

Precision Agriculture For Sustainability And Environmental Protection Earthscan Food And Agriculture

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Precision Agriculture For Sustainability And

Precision agriculture (PA) involves the application of technologies and agronomic principles to manage spatial and temporal variation associated with all aspects of agricultural production in order to improve crop performance and environmental quality.

Precision Agriculture for Sustainability and Environmental ...

The final part of the book surveys the wide range of applications of precision agriculture, from controlled traffic farming to site-specific nutrient and water management. With its distinguished editor and international team of subject experts, this will be a standard reference for crop scientists and agronomists as well as all those concerned with improving the efficiency and sustainability of agriculture.

Amazon.com: Precision agriculture for sustainability ...

Precision agriculture for sustainability (Burleigh Dodds Series in Agricultural Science Book 52) - Kindle edition by Stafford, Dr John, Ferguson, Prof Richard B., Gebbers, Dr R., Yang, Dr Chenghai, Zhang, Dr Chunhua, Kovacs, Dr John M., Walters, Dr Dan, Fountas, Dr Spyros, Anastasiou, Dr Evangelos, Tsiropoulos, Dr Zisis, Tagarakis, Dr Aristotelis, Balafoutis, Dr Athanasios, Tremblay, Dr Nicolas, Sudduth, Dr Kenneth A., Franzen, Dr Aaron J., Zhu, Dr Heping, Drummond, Dr Scott T., Miller, Dr ...

Precision agriculture for sustainability (Burleigh Dodds ...

Plant morphological data are an important basis for precision agriculture and plant phenomics. The three-dimensional (3D) geometric shape of plants is complex, and the 3D morphology of a plant changes relatively significantly during the full growth cycle. In order to make high-throughput measurements [...]

Special Issue "Precision Agriculture for Sustainability"

What is Precision Agriculture? Precision agriculture seeks to use new technologies to increase crop yields and profitability while lowering the levels of traditional inputs needed to grow crops (land, water, fertilizer, herbicides and insecticides). In other words, farmers utilizing precision agriculture are using less to grow more. GPS devices on tractors, for instance, allow farmers to plant crops in more efficient patterns and proceed from point A to point B with more precision, saving ...

What Is Precision Agriculture? - Sustainable America

Precision agriculture benefits to the environment come from more targeted use of inputs that reduce losses from excess applications and from reduction of losses due to nutrient imbalances, weed...

(PDF) Precision Agriculture and Sustainability

Precision agriculture benefits to the environment come from more targeted use of inputs that reduce losses from excess applications and from reduction of losses due to nutrient imbalances, weed escapes, insect damage, etc. Other benefits include a reduction in pesticide resistance development.

Precision Agriculture and Sustainability | SpringerLink

A collection reviewing current research on key technologies in precision agriculture, new publication 'Precision Agriculture for Sustainability' is out now and talks about how by using resources more efficiently, Precision Agriculture can make farming more productive and sustainable.

Publication - Precision Agriculture for Sustainability ...

To make precision agriculture techniques standard practice, EDF has been building relationships with food suppliers, providing expertise to help them source sustainably produced agricultural products. Helping farmers become more efficient while protecting their yields benefits our bottom line, and theirs.

This new approach to farming is transforming agriculture ...

Precision Agriculture for Development is transforming agricultural extension in developing countries using the latest available technologies and research methods. PAD works with partners to build, scale, and improve mobile phone-based agricultural extension with the goal of increasing productivity and income of 100 million smallholder farmers and their families around the world.

Home - Precision Agriculture for Development

"The whole concept of sustainable agriculture demands that we employ precision farming technology to make the most of the fertilizer we apply. Precise fertilizer placement means nutrients are...

Precision ag = sustainable ag? | The Western Producer

There is a need to integrate knowledge-intensive sustainable agricultural practices into a precision framework to maximize farm productivity, profitability, and sustainability. This is accomplished through the use of an information ecology that connects farms, data, tools, and people for optimal, real-time decisions. On Farm Research Field Kits

Precision Sustainable Agriculture

' Precision agriculture is a management strategy that gathers, processes and analyzes temporal, spatial and individual data and combines it with other information to support management decisions according to estimated variability for improved resource use efficiency, productivity, quality, profitability and sustainability of agricultural production.

Precision Agriculture | Home

At its most basic level, precision agronomics takes the role of an agronomist and helps make the methods they use more accurate and scalable. The primary aim of precision agriculture and precision agronomics is to ensure profitability, efficiency, and sustainability while protecting the environment.

What is Precision Agriculture and How is Technology ...

Precision agriculture is based on the ability to identify inter and intra-field variability and to use this information for more targeted crop management. By using resources more efficiently, precision agriculture can make agriculture more productive and sustainable.

Precision agriculture for sustainability | Taylor ...

Precision agriculture is the peak of today's stage of the agricultural revolution, which started in the early 20th century with increasing mechanization. It proceeded in 1990 when new methods of genetic modification were introduced.

Precision agriculture: from concept to practice - EARTH ...

Precision agriculture (PA), satellite farming or site specific crop management (SSCM) is a farming management concept based on observing, measuring and responding to inter and intra-field variability in crops.

Precision agriculture - Wikipedia

Determining the right amount of nitrogen fertilizer to apply with the right timing has considerable impact on yield, protein content, fertilization cost and the environment. These precision farming...

Precision farming for sustainable agriculture

The Role of Drone Technology in Sustainable Agriculture With the world supply at an all-time high and commodity prices at an all-time low as a result of increasing demands in food production and consumption, the modern farming industry is at a crossroads, writes senseFly's Benjamin Pinguet at PrecisionAg.