



ecoation

Human + Machine
KNOWLEDGE PRECISION

Crop Management, Grower Assistance & Consultation.

Your eyes on the ground.
Horticulture 6.0

ecoation.com



Phormium
Covers • Screens • Foliage proof

High performance screens & ground covers

www.phormium.com

Announcements

Click here to receive this news directly in your inbox

f t in

Job Offers

- Sales & Product representative Pot & Garden USA
- Supervisor International Horticultural Projects (USA)
- Director Of Growing - Carleton (MI) USA
- Greenhouse Manager - Cleburne (TX) USA
- Growing Manager young vegetable plants
- Sales Agents / Representatives - Germany
- Lead Grower California USA
- Produce Construction Manager - USA
- Sales Manager / Director - West Coast primary, USA
- Medewerker productmanagement support - Bleiswijk

more

"Tweeting Growers"

Tweeting Growers

A Twitter list by @hortidaily

GreenTech
@GreenTechRAI

Nearly 6,000 registrations, 100+ speakers, 50+ online exhibitors and nearly 140 represented countries! bit.ly/VisitGreenTech Our gratitude goes out to everybody who helped to make the first day of #GreenTech Live & Online so memorable. Will we see you tomorrow?

Embed View on Twitter

Top 5 -yesterday

- "Our new X-AIR greenhouse is a sustainable, integrated, complete solution for optimising the climate"
- Tech-magnate Jack Ma visits Dezhou greenhouse
- Leamington greenhouse fined \$120K following electrocution death
- Biobest's Eupedes-System wins Bernhard Blum Award 2020
- Raining cats and dogs

Top 5 -last week

- First semi-closed greenhouse completed in Shanghai in late October
- From war zone to award-winning coconut coir factory
- "I used to sell millions of heads of lettuce a year; not anymore"
- The coupling of nanotechnology and luminescent films to optimize greenhouse light quality
- Water droplets smaller than a human hair

Top 5 -last month

- Using LED grow lights and less irrigation makes stronger plants
- "Deep Water Culture continues to give encouraging results"
- "Vertical farming won't replace all greenhouse production, but it's more a combination of all of them"
- Lettuce in a hydroponic system: 100% organic nutrients
- "Vertical farming is not the answer for all of humanity's woes"

Exchange Rates [more »](#)

- USD: 1.1810
- JPY: 124.79
- AUD: 1.6801
- BRL: 6.6182
- CAD: 1.5577
- CNY: 7.8918
- NZD: 1.8006
- ZAR: 19.5245

Foreign exchange reference rates for the Euro
Source: ECB

Connecting nature and technology
Ready, Set, Grow. [More info](#) **IIVO**
hoogendoorn

Improved Daily Light Integrals with satellite data

From its introduction forty years ago, the Daily Light Integral (DLI) metric has become an important tool for determining monthly daylight availability for crops and estimating supplemental electric lighting requirements for greenhouses. DLI charts for the continental United States have been available for nearly two decades, but it has only been in the past year or so that DLI information for geographic locations worldwide has been made available through various online DLI calculators.

These calculators however have two disadvantages. First, the DLI calculations for a given location are based on the nearest weather stations for which Typical Meteorological Year (TMY) weather data is available. There are over 1,000 such stations in the United States, but only 1,100 or so for the rest of the world. Argentina, for example, has only one weather station in Buenos Aires.

The second disadvantage is that the world's climate is changing. Climate-based TMY weather data for a given station location is based on preferably 30 years of continuous hourly weather records. However, rising global average temperatures have resulted in changes to annual cloud cover for given geographic locations. These changes are making 30-year averages for DLI calculations increasingly unreliable.

SunTracker Technologies has responded to this challenge and will be updating its popular free DLI Calculator tool with a new and improved DLI Calculator. The new and improved free online software tool merges ground weather station data with satellite data that provides monthly shortwave (ultraviolet, visible, and near-infrared) incoming radiation for any geographic location. These data are converted from watts per square meter to photosynthetic photon flux density (PPFD) and hence monthly DLI values.

The satellite data is corrected using statistical techniques of comparison between the weather station and satellite datasets. The results are more accurate and reliable DLI values, regardless of the geographic location worldwide.

SunTracker's DLI Calculator is available at <https://www.suntrackertech.com/dli-calculator/>. The new and improved version will be released on October 31st, 2020.

For more information:
SunTracker Technologies
www.suntrackertech.com

SUNTRACKER TECHNOLOGIES

Publication date: Tue 20 Oct 2020

Born at the intersection of art and science
MARINICE De Ruiter

f in t w

email this article Print

Receive the daily newsletter in your email for free | [Click here](#)

Other news in this sector:

- 2020-10-20 "Revolutionary infrared root zone heating system"
- 2020-10-20 "The Smart Farming Solution for farmers"
- 2020-10-20 Improved Daily Light Integrals with satellite data
- 2020-10-20 Remote monitoring and control for the data driven cold container chain
- 2020-10-19 A sustainable data-driven strategy for maximizing yields
- 2020-10-19 New Smart Freight system only ready to be rolled out from mid-December
- 2020-10-16 "Our goal is to make all our processes circular"
- 2020-10-16 "The fruit doesn't necessarily get much bigger but there is more fruit"
- 2020-10-15 UK: Innovative AgriFood Tech companies looking for investors
- 2020-10-15 Interpretation and evaluation of electrical lighting in plant factories
- 2020-10-15 Pylot is further expanding its software platform and introduces benchmarking
- 2020-10-15 Indicator species analysis: A useful tool for plant disease studies
- 2020-10-15 VEK Adviesgroep joins investment group Atrium Agri: adapting to changing horticultural industry
- 2020-10-14 Reversed osmosis in combination with Artificial Intelligence
- 2020-10-14 DesignLights Consortium seeks comments on draft updates to horticultural lighting technical requirements
- 2020-10-14 "Connecting digitally with our colleagues is our bread and butter"
- 2020-10-14 Concrete floors versus tables
- 2020-10-13 Apple net that avoids weather influences and stimulates colouring
- 2020-10-13 The lights are on in Switzerland
- 2020-10-12 Prevent diseases with UV-C rays

[« Back](#) | [HortiDaily.com](#)

PHILIPS
Discover your recipe for growth

HAVECON
Horticultural Projects

CHECK OUT OUR NEW WEBSITE!

Read More

Once seed soaking, CGMMV disease rate dramatically drops
Johnni-der V2 SEI

BLV
We let your future grow
Find out more www.blv-licht.com

Worldwide leading manufacturer in horticultural systems
METEOR SYSTEMS



Contact us:
www.pelemix.com

Wazera
Seeds of Growth

Vander Waay

PLANTI

Residue management for strawberry growers?

ALUMAT ZEEMAN
SINCE 1982
VISIT WEBSHOP >

INTRODUCING
X-AIR

GrowFlux
SMART LIGHTING CONTROL

GreenTech
Join GreenTech Live & Online
REGISTER NOW!

greenvass
STICKY TRAPS FOR BIOLOGICAL CONTROL

Buyers Guide
ONLINE EDITION