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The Evidence

**Organic Farming
Food Quality And
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~~The beautiful story of
organic farming and food
quality~~

**What is Organic
Farming? | Agriculture |**

Biology | FuseSchool MY TOP
5 BOOKS ON GARDENING \u0026

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*FARMING Why is organic food so *#@! expensive?? | Ali Partovi | TEDxManhattan*

Best Books on Organic Gardening and Growing Food at Home

Organic food - hype or hope?

| DW Documentary Key to perfect N, P, K, Ca

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Organic Farming. Organic Farming for Sustainable Agriculture Our Journey in organic farming. The food tastes better and is free of chemicals. You must try.

Organic Farming -Principles,

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Template What Does
\ "Organic" Mean, and Should
You Buy Organic Foods? What
is the best diet for humans?
| Eran Segal | TEDxRuppin
Special Report - Israel: A
Miracle in Agriculture The

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food we were born to eat:
John McDougall at

~~TEDxFremont Why Organic,~~

~~Sustainable Farming Matters~~

~~+ Portrait of a Farmer~~ *How*

Cuban agriculture went from

industrial to sustainable

~~Organic Agriculture in the~~

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Farming Food Quality And
~~City of Toronto - Fresh City
Farms Dr. Will Hooker~~
lecture 1 of 38 on
Permaculture Organic Farming
- Overview and introduction
Lecture 33 : Quality of
Organic Food *Organic Farming*
for Sustainable Agricultural

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Farming Food Quality And
Human Health A Review Of
Production by Prof Dillip Of
Kumar Swain What Cuba can
The Evidence
teach America about organic
farming **62 ACRES of ORGANIC
FARMING with FAMILY of FOUR**
100% ORGANIC Farming In
Jamaica | OVER 30 Fruits,
Vegetables And Medicinal

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Farming Food Quality And
Herbs | See *FIRST HAND!*
French organic farming
explores the unconventional
| *FT Food Revolution Organic*
Farming Part 1 Organic
Farming Definition, History,
Concept, Need, Conventional
vs Organic Farming Organic

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2 ORGANIC FARMING FOOD QUALITY AND HUMAN HEALTH he birthright of all living things is health. This law is true for soil, plant, animal and man: the health of these four is one

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connected chain. Any weakness or defect in the health of any earlier link in the chain is carried on to the next and succeeding links, until it reaches the last, namely, man.

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Whilst consumers commonly believe that organic foods have a better taste, colour and flavour(22), there is no convincing evidence to suggest organic foods have

File Type PDF Organic Farming Food Quality And Human Health A Review Of Superior sensory qualities. (17, 76) Blind sensory tests have shown little or no differences between organic and conventional foods. (77-79) In spite of this, many chefs choose organic foods for

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perceived sensory superiority. (80) It is worth noting that taste, colour, flavour, etc. of a crop plant may vary by cultivar, stage of ripeness ...

Organic food and farming:

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File Type PDF Organic Farming Food Quality And Human Health A Review Of Scientific facts and consumer . . . The Evidence

More attention needs to be given to experimental design and protocol in research aimed at determining if there is a linkage between organic farming, soil and

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exploring this linkage due to the recent highlighting of experimental design and protocol issues in the literature, problems still

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Organic Farming, Soil Health, and Food Quality ... Introduction. Organic Food Quality is not really a stand-alone R&D project, but a central research

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scheme/focus that was investigated as part of a wide range of NEFG contract R&D projects. Investigations to quantify and improve quality characteristics in organic foods started in 2000 when Newcastle

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University established the
TESCO Centre for Organic
Agriculture, which in 2004
became the Nafferton
Ecological Farming Group
(NEFG) .

Organic Food Quality |

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The definition of food quality is constantly changing. Initially it was represented by the quantitative/measurable parameters. Nowadays more

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and more popular is the holistic approach to the problem of quality. Vogtmann (1991) adopted a food quality evaluation approach including analytical and holistic criteria. According to this approach, the

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assessment should be focused on all aspects and from all possible points of view, i.e. holistic model.

The Quality of Organically Produced Food | IntechOpen

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Organic farming is characterized by its restriction against the use of synthetic pesticides and fertilizers.

Organic foods contribution to nutritional quality and

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...
All organic farms and food companies are thoroughly inspected at least once a year. They also need robust systems in place and paperwork that shows the standards are being met the

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rest of the time. Once organic farms and food companies are certified as meeting strict organic standards, they are issued with a certificate and a trading schedule.

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What are Organic Standards?

| Soil Association

Analyses and briefs on organic farming, organic imports, organic facts and figures, growth, and financial performance of EU organic farming. Organic

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statistics related to organic farming, such production of crops, animal products, and aquaculture products.

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M. Šrůtek, J. Urban, in
Encyclopedia of Ecology,
2008. Organic farming (OF)
is a farming system that
uses environmentally
friendly methods of weed,
pest, and disease control.

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The principles and practices of OF have been expressed in the standards of International Federation of Organic Agriculture Movements (IFOAM) as the principle of health, ecology, fairness, and care.

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Organic Farming - an overview | ScienceDirect

Topics

'Organic food is the product of a farming system which avoids the use of man-made fertilisers, pesticides;

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growth regulators and livestock feed additives. Irradiation and the use of genetically modified organisms (GMOs) or products produced from or by GMOs are generally prohibited by organic legislation.

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What does organic mean? -
BBC Good Food

Keywords: organic food; food quality; health; nutrient content; nutritional value

INTRODUCTION Public concern about food quality has

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intensified in recent years and prompted heated debate about the integrity and safety of food. Demand for organically produced food has grown rapidly, with 'It's better for you' a key motivation for purchase.

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Assessing organic food quality: Is it better for you?

"Organic agriculture is a production system that sustains the health of soils, ecosystems and

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people. It relies on ecological processes, biodiversity and cycles adapted to local conditions, rather than the use of inputs with adverse effects. Organic agriculture combines tradition, innovation and

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science to benefit the
shared environment and
promote fair relationships
and a good quality of life
...

Organic farming - Wikipedia
Organic MEAT Quality .

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Średnicka-Tober et al.

(2016) Composition differences between organic and conventional meat; a systematic literature review and meta-analysis. *British Journal of Nutrition*. 115,

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994-1011. New study finds
significant differences
between organic and non-
organic MEAT

Organic Food Quality |
Nafferton Ecological Farming
Group

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“I think organic corn production is much more profitable than conventional corn production,” says Bohn, “but, I think when we look at all the imports, and I’m not an expert here, I think that we have less control of

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the quality of the material that is imported from other countries, so who knows exactly, whether they are produced following the organic guidelines that organic farmers ...

File Type PDF Organic Farming Food Quality And Human Health: A Review Of From the Farm: Organic Food | WCIA.com

Overall, organic farms tend to have better soil quality and reduce soil erosion compared to their conventional counterparts. Organic agriculture

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generally creates less soil and water pollution and...

Can we feed 10 billion people on organic farming alone ...

Food quality and safety
Organic food is widely

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believed by the lay public to be healthier than conventional food, [40] although the research is inconclusive. [40] Animals fed organic diets appear to have slightly better health and reproductive

File Type PDF Organic Farming Food Quality And Human Health, but similar tests in humans have not been performed. In some vegetables and cereals there is a lower...

Food quality and safety |
Organic Farming

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Organic food is food produced by methods complying with the standards of organic farming. Standards vary worldwide, but organic farming features practices that cycle resources, promote ecological balance,

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and conserve biodiversity. Organizations regulating organic products may restrict the use of certain pesticides and fertilizers in the farming methods used to produce such products.

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Organic food - Wikipedia

The word "organic" refers to the way farmers grow and process agricultural products, such as fruits, vegetables, grains, dairy products and meat. Organic

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Organic farming practices are designed to meet the following goals: Enhance soil and water quality. Reduce pollution.

Organic foods: Are they safer? More nutritious? -

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Mayo Clinic
28 May 2020. Added link to
2019 Organic farming
statistics notice. 16 May
2019. Added link to 2018
organics statistic page. 17
May 2018. Added link to
organic farming 2017

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statistics page.

A bold, science-based corrective to the groundswell of misinformation about food and how it's produced,

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File Type PDF Organic Farming Food Quality And Human Health A Review Of The Evidence
examining in detail local and organic food, food companies, nutrition labeling, ethical treatment of animals, environmental impact, and every other aspect from farm to table
Consumers want to know more

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about their food—including the farm from which it came, the chemicals used in its production, its nutritional value, how the animals were treated, and the costs to the environment. They are being told that buying

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organic foods, unprocessed and sourced from small local farms, is the most healthful and sustainable option. Now, Robert Paarlberg reviews the evidence and finds abundant reason to disagree. He delineates the ways in which

File Type PDF Organic Farming Food Quality And Global Food Markets Have In Fact Improved Our Diet, and how "industrial" farming has recently turned green, thanks to GPS-guided precision methods that cut energy use and chemical pollution. He makes clear

File Type PDF Organic Farming Food Quality And Human Health's serious obesity crisis does not come from farms, or from food deserts, but instead from "food swamps" created by food companies, retailers, and restaurant chains. And he explains how, though

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Human Welfare is lagging Of
behind, progress can be made
The Evidence through continued advocacy,
more progressive
regulations, and perhaps
plant-based imitation meat.
He finds solutions that can
make sense for farmers and

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consumers alike and provides a road map through the rapidly changing worlds of food and farming, laying out a practical path to bring the two together.

The internet is rife with

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biased and unsubstantiated claims from the organic industry, and the treatment of issues such as food safety and quality by the media ("if it bleeds, it leads") tends to have a negative impact on consumer

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perceptions about conventional food. Until recently, more and more consumers in many countries were opting to buy organic food over conventional food, resulting in a radical shift in food retailing. This was

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due to concerns over chemical residues, food poisoning resulting in recalls, food scares such as "mad-cow" disease, issues like gene-modified (GM foods), antibiotics, hormones, cloning and

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concerns over the way plants and animals are being grown commercially as food sources. As a result there has been an expansion of the organic industry and the supply of organic foods at farmers' markets,

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supermarkets and specialty stores. Organic Production and Food Quality: A Down to Earth Analysis is the first comprehensive book on how organic production methods influence the safety and quality of foods, based on

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an unbiased assessment of the latest scientific findings. The title is a 'must-have' for everyone working within the food industry. Comprehensive explanation of organic production methods and

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The Evidence

Authoritative, unbiased and up-to-date examination of relevant global scientific research Answers the questions of whether organic food is more nutritious

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Organic farming does not mean going "back" to traditional (old) methods of farming. Many of the farming methods used in the past are still useful today. Organic

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farmers take the best of these and combines them with modern scientific knowledge. The goal was to write a book where as many different existing studies as possible could be presented in a single volume, making it

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easy for the reader to compare methods, results and conclusions. As a result, studies from countries such as Romania, Poland, The Czech Republic, Mexico, Slovenia, Finland, etc. have been compiled into one book.

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The opportunity to compare results and conclusions from different countries and continents will create a new perspective in organic farming and food production as well as help researchers and students from all over

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the world to attain new and interesting results in this field.

Due to increasing consumer demand for safe, high quality, ethical foods, the production and consumption

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of organic food and produce has increased rapidly over the past two decades. In recent years the safety and quality of organic foods has been questioned. If consumer confidence and demand in the industry is to remain high,

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the safety, quality and health benefits of organic foods must be assured. With its distinguished editor and team of top international contributors, Handbook of organic food safety and quality provides a

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review of the latest research in the area. Part one provides an introduction to basic quality and safety with chapters on factors affecting the nutritional quality of foods, quality

File Type PDF Organic Farming Food Quality And Assurance and consumer expectations. Part two discusses the primary quality and safety issues related to the production of organic livestock foods including the effects of feeding regimes and

File Type PDF Organic Farming Food Quality And Husbandry on dairy products, poultry and pork. Further chapters discuss methods to control and reduce infections and parasites in livestock. Part three covers the main quality and safety issues concerning the

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production of organic crop foods, such as agronomic methods used in crop production and their effects on nutritional and sensory quality, as well as their potential health impacts. The final part of the book

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focuses on assuring quality and safety throughout the food chain. Chapters focus on post-harvest strategies to reduce contamination of food and produce, and ethical issues such as fair trade products. The final

File Type PDF Organic Farming Food Quality And Human Health A Review Of chapters conclude by reviewing quality assurance strategies relating to specific organic food sectors. The Handbook of organic food quality and safety is a standard reference for professionals

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and producers within the
industry concerned with
improving and assuring the
quality and safety of
organic foods. Improve the
safety, quality and health
benefits of organic foods
Discusses the latest

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research findings in this area Focuses on assuring quality and safety throughout the food chain

Organic agriculture is

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File Type PDF Organic Farming Food Quality And Human Health A Review Of The Evidence
defined as an environmentally and socially sensitive food supply system. This publication considers the contribution of organic agriculture to ecological health, international markets and

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local food security. It contains a number of case studies of the practical experiences of small farmers throughout the world (including India, Iran, Thailand, Uganda and Brazil) who have adopted fully

File Type PDF Organic Farming Food Quality And Integrated food systems, and analyses the prospects for a wider adoption of organic agriculture. The book also discusses the weakness of institutional support for nurturing existing knowledge and exchange in organic

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The Organic Farming Research Foundation defines organic food as food that is grown through agricultural systems that do not use genetically modified seeds, synthetic

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pesticides, or fertilizers. Organic farming helps the environment by benefiting water quality, soil health, and biodiversity. The top selling organic products are apples, lettuce, and grapes. This relevant and timely

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edition discusses organic and natural foods, describing what they are, how they are grown, where they are sold, and their future production. Readers will be inspired to think critically about organic

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food and how its production and demand impacts their peers and community.

Safety and Practice for Organic Food covers current food safety issues and trends. It provides detailed

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information on all organic and pasture practices including produce-only, farm-animal-only or integrated crop-livestock farming, as well as the impact of these practices on food safety and foodborne infections. The

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book explores food products that organic, integrated and traditional farming systems are contributing to consumers. As the demand for organic food products grows faster than ever, this book discusses current and

File Type PDF Organic Farming Food Quality And Human Health A Review Of Improved Practices For Safer Products. Moreover, the book explores progressive directions, such as the application of next-generation sequencing and genomics to aid in the understanding of the

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The Evidence
agro-environment and how farmer education can contribute to sustainable and safe food. Safety and Practice for Organic Food is a unique source of organic agricultural practices and

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food production for researchers, academics and professionals at agriculture-based universities and colleges who are involved in food science, animal sciences including poultry science, food safety, food

File Type PDF Organic Farming Food Quality And Microbiology, plant science and agricultural extension. This book is also an excellent source of information for regulators and federal government officials (USDA, FDA, EPA) and the food processing

File Type PDF Organic Farming Food Quality And Industry. Discusses A Review Of The Evidence
limitations in pre-harvest and post-harvest level practices with specific information on risk and bio-security of existing organic production systems Explores policies and guidelines for

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The Evidence
organic food production and
future directions for safer
and more sustainable
management Presents
microbial and other
biological hazards at pre-
harvest and post-harvest
levels

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The book seeks to address the intersection of food organics and the emergence of a new contractualism between producers, distributors and consumers, and between nation states.

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Additionally, it seeks to cater to the needs of a discerning public concerned about how its own country aims to meet their demands for organic food quality and safety, as well as how they will benefit from

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Integration in the standard-
setting processes
increasingly occurring
regionally and
internationally. This edited
volume brings together
expert scholars and
practitioners and draws on

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insights and experiences in the field of organics, food and health safety. The book is organized in three parts. Part I outlines certain international perspectives; Part II reflects upon

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relevant histories and influences and finally, Part III examines the organic food regulatory regime of various jurisdictions in the Asia Pacific.

Organic agriculture has

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gained immense popularity in recent years due to the belief that it is safer and better for the environment and human health because it is inherently free of synthetic chemicals that are often harmful. Demand for

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organic food touched USD 81.6 billion in 2015 according to Organic Monitor, with the USA being the largest consumer of organic food products. Organic agriculture and consequently, organically

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cultivated animal and plant products are an important and increasingly profitable segment among food products that are sold at a premium, higher than prices for conventionally produced food. The well-heeled,

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Highly-educated class of consumers that views itself as socially responsible and politically engaged is the largest consumer of organic food. The purchase and consumption of food labelled as 'Organic' is slowly but

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steadily becoming one of the means of "inconspicuous consumption" patterns that are helping the wealthy and the "nouveau riche" to distinguish itself from the rest of the society. The term 'organic agriculture'

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is sometimes synonymously used with 'sustainable agriculture'. Many universities across Europe and North America, have started graduate-level degree programs to teach organic/sustainable

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The author herself holds a Master's degree in Sustainable Agriculture Development - Food security for development. Organic farming and its potential for contributing in a

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sustainable manner (read without causing pollution) to food production has greatly won the interest of young college students across the world and this is seen as problematic by critics of organic farming.

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The increasing agricultural cultivation area under organic farming is subject to criticism. Critics and sceptics have rightly pointed out that farms managed organically have lower yields than those of

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conventional farms, are input and labour intensive and do not always help the farmer to earn profits. Organic food has also been found to be no better than conventionally produced food in terms of nutrients or

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organoleptic properties. The supporters and proponents of organic farming strongly argue in favour of the environmental and health benefits offered by organic farming and organic produce. There are studies to support

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both sides of the argument. Many books and manuals are available in the market (either free or at a cost) to help farmers adopt organic cultivation practices. These suggestions are more or less based on

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the same principles and have many methods in common with conventional agriculture.

However, the inputs are always of a non-synthetic nature. The organic agriculture manuals and guidebooks are always

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tailored to match the agro-climactic and soil conditions of the target reader audience. The manuals have systematic instructions and methods w.r.t. soil fertility management, seed/plant material

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procurement for cultivation, weed control, pest and disease management, organic animal husbandry and storage of harvested produce.

Farmers across the globe have had a mixed bag of results trying to implement

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practices recommended for their region. This book is an attempt to honestly evaluate the practical implementation of organic farming recommendations and to see their advantages and

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disadvantages. The author, as an enthusiastic, young rural development worker in India, had herself tried to promote organic sugar cane production among smallholder farmers. The results were very enlightening. The most

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important lesson learnt was that agricultural research and subsequently extension education efforts are logistically difficult to implement and are in fact, far removed from reality. The chapter on soil

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considers all the possible organic options for enhancing and maintaining soil fertility. The suggestions on the use of bulky and concentrated organic manures have been

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studied with the point of view of actually implementing these on the farm. Green manure crops and leguminous crops have also been studied for their use in improving soil N, P and K content along with the

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potential advantages and disadvantages of actually including them in a crop rotation cycle. Organic farms need to supply the correct amount of macro and micronutrients to their crops for optimum growth and

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input-substitution i.e. the use of a proportionate amount of manures to match N, P and K supplied by chemical fertilizers, is not the correct method. Input substitution can potentially lead to ground and surface

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water pollution due to leaching, just like in the case of excessive synthetic fertilizer use. It can cause a serious imbalance of macronutrients in the soil as decomposition of organic manure tends to reduce

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certain nutrients and makes others available in concentrated amounts in the soil solution. The book also discusses the logistical and financial difficulties involved in the procurement of extremely large volumes

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of organic fertilizers as mandated in many organic agriculture manuals. What many individuals, including this author before attempting organic farming, often fail to take into account is that organic

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conventional, industrial agriculture interdependent. Organic farms are permitted to use manures and organic wastes that originate from non-organically managed facilities. So an organic

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maize farm is permitted to use cow dung from a non-organically managed dairy or chicken manure from a non-organic poultry farm and hence this makes the maize farm indirectly dependent upon nutrients from

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synthetic sources. Organic agriculture and conventional farming are inextricably intertwined. For ensuring that organic agriculture grows in cultivation area, gains more consumers and that it is taken seriously,

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it should be accepted that organic and conventional farming must co-exist. The success of organic agriculture also requires the selection of seeds or planting material suited for organic cultivation

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practices and the chapter on seeds and planting material discusses the various options available to farmers. Most of the commercially available varieties of various crops in the market are either

File Type PDF Organic Farming Food Quality And High-yielding, F1 hybrids or patented GMOs that are best suited to intensive chemical fertilizer usage and heavy irrigation. These varieties do not produce viable seeds that can be used in the next cropping season for sowing

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by the farmer. This makes farmers dependent upon corporate companies for seeds every year. It is even believed that if all GMO and high-yielding varieties were to be taken out of the market, then farmers would

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be left with very few viable seed options for cultivation. The use of F1 hybrids leads to the loss of useful characteristics that may be present in indigenous, traditional varieties as these are often

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replaced by hybrid seeds. Both traditional and contemporary hybrid varieties have their place in the agricultural production system and both should be considered and used on organic farms as per

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their characteristics and utility for a farmer. This also makes a wide variety of seed choices available for organic farmers. Organic agricultural production should not be hindered due to an artificial shortage of

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seeds despite the availability of commercial, hybrid seeds. However, organic agriculture regulations prohibit the use of GMOs and seeds treated with chemical pesticides. Weed control in

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agriculture, both conventional and organic, is the most important priority for farmers. It is even said that the benefit of effective weed control for crops is comparable to the addition of fertilizers to

File Type PDF Organic Farming Food Quality And the land. Organic agriculture does not allow the use of chemical defoliant for weed control on organic farms and this leaves farmers only with mechanical and manual weed control measures. This

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steeply increases the requirement for human labour and machinery use. Organic farming is hence a very difficult cultivation system to adapt in countries where agriculture is not heavily mechanized. Even in

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countries where heavy farm machinery use for almost all agricultural tasks is the norm, elimination of herbicide use is a difficult proposition. Synthetic herbicides are applied to

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farms with standing crops to free them of weed growth so as to permit harvesting combines and other harvesting machines to pass unhindered through the crop for harvesting. The chapter discusses the various

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options available for weed control on a farm and the advantages and disadvantages associated with their use. Organic farming is highly labour intensive and the availability of labour for carrying out weeding work

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and the ability to bear the extra cost greatly determines a farm's ability to adapt organic management practices. Moreover, the health problems caused by manual weeding work for labourer also have the

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potential to cancel out all benefits accrued through the elimination of synthetic chemical usage on farms. As herbicide usage is prohibited on organic farms, so is the use of pesticides for the control of pests.

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Consumers turn to organic food because it has negligible or no pesticide residues whereas many farmers opt for organic agriculture because conventional, industrial farming ruins natural

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resources on and near the farm. The chapter on "Biological control of insects and pests" discusses the various non-chemical options available for farmers for pest control and how the natural enemies of

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pests can be deployed against pests, under certain circumstances, for keeping pest populations below the threshold of economic damage. This is far easier said than done because biological control

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mechanisms are a slow process and take many years to establish themselves.

Moreover, biological control agents such as entomopathogens and beneficial bacteria are often difficult to procure,

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store, transport and deploy on a farm. They also need to be protected against chemical treatments that may be carried out on neighbouring farms. Another risk that exists with the prolonged use of bioagents

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is the threat that they themselves might become harmful for non-target species and might even start feeding upon crop species. There have been recorded instances where insects introduced against weeds

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started feeding on the main crop itself. A farmer needs to take into consideration various permutations and combinations before choosing and using various bioagents on his field. However, the threat from bio agents is

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not as dangerous as that from the excessive and unregulated use of pesticides. Apart from plant-origin products, the customer today has also grown increasingly conscious of the quality of livestock

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products and the conditions under which they are manufactured owing to the various scandals involving adulteration of milk, meat and eggs with harmful synthetic substances (deliberate or otherwise)

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and bacterial contamination due to unhygienic production practices. People are also concerned about antibiotic overuse for rearing animals and the subsequent development of antibiotic resistance among pathogenic

File Type PDF Organic Farming Food Quality And Bacteria rendering many known drugs ineffective for treatment. There have been reports from various countries about traces of several pesticides, insecticides, drugs and hormones being detected in

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animal-origin products that could prove harmful to human health to the extent of being carcinogenic. The stated concerns have prompted an increase in the number of livestock farmers shifting to organic

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production, both for quality concerns and to earn better premium on organic milk, meat and eggs. The chapter on organic livestock farming discusses various organic livestock and poultry farming management systems

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and covers issues related to health management, record keeping, breeding strategies, cost of production and input and the various problems encountered in organic breeding of livestock. Finally, any

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business works for profit.
Organic farms are no different. For organic farming to be successful, the organic products need to be certified and marketed correctly at the optimum price point for the farmer

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to be able to recover his costs and to earn a decent profit. The final consumer must also be assured of actually receiving what he/she has paid a higher premium for i.e. truly organically produced goods.

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The prices for organic food are often very high as compared to conventionally produced food and this is expected to change once the supply of organically produced food increases and balances out the market. The

File Type PDF Organic Farming Food Quality And Market for organic food is growing at a rapid pace but the production of organic food can barely match this rate. To ensure sustainable growth of the organic food produce market, there is an urgent need to provide

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farmers with correct and practical advice for all aspects of organic farm management, to offer them assistance with record-keeping, certification, appropriate transportation and food-processing to avoid

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contamination of organic
food with prohibited
chemical substances, and
marketing of organic
produce.

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