Name of the Tool

Illinois Agronomy Handbook

Home Page



Logo



URL http://extension.cropsciences.illinois.edu/

http://extension.cropsciences.illinois.edu/handbook/

Subject Agriculture-Handbooks, manuals, etc.;

Agronomy- Handbooks, manuals, etc.

Accessibility Free

Language English

Publisher University of Illinois at Urbana-Champaign

Brief History

The University of Illinois is recognized worldwide as one of the great public universities, and the College of Agricultural, Consumer and Environmental Sciences (ACES) has been there from day one. ACES include what they discover through cutting-edge research to ensure nutritious and safe food, sustainable and innovative agriculture, strong families and communities, and environmentally sound use of natural resources. The University of Illinois (originally Illinois Industrial University) opened for business in March 1868, with agriculture as one of the first programs of study. Since those first days, the College of ACES has grown steadily in its national and international presence, continually adapting to meet new challenges and opportunities in the core domains. Their robust array of disciplines in agricultural, consumer, and environmental sciences forms a strong foundation for the leadership, as they educate each new generation and tackle the world's complex issues. For this novel purpose they have introduces this online hand book which gives information on those subjects freely.

(http://aces.illinois.edu/about/history)

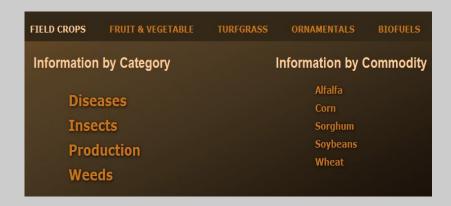
Scope and Coverage

The hand book includes 15 chapters which covers the topics like:

- ➤ Weather and Crops;
- Corn;
- > Soybean;
- > Small Grains and Grain Sorghum;
- > Cropping System;
- ➤ Hay and Pasture;
- ➤ Water Quality;
- Managing Soil pH and Crop Nutrients;
- ➤ Managing Nitrogen;
- ➤ Soil Management and Tillage;
- ➤ Water Management;
- ➤ Weed Management;
- ➤ Managing Insect Pests;
- ➤ Managing Diseases:
- Nematodes.

The home page of the hand book (the following screen shot) provides special information on following topics which includes further sub topics.

FIELD CROPS FRUIT & VEGETABLE TURFGRASS ORNAMENTALS BIOFUELS



Fruit & vegetable includes the following sub topics:



➤ The Turfgass and Ornamentals includes the following sub topics:



➤ The Biofuels have following sub topics:



Kind of Information

The hand book gives huge amount of information on the given domain. The following two articles are chosen from the collection to represent the coverage of topics by these articles.

Example one:

The topic named "Weather and Crops" coming from chapter one, gives following information about necessary environment for the cultivation of crops:

✓ Crop Response to Weather Variables;

Temperature

Precipitation

✓ Potential Evapotranspiration

Soil Moisture

Solar Radiation

✓ Weather and Climate Forecasts and Accuracies

Influence of El Niño and La Niña on Illinois Climate

Example two:

The chapter three of the hand book includes the article on Soybean. The article has following points:

- ✓ Soybean Plant Development
- ✓ Variety Selection
- ✓ Planting Date
- ✓ Planting Rate and Seed Issues

Seed Quality and Testing

Seed Size

- ✓ Inoculation
- ✓ Planting Depth
- ✓ Row Width
- ✓ Double-Cropping Considerations
- ✓ Replanting Soybean
- ✓ Specialty Types of Soybeans
- ✓ High-Yield Soybeans

The above two articles and the others also include numbers of figures, charts and tables related to the topic.

Special Features

- ➤ The hand book provides articles in pdf format and all the entries have continuous pagination from chapter 1 to chapter 15;
- ➤ It also have relative index which connects the key words with their page numbers:
- ➤ The above features make possible to the users to download all pdfs including index for using it as printed document;

Arrangement Pattern

The topics in this hand book are arranged under 15 chapters. The following screen shot shows the arrangement.

Chapter 1: Weather and Crops Steven E. Hollinger,

Chapter 2: Corn Emerson Nafziger

Chapter 3: Soybean Emerson Nafziger

Chapter 4: Small Grains and Grain Sorghum Emer.

Chapter 5: Cropping Systems Emerson Nafziger

Chapter 6: Hay and Pasture Jim Morrison

Chapter 7: Water Quality George F. Czapar

Chapter 8: Managing Soil pH and Crop Nutrients

Chapter 9: Managing Nitrogen Fabián G. Fernández

Chapter 10: Soil Management and Tillage F. Willia

Chapter 11: Water Management Richard Cooke

Chapter 12: Weed Management Aaron Hager

Chapter 13: Managing Insect Pests Kevin Steffey,

Chapter 14: Managing Diseases Carl A. Bradley

Chapter 15: Nematodes Terry Niblack

Remarks

This hand book is a very much helpful tool for the subject agriculture and it makes a compendium of miscellaneous information on that subject. It hopes the betterment of the lives of people, not only in Illinois but around the world.

Comparable Tools

- ➤ Handbook on the Globalisation of Agriculture (http://www.elgaronline.com/view/9780857939821.xml)
- Handbook of Agricultural Entomology (http://onlinelibrary.wiley.com/book/10.1002/9781118469347)
- ➤ Hand Book of Agriculture (http://www.icar.org.in/en/node/871)

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