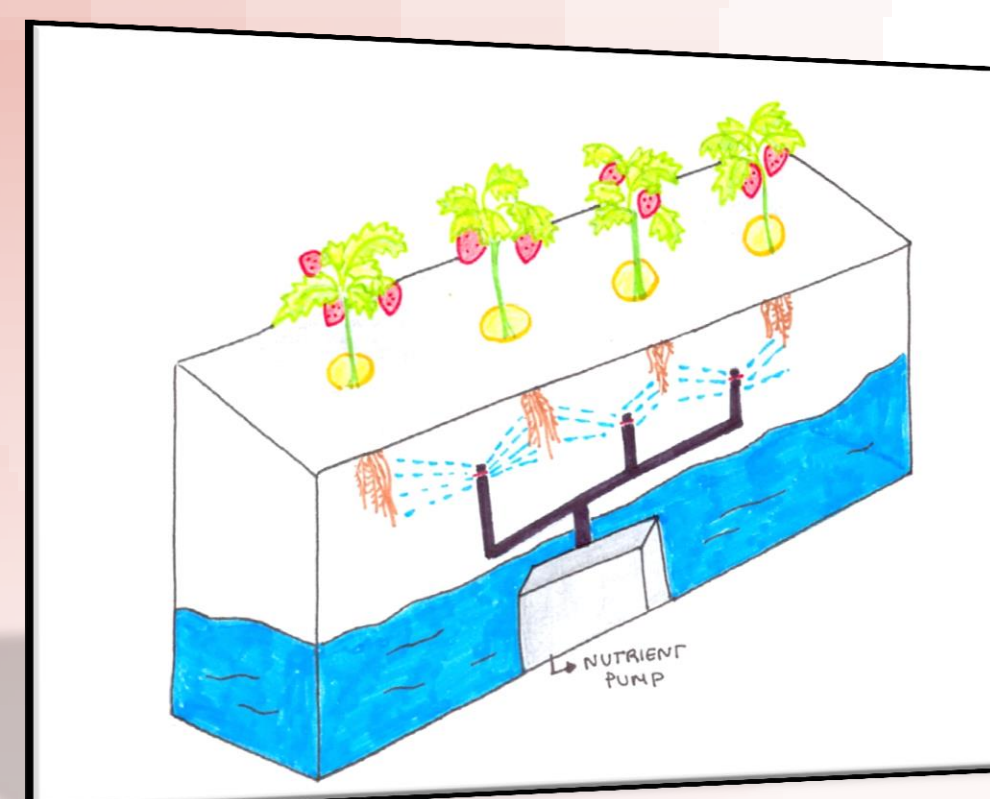
Floating
“Standing aerated”



NFT
“Nutrient Film Technique”

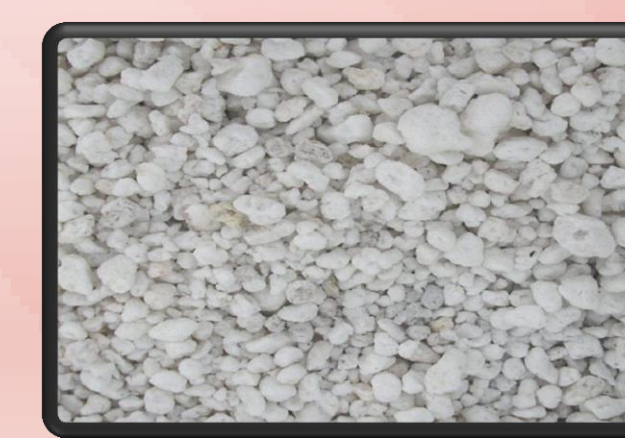


Aeroponics

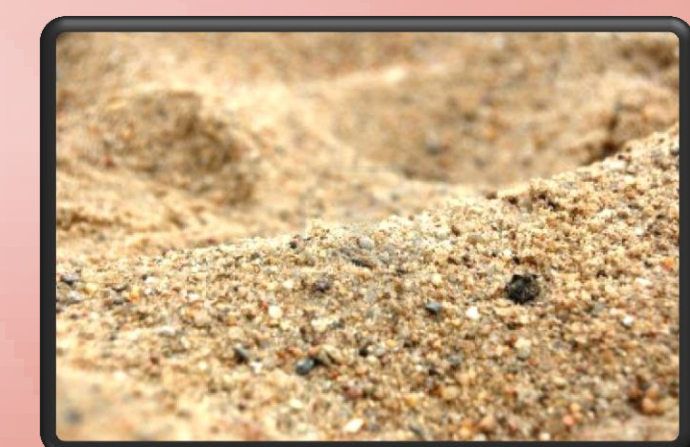


Media crops

Inorganic



Perlite⁽¹⁾



Sand⁽²⁾



Gravel⁽³⁾

Organic



Peat⁽⁴⁾

Why?

«Strawberry is one of the most exported product nationwide»

«We can know which minerals are needed in every part of the growth cycle» (Chow K.K et al., 1992)



- Faster growth rate.
- Control over nutrition.
- Control over conditions.
- Crops effective surface optimized.
- Plants health improve.
- Effective irrigation management.
- Automation and monitoring.
- Better aeration in root-zone.

- Complete farmer dependence.
- Inert substrate not biodegradable.
- Expensive (build, maintenance and repair).
- Drip irrigation may be blocked.

References:
 Chow K.K et al. 1992. Nutritional requirements for growth and yield of strawberry in deep flow hydroponics systems. Scientia horticulturae. 52(1-2): 95 -104
 J. Benton Jones, Jr. 1997. Hydroponics: a practical guide for the soilless grower. 2nd ed. CRC press, 440. ISBN: 9780849331671.

Images References:
 (1): <http://www.jardisen.cl/parts/comostratos.html>
 (2): <http://jimarconstrucciones.com/1>
 (3): <http://www.blackbruc.com/es/grava-volcanica-gris.aspx>
 (4): <http://www.rcdgs.com.ar/productos/turba.php>