



## **Some Selected Resources on Commercial Greenhouse Hydroponic Production**

**Hydroponics** comes from the Greek word “hydro” for water and “ponos” for labor, so is a production method where the plants are grown in water that is enriched with all essential plant nutrients and oxygen. Because of the higher initial investment and technical skills needed, it is advisable to research this method extensively before starting an operation. Talk to other growers, suppliers and researchers to learn as much as possible.



### **Factsheets, Newsletter Articles:**

Bartok, J. 2009. Overview of Hydroponic Systems:

<http://ipm.uconn.edu/documents/raw2/html/696.php?aid=696>

Currey, C. 2017. An Introduction to Pests in Hydroponic Systems.

<http://www.producegrower.com/article/an-introduction-to-pests-in-hydroponic-production/>

Kasier, C. and M. Ernst, 2012. Hydroponic Lettuce. University of Kentucky

<http://www.uky.edu/ccd/sites/www.uky.edu.ccd/files/hydrolettuce.pdf>

Mattson, N. S. 2015. Tipburn of Hydroponic Lettuce. E-Gro Alert. 4(31). April 2015.

[http://www.e-gro.org/pdf/2015\\_431.pdf](http://www.e-gro.org/pdf/2015_431.pdf)

Mattson, N. 2017. Bolting of Hydroponic Lettuce and Spinach. E-Gro Alert. 2(1). January 2017.

<http://e-gro.org/pdf/E201.pdf>

Mattson, N. and C. Peters. 2014. A Recipe for Hydroponic Success – Guide to Fertilization  
<http://www.greenhouse.cornell.edu/crops/factsheets/hydroponic-recipes.pdf>

Raudales, R and C. McGehee. 2016. Pythium Root Rot on Hydroponic Lettuce. E-Gro Alert. 1(4). Feb 2016. <http://www.e-gro.org/pdf/E104.pdf>

Williams, K. A, O. Francescangeli and J. Nelson. 2013. Using Organic Fertilizers in Hydroponics and Recirculating Culture. Kansas State University Research.  
[http://www.gpnmag.com/wp-content/uploads/06\\_KSU%20Research\\_GPN0913%20FINAL.pdf](http://www.gpnmag.com/wp-content/uploads/06_KSU%20Research_GPN0913%20FINAL.pdf)

Vallotton, A., L. Strawn, J. Latimer. 2017. Guide to Identifying Food Safety Hazards in Greenhouse Systems. Virginia Cooperative Extension.  
<http://pubs.ext.vt.edu/HORT/HORT-254/HORT-254NP.html>

Nemali, K. and P. Langenhoven. 2017. How to determine if Supplemental Lighting is Economical for Hydroponic Lettuce Production in winter?  
<https://www.purdue.edu/hla/sites/cea/article/how-do-i-know-if-supplemental-lighting-is-economical-for-hydroponic-lettuce-in-winter/>

### **Websites:**

Cornell Controlled Environment Agriculture Website:

<http://blogs.cornell.edu/cornellcea/>

Includes grower handbooks on hydroponic lettuce and spinach

E Gro Edible Alerts: <http://www.e-gro.org/alerts.php#EDIBLE>

University of Arizona: Controlled Environment Agriculture Center

<http://ceac.arizona.edu/>

Texas A & M Extension Aggie Horticulture

<http://aggie-horticulture.tamu.edu/greenhouse/hydroponics/>

University of Arkansas System Division of Agriculture Center for Agricultural and Rural Sustainability.

Sustainable Hydroponic and Soilless Strawberry Production Systems

<https://www.youtube.com/user/sustainablehydro>

UConn Greenhouse Research and Extension

<https://greenhouse.uconn.edu/>

Nutrient Programs for Hydroponic Crops Webinar  
<https://greenhouse.uconn.edu/hydroponics/>

### **Trade Magazines and Blogs**

Produce Grower: [http://www.producegrower.com/Search for hydroponics](http://www.producegrower.com/Search%20for%20hydroponics)  
<http://www.producegrower.com/news/category/hydroponics/>

Greenhouse Vegetable News from GrowerTalks Magazine *Inside Grower* –  
Controlled Environment Agriculture  
<https://www.growertalks.com/Newsletters/>

### **Some selected reference books**

Growing Greenhouse Vegetables Publication 371. Ontario Ministry of  
Agriculture and Food  
<http://www.omafra.gov.on.ca/english/crops/pub836/p836order.htm>

Hydroponic Food Production: A Definitive Guidebook for the Advance Home  
Gardener and Commercial Hydroponic Grower, 7<sup>th</sup> edition by Howard M. Resh

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