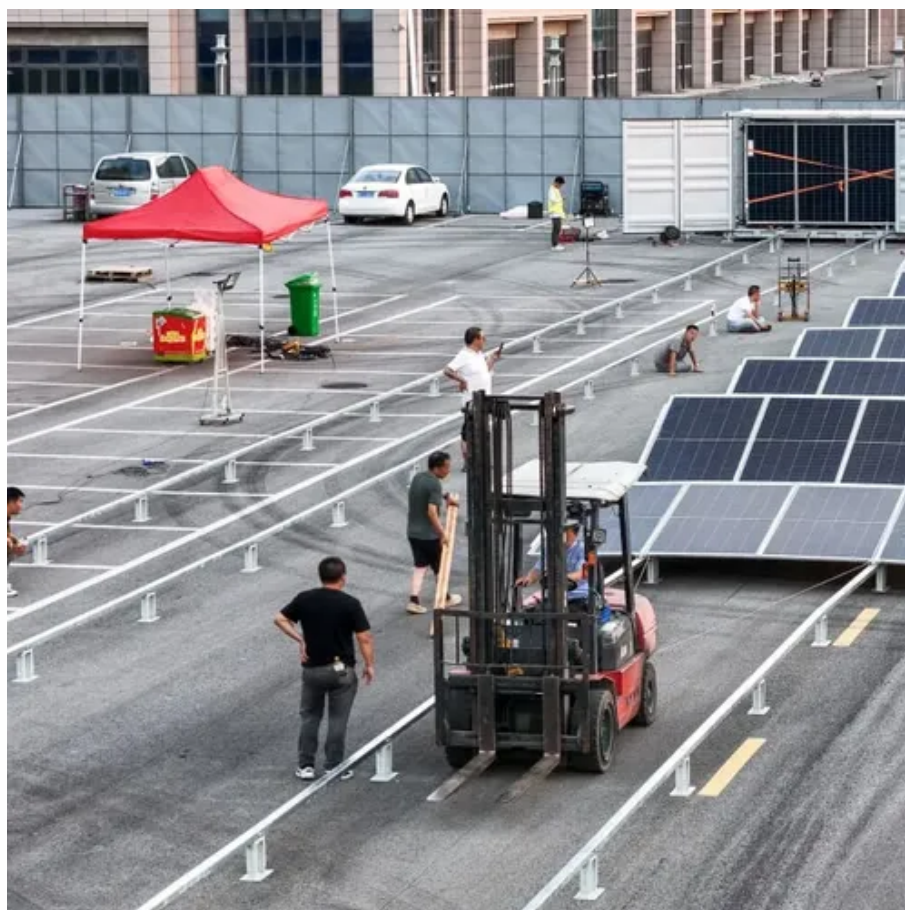




# Sorghum yield under photovoltaic panels





## Overview

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Researchers at the University of Illinois Urbana-Champaign found that shading from agrivoltaic systems reduces grain numbers in both sorghum and soybean, but sorghum can partially compensate by increasing grain weight while soybean cannot. The study shows that sorghum and soybean respond. Scientists have found that certain crops can grow remarkably well in the shade of solar panels, potentially allowing us to grow food and generate clean energy simultaneously. Growing food alongside solar arrays in an agrivoltaic system can help maximize the productivity of a given plot of land.



## Sorghum yield under photovoltaic panels

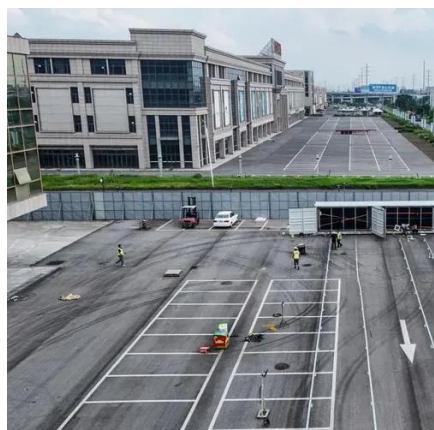


### How shading in agrivoltaic systems influences sorghum and soybean ...

"If shading from PV panels results in a yield penalty, it is essential to understand not only the overall yield reduction but also which specific yield components are affected. In this study, we ...

### On-farm agrivoltaic impacts on main crop yield: the roles of shade

Therefore, maintaining crop yield under shading beneath photovoltaic panels is important. Numerous studies have examined the effects of AVSs on yields, predominantly focusing on ...



### Researchers make revolutionary discovery about key crops grown ...

Even though both of the shaded crops produced lower grain numbers than the full-sun controls, sorghum was able to partially offset the yield penalty by increasing the weight of each grain, ...

### Advanced BioFuels USA - Agrivoltaics for Sorghum, Soybean Grain

"If shading from PV panels results in a yield penalty, it is essential to understand not only the overall yield reduction but also which specific yield components are affected. In this study, we ...



### [Agrivoltaics for sorghum and soybeans - pv magazine USA](#)

The study shows that sorghum and soybean respond differently due to their physiology, offering guidance for crop selection and management to minimize yield penalties in agrivoltaics.



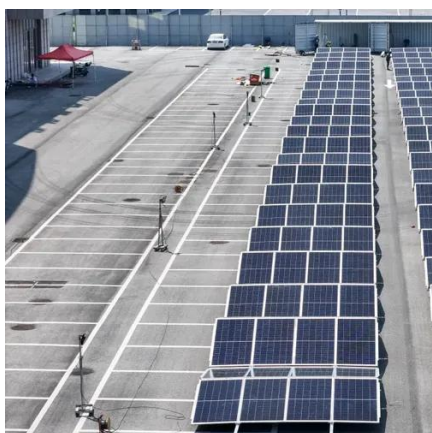
### **Agrivoltaics for sorghum, soybean grain - pv magazine International**

In this study, we examined both yield and yield components, such as grain number and grain weight, in sorghum. Further, we elucidated the distinct physiological mechanisms underlying ...



### [Radiation Limits the Yield Potential of Main Crops Under](#)

Research is focused on co-locating agricultural use and photovoltaic (PV) systems to increase crop yields, reduce the use of resources such as water and pesticides, and produce ...



### [Agrivoltaics for sorghum, soybean grain :](#)



## The Daily Digest

"If shading from PV panels results in a yield penalty, it is essential to understand not only the overall yield reduction but also which specific yield components are affected. In this study, we ...



### **Shading impacts on sorghum and soybean grain yields in agrivoltaics**

This study investigated how sorghum and soybean respond to shading within AV systems, with a specific focus on identifying the key yield components and grain yield affected by shading.



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