

Title: All About Hydroponics

Hydroponics ~~is a non-traditional~~ means ~~to grow~~ plants in water. Plants ^{can} only need water and nutrients to grow, not soil itself.

In 1690 an English scientist used hydroponics to grow a lab plant. and in the 1810s a German developed modern plant nutrition formulas. Hydroponics came into commercial use in 1936

when instructions were published by Californian scientist, W-F Gericke. In the Second World War⁶⁰, the military used it. Ever since, it is used where crop conditions are unsuitable. Arizona based hydroponic company operates more than 200 greenhouses on 48 hectares of land, growing 2.7 million kilograms of produce annually which is superior to soil¹⁰⁰ grown crops. Hydro culture greenhouses are 8 by 29 meters in size,¹¹⁰

consisting of a ~~water~~
weather proof plastic sheet
stretched on a metal frame.
Plastic pipelines carrying
inorganic water soluble nutrients
from an automated feeding
system. Plants are protected
from unfavourable conditions.
Yet hydroponics can't
compete with traditional
crop growth ~~for its cost and~~
~~its cost~~. Its only prospects
are in water scarce regions
and for expensive, high
investment crops that
require intense care (IBT)