



The Vertical Farm: Feeding the World in the 21st Century

By Dickson Despommier

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The Vertical Farm: Feeding the World in the 21st Century By Dickson Despommier

"The vertical farm is a world-changing innovation whose time has come. Dickson Despommier's visionary book provides a blueprint for securing the world's food supply and at the same time solving one of the gravest environmental crises facing us today."--Sting

Imagine a world where every town has their own local food source, grown in the safest way possible, where no drop of water or particle of light is wasted, and where a simple elevator ride can transport you to nature's grocery store - imagine the world of the vertical farm.

When Columbia professor Dickson Despommier set out to solve America's food, water, and energy crises, he didn't just think big - he thought *up*. Despommier's stroke of genius, the vertical farm, has excited scientists, architects, and politicians around the globe. Now, in this groundbreaking book, Despommier explains how the vertical farm will have an incredible impact on changing the face of this planet for future generations.

Despommier takes readers on an incredible journey inside the vertical farm, buildings filled with fruits and vegetables that will provide local food sources for entire cities.

Vertical farms will allow us to:

- Grow food 24 hours a day, 365 days a year
- Protect crops from unpredictable and harmful weather
- Re-use water collected from the indoor environment
- Provide jobs for residents
- Eliminate use of pesticides, fertilizers, or herbicides
- Drastically reduce dependence on fossil fuels
- Prevent crop loss due to shipping or storage
- Stop agricultural runoff

Vertical farms can be built in abandoned buildings and on deserted lots, transforming our cities into urban landscapes which will provide fresh food

grown and harvested just around the corner. Possibly the most important aspect of vertical farms is that they can be built by nations with little or no arable land, transforming nations which are currently unable to farm into top food producers. In the tradition of the bestselling *The World Without Us*, *The Vertical Farm* is a completely original landmark work destined to become an instant classic.

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Editorial Review

Amazon.com Review

Product Description

When Columbia professor Dickson Despommier set out to solve America's food, water, and energy crises, he didn't just think big - he thought up. Despommier's stroke of genius, *The Vertical Farm*, has excited scientists, architects, and politicians around the globe. These farms, grown inside skyscrapers, would provide solutions to many of the serious problems we currently face, including: allowing year-round crop production; providing food to areas currently lacking arable land; immunity to weather-related crop failure; re-use of water collected by de-humidification of the indoor environment; new employment opportunities; no use of pesticides, fertilizers, or herbicides; drastically reduced dependence on fossil fuels; no crop loss due to shipping or storage; no agricultural runoff; and, many more. Vertical farming can be located on abandoned city properties, creating new urban revenue streams. They will employ lots of skilled and unskilled labor. They can be run on wind, solar, tidal, and geothermal energy. They can be used to grow plants for pharmaceutical purposes or for converting gray water back into drinking water. In the tradition of the bestselling *The World Without Us*, this is a totally original landmark work destined to become a classic. With stunning illustrations and clear and entertaining writing, this book will appeal to anyone concerned about America's future.

A Look Inside *Vertical Farm*

(Click on Images to Enlarge)



Pyramid Farm by Eric Ellingsen and Dickson Despommier



Urban Farm, Urban Epicenter by Jung Min Nam



The Dragonfly Tower by Vincent Callebaut



Harvest Green by Romses Architects

From [Booklist](#)

Starred Review Despommier, an award-winning professor of microbiology and public and environmental health sciences, adds his voice to those calling for agricultural reform. It's time to confront agrochemical pollution, he declares, and to convert waste into energy, conserve water, stop cutting down forests for fields, and make cities the equivalent of healthy ecosystems. It's time, Despommier believes after more than a decade of study and brainstorming, for vertical farming. Farms that "would raise food without soil in specially constructed buildings": energy- and water-efficient high-rise greenhouses using hydroponic and aeroponic growing techniques. The challenges involved are many, Despommier cheerfully concedes, but the advantages he cites are profound. In making his case, Despommier offers a fresh look at the history of farming, a staggering overview of the health and environmental problems associated with industrial agriculture, and a sobering report on current food and water shortages soon to be exacerbated by rapid climate change and exponential population growth. A visionary known the world over, Despommier believes that the "vertical farm is the keystone enterprise for establishing an urban-based ecosystem" and for "restoring balance between our lives and the rest of nature." A provocative introduction to a pragmatic approach to growing safe, nutritious, local food. --Donna Seaman

Review

"A book you will read, and then you will read it again. It is a book that could begin a revolution. Let's hope it does." *?Chicago Examiner*

"Nobody has ever dreamed as big as Dr. Dickson Despommier." *?New York Magazine*

"Despommier has quickly become the central figure in what could be a worldwide revolution." *?Scientific American*

"Despommier's . . . ingenious idea . . . could ultimately ease the world's food, water, and energy crises." *?The Huffington Post*

"Lucidly written . . . inspiring . . . Vertical farming is no doubt fast emerging as a powerful futuristic concept." *?Businessworld*

"A captivating argument that will intrigue general readers and give policymakers and investors much to ponder." *?Kirkus Reviews*

"A visionary known the world over, Despommier believes that the 'vertical farm is the keystone enterprise for establishing an urban-based ecosystem' and for 'restoring balance between our lives and the rest of

nature.” ?*Booklist (starred)*

“Dickson Despommier is a futurist, an architect, and an intellectual in the same vein as Leonardo da Vinci, I. M. Pei, and Buckminster Fuller. Vertical farms will be remembered as one of the preeminent breakthroughs of the early 21st century, and Despommier will be remembered as the man who brought them to us.” ?*Josh Tickell, director of Fuel, winner of the 2008 Sundance Film Festival Audience Award for Best Documentary*

“This book makes the case that urban agriculture can go vertical as well as horizontal, putting all those expanses of pretty glass to some actual use!” ?*Bill McKibben, author of Eaarth: Making a Life on a Tough New Planet*

“Cities of the future must generate their own food supply. Dickson Despommier's elegant, simple answer for achieving this goal is vertical farming. Welcome to the third green revolution.” ?*Peter Diamandis, Chairman of the X Prize Foundation and Co-Founder of the Singularity University*

Users Review

From reader reviews:

Steven Cruce:

Now a day people who Living in the era wherever everything reachable by match the internet and the resources included can be true or not involve people to be aware of each details they get. How people have to be smart in receiving any information nowadays? Of course the reply is reading a book. Examining a book can help individuals out of this uncertainty Information especially this The Vertical Farm: Feeding the World in the 21st Century book since this book offers you rich facts and knowledge. Of course the info in this book hundred pct guarantees there is no doubt in it you probably know this.

Jerry Orosco:

In this era which is the greater man or who has ability in doing something more are more important than other. Do you want to become considered one of it? It is just simple strategy to have that. What you need to do is just spending your time not very much but quite enough to enjoy a look at some books. One of the books in the top list in your reading list will be The Vertical Farm: Feeding the World in the 21st Century. This book which can be qualified as The Hungry Hills can get you closer in growing to be precious person. By looking upwards and review this guide you can get many advantages.

Charles Hopper:

That reserve can make you to feel relax. This kind of book The Vertical Farm: Feeding the World in the 21st Century was colorful and of course has pictures around. As we know that book The Vertical Farm: Feeding the World in the 21st Century has many kinds or category. Start from kids until teens. For example Naruto or Private investigator Conan you can read and think that you are the character on there. Therefore , not at all of book usually are make you bored, any it offers up you feel happy, fun and loosen up. Try to choose the best book to suit your needs and try to like reading which.

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