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Trends in the Trade of Certified Coffees



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Abstract

The coffee segment that is known as sustainable has grown much faster than nearly any other industry segment in the past decade. It is difficult to understand both the market trends and the impacts of these coffees and it is therefore difficult for producers, industry and even consumers to make rational decisions. This paper consolidates the best available data on the global trade volumes for all of the certified (or verified) coffee in the past decade and the distribution by major geographic regions.

Keywords: sustainability, coffee, certification, Fairtrade, FLO, Organic, Utz Certified, Rainforest Alliance, 4C.

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Foreword

“Trends in the Trade of Certified Coffees” was written by Joost Pierrot¹, Daniele Giovannucci², and Alexander Kasterine³. This is part of a series of Sustainability Market Assessments produced under the ITC’s Trade, Climate Change and Environment Programme, financed by the Government of Denmark. It has benefited from the comments of Morten Scholer, Senior Adviser and Oliver von Hagen, Associate Expert in the ITC.

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Trends in the Trade of Certified Coffees

Introduction

This report presents an overview of the market trends for coffee certified as “sustainable” over most of the past decade.

Coffee is the world's most important agricultural crop in terms of trade volumes; it is exported by 60 countries and is one of the few major commodities grown predominantly by smallholder farmers.⁴ The livelihoods of millions of these producers, as well as their environmental and social situations, have faced increasing risks in the past decade.

One result has been the emergence of new standards as market mechanisms with which to commercialize certain coffees and thereby capture the economic value of the environmental and social benefits arising from production systems that are compliant with these standards..

Coffees that adhere to various combinations of social, environmental, and economic standards, and that are independently certified⁵ by an accredited third party, have been collectively termed "sustainable coffees".

The sustainability coffee segment has grown fast in recent years, but it has also grown unevenly. It is difficult to understand the trends and therefore difficult for producers, industry and even consumers to make rational choices. Data for these coffees has improved in recent years yet there is no consistent source of accurate information for them; most are not tracked in official government trade statistics. The **summary Figure** in Section 7 offers a compilation of sales volumes for the different certifications from 2004 to 2009.

This study presents only the total volumes of traded coffee for each of the main sustainability standards. The actual **production volumes are considerably higher** than this.⁶ In some cases, not all certified coffees meet buyer requirements and portions of the production (e.g. lowest quality) may be sold into other channels and not traded as a certified coffee although it was indeed certified or verified. Buyers may purchase sustainable coffees but not use all of them in certified products. Sometimes the same coffee is sold as one or another certification label though it may bear multiple labels.

⁴ Lewin B., D. Giovannucci, P. Varangis. 2004. Coffee Markets: New Paradigms in Global Supply and Demand. World Bank: Washington DC. Available online: http://papers.ssrn.com/sol3/papers.cfm?abstract_id=996111

⁵ The Common Code for the Coffee Community is an exception and uses a ‘verification’ system instead of ‘certification’. See Chapter 6.

⁶ Potts, J., J. van der Meer, J. Daitchman. 2010. The State of Sustainability Initiatives: Review 2010 IISD: Winnipeg.

The data presented in this study includes coffees that are certified by other schemes and it is difficult to present an aggregate figure that is completely accurate since the same coffees are increasingly certified to multiple standards. However, we are reasonably certain of the estimation that 8% of the global trade in green coffee was certified as sustainable in 2009.⁷

Although the sustainability standards are voluntary and not required by law, they are increasingly becoming *de facto* requirements for certain buyers. Like many agricultural commodities, coffee is being seriously affected by such concerns, now embodied in trade standards, for sustainability and quality.⁸ The costs and benefits to producers of these standards are not yet clear.⁹ It is clear however, that if these standards are to have a significant positive impact on producers and the industry, then they need to be better understood so they can be better managed.¹⁰

Apart from two private company standards that are active and important, namely those used by Starbucks¹¹ and Nespresso¹², the major standards are publicly managed and much more widely used by roasters and retailers. These include: Fairtrade, Organic, Utz Certified, and Rainforest Alliance – and these are the ones primarily covered in this report. Another fast-growing sustainability initiative, the Common Code for the Coffee Community (4C), is verification-based (not certification) and is also covered in this report.¹³

Methodology

The authors collected this data throughout 2010. Significant portions come from desk research and include internal and external reports of the initiatives themselves, though some of the reports are not publicly available. The work also utilized surveys and a number of key expert interviews, particularly in countries of origin. For Organics, sources for data are primarily a number of collaborators in the exporting countries that were contacted individually and secondary data, in some cases, came from various reports and some ICO export statistics, where these are reasonably complete.

⁷ D. Giovannucci (2010) Online: http://dev.ico.org/event_pdfs/wcc2010/presentations/wcc2010-giovannucci-e.pdf This 2009 estimate did not include 4C numbers

⁸ Giovannucci, D. and S. Ponte. 2005. Standards as a new form of social contract? Sustainability initiatives in the coffee industry. *Food Policy* 30: 284–301.

⁹ Blackman, Allen, Jorge Rivera. 2010. Environmental certification and the Global Environment Facility. Prepared for the United Nations Environment Programme's Scientific and Technical Advisory Panel of the Global Environment Facility. UNEP: Geneva

Giovannucci, D, J. Potts, B. Killian, C. Wunderlich, G. Soto, S. Schuller, F. Pinard, K. Schroeder and I. Vagneron. 2008. Seeking Sustainability: COSA Preliminary Analysis of Sustainability Initiatives in the Coffee Sector. Committee on Sustainability Assessment-IISD: Winnipeg, Canada.

¹⁰ Bacon, C. 2005. Confronting the coffee crisis: Can fair trade, Organic and specialty coffee reduce small-scale farmer vulnerability in Northern Nicaragua? *World Development*, Vol. 33, No. 3, Elsevier.

¹¹ Starbucks is the world's single largest seller of sustainable coffees.

¹² Nespresso, one of the fast growing brands of the global food giant, Nestle, expects to post sales of more than SFr 3 billion in 2010.

¹³ 4C verification differs from certification in that it is a check on the correctness of the self assessment completed by the farm or group and not an independent assessment.

Volumes shown are for each individual initiative and in most cases these numbers include coffees that are certified or verified by other initiatives as well. Taken in simple aggregate, the individual numbers would actually overstate the combined total volume of these certified coffees. Care must be taken when making global claims to ensure a reasonable accounting of the double and even multiple certifications applying to the same coffee.

1. Trends in demand

A bright spot in a stagnant market

A recent study¹⁴ by the International Coffee Organization (ICO) examined the trends in overall demand (all coffees not just “sustainable”) for seven of the world's major coffee consuming countries. The countries studied represent the more established and mature coffee markets and include the U.S., Germany, Japan, Italy, France, Spain, and Sweden, which together account for nearly 44% of total global demand. In contrast to the robust levels of growth in some of the newer emerging markets, the conventional coffee markets in these countries are not thriving.

Despite some modest overall growth, the per capita consumption in many of the traditional markets has been flat or trending downward in the entire decade of the 2000s. Italy and Japan are exceptions. For most of these countries neither price changes nor promotions are making much of a difference. However, within these large markets there are segments of distinct growth. Differentiated coffees, including specialty and certified coffees, are attracting new consumers and fetching higher prices; they may be buoying an otherwise stagnant industry.

The trend set by the coffee industry towards sustainability certification has been followed in other commodity industries including tea, cocoa, and cotton; the coffee sector has been the primary driver for the development of various types of certifications (and a verification system), creation of hundreds of inspection agencies, and many thousands of trained technicians that facilitate the adoption of new standards in other agricultural commodities.

Emerging from just a niche market

Certified coffee is no longer a small market niche. In 2009, more than 8% of all the green coffee exported worldwide had some form of certification or credible claim of sustainability.¹⁵ The Netherlands is the leader in market share with almost 40% of its coffees now certified. The U.S. market is second with 16% of all coffee imports as certified. Certified coffees in Denmark, Sweden, and Norway have passed 10% market share.¹⁶ This is likely the case also in smaller markets such as Switzerland and Belgium. The market share in Germany is nearly 5%. Northern European markets from the United Kingdom across to the Nordic countries tend to have higher levels of awareness and demand for such coffees. Italy and France are both showing several percent shares while neighboring countries such as Spain, Portugal and Greece have very low levels of penetration.

Emerging markets

¹⁴ ICO, 2010. Coffee consumption in selected importing countries.

¹⁵ ICO World Coffee Conference/ Daniele Giovannucci (2010) Available online:

http://dev.ico.org/event_pdfs/wcc2010/presentations/wcc2010-giovannucci-e.pdf

¹⁶ Danskcaffenetvaerk

Certified coffees are growing in other non-traditional markets as well. In South Korea, Australia and Singapore they are already highly visible in retail market outlets. The same is true, but only in the largest urban areas, for China, India, Mexico, Chile and Brazil. Japan, a major consuming country accounting for approximately 6% of total global coffee demand, has seen the market share of certified coffees grow faster than nearly any other segment.¹⁷

Different schemes differ in market share by country

Sustainability certification and verification schemes are not evenly distributed across consumer markets. Organic coffee is more important in Germany, Canada, Australia, Italy and the United States. Fairtrade is dominant in the United Kingdom and France (and now the U.S.).¹⁸ Rainforest Alliance is a leader in Japan and also important in Western Europe. Utz Certified coffee is dominant in the Netherlands and holds a strong position in several northern European markets.

2. Fairtrade (FLO) certified coffee



Fairtrade coffee standards are set by the Fairtrade Labelling Organisations International (FLO).¹⁹ FLO-Cert is a separate organization and the most important Fairtrade certification service globally, serving clients in more than 70 countries.

The coffees certified as Fairtrade are the only coffees guaranteed to provide a minimum price to producers when sold and are produced exclusively by organized smallholder farmers. The global sales of FLO certified coffee are shown disaggregated by region from 2004 to 2009 in Table 1.

Table 1. Total worldwide sales of FLO-certified coffee (60kg bags)

	Not comparable to new (green bean) data				New and comparable	
	2004	2005	2006	2007	2008	2009
Europe	279,400	352,065	429,915	521,065	767,300	855,717
North America	123,385	210,685	430,600	504,565	578,567	636,917
Australia/NZ	na	1,650	4,765	7,500	18,500	26,567
Japan	915	2,165	2,450	3,685	5,833	6,533
Others						483
Total	403,700	566,565	867,730	1,036,815	1,370,200	1,526,216

NB: due to reporting differences, the data from 2008-09 are green bean equivalent and comparable with other certifications. However 2004-2007 are not. Calculations are based on FLO consumer country sales rather than coffee exported from origin (the latter is a slightly lower number in 2009 and higher in 2008) with average distribution being roasted (97%) and soluble coffees (3%).

¹⁷ Average coffee consumption in Japan for the period 2000 to 2008 increased 0.7% per year, according to the 2010 ICO study: "Coffee consumption in selected importing countries."

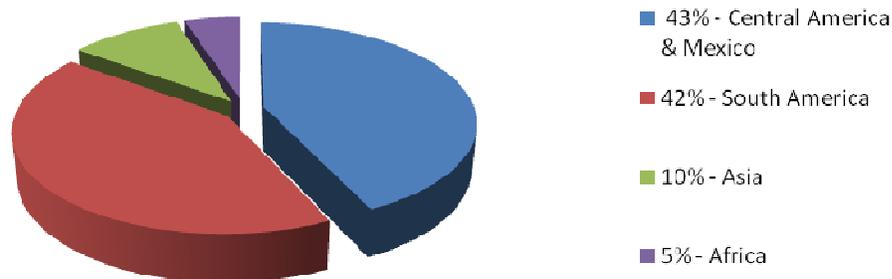
¹⁸ the single largest sustainability certification in the United States is a private one: Starbucks C.A.F.E. Practices®

¹⁹ <http://www.fairtrade.net>

Fairtrade is the only major certification system actively tracking dual certification or the amount of FLO certified coffee that is also certified as Organic. The combination of Fairtrade and Organic has been, by far, the most popular combined certification offered to the market. In 2009, 42% of all Fairtrade sales also bore the Organic certification, this is a decline from 2008 when 48% was Organic and 52% was conventional.

Worldwide sales of Fairtrade coffee increased in 2009 by just over 11%, compared with 2008. Major markets include the U.S., UK, Germany, France and the Netherlands. The U.S. is the largest single market with imports of 830,000 bags in 2009 and Figure 1 indicates the origins of its imports.

Figure 1. Origin of imports of Fairtrade coffee into the United States (2009)



Source: Transfair USA

Globally, Peru is the largest exporter of Fairtrade coffee, followed by Colombia, Mexico and Nicaragua. Indonesia leads Asian exports and Ethiopia and Tanzania are the most important origins from Africa.

3. Organic certified coffee

Organic²⁰ is the first sustainability certification in agriculture. It is also the only standard that has been codified into law in many countries. Using the word "Organic" or its translations such as "bio" is regulated by law in many of the major markets. For some, this weight of law conveys an additional level of credibility since the consequences for violation or misuse of the standard are clearly mandated.

Official Organic Seals in EU, USA, Japan.



Organic coffee is the most important category of sustainable coffees, both in quantity and value. In this first decade of the century, global sales have increased by almost 250%.

²⁰ <http://www.ifoam.org>

Although it is the most widely available certification, growth in sales in recent years have begun to slow from their earlier levels.

In most markets, Organic growth still far outpaces the growth of comparable conventional coffees despite the higher price of Organics and the recent economic pressures during the recession (2008-2010). Organic premiums reflect some of the rigorous requirements and are the highest of any coffee. However, and perhaps surprisingly, the rates of new Organic certification for coffee are slowing at the close of the decade. According to some reports, a major reason is that substantial portions of the price premiums paid for organic certification are not reaching producers.²¹ Profitable intensive farms have little incentive to convert. Also, using higher levels of agrochemicals, they face high risks in converting to organic production through potential falls in yield, adapting to new pest and disease management methods, building fertility, and find new markets.²²

Other standards are recently growing at a faster rate particularly with large mainstream roasters. Other standards may be preferred by industry because most have less stringent requirements about agrochemicals, offer faster conversion times to qualify for certification, and offer a lower price premium for the producer.²³ Without further impact assessment research, it is not clear if this easier qualification reflects in different levels of benefits to producers.

Table 2 offers estimates of the import volumes of certified Organic coffee, disaggregated by region, from 2004 to 2009. Organic is one of the most difficult certifications for which to collect reliable data. No government or customs agency effectively tracks Organic coffee imports, although Canada will begin doing so. Peru is one of the few countries publishing export data for its Organic exports²⁴. Even cash register data is incomplete. This is compounded by the many certifying agencies and slightly different standards for Organic coffee, most of which do not share data on volume or value or, worse, do not collect it. The only viable alternative therefore is to survey the significant Organic coffee importers or trade associations.^{25,26} Import statistics for the North American market (U.S. and Canada) are very reliable, coming from surveys covering about 95% of the industry, and collected since 2000. For Europe and Japan, the first statistics on Organic coffee sales were collected systematically in 2003.²⁷

²¹ Expert interviews – but data mostly anecdotal not empirical.

²² The technology adoption literature is broad but little empirical work has analysed the reasons for adoption of sustainable agriculture: See inter alia, Cary, J. W. and R. L. Wilkinson (1997). Perceived profitability and farmers' conservation behaviour. *Journal of Agricultural Economics* 48(1), 13{21. Midmore, P., Padel, S., McCalman, H., Isherwood, J., Fowler, S. & Lampkin, N. (2001) Attitudes towards conversion to organic production systems: A study of farmers in England. Institute of Rural Studies the University of Wales, Aberystwyth.

²³ It should be noted that some non-Organic standards have substantial environmental requirements. Some non-Organic standards have social requirements that are more demanding than those of some Organic certifiers.

²⁴ Available from bio@promperu.gob.pe

²⁵ For example: or North America: D. Giovannucci. 2010. The North American Organic Coffee Industry Report. SCAA: Long Beach, CA and for Europe: J. Pierrot. 2010. International Trade Centre. Geneva

²⁶ A global survey of organic agriculture is published by FIBL/IFOAM/ITC containing production, export and import data: see <http://www.organic-world.net/survey.html>

²⁷ D. Giovannucci, F.J. Koekoek. 2003. The State of Sustainable Coffee. ICO/IISD. Available online: <http://sirn.com/abstract=996763>

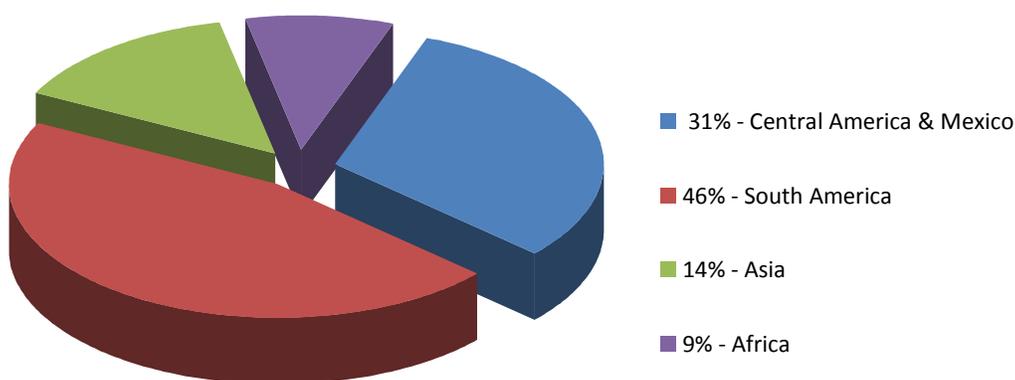
Table 2. Worldwide imports of certified Organic coffee (60kg bags)

	2001	2003	2005	2006	2007	2008 ²⁸	2009 ²⁹
Europe ³⁰	187,000	220,000				725,000	754,000
N. America ³¹	171,000		316,700	511,700	612,000	672,800	703,080
Others						154,400	160,575
Japan ³²			51,600	62,000	67,000	72,500	75,400
Total³³	389,000	700,000	867,000	1,117,000	1,492,000	1,625,700	1,693,055

Sources vary and are cited in footnotes. Except for North America, most are estimations based on incomplete data. Where totals are not published estimates, they assume average estimated growth rates for regional categories based on earlier/later growth where these are not specifically available.

Figure 2 shows the worldwide origins of certified Organic coffee supply in 2008. It is likely that the situation was similar in 2009.

Figure 2. Worldwide supply of Organic coffee in 2008



The main exporters of Organic are Peru where about 15% of all coffee from this country is certified Organic. In Latin America this is followed by Mexico and Honduras. Indonesia leads in Asia and Ethiopia is Africa's dominant source Organic is the most important certification for African producers who supply nearly 10% of the global market.

²⁸ D. Giovannucci, J. Pierrot, 2010. The World of Organic Agriculture. FiBL and IFOAM

²⁹ With exception of North America (that is sourced from survey data) and Japan (from AJCA), Europe and Others are authors' estimate, based on conservative 4% growth.

³⁰ For 2001-2003: D. Giovannucci, F.J. Koekoek. 2003. The State of Sustainable Coffee. ICO/IISD

³¹ North American data from 2005-2009 from annual surveys published by D. Giovannucci. Most recently: North American Organic Coffee Industry Report 2010. SCAA. USA

Data for 2001 is based on 2000 survey in D. Giovannucci. 2001. Sustainable Coffee Survey of the North American Coffee Industry. Jointly published by The Commission for Environmental Cooperation in Spanish and French and The Specialty Coffee Association of America. Estimated growth rate for 2001 noted in "D. Giovannucci, F.J. Koekoek. 2003. The State of Sustainable Coffee. (Pg 35) ICO/IISD"

³² All Japan Coffee Association statistics unpublished

³³ Totals on 2003, 2005 and 2006 from: Giovannucci, D., Liu, P. and Byers, A., 2008 Adding Value: Certified Coffee Trade in North America. In Pascal Liu (Ed.) Value-adding Standards in the North American Food Market - Trade Opportunities in Certified Products for Developing Countries. FAO. Rome For 2007: Adapted with updated information from the 1.57 million bag estimate by Agritrade (Executive brief-Coffee. September 2008) <http://agritrade.cta.int>



It is worthwhile mentioning two subcategories in the Organic coffee segment. Bird Friendly certified by the Smithsonian Migratory Bird Center (SMBC)³⁴ and Demeter³⁵ certified coffee. These were among the earliest certifiers and are certainly among the most stringent in their requirements, one of which is to be fully Organic.

In 2008, about 1800 bags of Bird Friendly, sometimes also called shade-grown, coffee were imported worldwide. 95% of this quantity originated in Central and South America with the remainder coming from Africa. In 2008, 61% was imported into North America and 36% into Japan with sales beginning to emerge in Canada and the Netherlands.

The 2009 worldwide exports of Demeter, or bio-dynamic, coffee are estimated at approximately 5000 bags. The main consumer markets for this certification are Germany, Switzerland and the U.S.

4. Utz Certified coffee

Utz Certified³⁶ is the newest of the major certifications. Since its start in 2003, Utz has shown strong growth, especially in the European market. Utz was established to serve mainstream and larger clients that may have been reluctant to impose or adopt the requirements of the dominant standards in the first part of the decade. It focuses on promoting better business practices as an important component of achieving sustainability. Its standard fully incorporates the GlobalGAP standard for coffee and features a set of social and environmental criteria for responsible coffee growing practices and efficient farm management. Utz was the first standard, after Organic, to implement a system of full traceability and it has online monitoring.

Currently, around 30% of all coffee consumed in the Netherlands (its base) is Utz Certified and Utz also has a dominant position in the Nordic countries as well as Belgium and Switzerland. Utz aims to reach a worldwide sales volume of 1,666,000 bags in 2010. Table 3 indicates the recorded imports of Utz Certified coffee for different regions of the world.

³⁴ <http://nationalzoo.si.edu/SCBI/migratorybirds/coffee/>

³⁵ www.demeter.net

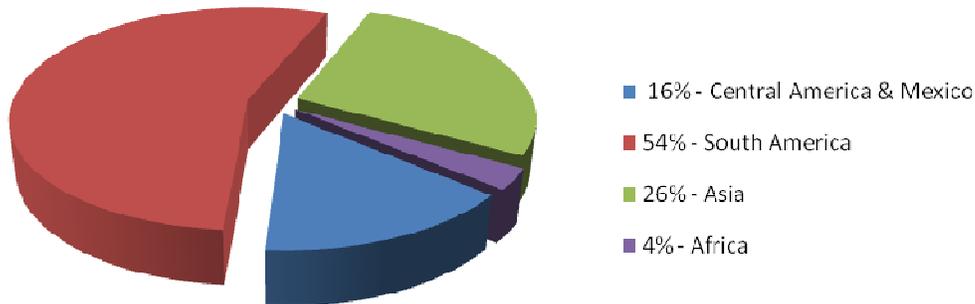
³⁶ www.utzcertified.org

Table 3. Worldwide imports of Utz Certified coffee (60kg bags)

	2005	2006	2007	2008	2009
Europe	437,650	505,800	676,135	1,027,985	1,155,000
North America	9700	14,685	53,570	79,335	85,000
Japan	2835	25,000	38,670	72,985	75,000
Rest of the world	28,815	54,515	73,625	110,695	115,000
Total	479,000	600,000	842,000	1,291,000	1,430,000

In 2009, the largest volume of imports came from Brazil (38%), Vietnam (22%), Colombia (12%) and Honduras (8%). Figure 3 offers a picture of the supply origins of Utz Certified coffee in 2009.

Figure 3. Worldwide supply of Utz Certified coffee in 2009.



5. Rainforest Alliance certified coffee



Rainforest Alliance³⁷ coffee certification is a standard set and managed jointly by the Rainforest Alliance and the Sustainable Agriculture Network, a group of Latin American partner organizations. A separate body, Sustainable Farm Certification, International, makes the certification decisions by evaluating the audits conducted by accredited inspection bodies. Rainforest Alliance standards are based on integrated pest management (IPM) that allow for some uses of synthetic agrochemicals and thus differ from the Organic certification in this regard. These standards also make provision for protecting the rights and welfare of workers and communities

The quantity of Rainforest Alliance certified coffee has increased rapidly at 50% per year in recent years. Nespresso's commitment to certify 80% of its coffee with the Rainforest Alliance by 2013 will contribute to further growth as will its relationship with Nestle and the 4C standard. Table 4 shows seven years of Rainforest Alliance certified coffee imports into different regions of the world.

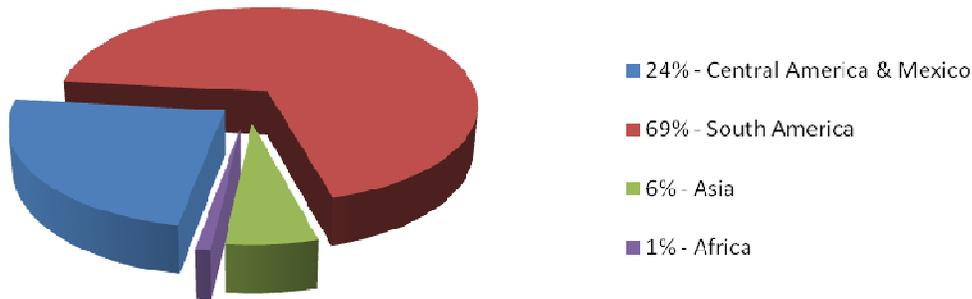
³⁷ www.rainforest-alliance.org

Table 4. Worldwide imports of Rainforest Alliance certified coffee (60kg bags)

	2003	2004	2005	2006	2007	2008	2009
Europe	36,000	73,000	89,715	188,785	331,115	577,500	801,415
North America	15,000	40,000	95,035	193,850	265,115	335,900	432,035
Japan	2000	10,000	25,000	69,900	95,335	124,850	226,265
Total	53,000	123,000	209,750	452,535	691,565	1,038,250	1,459,715

The worldwide supply of Rainforest Alliance Certified coffee comes primarily from Latin America though supplies are increasing from other regions. Figure 4 indicates the breakdown for 2009.

Figure 4. Worldwide supply of Rainforest Alliance coffee in 2009.



6. Common Code for the Coffee Community



The Association of the Common Code for the Coffee Community (4C)³⁸ aims towards the mainstream part of the coffee industry. It provides the most basic standard of any of the initiative covered in this report. It is designed as a business-to-business concept rather than the more consumer-orientated labels such as Organic, Fairtrade, and Rainforest Alliance.

The 4C Association process may be more accessible for larger producers or producer groups (20 ton minimum) who may not be willing or able to meet the more demanding requirements of the other certified standards. It offers a verification procedure that does not employ the rigor or cost of a certification process.

The Association has total import figures from its members, but cannot give more detailed figures about regional distribution or about origins yet. Most of the verifications have occurred in Latin America and Vietnam but are expanding in Africa and elsewhere.

Table 5. Total worldwide imports of 4C verified coffee (60kg bags)

	2008	2009
Total	194,000	492,500

³⁸ www.4c-coffeeassociation.org

7. Conclusions

From niche to mainstream

Certified coffee is no longer an inconsequential market niche. The sustainable coffee segment has been increasing by about 20-25% each year (even excluding 4C verifications) compared to about 2% for conventional coffee. Major corporations are becoming increasingly interested in this segment and so it is likely that this trend will continue. If recent rates of growth do indeed continue, then certified coffees might grow from the 2009 level of 8% to have a worldwide share of 20-25% of global green coffee trade by 2015. In wealthier markets i.e. US and Western Europe, some national market shares have already reached between 10-40%.

Economic role of sustainability standards in the coffee market

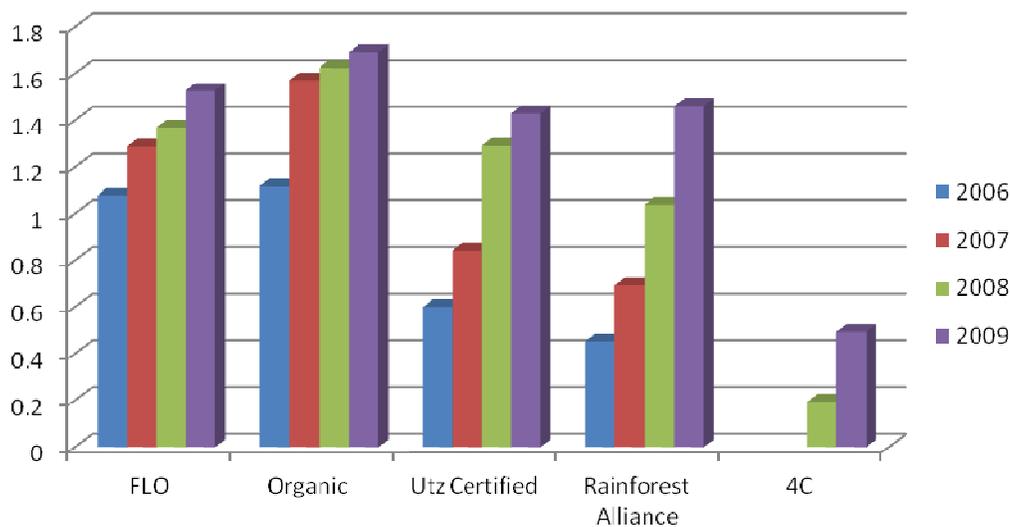
Despite some modest overall growth, the per capita consumption of coffee in many of the traditional markets has been flat or trending downward in the decade of the 2000s. However, within these large markets there are segments of distinct growth dominated by various differentiated coffees, particularly those that are certified sustainable. It seems reasonable to conclude that they are buoying an otherwise stagnant business. They appear to also play two other important roles for the coffee industry overall: attracting new consumers and fetching higher prices that, to some extent, serve to 'decommoditize' coffee. Lack of clarity about their net impact on producers, or even the relative cost and benefit for producers, makes it difficult to ensure that there is adequate compensation in the supply chain,

Market shares vary

Each scheme differs in its strength of market share in different countries. Organic and Fairtrade have dominant market positions in most of the countries, but Utz and Rainforest Alliance, in relatively short periods, have become stronger in several markets for example Netherlands and Japan respectively where business alliances have catapulted these two labels to prominence.

Worldwide sales for each of the standards over the last four years are shown below in Figure 5.

Figure 5. Worldwide sales of certified or verified coffee by seal (million 60kg-bags)³⁹



NB: these estimates allow for comparison but do not correct for multiple certifications. The FLO figures for 2006-07 are authors' conversion to align them with the green bean figures for the other initiatives and thus differ from the processed coffee numbers in Table 1.

8. Important Themes

This market progression toward a greater role for sustainability initiatives raises several important questions and concerns:

1. Can sustainability coffees flourish in the emerging markets that are now the source of most growth?
2. Can certifications meet growing demand as they extend beyond the current capacity of farmers who are considered easier to certify, i.e. "the low hanging fruit"?
3. Given the proliferation of different standards (or certifications), to what degree are they delivering measurable environmental, social, and economic benefits?
4. What is the relevance of certification in the context of climate change and its impacts on coffee production and marketing?
5. The value of greater information and transparency about sustainability

Will there be Demand in Emerging Markets for Sustainability Certifications

In contrast to traditional markets, demand for coffee in emerging markets such as much of Asia and Russia has been growing, mostly in low cost soluble coffees. Brazil's growth has been strong for years in nearly every coffee category and it is likely to soon become the world's top consumer country.

³⁹ Global sales of **Organic coffee** in 2009 is estimated to have grown by 4%, compared to 2008. Sales of FLO in 2006 and 2007 are authors' estimates. 2009 sales of Organic coffee in USA and Canada derived from: D. Giovannucci. 2010. North American Organic Coffee Industry Report. SCAA; Long Beach, CA

Certified coffees too are growing in emerging markets like China, Brazil and India, where they are increasingly visible in shops and cafes although their volumes are estimated to still be small. It is not clear to what extent consumer concerns about sustainability will translate into significant growth in these markets.

Can Certifications Reliably Meet Growing Demand

If certifications have already reached their first primary targets or “the low hanging fruit” – what are the challenges facing the sector in certifying increased supply?

If some of the more organized and more entrepreneurial smaller farmers have mostly been certified, how much will the costs and challenges escalate to reach toward more remote, less organized, less skilled and poorer farmers? The future supply of sustainability coffee may have to increasingly look toward larger intensive conventional farmers but here too they are likely to be constrained by the difficulty in converting more intensively farmed coffee. Because of the diverse costs of adaptation and possible changes in yields, this could result in either consumers paying higher prices to stimulate supply or accepting less demanding certifications. In the latter case, this is likely to deliver lower levels of social and environmental benefits, risking a dilution of the sustainability message and undermining the overall credibility of sustainability certifications to consumers.

This is reflected even at the regional level. Small African producers may well have some of the greatest needs and yet the continent provides only a small proportion of the world supply of certified coffees. Most of the certification bodies find it understandably difficult to operate there and have focused more on quickly developing supplies from producers that are often more capable and better financed such as those in many parts of Latin America.

As a further consequence of the difficulty of certifying new supply, there is a trend toward multiple certification. The existing (easier to certify) supply of certified coffee is increasingly subject to certification to another standard as it is easier to certify these than to certify farmers who have never before met the requirements of a similar standard. Many of the more difficult requirements, such as record-keeping, traceability, and good agricultural practices, are commonly shared among the different certifications. Producers who have multiple certifications face higher costs but are likely to improve their opportunities to access diverse markets and satisfy different buyers.

As demands for sustainability increase, new farmers will need to seek certification for the first time in order to participate in these markets. Many will face a considerable barrier to entry. These farmers may be likely to have fewer skills and be more remote. How will they be trained? How will this be financed? Will their relative costs and benefits of being certified differ from those of the “first-movers” who are already participating? As the supply base necessarily expands to include more producers, we will be learning new lessons in how to cost-effectively bring the benefits of these standards and certifications to a broader audience

Understanding Impacts

There are many different sustainability standards and this raises concerns about the extent to which they deliver economic, environmental, and social benefits.

Are standards and certifications or verifications the best way to achieve sustainability? Transparency in the area of impacts ensures credibility, especially with consumers. It also permits standards bodies, producers, and industry to implement the necessary adjustments to

ensure that sustainability can indeed be achieved. It is therefore very important to demonstrate whether certification actually benefits farmers or whether the net outcome is more of a costly burden upon them

As sustainability issues have become more popular, a number of noted researchers have looked into their impacts. Several authors have already made respected contributions but we are still far from understanding what works and what does not in this field.⁴⁰

Although research is increasingly going beyond mere anecdotal evidence, much of it is limited in statistical relevance or lacks adequate control groups. In some cases, the assessments made are one-time case studies or difficult to replicate and are not comparable with other studies or sectors or regions. This makes it difficult to draw broader lessons. So, while we can certainly learn from these, there is much more that we need to know.

The Threat of Climate Change

As temperatures rise and rainfall patterns alter, there will likely be less land area for Arabica coffee production and crops are likely to be more affected by pests and disease.⁴¹ A stable climate is a basic requirement for coffee production and the scope for adaptation is limited. Sustainability coffees are beginning to address mitigation of climate change through incorporation of carbon sequestration requirements, but adaptation is likely to pose a greater and more immediate challenge.

Value of increased information and transparency

In order to improve sustainable performance among producers, accelerate the efficiency of standards (certification) systems, and improve transparency, we need better information. A number of initiatives have recently embarked on upgrading their internal systems so they can better capture and report on the actual impact they have in the field, yet most also lack the capacity and the funding to do so adequately with statistical analysis and consistent attribution that takes into account the counterfactual using control groups. Several efforts are prominently addressing this need:

- The International Trade Centre (ITC) has established the Trade for Sustainable Development (T4SD) effort, a platform that features a Standards Map, a database with neutral comparative information on many standards and a body of relevant research papers.
- The Committee on Sustainability Assessment (COSA)⁴² is a non-profit consortium of institutions developing and applying an independent measurement tool to analyze the distinct social, environmental and economic impacts of any agricultural practices, particularly those associated with the implementation of specific sustainability programs. It works with partners in the countries of origin to conduct assessments using a developed set of indicators. COSA generates statistically significant data that is globally comparable across countries and sectors. The data from many thousands of surveys will be available as part of the ITC's T4SD Web-based platform.

⁴⁰ In coffee, noted researchers have made valuable contributions with multiple studies. These include: Bacon, Baker, Blackman, Daviron, Hagggar, Perfetto, Ponte, Raynolds, Rice, Ruben, Utting, and Warning.

⁴¹ See Climate Change and the Coffee Industry, ITC, 2010.

⁴² www.sustainablecommodities.org/cosa

- The ISEAL Alliance is a global association of social and environmental standards bodies including most of the major ones operating in coffee.⁴³ It works with standard systems to help them develop their own impact assessments and to help strengthen their effectiveness.

It is sustainability that is the goal and not the achievement of any particular standard or certification. As the industry evolves to better understand these issues, sustainability will become more of a mainstream goal. More actors will choose to conduct business in the form of relationships with partners knowing that it is by ensuring the ultimate success and sustainability of our partners that our own success is best ensured. In this way, the future of competitiveness in a world of finite resources, will be defined by sustainability.

⁴³ www.isealalliance.org

List of Resources in the International Trade Centre

For coffee in particular, The [Coffee Guide](#) offers basic information on climate change issues and environmental standards.

The Trade, Climate Change and Environment Programme is providing support to exporters of Organic coffee in developing countries and hosts [Organic Link](#), a platform for trade and information in Organic products.

The Trade for Sustainable Development (T4SD) program is mounting a broad platform for learning about sustainability standards.