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## The Water Footprint Assessment Manual

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appearance

Arjen Hoekstra Seminar /"Water Footprint Assessment: An Evolving Research Field /" Water Footprint Assessment State of the art focusing on what, why and how for businesses

[WEBINAR] What is a water footprint and Why it is important? | Waterpedia #WaterWednesday

Our Water Footprint | Breakthrough~~What is your water footprint?~~ Water Footprint Assessment Tool Are Electric Cars Worse For The Environment? Myth Busted Water Footprints.

Water footprint assessment on Porce River basin - 2012

Water footprint TEDxOslo - Angela Morelli - The Global Water Footprint of Humanity What's your water footprint?

The weirdness of water could be the answer | Marcia

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~~Barbosa | TEDxCERN Why Electric Cars Are So Cheap To Drive - My Tesla Model 3 Electric Bill Virtual Water WATER FOOTPRINT The Water We Eat -- Do You Know How Much Water You Eat Every Day? Food eco-footprint~~

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Stephen Leahy - Your Water Footprint: The Shocking Facts About How Much Water We Use to Make Everyda

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Scharlau :: Analysis of Water

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Where is Water? - The Water Rooms #2 ~~What's Your Water 'Footprint'?~~

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TEDxRainier - Rob Harmon - Blue is the New Green: Water Footprints Is the water footprint useful? Sustainability, Society and You: water footprints Calculate your Water Footprint My Water Footprint ~~Your water footprint revealed~~

~~| Rick Hogeboom | TEDxTwenteU Visualizing vectors in 2~~

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dimensions | Two-dimensional motion | Physics | Khan Academy ~~The Water Footprint Assessment Manual~~  
Original English version Hoekstra, A.Y., Chapagain, A.K., Aldaya, M.M. & Mekonnen, M.M. (2011) The water footprint assessment manual: Setting the global standard, Earthscan, London, UK.

## ~~Water Footprint Assessment Manual~~

The water footprint is an indicator of water use that looks at both direct and indirect water use of a consumer or producer. Indirect use refers to the 'virtual water' embedded in tradable goods and commodities, such as cereals, sugar or cotton.

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x The Water Footprint Assessment Manual 3.9 The national water footprint accounting scheme. The accounting scheme shows the various balances that hold for the water footprint related to national consumption (WF cons,nat), the water footprint within the area of the nation (WF area,nat ), the total virtual-water export (V e) and the total virtual-water import (V i) 56 3.10 The catchment water ...

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## ~~The Water Footprint Assessment Manual: Setting the Global~~

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The manual contains a complete, consistent and up-to-date overview of the method of water footprint assessment. This report offers such a manual. It covers a comprehensive set of methods for water footprint accounting.

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The water footprint of any animal product is larger than the water footprint of crop products with equivalent nutritional value. The average water footprint per calorie for beef is 20 times larger...

~~(PDF) The Water Footprint Assessment Manual~~

Provides a comprehensive set of methods for water footprint assessment Shows how water footprints can be calculated for individual processes and products, as well as for consumers, nations and businesses Contains detailed worked examples of how to calculate green, blue and grey water footprints

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Water Footprint Assessment is a four-phase process that quantifies and maps green, blue and grey water footprints, assesses the sustainability, efficiency and equitability of water use and identifies which strategic actions should be prioritised in order to make a footprint sustainable.

## ~~What is Water Footprint Assessment?~~

The Water Footprint Assessment Manual: Setting the Global Standard eBook: Maite M. Aldaya, Ashok K. Chapagain, Arjen Y. Hoekstra, Mesfin M. Mekonnen: Amazon.co.uk ...

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both direct and indirect water use of a consumer or producer. Indirect use refers to the 'virtual water' embedded in tradable goods...

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This year, IFC has made water efficiency one of the two core themes of its water strategy, and was recently part of a collaborative effort with the Water Footprint Network (WFN) to publish the Water Footprint Assessment Manual.

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The water footprint measures the amount of water used to produce each of the goods and services we use. It can be

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measured for a single process, such as growing rice, for a product, such as a pair of jeans, for the fuel we put in our car, or for an entire multi-national company.

~~What is a water footprint?~~

The Global Water Footprint Assessment Standard can be found in the Water Footprint Assessment Manual: Setting the Global Standard, published in 2011. The book offers a complete and up-to-date overview of the global standard on Water Footprint Assessment as developed by the Water Footprint Network.

~~Global Water Footprint Standard~~

The current manual is an updated, revised and expanded

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version of Water Footprint Manual: State of the Art 2009, published by the WFN in November 2009 (Hoekstra et al, 2009a). This new edition has been produced after intensive consultations with partners and researchers worldwide. Directly following the publication of the Water Footprint Manual, all partners of the WFN were invited to provide ...

~~The Water Footprint Assessment Manual: Setting the Global~~

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The Water Footprint Assessment Manual is an extremely valuable tool and standard methodology that we hope will be widely adopted by governments, non-profits, corporations, and watershed managers to ensure the sustainability of producing various goods and services in various locations and to accurately report water use and management information across product supply chains and in watersheds ...

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People use lots of water for drinking, cooking and washing, but significantly more for producing things such as food, paper and cotton clothes. The water footprint is an indicator of water use that looks at both direct and indirect water use

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of a consumer or producer. Indirect use refers to the 'virtual water' embedded in tradable goods and commodities, such as cereals, sugar or cotton. The water footprint of an individual, community or business is defined as the total volume of freshwater that is used to produce the goods and services consumed by the individual or community or produced by the business. This book offers a complete and up-to-date overview of the global standard on water footprint assessment as developed by the Water Footprint Network. More specifically it:

- o Provides a comprehensive set of methods for water footprint assessment
- o Shows how water footprints can be calculated for individual processes and products, as well as for consumers, nations and businesses
- o Contains detailed worked examples of how to calculate

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green, blue and grey water footprints o Describes how to assess the sustainability of the aggregated water footprint within a river basin or the water footprint of a specific product o Includes an extensive library of possible measures that can contribute to water footprint reduction

People use lots of water for drinking, cooking and washing, but significantly more for producing things such as food, paper and cotton clothes. The water footprint is an indicator of water use that looks at both direct and indirect water use of a consumer or producer. Indirect use refers to the 'virtual water' embedded in tradable goods and commodities, such as cereals, sugar or cotton. The water footprint of an individual, community or business is defined as the total volume of



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water footprint reduction.

As business risks associated with water intensify -- for example risks to operations, supply chains and reputation -- many corporate sustainability professionals are seeking practical tools to help them understand and assess these risks. Water Footprint Assessment tools developed primarily by the research sector are gaining attention in this context. However, there is debate among experts and non-experts about the merits of this approach. Water Footprint Assessment: A Business Guide is a concise and comprehensive digest of emerging concepts, tools and arguments around water footprint approaches. Specifically aimed at business audiences, this definitive short guide to

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the issues distils the latest in scientific and policy literature, helps sustainability leaders understand what they can, and can ' t, do with water footprint tools, includes practical experience and case studies and outlines the pros and cons of using Water Footprint Assessment and similar approaches.

Water Footprint Assessment is a young research field that considers how freshwater use, scarcity, and pollution relate to consumption, production, and trade patterns. This book presents a wide range of studies within this new field. It is argued that collective and coordinated action—at different scale levels and along all stages of commodity supply chains—is necessary to bring about more sustainable,

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efficient, and equitable water use. The presented studies range from farm to catchment and country level, and show how different actors along the supply chain of final commodities can contribute to more sustainable water use in the chain.

Water is not only used in the domestic context, but also in agriculture and industry in the production of commercial goods, from food to paper. The water footprint is an indicator of freshwater use that looks at both direct and indirect use of water by a consumer or producer. The water footprint of an individual, community or business is defined as the total volume of freshwater that is used to produce the goods and services consumed by the individual or

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community or produced by the business. This book shows how the water footprint concept can be used to quantify and map the water use behind consumption and how it can guide reduction of water use to a sustainable level. With a number of case studies, it illustrates water use along supply chains and that water consumption at one place is often linked to water use at another. For example, it is calculated that it takes 15,000 litres of water to produce 1 kg of beef, or 8,000 litres of water to produce a pair of jeans. The book shows that imports of water-intensive products can highly benefit water-scarce countries, but also that this creates a dependency on foreign water resources. The book demonstrates how water-scarce regions sometimes, nevertheless, use lots of water for making export products. It

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raises the issue of sustainable consumption: how can consumers, businesses and governments get involved in reducing the water footprints of final consumer goods?

Globalization of Water is a first-of-its-kind review of the critical relationship between globalization and sustainable water management. It explores the impact of international trade on local water depletion and pollution and identifies “ water dependent ” nations. Examines the critical link between water management and international trade, considering how local water depletion and pollution are often closely tied to the structure of the global economy Offers a consumer-based indicator of each nation ’ s water use: the water footprint Questions whether trade can

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enhance global water use efficiency, or whether it simply shifts the environmental burden to a distant location  
Highlights the hidden link between national consumption and the use of water resources across the globe, identifying the threats facing ' water dependent ' countries worldwide  
Provides a state-of-the-art review and in-depth data source for a new field of knowledge

As business risks associated with water intensify – for example risks to operations, supply chains and reputation – many corporate sustainability professionals are seeking practical tools to help them understand and assess these risks. Water Footprint Assessment tools developed primarily by the research sector are gaining attention in this context.

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However, there is debate among experts and non-experts about the merits of this approach. Water Footprint Assessment: A Business Guide is a concise and comprehensive digest of emerging concepts, tools and arguments around water footprint approaches. Specifically aimed at business audiences, this definitive short guide to the issues distils the latest in scientific and policy literature, helps sustainability leaders understand what they can, and can't do with water footprint tools, includes practical experience and case studies and outlines the pros and cons of using Water Footprint Assessment and similar approaches.

This book pursues a comprehensive, multidisciplinary



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approach in order to analyze the relationship between water and food security. It demonstrates that most of the world ' s economies lack sufficient water resources to secure their populations ' food requirements and are thus virtual importers of water. One of the most inspiring cases, which this book is rooted in, is Italy: the third largest net virtual water importer on earth. The book also shows that the sustainability of water depends on the extent to which societies recognize and take into account its value and contribution to agricultural production. Due to the large volumes of water required for food production, water and food security are in fact inextricably linked. Contributions from leading international experts and scholars in the field use the concepts of virtual water and water footprints to

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explain this relationship, with an eye to the empirical examples of wine, tomato and pasta production in Italy. This book provides a valuable resource for all researchers, professionals, policymakers and everyone else interested in water and food security.

This book highlights the concept of water footprint in different industrial sectors such as leather tanning, steel, agriculture, textile and wine. One of the very basic necessities of life which is soon going to be scarce is water, hence the environmental footprint assessments on any scale essentially includes water footprint which is being measured in various supply chains and across different product categories. According to ISO 14046, the water footprint

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assessment refers to the total freshwater volume consumed and polluted directly or indirectly across a product ' s end-to-end supply chain. This book presents, for industry purposes, the focus on identification and quantification of water trade, the scarcity, and pollution involved in the production of goods and services.

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