

Sustainability in **Coffee Production**

Creating Shared Value Chains in Colombia

Andrea Biswas-Tortajada and Asit K. Biswas

Foreword by Juan Manuel Santos, President of Colombia

Epilogue by Peter Brabeck-Letmathe, Chairman, and Paul Bulcke, CEO, Nestlé



Sustainability In Coffee Production Creating Shared Value Chains In Colombia

Christopher M. Bacon



Sustainability In Coffee Production Creating Shared Value Chains In Colombia:

Sustainability in Coffee Production Andrea Biswas-Tortajada, Asit K. Biswas, 2015-06-12 Coffee as a commodity and through its global value chains is the focus of much interest to achieve fair trade and equitable outcomes for producers processors and consumers It has iconic cultural and economic significance for Colombia which is one of the world's major coffee producers for the global market This book examines sustainable coffee production in Colombia specifically the initiatives of Nestl to create shared value It describes the transformation of the coffee landscape by the development of economically socially and environmentally viable and dedicated supply chains Suppliers have been encouraged to shift production and quality paradigms in order to develop long term and sustainable strategies for higher value and premium quality products This has been partially achieved by establishing a robust partnership with the Coffee Growers Federation and other public private and social actors thereby taking control of the institutional architecture and knowledge base that exists in the country The book provides an important lesson of corporate social responsibility and the creation of shared value for the benefit of farmers corporations and consumers *Coffee - Growing, Processing, Sustainable Production* Jean Nicolas Wintgens, 2012-10-29 Vom Kaffeepflanzer bis zum Studenten der tropischen Landwirtschaft reicht der Leserkreis für diesen Leitfaden geschrieben wurde Vierzig Autoren aus den wichtigsten Kaffeexportnationen besprechen alle Fragen des Anbaus von Kaffee aus pflanzenbiologischem und technologischem Blickwinkel und erläutern Gesichtspunkte der Vermarktung und des Welthandels Der mit rund 900 Illustrationen ein Drittel davon in Farbe verschwenderisch ausgestattete Text wird sinnvoll ergänzt durch einen umfangreichen Datenanhang Für diese zweite Auflage wurde das Werk komplett auf den neuesten Stand gebracht **Climate-smart production of coffee** Prof Reinhold Muschler, 2022-10-04 Unique focus on achieving more resilient climate smart coffee cultivation Distinctive agroecological approach based on improving cultivation through optimising ecosystem services Comprehensive coverage of the value chain in coffee cultivation from breeding to pest management and post harvest practices **The State of Sustainable Coffee** Daniele Giovannucci, 2003 **Sustainability Analysis of Coffee's Value Chain in Mexico and Colombia: a Customer Oriented Approach** Camilo Andrés Peña Moreno, 2013 **Has the Coffee Federation Become Redundant?** Rosemary Thorp, 2000 Concerns the National Federation of Coffee Growers of Colombia **Climate-smart Production of Coffee** Reinhold Muschler, 2022 Coffee cultivation faces a number of crucial challenges including increasing biotic and abiotic stresses related to climate change concern about its environmental impact and the vulnerability of many smallholder coffee farmers Climate smart production of coffee Improving social and environmental sustainability addresses the need for more resilient and sustainable methods of cultivation which produce high quality products with minimum environmental impact while still protecting smallholder livelihoods The book considers ways of assessing and improving social sustainability including the role of speciality coffees in improving smallholder incomes as well as ways coffee production can be optimised throughout the value chain from breeding

through to postharvest Coffee is extremely susceptible to a range of pests and diseases such as soil borne and other insect pests nematodes and diseases such as coffee leaf rust This new book reviews recent advances in sustainable crop protection methods on coffee farms and plantations around the world with a particular focus on integrated pest and disease management programmes With contributions from a wide range of internationally renowned experts the book shows how coffee production can be made more economically environmentally and socially sustainable in the face of climate change

Ensuring Economic Viability and Sustainability of Coffee Production Jeffrey D. Sachs, 2020 Coffee the world's favorite beverage provides livelihoods for at least 60 million people across dozens of countries Yet this beloved drink is experiencing a sustainability crisis A sustained decline in world coffee prices has squeezed coffee producers and thrown a tremendous number of producers below the global extreme poverty line This report presents our research into sustainability within the coffee sector including the results of our analytical and empirical modeling and provides several recommendations

Resilience and Community-based Development Marcela Carvajal, 2006 *E-guidebook on Sustainable Coffee Consumption* Universiteit Maastricht, 2024-02-05 Coffee consumption is experiencing a rapid increase worldwide Unfortunately this increase is in parallel with the increase in the waste of Spent Coffee Grounds SCG Each day countless coffee shops and households discard substantial quantities of coffee grounds contributing to landfill waste and environmental degradation These discarded grounds are rich in organic matter and nutrients making them a valuable resource that could be repurposed rather than wasted By diverting spent coffee grounds from landfills we can reduce greenhouse gas emissions and promote sustainability Innovative solutions such as using coffee grounds for composting biofuel production or even as an ingredient in various products are emerging to address this issue Tackling the problem of spent coffee grounds waste is not only an environmental imperative but also an opportunity to harness the latent potential of this byproduct to benefit our planet and society The ECOffee project has been developed in order to provide significant environmental and social benefits by promoting sustainable coffee practices and habits to coffee consumers and coffee owners To achieve this and in order to develop this e guidebook partners from six European countries Hungary Cyprus Portugal the Netherlands Greece and Slovenia joined forces in the development of this e guidebook along with video tutorials and a consumer smartphone application The objective of our ECOffee consortium is to 1 train coffee consumers towards sustainable habits and provide incentives to follow such profile 2 enhance cafeteria owners and adult educators portfolio with a unique guide on how to train coffee consumers to obtain a sustainable consumption profile 3 offer an easy and accessible educational material and methods in the form of open educational resources and ready to use material for cafeteria owners coffee shop employees and adult trainers *Confronting the Coffee Crisis* Christopher M. Bacon, 2008 Explores small scale farming the political economy of the global coffee industry initiatives that claim to promote more sustainable rural development in coffee producing communities **Effects of Climate Change on the Coffee Supply Chains** Nelson Mateo Ariza Lemus, 2019

Around 125 million people economically depend on coffee production for most part of their subsistence In Colombia alone there are more than 500 000 coffee farmers These coffee farmers are faced with the challenges brought up by climate change Changes in rainfall patterns intense dry periods and faster spread of coffee pests are among the new problems these coffee farmers must face However to better understand the impact that global warming is having on the coffee supply chain it is relevant to examine the whole supply chain This study analyses the Colombian coffee supply chain by qualitatively exploring how certain Stakeholders are being affected by climate change and what adaptation strategies they are implementing The research proposes a conceptual framework to analyze coffee supply chains together with the latest synthesis report by the Intergovernmental Panel on Climate Change and concepts of supply chain resilience Its primal source of data is constructed through semi structured interviews with Stakeholders of the Colombian coffee supply chain The conceptual framework allowed for a better understanding of the dynamics experienced by these Stakeholders regarding climate change Adaptation strategies and impacts due to climate change were established for every Stakeholder The conceptual framework permitted a construction of a series of recommendations to improve the resilience of the Colombian coffee supply chain The research shows that the coffee supply chain is being affected by climate change Disruptions are having an impact on quality and quantity of coffee produced and there is the need to strength the communication channels that connect the various Stakeholders to secure the future of coffee production

Coffee Politics and Trade Policy in Colombia José Pérez-Toro,2002 A deep archive enquire reveals to the author that the management of the Colombian Coffee Industry during the last quarter of a century did not accomplish the best management practices as the Williamson and Coase fundamental transaction cost theorem proclaimed This iron management theorem was defeated by institutional deceit Allocating coffee economic surplus with purposes other than commercial left the major Colombian Industry at the margin of world coffee business as a purposeful policy organized by the Federation of Coffee Growers of Colombia did not materialize in the internationalization of the industry as suggested by new microeconomic s theory As consequence of Clientelista politics adopted by Colombia coffee ruling barons the industry as such did not participate and will be out of the world value chain business where US 43 billion out of total US 50 billion revenue is shared by market makers and not by third world producers

Harvesting Coffee, Bargaining Wages Sutti Ortiz,1999-11-24 A close ethnographic study of how culture power gender and institutions affect labor exchanges

Colombian Coffee Politics and Trade Policy in the Next Millennium José Pérez-Toro,2004 A deep archive enquire reveals to the author that the management of the Colombian Coffee Industry during the last quarter of a century did not accomplish the best management practices as the Williamson and Coase fundamental transaction cost theorem proclaimed This iron management theorem was defeated by institutional deceit Allocating coffee economic surplus with purposes other than commercial left the major Colombian Industry at the margin of world coffee business as a purposeful policy organized by the Federation of Coffee Growers of Colombia did not materialize in the

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Trading Practices for a Sustainable Coffee Sector Jason Potts, Guido Fernandez, Christopher Wunderlich, International Institute for Sustainable Development, Sustainable Coffee Partnership, 2007-01-01 *The Coffee Economy of Colombia* George Kalmanoff, World Bank, 1968 **Analyzing Organic and Fairtrade Certification Schemes: Participation and**

Welfare Effects on Small-Scale Farmers in Coffee Value Chains Tina Beuchelt, 2012-05-30 Organic and Fairtrade certified coffees have become very popular among socially environmentally and health conscious consumers in recent years As consumers pay higher prices for these certified coffees it is commonly assumed that compared to conventional coffee better producer prices are paid and that higher shares of the added value in consuming countries trickle down to the producers Coffee certifications are thus supposed to benefit the coffee producers Coffee is an important export good for many developing countries The majority of global coffee production comes from around 20 25 million smallholder families in developing countries As individual certifications are too expensive smallholders have to participate in farmer organizations e g cooperatives in order to access cheaper group certification Governments and international donors support coffee certification schemes and assume that these link farmers to high value markets increase producers incomes change power and information asymmetries in value chains and contribute to poverty reduction Yet there is only weak empirical evidence that justifies this support There are few quantitative studies which applied random sampling techniques and analyzed the effects of certification schemes in regard of gross margins profits income shares and poverty levels of certified smallholder coffee producers The role of cooperatives for the success of certification schemes has been neglected by research The available studies have methodological limitations for example they are based on qualitative methods only include no more than one cooperative or one certification standard or cooperatives are non randomly sampled This research seeks to fill the identified knowledge and methodological gaps Through a combination of qualitative and quantitative research the production and marketing strategies of small scale coffee producers in northern Nicaragua are compared based on producers that are organized in conventional organic and Organic Fairtrade certified cooperatives The analysis addresses i the smallholders household level and ii the organizational and institutional level with regard of the cooperatives and respective coffee value chains The study aims at first identifying the socio economic costs and benefits of participation in organic and Organic Fairtrade certified coffee chains with respect to level of coffee and household incomes as well as household poverty Second it is examined which role the farmer organizations their respective business models and upgrading strategies play for the success or failure of certification schemes Third the integration of coffee farmers and their cooperatives into the coffee value chain the structure and functioning of the value chains and the value adding effect of certification is examined The survey

was conducted in the northern Nicaragua departments Madriz Nueva Segovia and Matagalpa on coffee farms situated between 900m and 1300m a s l The coffee of all farmers was classified as Strictly High Grown the species is Coffea Arabica The sample design ensured that the research region was homogeneous with respect to living conditions socio economic level as well as coffee growing characteristics driving performance of coffee farmers After having randomly selected the cooperatives 327 coffee producing households were also randomly selected and surveyed with a structured questionnaire Qualitative data collection consisted in total of 58 key person interviews 67 semi structured farmer interviews and 24 focus group discussions with coffee farmers The primary data was collected during two research stays in 2007 and 2008 This research analyzes gross margins accounting and economic profits of coffee production The household income is measured and a poverty headcount index elaborated Principal component analysis is used to determine current relative poverty levels and the development of relative poverty over time A SWOT analysis identifies the strengths weaknesses opportunities and threats of cooperatives Through a value chain analysis information on the actors power and information flows as well as price shares is gained For identifying the farmers experiences with coffee certification schemes a thematic analysis is applied to the qualitative data by developing an individual code system for data reduction In the research region the coffee yields of conventional and certified coffee smallholders are usually 40% to 50% lower than national average due to limited maintenance activities and inadequately managed coffee plantations Highest yields on average around 480kg ha are achieved by organic producers but yield levels vary like for conventional and Organic Fairtrade certified producers between the cooperatives ranging from 293kg ha to 516kg ha In comparison to conventional prices Organic Fairtrade certified coffee achieved on average 11% and organic coffee 8% higher farm gate prices price differences between cooperatives also exist Organic production processes require fewer purchased inputs but are more laborious Due to constrained availability of family labor additional labor has to be hired which offsets saved input costs The higher prices of certified coffees compensate for production costs but fail to increase per hectare gross margins and profits in the case of Organic Fairtrade farmers compared to conventional produces Due to higher yield levels organic producers experience an increase in per hectare gross margins and profits They have with 328US ha a significantly higher economic profit than Organic Fairtrade farmers 147US ha and conventional farmers 191US ha Yet as they tend to have smaller coffee areas and larger family sizes the increase in gross margins does not result in improved per capita net coffee incomes for organic certified producers compared to the other groups Also Organic Fairtrade certified producers do not have higher per capita net coffee incomes than conventional producers Among organic and Organic Fairtrade certified producers a higher share of households is grouped below the extreme poverty line than among conventional producers 45% compared to 30% which means that they cannot cover their food requirements Between 60% and 70% of conventional and certified coffee producers are below the national poverty line Using principal component analysis to investigate several dimensions of poverty and their development over time it was

found that over a period of ten years organic certified producers became relatively poorer. In the year 1997 all groups had similar relative poverty levels. The Organic Fairtrade certified producers first improved their relative poverty status during the coffee crisis in 2002 and were relatively better off than conventional producers. Since then the relative poverty levels of Organic Fairtrade producers deteriorated compared to conventional producers. Irrespective of whether farmers were certified or not, Nicaragua's coffee smallholders face two to three months of food shortages per year during which they seek off-farm employment and apply for formal and informal credits. In many cases the credit is used for immediate consumption needs like food or medicine and only partially invested in the farm. Consequently, harvested yields stay low, leading to low incomes and new credit requirements. When farmers are financially illiterate or requested higher credits than their payment capacity, they are likely to enter a vicious cycle of indebtedness. Each cooperative has a unique business model; they differ, for example, in member size, functions, and services, internal organization, and financial characteristics. Despite their different business models, the cooperatives often choose the same upgrading strategies as other cooperatives, mainly certification, quality, and own processing. The analysis of strengths, weaknesses, opportunities, and threats (SWOTs) showed that the cooperatives have certain SWOTs in common, but there are also cooperative-specific SWOTs. The common strength of the cooperatives is the quality potential of the region. The common weaknesses relate to the lack of credit access, a weak extension system, and weak rural infrastructure. The common threats of the cooperatives are high competition among national coffee buyers and cooperatives, corruption, and mismanagement, and according to the qualitative interviews, increasing microclimatic variations and unreliable rainfall patterns. The common opportunities range from more horizontal coordination to reduce transaction costs, to share certificates, acknowledging the members' possessions in the cooperative, and increased transparency about deductions on payments. Qualitative evaluation indicated no obvious association between the coffee certification strategy of farmers, their cooperative, and the coffee gross margins farmers obtained. The upgrading strategies of cooperatives, the strengths and weaknesses, as well as the amount of coffee-related services which the cooperative offers to producers, tend to be more related to coffee gross margins than the organic or Organic Fairtrade certification. Farmers are found to have no bargaining power over prices, irrespective of the value chain, while certified cooperatives have limited bargaining power towards their buyers compared to cooperatives in the conventional chain. Power is unequally distributed between buyers and sellers of coffee in all chains. The quantity and quality of information flows depends on the cooperative and value chain model. Information asymmetries are fewer in certified chains, yet this also depends on the cooperative. Organic Fairtrade certified value chains tend to have more and smaller sized actors, especially in consuming countries, compared to the conventional chain. This increases transaction costs in the certified value chains and thus leads to substantially lower producers' share of the final coffee retail price: 8%–15% in certified chains compared to 24%–34% in conventional chains. The presented results depend strongly on each cooperative, and there are large variations within the

organic and Organic Fairtrade certified cooperatives It can be concluded that higher farm gate coffee prices do not lead necessarily to higher per capita net coffee and household income as yield levels production costs family and land size as well as labor availability play important roles Organic or Organic Fairtrade certification as an upgrading strategy seems only then successful when the business model of a cooperative its strengths weaknesses and other upgrading strategies are supportive Given the constraints mentioned above a well functioning cooperative is a necessary but not sufficient condition This was shown by the example of one well run Organic Fairtrade certified cooperative with low gross margins showed The main causes of continuing poverty among smallholder coffee growers in northern Nicaragua seem not the lack of market access or so called unfair trading conditions Based on the qualitative analysis reasons for poverty are lack of entrepreneurial and management skills of farmers and cooperative staff financial illiteracy and indebtedness of farmers as well as a very weak rural infrastructure Based on the quantitative results potential reasons for poverty are low yield and productivity levels land and labor constraints Certification schemes do not address or are able to solve these problems Prices for certified coffee cannot compensate for low productivity land or labor constraints Therefore certification schemes can only be part of a viable development policy for poor small scale farmers in northern Nicaragua the production infrastructural organizational and institutional problems mentioned above require even more attention from policy makers It is recommended that policies which aim at increasing smallholder coffee incomes through upgrading should focus apart from production aspects on the institutional context of smallholders and their cooperatives Regarding coffee production policies should address coffee yield levels for example through research investments in improved stress tolerant and locally adapted varieties to encounter the microclimatic variations Coffee quality in the region should be further strengthened by a supportive coffee sector strategy at the national level which should include a national coffee institute or federation like in Colombia or Costa Rica This should be accompanied by investments in rural infrastructure It is recommended to establish an efficient extension system which also addresses the entrepreneurial skills of farmers This could be also in form of facilitating the establishment of extension associations which could operate regionally and be financed by their members contribution In order to better link farmers to high value markets and to increase their income it is recommended to focus more on the structure and functioning of producer organizations and their respective value chains Business and strategic advice to cooperatives is necessary as cooperative leaders and staff are not fit for international markets in which they have to act A banking system which also provides credits to cooperatives at market interest rates and lending conditions would reduce the reliance and dependence on exporters or international credit providers and could ease liquidity constraints of cooperatives An obligatory annual external auditing of cooperatives like it exists in other countries is considered to be important to reduce mismanagement of a cooperative It will also increase the creditworthiness of cooperatives for banks Trade processing and marketing efficiencies in the organic but especially in the Fairtrade value chains in consuming countries need to be improved in the alternative

trade sector with its many small profit or non profit enterprises and organizations These actors could consolidate to exert economies of scale and reduce their transaction costs Consolidation is certainly a new way of thinking in the alternative trade sector but could effectively contribute to improve farmers shares of retail prices and raise farm gate coffee prices

Brewing a Sustainable Future Monique Joy Barry,2004 **Organic Coffee** Maria Elena Martínez-Torres,2006 Provides a unique and vivid insight into how this coffee is grown harvested processed and marketed to consumers in Mexico and in the north

Unveiling the Magic of Words: A Overview of "**Sustainability In Coffee Production Creating Shared Value Chains In Colombia**"

In a world defined by information and interconnectivity, the enchanting power of words has acquired unparalleled significance. Their capability to kindle emotions, provoke contemplation, and ignite transformative change is really awe-inspiring. Enter the realm of "**Sustainability In Coffee Production Creating Shared Value Chains In Colombia**," a mesmerizing literary masterpiece penned by way of a distinguished author, guiding readers on a profound journey to unravel the secrets and potential hidden within every word. In this critique, we shall delve to the book is central themes, examine its distinctive writing style, and assess its profound impact on the souls of its readers.

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Table of Contents Sustainability In Coffee Production Creating Shared Value Chains In Colombia

1. Understanding the eBook Sustainability In Coffee Production Creating Shared Value Chains In Colombia
 - The Rise of Digital Reading Sustainability In Coffee Production Creating Shared Value Chains In Colombia
 - Advantages of eBooks Over Traditional Books
2. Identifying Sustainability In Coffee Production Creating Shared Value Chains In Colombia
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Sustainability In Coffee Production Creating Shared Value Chains In Colombia
 - User-Friendly Interface
4. Exploring eBook Recommendations from Sustainability In Coffee Production Creating Shared Value Chains In Colombia
 - Personalized Recommendations
 - Sustainability In Coffee Production Creating Shared Value Chains In Colombia User Reviews and Ratings

- Sustainability In Coffee Production Creating Shared Value Chains In Colombia and Bestseller Lists
- 5. Accessing Sustainability In Coffee Production Creating Shared Value Chains In Colombia Free and Paid eBooks
 - Sustainability In Coffee Production Creating Shared Value Chains In Colombia Public Domain eBooks
 - Sustainability In Coffee Production Creating Shared Value Chains In Colombia eBook Subscription Services
 - Sustainability In Coffee Production Creating Shared Value Chains In Colombia Budget-Friendly Options
- 6. Navigating Sustainability In Coffee Production Creating Shared Value Chains In Colombia eBook Formats
 - ePub, PDF, MOBI, and More
 - Sustainability In Coffee Production Creating Shared Value Chains In Colombia Compatibility with Devices
 - Sustainability In Coffee Production Creating Shared Value Chains In Colombia Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Sustainability In Coffee Production Creating Shared Value Chains In Colombia
 - Highlighting and Note-Taking Sustainability In Coffee Production Creating Shared Value Chains In Colombia
 - Interactive Elements Sustainability In Coffee Production Creating Shared Value Chains In Colombia
- 8. Staying Engaged with Sustainability In Coffee Production Creating Shared Value Chains In Colombia
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Sustainability In Coffee Production Creating Shared Value Chains In Colombia
- 9. Balancing eBooks and Physical Books Sustainability In Coffee Production Creating Shared Value Chains In Colombia
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Sustainability In Coffee Production Creating Shared Value Chains In Colombia
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Sustainability In Coffee Production Creating Shared Value Chains In Colombia
 - Setting Reading Goals Sustainability In Coffee Production Creating Shared Value Chains In Colombia
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Sustainability In Coffee Production Creating Shared Value Chains In Colombia
 - Fact-Checking eBook Content of Sustainability In Coffee Production Creating Shared Value Chains In Colombia

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

Sustainability In Coffee Production Creating Shared Value Chains In Colombia Introduction

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