

# ***EOS Series***

## ***EXPORT OPPORTUNITY SURVEYS***



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# **The Market for Organic Black Tea in Germany and the United States**

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# List of abbreviations

B2B	Business to Business
BLF	Bought Leaf Factories
BMEL	Bundesministerium für Ernährung und Landwirtschaft
BÖWL	Bund Ökologische Lebensmittelwirtschaft
CBI	Centrum Bevordering Import (Netherlands)
CFR	Code of Federal Regulations
CIF	Cost insurance freight
CTC	Crush, Tear, Curl
CAGR	Compound Annual Growth Rate
DeLeA	Deutsche Lebensart
DM	dm-drogerie markt
EC	European Commission
e.g.	for example
EU	European Union
EXW	EX WORKS
€	Euro
FAO	Food and Agricultural Organization
FAOSTAT	Food and Agriculture Organization Corporate Statistical Database
FDA	Food and Drug Organization
FOB	Free on board
GMO	genetically modified organisms
GSP	General System of Preferences
HS	Harmonized Commodity Description and Coding System
IDH	the sustainable trade initiative
IFOAM	International Federation of Organic Agriculture Movements
ISO	International Organization for Standardization
kg	kilogram
lb	pound
LMIV	Lebensmittel-Informationsverordnung

MFN	Most Favored Nation
mm	millimeter
MRLs	Maximum Residue Limits
P/ I	Proforma Invoice
SITC	Standard International Trade Classification
t	ton
tt	thousand tons
TCC	Tropical Commodity Coalition
TIS	Transport Information Service
US	United States
US\$	United States Dollar
USDA	United States Department of Agriculture
WTO	World Trade Organization



# Executive summary

Tea is one of the most popular beverages in the world. It is also considered a very healthy beverage and can be consumed either hot or cold. Tea is mainly produced in China and India, however the top exporter of black tea is Sri Lanka.

Since organic black tea has been gaining popularity over the past decade, this report analyzes the market entry opportunities for the German and US markets for this specific type of tea.

In the US, consumption of iced tea has been increasing and black tea is preferred over green tea. However, there is no demand for organic black tea. US consumers are mostly young and health conscious. In Germany, there is an increasing demand for organic products, especially beverages. Consumers are shifting from elderly to younger generations. The younger consumers expect organic, fair trade and sustainable products which support the local producers.

In both markets competition is rising, which results in unchanged retail prices. Neither the German nor US market have tariffs, quotas, or restrictions on the import of black tea and are therefore fairly easy to enter.

The tea supply chain is characterized by a very strong vertical integration by just a few multinational companies. Specific transport and storage conditions are essential to guarantee the quality of the tea. The distribution channels are quite similar in Germany and the US. In Germany, organic black tea is mostly sold by discounters and other grocery retailers, whereas in the US, tea can be bought in conventional supermarkets and natural product retailers.

Tea is sold worldwide through auctions or directly by the producer. The ways of contacting a producer are diverse, including telephone, trade fairs, and online business-to-business marketplaces. Trade agreements are recommended to be included in a written contract between the business partners.

The market prospects for organic black tea tend to be very positive in both markets, due to an increasing demand for organic and specialty tea. In the near future, the challenge will be to offer even higher quality tea and tea with different tastes and varieties.

# 1. Product description

This export opportunity survey is intended for exporters interested in selling organic black tea in the German and US markets. It covers the market for tea, classified under the following codes:

- HS Code: 090230 – Black tea (fermented) and partly fermented tea, in immediate packing of content not exceeding 3 kg (661 lb.).
- HS Code: 090240 – Other black tea (fermented) and other partly fermented tea.
- SITC Code: 074.13 – Black tea (fermented) and partly fermented tea, in immediate packing of a content not exceeding 3 kg (661 lb.), whether or not flavored.
- SITC Code: 074.14 – Other black tea (fermented) and other partly fermented tea, whether or not flavored.

Tea is the result of processed leaves of the evergreen shrub, *Camellia sinensis*, which can grow between 300 and 2000 meters (984 and 6,561 feet) above sea level and has a better flavor when it is grown at a higher elevation. Temperature and rainfall are also important. The best temperatures for growth range from 10 to 24°C (50 to 75°F) and rainfall should be about 2 to 2.3 meters (6.5 to 7.5 feet) a year. Although these figures may be ideal conditions for the growth of tea leaves, tea can grow well with less rain too (Saberri, 2010).

Tea flavors and qualities can differ according to the variety and the way the leaves are treated. *Camellia sinensis* comes in 2 primary varieties. First, the *Camellia sinensis* from China (*Camellia sinensis var. sinensis*) is usually a small leaved bush, which produces a delicate tea and has a height of 1 to 3 meters (3.2 to 9.8 feet). Second, the *Camellia sinensis* (*Camellia sinensis var. assamica*), native to the Assam region in India, comes from a small tree with large leaves, which produces a strong earthy flavor. These varieties are cultivated many times and used to make hybrids. The different climate and soil conditions result in the creation of a wide selection of teas with different tastes and flavors across the world (Saberri, 2010).

There are six types of tea leaves: white, yellow, green, oolong, black, and pu'er. Tea grading determines the quality of the tea leaves and eventually the treatment of the leaves. Black tea is graded on a 4-point scale of quality. Whole leaf teas are considered the most valuable and of the highest quality, followed by broken leaves, fannings, and dusts. Broken leaves are sold as medium grade teas and are commonly contained in tea bags. Fannings are the remains of the production of the larger tea varieties.

Lastly, dusts are the finest tea particles left over from the production. Fannings and dusts are usually contained in tea bags as it allows easy diffusion of the tea. These kinds of teas also have a darker color and stronger flavor when brewed (Saber, 2010).

The processing phases of the tealeaves are generally picking, withering, rolling, drying and grading (Measurement and Control in food processing, Manabendra Bhuyan, Taylor and Francis, 2007, p. 9). Black tea differs from the other tea because between the rolling and the drying phase, the tealeaves are subject also to the phase of fermentation. Besides the previous mentioned processing, called Orthodox production, there is a second type of processing in the case of black tea, called CTC production. After rolling and before fermentation, tealeaves are shredded with a CTC machine (TIS, 2015).

The largest black tea producing countries include India (Darjeeling and Assam), Sri Lanka (Ceylon), China, and Kenya.

## 2. Production, foreign trade & consumption

### Production

#### *Conventional tea*

China is the largest tea producing country with an output of 1.9 million tons, accounting for 36% of the world's total production, as shown in Table 1. The second largest producer, India, produced 1.2 million tons in 2013 (FAOSTAT, 2015).

Table 1: Top 10 producers of tea in tons in 2013

Table 1: Top 10 producers of tea in tons in 2013			
Ranking	Producer	Quantity (in t)	Percentage
1	China	1,924,457	36%
2	India	1,208,780	23%
3	Kenya	432,400	8%
4	Sri Lanka	340,230	6%
5	Viet Nam	214,300	4%
6	Turkey	212,400	4%
7	Iran	160,000	3%
8	Indonesia	148,100	3%
9	Argentina	105,000	2%
10	Japan	84,800	2%
	World	5,345,523	

Source: FAO STAT (2015)

#### *Organic tea*

According to the International Institute of Sustainable Development, 12% of world tea production, which is equivalent to 557,000 tons of tea, was certified by the major international voluntary sustainability standards in 2012. The International Federation of Organic Agricultural Movements (IFOAM) represents close to 800 affiliates in 117 countries. Following IFOAM, a majority of organic tea is produced in China, India, and Japan, which accounted for 49,192 tons of production in 2011. In 2012, global organic tea production accounted for 1% of global production and 2% of global exports (Potts, Lynch, Wilkins, Huppe, Cunningham, & Voora, 2014).

## Foreign trade

As the trade data for organic black tea is limited, interference on the market share of organic black tea from the data for regular black tea (HS Code: 090230 and 090240) is made. As mentioned above, 2% of global exports are organic tea and hence, it is assumed that 1% - 2% of the quantity of black tea is organic.

### World exports

India and Sri Lanka, which are the 2<sup>nd</sup> and 4<sup>th</sup> largest producers of black tea respectively, are also the top exporters of black tea worldwide. Sri Lanka exported over 32.18% of black tea in 2014.

Table 2: Top 10 countries exporting black tea (2010 - 2014)

Table 2: Top 10 countries exporting black tea										
	2010		2011		2012		2013		2014	
	Qty (in tt)	Trade Value (US\$mil)	Qty (in tt)	Trade Value (US\$mil)	Qty (in tt)	Trade Value (US\$mil)	Qty (in tt)	Trade Value (US\$mil)	Qty (in tt)	Trade Value (US\$mil)
Sri Lanka	307.15	1,324.06	315.73	1,428.77	313.30	1,356.33	350.57	1,472.68	319.90	1,554.64
India	214.29	656.42	314.95	836.75	220.62	669.32	250.96	801.40	208.76	642.26
Argentina	84.65	92.71	85.25	102.78	75.75	102.38	75.02	112.62	74.47	110.44
Indonesia	75.70	143.77	65.92	132.40	58.46	119.97	58.70	119.44	54.26	97.09
Malawi	50.00	80.77	45.97	86.23	45.37	69.89	43.23	86.03	47.51	74.27
China	60.90	177.46	57.80	212.38	57.51	234.90	54.44	259.21	46.53	273.03
United Kingdom	27.92	273.29	60.12	221.62	19.52	167.66	20.92	159.21	20.10	128.01
Germany	19.73	136.23	21.64	159.91	19.29	143.97	19.43	159.33	19.04	154.03
Poland	7.98	59.83	11.50	111.99	13.60	138.57	14.78	161.70	17.07	181.45
USA	6.55	47.33	6.39	46.85	7.59	56.40	7.23	66.38	8.38	75.54
World	1,588.28	4,962.13	1,305.46	4,221.96	1,163.08	4,019.44	1,680.52	5,625.20	994.15	4,051.22

Source: UN Comtrade (2015)

Table 3: Value/ tt of top 10 countries exporting black tea (2010 – 2014)

Table 3: Value/ tt of top 10 countries exporting black tea					
	2010	2011	2012	2013	2014
	Value / tt (US\$mil)	Value / tt (US\$mil)	Value / tt (US\$mil)	Value / tt (US\$mil)	Value / tt (US\$mil)
Sri Lanka	4.3	4.5	4.3	4.2	4.9
India	3.1	2.7	3.0	3.2	3.1
Argentina	1.1	1.2	1.4	1.5	1.5
Indonesia	1.9	2.0	2.1	2.0	1.8
Malawi	1.6	1.9	1.5	2.0	1.6
China	2.9	3.7	4.1	4.8	5.9
United Kingdom	9.8	3.7	8.6	7.6	6.4
Germany	6.9	7.4	7.5	8.2	8.1
Poland	7.5	9.7	10.2	10.9	10.6
USA	7.2	7.3	7.4	9.2	9.0
World	3.1	3.2	3.5	3.3	4.1

Source: UN Comtrade (2015)

## World imports

Russia is the major importer of black tea and represents 12.31% of world imports. The US ranks 4<sup>th</sup> and Germany 7<sup>th</sup> as world importers. Demand for black tea in the US gradually increased from 2010 to 2014 while the demand in Germany remained flat.

Table 4: Top 10 countries importing black tea (2010 - 2014)

Table 4: Top 10 countries importing black tea										
	2010		2011		2012		2013		2014	
	Qty (in tt)	Trade Value (US\$mil)	Qty (in tt)	Trade Value (US\$mil)	Qty (in tt)	Trade Value (US\$mil)	Qty (in tt)	Trade Value (US\$mil)	Qty (in tt)	Trade Value (US\$mil)
Russian Federation	162.91	509.01	170.28	567.06	164.89	574.59	156.58	590.82	156.42	581.05
Pakistan	106.09	299.55	114.97	341.91	117.45	354.40	119.88	313.24	147.54	319.34
United Kingdom	144.89	398.82	150.48	443.72	140.41	421.83	133.07	403.52	123.46	348.95
USA	104.71	275.46	108.11	302.51	106.03	300.61	107.63	327.46	112.92	332.60
Egypt	138.98	218.43	98.95	308.40	108.42	324.82	102.80	300.30	101.66	338.37
Afghanistan	20.06	28.79	40.04	66.76	54.15	69.06	98.19	151.08	98.68	111.71
Germany	37.66	122.58	41.09	153.52	42.90	151.50	40.16	160.26	41.46	159.82
Kazakhstan	26.83	108.08	27.30	116.67	31.51	132.62	31.47	141.82	29.82	123.88
Japan	37.38	176.95	36.58	186.94	32.26	173.14	31.28	172.96	28.77	168.23
Canada	14.17	120.02	14.88	127.05	14.29	136.30	15.01	131.71	15.06	105.02
World	1,386.65	4,318.46	1,349.03	4,737.99	1,268.42	4,502.58	1,309.59	4,723.18	1,270.28	4,354.45

Source: UN Comtrade (2015)

Table 5: Value/ tt of top 10 countries importing black tea (2010 – 2014)

Table 5: Value/ tt of top 10 countries importing black tea					
	2010	2011	2012	2013	2014
	Value / tt (US\$mil)	Value / tt (US\$mil)	Value / tt (US\$mil)	Value / tt (US\$mil)	Value / tt (US\$mil)
Russian Federation	3.1	3.3	3.5	3.8	3.7
Pakistan	2.8	3.0	3.0	2.6	2.2
United Kingdom	2.8	2.9	3.0	3.0	2.8
USA	2.6	2.8	2.8	3.0	2.9
Egypt	1.6	3.1	3.0	2.9	3.3
Afghanistan	1.4	1.7	1.3	1.5	1.1
Germany	3.3	3.7	3.5	4.0	3.9
Kazakhstan	4.0	4.3	4.2	4.5	4.2
Japan	4.7	5.1	5.4	5.5	5.8
Canada	8.5	8.5	9.5	8.8	7.0
World	3.1	3.5	3.5	3.6	3.4

Source: UN Comtrade (2015)

## German and US trade

### Germany imports

Sri Lanka and India are major exporters of black tea to Germany. As an emerging economy, Poland has developed as an exporter hub for tea. Many companies have established in Poland to benefit from the cheap labor, a well-established packaging industry, and its strategic location within Europe.

Many companies repack the imported bulk tea into consumer packages (tea bags) and these are exported from Poland to Western Europe (CBI Market Intelligence, 2015).

Table 6: Top 10 countries exporting black tea to Germany (2010 - 2014)

Table 6: Top 10 countries exporting black tea to Germany										
	2010		2011		2012		2013		2014	
	Qty (in tt)	Trade Value (US\$mil)	Qty (in tt)	Trade Value (US\$mil)	Qty (in tt)	Trade Value (US\$mil)	Qty (in tt)	Trade Value (US\$mil)	Qty (in tt)	Trade Value (US\$mil)
Sri Lanka	5.80	24.06	6.32	30.43	5.81	25.17	8.54	31.15	6.61	31.61
India	9.80	28.43	7.31	38.61	6.18	32.88	7.98	42.44	6.58	31.79
Belgium	3.09	11.73	3.52	13.98	3.79	13.91	3.90	15.92	4.50	17.79
China	1.93	5.86	2.59	8.60	2.71	10.00	2.87	11.62	3.44	12.29
Argentina	2.59	3.42	1.90	2.66	2.52	4.04	1.68	2.81	2.59	4.65
Indonesia	5.26	8.10	4.40	7.26	3.38	5.83	3.84	7.01	2.45	3.97
United Kingdom	1.01	5.12	1.32	3.46	1.09	1.78	1.15	4.18	2.20	7.18
Malawi	0.42	0.69	1.00	1.32	0.63	0.70	0.62	1.19	1.24	1.78
Netherlands	1.30	5.00	0.91	4.48	1.62	6.51	1.19	6.29	1.16	4.74
Poland	0.17	1.06	0.32	2.20	0.47	3.13	0.71	6.20	0.86	7.66
Total Germany Imports	37.66	122.58	41.09	153.52	43.40	156.66	40.23	160.52	41.52	160.60

Source: UN Comtrade (2015)

Table 7: Value / tt of top 10 countries exporting black tea to Germany (2010 – 2014)

Table 7: Value / tt of top 10 countries exporting black tea to Germany					
	2010	2011	2012	2013	2014
	Value / tt (US\$mil)	Value / tt (US\$mil)	Value / tt (US\$mil)	Value / tt (US\$mil)	Value / tt (US\$mil)
Sri Lanka	4.1	4.8	4.3	3.6	4.8
India	2.9	5.3	5.3	5.3	4.8
Belgium	3.8	4.0	3.7	4.1	4.0
China	3.0	3.3	3.7	4.0	3.6
Argentina	1.3	1.4	1.6	1.7	1.8
Indonesia	1.5	1.7	1.7	1.8	1.6
United Kingdom	5.0	2.6	1.6	3.6	3.3
Malawi	1.7	1.3	1.1	1.9	1.4
Netherlands	3.9	4.9	4.0	5.3	4.1
Poland	6.1	6.8	6.6	8.7	8.9
Total Germany Imports	3.3	3.7	3.6	4.0	3.9

Source: UN Comtrade (2015)

### ***The United States imports***

Argentina, which ranks 7<sup>th</sup> in world exporters, is the major contributor of black tea to the US. Germany exported approximately US\$14 million of black tea to the US in 2014, however the trade value has decreased almost 54% from 2010.

Table 8: Top 10 countries exporting black tea to US (2010 - 2014)

Table 8: Top 10 countries exporting black tea to USA										
	2010		2011		2012		2013		2014	
	Qty (in tt)	Trade Value (US\$mil)	Qty (in tt)	Trade Value (US\$mil)	Qty (in tt)	Trade Value (US\$mil)	Qty (in tt)	Trade Value (US\$mil)	Qty (in tt)	Trade Value (US\$mil)
Argentina	48.61	61.21	50.28	68.70	48.37	73.92	50.47	85.07	50.58	82.93
India	14.84	46.47	15.57	56.06	13.36	46.93	15.45	60.73	13.83	52.18
China	11.75	23.00	11.60	30.90	11.86	41.71	9.94	41.98	8.49	43.54
Sri Lanka	3.08	15.42	3.56	19.13	3.18	16.44	3.53	20.99	4.48	25.40
Indonesia	6.28	11.95	5.97	11.67	3.82	7.60	4.53	8.96	4.08	7.20
Germany	5.32	32.05	5.75	35.41	4.29	25.74	3.23	18.91	2.45	14.72
Malawi	2.31	4.21	2.75	4.99	3.64	5.05	4.95	9.43	1.79	2.74
Canada	1.83	25.42	1.73	23.21	2.06	25.28	1.95	25.02	1.61	20.20
United Kingdom	1.83	22.29	1.46	16.45	0.87	10.27	1.04	11.22	1.11	13.16
Ecuador	0.48	0.66	0.40	0.58	0.49	0.68	0.40	0.64	0.50	0.85
Total USA Imports	104.71	292.02	108.10	320.98	106.03	318.10	107.63	344.74	112.92	350.38

Source: UN Comtrade (2015)

Table 9: Value / tt of top 10 countries exporting black tea to USA (2010 – 2014)

Table 9: Value / tt of top 10 countries exporting black tea to USA					
	2010	2011	2012	2013	2014
	Value / tt (US\$mil)	Value / tt (US\$mil)	Value / tt (US\$mil)	Value / tt (US\$mil)	Value / tt (US\$mil)
Argentina	1.3	1.4	1.5	1.7	1.6
India	3.1	3.6	3.5	3.9	3.8
China	2.0	2.7	3.5	4.2	5.1
Sri Lanka	5.0	5.4	5.2	5.9	5.7
Indonesia	1.9	2.0	2.0	2.0	1.8
Germany	6.0	6.2	6.0	5.9	6.0
Malawi	1.8	1.8	1.4	1.9	1.5
Canada	13.9	13.4	12.3	12.8	12.5
United Kingdom	12.2	11.3	11.8	10.8	11.9
Ecuador	1.4	1.5	1.4	1.6	1.7
Total USA Imports	2.8	3.0	3.0	3.2	3.1

Source: UN Comtrade (2015)

### Germany exports

Both Germany and the US are recognized as top importers and exporters of black tea. Germany exports black tea mainly to European countries. As mentioned above, while the US is the 3<sup>rd</sup> largest country partner, trade value has decreased over the years.



Table 10: Top 10 countries importing black tea from Germany (2010 - 2014)

Table 10: Top 10 countries importing black tea from Germany										
	2010		2011		2012		2013		2014	
	Qty (in tt)	Trade Value (US\$mil)	Qty (in tt)	Trade Value (US\$mil)	Qty (in tt)	Trade Value (US\$mil)	Qty (in tt)	Trade Value (US\$mil)	Qty (in tt)	Trade Value (US\$mil)
France	1.79	16.03	2.29	20.28	2.11	18.41	2.48	22.93	2.49	21.20
USA	5.32	32.05	5.75	35.41	4.29	25.74	3.23	18.91	2.45	14.72
Poland	2.09	5.42	1.79	5.38	1.54	5.61	1.78	7.04	2.37	8.25
Netherlands	1.61	14.12	1.75	15.58	1.61	14.42	2.44	19.49	1.77	16.55
United Kingdom	1.78	8.79	1.93	9.49	1.80	10.15	1.24	11.07	1.29	11.93
Austria	0.72	6.26	0.91	8.09	0.79	7.11	0.83	8.17	0.98	8.20
Russian Federation	0.87	9.45	1.01	11.75	0.90	10.95	0.94	12.52	0.88	11.74
Denmark	0.53	3.25	0.58	3.88	0.50	3.70	0.53	4.32	0.71	7.37
Switzerland	0.48	4.80	0.47	5.34	0.52	6.04	0.61	7.56	0.55	6.44
Sweden	0.33	3.02	0.44	4.00	0.52	4.22	0.48	5.07	0.39	4.26
Total Germany Exports	19.72	136.23	21.64	159.90	19.29	143.97	19.43	159.33	19.00	154.00

Source: UN Comtrade (2015)

Table 11: Value / tt of top 10 countries importing black tea from Germany

Table 11: Value / tt of top 10 countries importing black tea from Germany					
	2010	2011	2012	2013	2014
	Value / tt (US\$mil)	Value / tt (US\$mil)	Value / tt (US\$mil)	Value / tt (US\$mil)	Value / tt (US\$mil)
France	9.0	8.8	8.7	9.2	8.5
USA	6.0	6.2	6.0	5.9	6.0
Poland	2.6	3.0	3.6	4.0	3.5
Netherlands	8.8	8.9	9.0	8.0	9.4
United Kingdom	4.9	4.9	5.6	9.0	9.2
Austria	8.7	8.9	9.0	9.8	8.4
Russian Federation	10.8	11.6	12.2	13.3	13.4
Denmark	6.2	6.7	7.4	8.1	10.4
Switzerland	10.0	11.3	11.6	12.4	11.8
Sweden	9.1	9.2	8.2	10.5	10.8
Total Germany Exports	6.9	7.4	7.5	8.2	8.1

Source: UN Comtrade (2015)

### ***The United States exports***

The US exports black tea primarily to Canada and Chile. Germany imports US\$2,273,000 worth of black tea from the US in 2014.

Table 12: Top 10 countries importing black tea from US (2010 - 2014)

Table 12: Top 10 countries importing black tea from USA										
	2010		2011		2012		2013		2014	
	Qty (in tt)	Trade Value (US\$mil)	Qty (in tt)	Trade Value (US\$mil)	Qty (in tt)	Trade Value (US\$mil)	Qty (in tt)	Trade Value (US\$mil)	Qty (in tt)	Trade Value (US\$mil)
Canada	3.92	28.36	4.05	31.68	5.08	38.64	5.17	46.55	5.51	50.59
Chile	0.03	0.12	0.02	0.07	0.01	0.07	0.03	0.48	0.50	3.79
Germany	0.29	1.70	0.28	2.13	0.26	1.82	0.23	2.09	0.26	2.27
Trinidad and Tobago	0.09	0.81	0.10	0.75	0.21	1.60	0.17	1.82	0.26	2.54
United Kingdom	0.44	3.33	0.43	2.89	0.45	3.47	0.21	2.67	0.18	2.82
Rep. of Korea	0.05	0.41	0.07	0.52	0.18	0.97	0.18	1.09	0.17	1.14
Netherlands	0.16	1.36	0.15	1.25	0.22	1.83	0.12	1.23	0.14	1.30
Japan	0.31	2.32	0.16	0.82	0.18	1.36	0.16	1.91	0.13	1.93
Mexico	0.06	0.47	0.06	0.40	0.06	0.55	0.11	0.94	0.09	0.90
Singapore	0.07	0.57	0.05	0.37	0.03	0.41	0.04	0.66	0.07	0.80
Total USA Exports	6.55	47.33	6.39	46.85	7.59	56.40	7.23	66.38	8.38	75.54

Source: UN Comtrade (2015)

Table 13: Value / tt of top 10 countries importing black tea from USA (2010 – 2014)

Table 13: Value / tt of top 10 countries importing black tea from USA					
	2010	2011	2012	2013	2014
	Value / tt (US\$mil)	Value / tt (US\$mil)	Value / tt (US\$mil)	Value / tt (US\$mil)	Value / tt (US\$mil)
Canada	7.2	7.8	7.6	9.0	9.2
Chile	4.2	3.6	6.9	15.7	7.5
Germany	5.9	7.6	7.1	9.2	8.7
Trinidad and Tobago	9.0	7.4	7.6	10.6	9.7
United Kingdom	7.6	6.6	7.7	12.8	15.6
Rep. of Korea	7.5	7.3	5.4	6.0	6.6
Netherlands	8.7	8.2	8.4	10.4	9.6
Japan	7.5	5.2	7.7	12.2	15.1
Mexico	7.6	6.6	9.9	8.4	9.6
Singapore	8.5	7.8	13.1	18.9	11.9
Total USA Exports	7.2	7.3	7.4	9.2	9.0

Source: UN Comtrade (2015)

## Apparent consumption

As shown in Table 14, the estimated consumption of black tea in Germany and the US is calculated with the formula “import minus export”, because neither country has tea production.

Germany’s estimated consumption of black tea has undergone several fluctuations from 2010 to 2014 reaching a growth rate of 8% in 2014, while the US recorded 6.5%. The consumption per capita is slightly higher in the US than in Germany.

Table 14: Estimated consumption of black tea from US and Germany (2010 - 2014)

Table 14: Estimated consumption of black tea from USA and Germany (2010 - 2014)								
Year	Germany				USA			
	import (in t)	export (in t)	estimated consumption (in t)	per capita consumption (kg)	import (in t)	export (in t)	estimated consumption (in t)	per capita consumption (kg)
2010	37.66	19.73	17.93	0.22	104.71	6.55	98.16	0.32
2011	41.09	21.64	19.45	0.24	108.11	6.39	101.72	0.33
2012	43.40	19.29	23.60	0.29	106.03	7.59	98.44	0.31
2013	40.24	19.43	20.73	0.26	107.63	7.23	100.40	0.32
2014	41.52	19.04	22.42	0.28	112.92	8.38	104.55	0.33

Source: UN Comtrade (2015)

Based on the import trends from Germany and the US, we can expect Germany to import more black tea while the US imports less or the same amount of black tea in the next years. Nevertheless, the US market is more lucrative as consumption of black tea is higher than in Germany.

## 3. Market characteristics

### Germany

#### *Consumer preferences*

In 2014, the ratio of consumption for black tea to green tea was 71% to 29%, respectively (Deutscher Teeverband, 2014). Organic tea is a well-established luxury product in the German market (Deutscher Teeverband, 2012). The most consumed and most popular black teas are Assam, Ceylon, and Darjeeling (DeLeA e.V., 2015).

In many cases, being only organic is insufficient for a product in the German market. The customer does not differentiate between organic, fair trade and sustainability, and expects a product to fulfill all of these attributes (Passport, Organic Beverages, 2015). Many German consumers are aware of the ethical issues in the tea producing countries. Living in a stable and wealthy environment, they increasingly tend to buy ethical products to support the producers (Passport, Hot Drinks, 2015).

#### *Market segments*

Almost 53% of tea consumers are over 50, who are more concerned about good quality and brands, and have a higher purchase capacity. Nevertheless, younger people are also becoming tea consumers, due to its rising general popularity (Muthkonn, 2012).

As many teas are further processed in Germany, there is a wide range of varieties and flavors of tea, which open new market segments like younger health conscious consumers (Teeverband, 2013). Among Germans, the classical tea drinkers are women, however men are also considering tea as their daily beverage (Teeverband, 2013). The “East Frisians”, who live in Northern Germany, is the largest group of consumers of black tea with a consumption of 300 liters per person annually (Teeverband, 2015). Most of the customers consume bagged tea, as it is cheaper. However, there is also an increasing demand for loose tea (CBI, Ministry of Foreign Affairs, 2015). 4,5% of the consumers in 2014 consumed their tea in restaurants and specialty tea shops (Deutscher Teeverband, 2015).

#### *Conditions of acceptance*

The price is the main driver that is considered when buying groceries (Deutsche Gesellschaft für Qualität, 2014). However, constant growth in the German market for organic beverages and the beliefs in sustainability labels show the willingness of the

customers to pay higher prices (Passport, Organic Beverages, 2015). Furthermore, consumers believe that certified food tastes better than food with no such certification (Organic-Market Info, 2015).

### ***Competition***

Both black tea and coffee contain caffeine and are typically consumed as breakfast drinks (Goethe Institute, 2015). However, in 2014, sales of organic black tea accounted for only 10% of those who purchase organic coffee (Passport, Organic Beverages, 2015). Another substitution product for black tea is green tea. The perception of tea is changing in the customer's eyes. While some loyal tea consumers stick with their choices, young customers are keen on trying out new types and blends (Deutscher Teeverband e.V., 2015). Especially for black tea, herbal and fruit infusions as well as tisanes can become a threat in the German market (CBI, Ministry of Foreign Affairs, 2015).

### ***Demand trends***

The market for organic beverages in Germany grew by 3% in value in 2014 and further growth is expected. The German consumer is well informed and trusts organic products, which should be differentiated clearly from regular products. The sales of organic black teas are expected to rise up to 23.2 million euro in 2019, with a Compound Annual Growth Rate (CAGR) of 5.9% and a total growth of 33.1%. In terms of volume, a flat rate of growth is expected (Passport, Organic Beverages, 2015).

## **The United States**

### ***Consumer preferences***

In the US market, approximately four in five consumers drink either iced or hot tea. Tea can be found in 80% of US households, which, correlates to around 158 million individuals drinking tea on any given day. The types of tea consumed in the US is led by black tea at 84%, green tea at 15%, and various other forms such as white tea and oolong. Drinking iced tea has risen dramatically in recent years to an estimated 85% (Tea Association of the USA Inc, 2014).

### ***Market segments***

Consumption of tea in the US is highest in the Northeast and Southern regions. The rate of consumption for tea between men and women over the age of 20 is equal (LaComb, Sebastian, Enns, & Goldman, 2011). A movement in consumption towards health conscious products as well as convenience has led to an increase in tea purchases in the US (Tea Association of the USA Inc, 2014). The affluent, young, educated, and health conscious consumers who like to try out unique and organic flavors are attracted to specialty teas. The number of restaurants serving specialty tea and the number of tea salons has also been increasing over the years.

### ***Conditions of acceptance***

Tea quality is extremely important in the organic tea industry. Wholesalers' work closely with tea importers from all over the world because it allows them to change with the evolving market, creates an opportunity for the customization of blends, and it provides confidence that the tea has been grown and processed in an acceptable manner. It also allows wholesalers to always have fresh tea that has been optimally stored, temperature controlled, and away from light. Tea quality is of the utmost importance (Townshend's Tea Company, 2015).

Tea is not considered a high-risk food, when importing into the US market. But, with the combination of fruits, spices, nuts, and herbs, it is important that suppliers manage the quality of the tea products as would any other food processor (Eng, 2013).

### ***Competition***

The top three preferred beverages in the US market, for adults over the age of 20, is plain water, coffee, and soft drinks. Compared to younger adults, older adults drink more coffee than alcoholic beverages, plain water, and regular soft drinks. For breakfast, coffee is reported to be the most frequently consumed beverage. The drink of choice when eating snacks, or having lunch and dinner, is plain water. Tea is consumed more than diet soft drinks, juice, and milk (Ferdman, 2014).

### ***Demand trends***

According to the US Tea Association (2014), "The US market for tea has more than quadrupled during the past twenty-plus years- from just under \$2 billion in 1990 to just over \$10 billion last year." Though tea consumption in the US is growing, Americans are more interested in iced tea than hot tea. About 85% of tea consumed in the US is chilled and comes from ready-to-drink tea bags (Ferdman, 2014).

Over half of the tea consumed in the US is black tea. Fruit and herbal tea accounts for

a quarter of US consumption with neither tea being able to grow in its market segment in recent years. Green tea, which makes up over 11% of US tea consumption has seen the most growth in the last 10 years. The perception that tea, especially green tea, is very healthy and is causing an impact on the US market (Ferdman, 2014).

Several factors play a role in the influence of demand for tea. They include traditional demographics such as cultural backgrounds, education, occupation, age, income, and price variables. In the US tea market, it has been shown that income and price did not impact consumption. Factors that do influence consumption include demographics and health perceptions (A Committee on Commodity Problems, 2012).

When comparing the German and US markets, there is a demand for organic products in Germany. In the US, there is currently a preference for iced tea products, though consumption and awareness of hot tea options will grow. In the future, the market looks continuously attractive in Germany due to the rising demand for quality and organic products. In the US, there is demand for black tea but not explicitly for organic black tea.

## 4. Market access

### Tariffs

Neither the US nor Germany impose tariffs on black tea.

### Standards and regulations

The EU and the US have recognized each other's organic production rules and control systems as equivalent under their respective rules:

- The rules in EU are laid down by the Council Regulation (EC) No. 834/2007 and Commission Regulation (EC) No. 889/2008 (OJ L-250 18/09/2008). These rules cover not only production and processing, but also the control and labeling of organic food (European Commission, 2014).
- In the US, the standards are laid out in the Organic Food Protection Act by the United States Department of Agriculture (USDA). Specific organic standards must be met and verified by USDA agents and only the USDA can certify products within the US as being organic (USDA, 2015).

Concurrently, the standards for fair trade and food health are very important. For both producers and traders, a fair trade product must comply with the standards defined in Germany by the Fair trade International and in the US by the Fair Trade USA. Whereas, in Codex Alimentarius we can find the Maximum Residue Limits (MRLs) for conventional and organic black tea valid for both EU and the US, as displayed on Table 9.

Table 15: Maximum residue limits for tea, green, black (black, fermented and dried)

Table 15: Maximum residue limits for tea, green, black (black, fermented and dried)			
Pesticides	MRL	Year of Adoption	Code
Methidathion	0.5 mg/Kg	1997	DT1114
Deltamethrin	5 mg/Kg	2004	DT1115
Propargite	5 mg/Kg	2004	DT1116
Chlorpyrifos	2 mg/Kg	2005	DT1117
Paraquat	0.2 mg/Kg	2006	DT1118
Fenpropathrin	2 mg/Kg	2007	DT1119
Clothianidin	0.7 mg/Kg	2011	DT1120
Flubendiamide	50 mg/Kg	2011	DT1121
Endosulfan	10 mg/Kg	2011	DT1122
Etoxazole	15 mg/Kg	2011	DT1123
Thiamethoxam	20 mg/Kg	2011	DT1124
Bifenthrin	30 mg/Kg	2011	DT1125
Hexythiazox	15 mg/Kg	2012	DT1126
Cypermethrins (including alpha- and zeta- cypermethrin)	15 mg/Kg	2012	DT1127
Dicofol	40 mg/Kg	2013	DT1128
Indoxacarb	5 mg/Kg	2014	DT1129
Permethrin	20 mg/Kg		DT1130

Source: Codex Alimentarius 2014

Source: Codex Alimentarius (2014)

## Non-tariff barriers

Germany and the US have no quotas or other quantitative restrictions on the import of tea. However, in both countries strict import requirements and large companies, such as Unilever, that control the market make it difficult for smaller tea companies to enter these markets, thus forming barriers of entry (CBI Ministry of Foreign Affairs, 2015).

In term of trade barriers, entering in the US or in the European market is equally easy. Because of the equivalent arrangement of the regulations, organic products from Europe can freely circulate in the US market and vice versa. This represents a great opportunity for the non-EU or US exporters who intend to export in both markets (European Commission, 2015).

There are no tariffs or quotas for black tea in either market and it is not expected to see a raise in them in the foreseeable future.

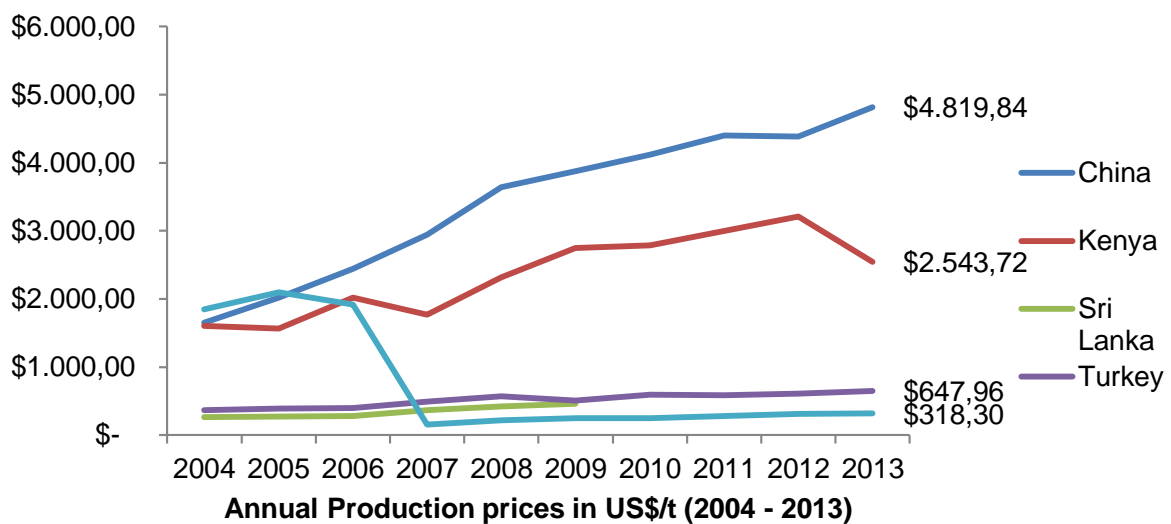


# 5. Prices

## Producer prices

The profitability of the industry has been under pressure in recent years. There has been an oversupply of tea in the international market due to overproduction and constant demand of tea. As shown in Figure 1, the producer prices have been clearly rising in the countries and it is attributed to the higher cost of labor and energy (Wal, 2008).

Figure 1: Prices of production in US\$/ t (2004 - 2010)

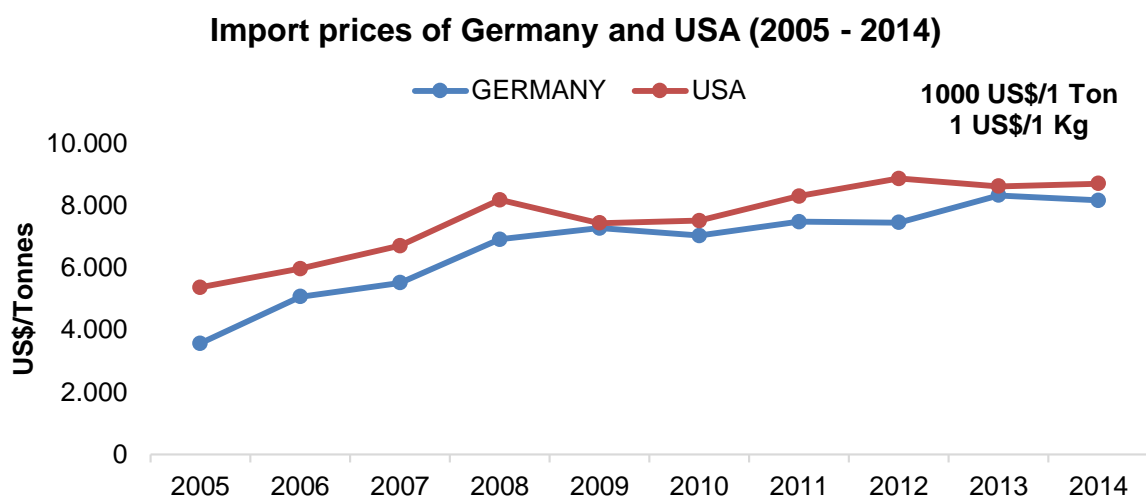


Source: FAO STAT (2015)

## Import prices

As shown in figure 2, the average import price of black tea for Germany is generally lower than the US. Overall, both German and US prices increased gradually from 2005 to 2014.

Figure 2: Import prices in Germany and US (2005 - 2014)



Source: UN Comtrade Database (2014)

## Wholesale prices

According to the International Trade Centre, organic consumer may accept price premiums of 10-25%. To establish a realistic pricing policy, producers and importers need to closely monitor the market and price movements since prices for most organic products tend to fluctuate over time and market requirements change frequently.

The wholesale price is determined by the quantity and quality of the tea. Every supplier has its own minimum order quantity, usually between 10 to 20 kilograms (22 to 44 lb.) from US\$1.20 to US\$5.00 per kilogram (Alibaba, 2015). Figure 2 shows the development of the tea pricing trend over the last 10 years.

## Retail prices

In Germany, roughly half of consumers buy their tea in retail shops and discounters such as Rossmann, DM, and Rewe, with prices ranging from 1.59€ (Rossmann) to 3.29€ (Rewe) for organic black tea. However approximately one fifth prefer specialized teashops with a wider range of products, with prices ranging from 3.90€ and 13.90€ per 100 grams, depending on the origin (TeeGschwender, 2015).

For Germany, the price for organic black tea in 2009 per kilogram was 28.05€. In 2010 it dropped to 27.84€ and in 2014 it increased back to 28.12€. As compared to the US, the price per kilo was \$43.60 in 2009 and increased to \$44.80 in 2010. The price

continued to rise to \$49.60 per kilogram in 2014.

## Value chain

The tea supply chain is complex as it involves many producers, collectors, traders and packers. The downstream stages which are also the most lucrative part of tea trade such as blending, packing, and marketing are often controlled by multinational tea packers and brokers in the buying country. However, the number of smallholders is rising rapidly and they sell their green leaf to independent Bought Leaf Factories (BLFs) or to estate factories directly.

The obtained average prices of tea at the most important auction centers (Kolkata-India, Colombo- Sri Lanka, and Mombasa- Kenya) are a reference for the world market price (TCC, 2010). In a public auction, the brokers and the buyers determine the final price of the lot based on the last selling type of the tea and the market conditions.

The breakdown of the retail price along the value chain of organic tea is shown in Figure 3. The processing and packaging stage generates the most value in the value chain as it transforms the tea leaves into tea bags or flavored tea, which are ready for consumption. For example, for every dollar spent on Chinese organic black tea, 30% accounts for the free on board (FOB) price, which includes the price paid to the producers and costs of local transport and taxes of tea in China (Altromercato, 2015).

Figure 3: Breakdown of retail price along the value chain for fair trade organic tea

Source: Altromercato (2015), adapted by SOMO

Process					
Stakeholders	Workers, Bought Leaf Factories (BLFs)	Warehouses, Brokers, Trading/ Buying agents	Freight Handler, Blenders & Packers	Supermarkets, Independent Retailers	Individual consumers
Type of Pricing involved	Production Cost	FOB, Auction Charges	CIF, Packer's cost	Wholesale	VAT
Major Players	<ul style="list-style-type: none"> <li>• Unilever</li> <li>• Tata Tea</li> <li>• Mcleod Russel</li> <li>• James Finlay</li> <li>• John Keells</li> </ul>	<ul style="list-style-type: none"> <li>• Unilever</li> <li>• Tata Tea</li> <li>• Van Rees</li> <li>• James Finlay</li> </ul>	<ul style="list-style-type: none"> <li>• Unilever</li> <li>• Tata Tea</li> <li>• Twinings</li> </ul>	<ul style="list-style-type: none"> <li>• Aldi</li> <li>• Walmart</li> </ul>	
<b>Example: Price breakdown of organic China black tea Germany &amp; USA (in USD\$)</b>					
Approximate Percentages	12%	18%	28%	31%	11%
Germany	\$4.82	\$7.07	\$11.00	\$12.10	\$4.31
USA	\$4.82	\$10.06	\$13.88	\$15.38	\$5.46

Figure 4: Example of the breakdown of retail price along the value chain for fair trade organic tea from China in Germany in kg.

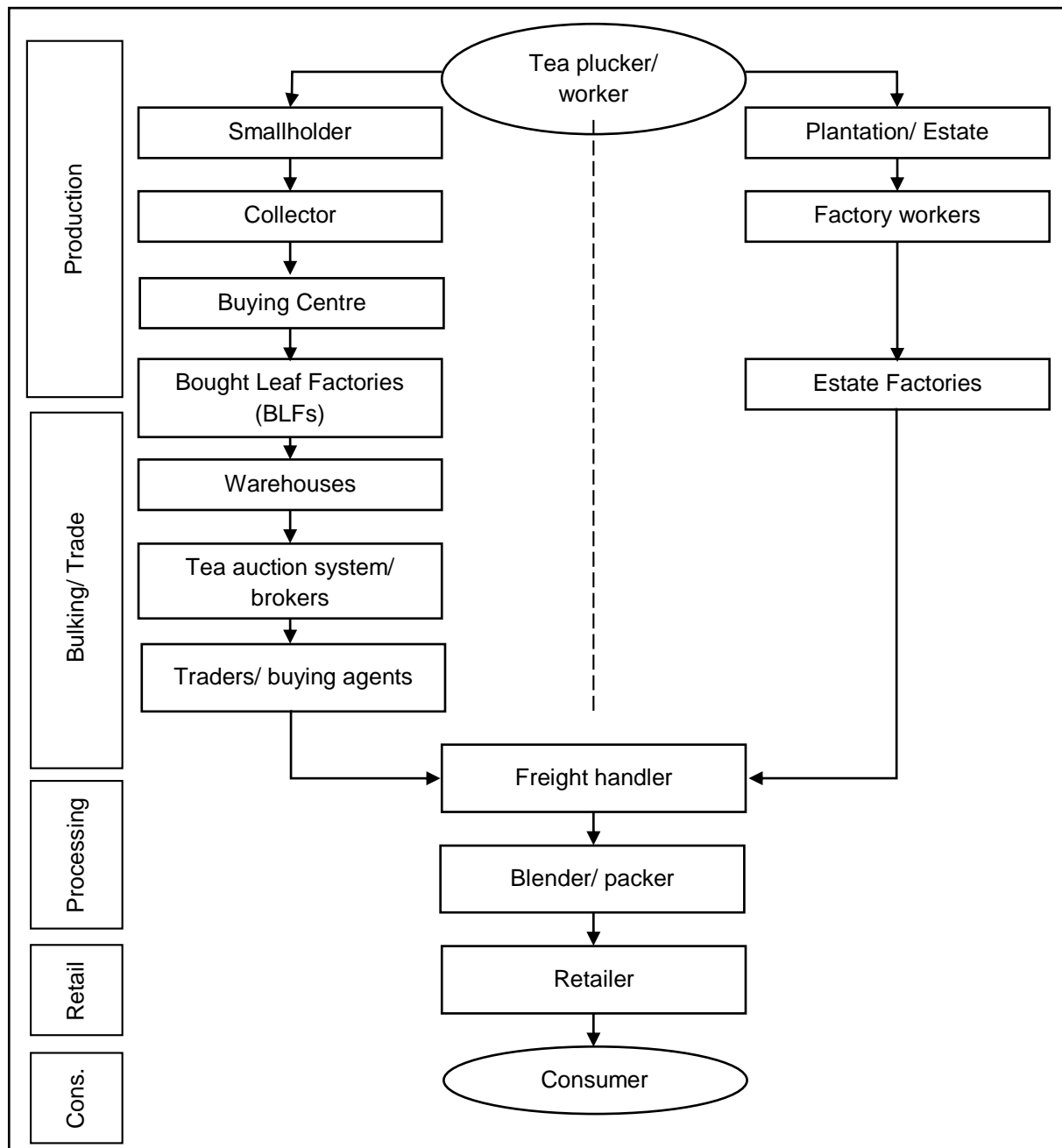


Figure 4 illustrates the breakdown of the retail price across the supply chain. Both Germany and US follow a similar breakdown with the most value added in the processing and retail level. In summary, with increasing labor cost, production prices is predicted to increase while retail prices remain unchanged due to increased competition in the market. The researched information indicates that the US is a more lucrative market to export black tea, as the retail price is higher in the US than in Germany.

## 6. Distribution channels

The international supply chain for Germany and the US is similar because tea is imported to both countries. Figure 6 shows how tea arrives to the customer.

Figure 5: Tea export supply chain



Source: Authors (2015)

The tea supply chain is characterized by a very strong vertical integration by just a few multinational companies. At the global level, 85% of production is sold by

multinationals. Direct links between manufacturers and producers are common. However, major producing and processing companies dominate the trade, have a strong influence on transport companies and source parts of their supplies from their own plantations (IDH, 2011)

For a new company, it's not difficult to enter into the tea supply chain, but it should have a perfect understanding of the way of selling and distribution for each product (R. Laduwahetty, personal communication, October 12, 2015).

Tea should be shipped three to four weeks after harvest to avoid quality degradation during transport. It can be transported by ship, truck, railroad, or aircraft. More and more tea, especially Darjeeling, is shipped by air. Estates are located outside of major cities and towns, where there aren't any or limited rail networks, so tea must be transported to the harbor by road freight (D. Silva, personal communication, December 12, 2015) in container carriers (R. Laduwahetty, personal communication, October 12, 2015). However, tea is predominantly transported and shipped in containers in both markets. The containers have to be watertight and must not be contaminated in any way. Furthermore, a below deck storage is required to avoid exposure to rain, seawater, or temperature changes. The cargo must be protected from moisture and from damp weather (rain or snow) to prevent the tea from mold growth (TIS, 2015).

Tea has a long storage life of 18 months, even longer if it is transported and stored correctly. The storage place has to be cool, dry, and has to have good ventilation. Tea must be stowed away from sources of heat in order to avoid the risk of desiccation and drying. Favorable travel temperature ranges from 5 to 25°C (41 to 77°F). The humidity needs to be between 50% and 60%, and the water contents of 4% to 6% at equilibrium for black tea. If there is a risk of degradation by mold, ventilation measures with an air exchange rate of 10 changes per hour is recommended (TIS, 2015).

About 70% of the Europe-wide traded tea is shipped to Hamburg. Many service providers like laboratories, logistical specialists, and suppliers, as well as the German Tea Association and the European Tea Committee are located in Hamburg. From there, the minimal processed tea is blended and packaged by the tea companies and handled for the final users (Verband Deutscher Reeder, 2012).

German domestic players are very strong, leaving only a very small share of the category to international competitors. The two biggest players, Ostfriesische Tee Gesellschaft and Teekanne, hold a combined share of 42% (Category Briefing, Tea in Germany, 2015). They import tea for the German market and also to re-export it mostly in Europe.

For the US market, the three main tea companies are Unilever United States Inc., with a share of 17.5%, followed by RC Bigelow Inc., and Twining & Co Ltd. (Passport, Tea in the US, 2015).

In the US, tea is distributed through three major channels. There are distributors that stock inventory and provide agents who service large resellers like grocery stores and convenience store chains. Secondly, wholesalers that have their own distribution network under their own terms and conditions (R. Laduwahetty, personal communication, October 12, 2015), provide value added products and services to the tea offering. Lastly, retailers deliver tea directly to the consumer for consumption (Ezine Articles, 2007).

Almost half of the organic beverages in Germany are sold through discounters and other grocery retailers, like Denn's and Alnatura. The respective retail value for non-grocery retailers like Weltladen and Gepa, count for 13.5%, whereas Internet retailing was just 2% (Euromonitor, Organic Beverages in Germany, 2015). In the overall German tea market, tea specialty shops could reach a market share of 17.4% in 2014.

In the US, conventional supermarkets and natural product retailers account for 44.8% of the respective retail value, followed by Hypermarkets with 26.8% and non-grocery retailers like drugstores. Internet retailing, with 0.1% is like in Germany, are minimally used by the customers in the US (Euromonitor, Organic Beverages in the US, 2015).

The German and US market only differ in the way tea is distributed from the tea companies to retailers. In Germany, direct links between those parties are common, while in the US retailers can receive tea from distributors, agents, and wholesalers.

Retail spending for organic beverages is predicted to grow further in the German and the US market. Besides distributing through everyday retailers, distribution through specialty teashops should also be considered since they have gained fairly strong value in both markets.



## 7. Commercial practices

Worldwide, the majority of tea is sold through auctions. Another sales method is direct selling by the producer. The Colombo Tea Auction Centre is one of the largest in the world and trades on average about 5 to 6 million kg (11 to 13 million lb.) of tea weekly (Institute of Social Development Kandy, 2008).

If an importer from Germany or the US wants to purchase directly from a producer, the most common ways of contacting are via email, the producer's website or by telephone. It is common that the importer is the one who first establishes the contact between the business partners (R. Laduwahetty, personal communication, October 12, 2015). The order details as well as purchasing conditions should be included in a written contract. Credits should be available for the producer to finance the production. Arrangements can be made with commercial banks or government agencies through crop liens that are guaranteed through sponsors. Contracts with producers can also include fixed pricing structures through negotiations (FAO, 2015). A Proforma Invoice (P/I) is most commonly used. If a broker is hired to do Customs Clearance, incoterms can be negotiated (Institute of Social Development, Kandy 2008). Possible incoterms for tea trade are FOB and EX WORKS, but this depends on the preferences of the business partners (D. Silva, personal communication, December 12, 2015). There are no preferred payment methods, they can be negotiated individually between business partners and should be included in the contract (R. Laduwahetty, personal communication, October 12, 2015).

### Germany

Since German retailers usually do not order organic products directly from producers, it is important to contact specialized wholesalers. They know the German organic food market, importing requirements and can take care of shipping and distribution in Germany. At trade fairs, which specialize in organic food and beverages like the "International Green Week" or "BioFach", retailers, wholesalers, and importers can be contacted directly. In online business-to-business (B2B) marketplaces, like "Greentrade" or "iXPOS Export Community", products can be offered and buyers or business partners can be found (iXPOS, 2015).

## The United States

Due to the Bioterrorism Act, tea importers and suppliers are required to give the FDA advanced notice of import, which can be done electronically and requires an importer to be registered with the FDA. This only applies to cargo arriving by an ocean vessel and does not apply to other modes of transportation. There are also labeling requirements that must be met when importing to the US (FDA, 2015).

In the organic tea industry, Germany and the US will experience similar commercial practices because standardizations have been put in place within the industry. Even with these standardizations in place, companies still will be able to negotiate with individual producers. Since producers have to register with the FDA before entering the US market, it might be slightly easier to export to Germany.

In the future, with fast, technical and innovative ways to contact, order, and communicate between buyers and sellers, a larger shift towards online communication can be predicted.

## 8. Packaging and labeling

The requirements for packaging and labeling for Germany are listed in the EU-wide Regulation (EU) No 1169/2011 of the European Parliament and of the Council on the provision of food information to consumers. For the US, the Code of Federal Regulation (CFR) Title 21, §101 of the Federal Food, Drug, and Cosmetic Act applies.

### Packaging

Organic and conventional black teas are packed in the same way for transportation and the end user.

After the grading phase, tea leaves are packed in airtight containers to prevent absorption of moisture, which can cause loss of flavor during storage. Before sending the products to the consumer market, the airtight containers are put in packing chests. These chests are usually constructed of plywood, lined with aluminum foil, and one or two plies of parchment paper, which provides aroma-proof packaging. The corners are covered with sheet metal to reinforce the chests and protect the contents from humidity/moisture and foreign odors. Plywood chests from China and India are often additionally protected by bast mats or fabric (TIS, 2015).

Classification by net weight:

- Whole chest 35 - 60 kg or 40 - 73 kg
- ½ chest 20 - 40 kg or 30 - 40 kg
- ¼ chest/box 9 kg
- Paper and jute bags 25 - 60 kg

Tea chests that have been packaged and sealed in the country of origin are called 'country coopered packages'. Coopering is the process of making or repairing barrels. The ones that are packaged upon arrival at the port of destination are called 'dock coopered packages' (TIS, 2015).

Both in the US and EU, the packaging of tea for the end user varies a lot. Loose tea can be packed either in corrugated paper cartons lined with aluminum foil, metal tins, metalized plastic sachets or tea bags made of special porous paper. Tea bags are mainly packed with broken-grade teas (TIS, 2015).

# Labeling

## Germany

For packages, the front size must at least be 1.2mm (0.04 inch) tall based on lower case letter.

For packages less than half the size of a postcard, it has to be at least 0.9mm (0.03 inch). These sizes are required since all information has to be visible, legible and if necessary, indelible (BMEL).

To claim black tea as organic, the producers, importers, wholesalers and processors need to be certified and controlled (Lieblingstee, 2014). The product has to be marked with an EU certified organic label. In addition to the EU label, the trademark protected German organic logo can be used (Oekolandbau, 2015).

Figure 6: Organic label 'Bio-Siegel' additionally for the German market



Source: Oekolandbau (2015)

Figure 7: Organic label 'EU-Bio-Logo' for the EU market



Source: Oekolandbau (2015)

## ***The United States***

The font size must be at least 1.6mm (0.06 inch) tall based on the lowercase letter, the height of letters can not be more than 3 times their width, All required information must have sufficient contrast and be easily legible. When using a foreign language anywhere on the package, all required information must be in both English and the foreign language (FDA, 2013).

Any domestic or imported product that claims to be organic must be certified and needs to be labeled with the USDA organic seal. See Figure 8 (OrganicGuide, 2015). The labeling requirements are the same for the US and the US states.

Figure 8: Organic label 'USDA organic seal' for the US market



Source: USDA (2015)

In the EU and the US, an organic product has to contain a minimum of 95% organic ingredients to be considered organic. The number of labeling requirements is almost equivalent, see Table 9. The complexity of labeling in both markets is equal.

Table 16: Comparison of the German and US labeling requirements

Table 16: Comparison of the German and US label requirements		
Labeling requirements	Germany	The US
Statement of identity	X	X
Particular form of the tea		X
Ingredient list	X	X <sup>1</sup>
Expiration date	X	
Net quantity of contents	X	X
Name and address of the manufacturer, packager or distributor	X	X
Nutrition labeling	X <sup>2</sup>	
Country of origin markings		X <sup>3</sup>
Source: Food and Drug Administration (FDA) and Lebensmittel-Informationenverordnung (LMIV)		
<sup>1</sup> The statement of identity 'black tea' is enough for single-ingredient tea.		
<sup>2</sup> Caffeine does not have to be mentioned for unprocessed foods like black tea.		
<sup>3</sup> When the product is imported to the US.		

Source: BMEL (2015) & FDA (2013)

Unlike the US, Germany already had other private organic labels long before the emergence of the national official recognized organic logos. For instance, Naturland, Bioland and Demeter, which have stricter requirements than the Bio-Siegel and the EU label (BÖLW, 2015).

It can be harder in the future to export to Germany than to the US due to an increasing trend of private labeling of retail distribution in Germany for organic products like Rewe-Bio, BioBio (Netto), and Edeka-Bio, partnering with the previous mentioned high standard German organic logo (BÖLW, 2015).

## 9. Sales promotion

Organic tea products have gained substantial attention in both the US and Germany. There are many well-established trade fairs, associations and magazines for organic products. BioFach is organized in both countries by Nürnberg Messe, with the support of IFOAM Organics International.

Trade fairs and trade magazines are the most commonly used methods for suppliers to promote their products. Alternatively, trade associations also connect industry players and provide news and information about the industry.

Germany, with its increased attention on organic products, organizes more trade fairs and gives more support to interested suppliers. Anuga and Biofach have been the largest exhibitions in Germany and the US, both have achieved great success and acknowledgment within the industry. It is expected that they will maintain their relevance.

### Trade fairs and exhibitions

#### *Germany*

Anuga  
Koelnmesse GmbH  
Messeplatz 1  
50679 Cologne  
Germany  
Tel.: +49 (221) 821-2240  
Fax: + 49 (221) 821 99-3410  
Website: <http://www.anuga.com>

Biofach Into Organic  
Nürnberg Messe  
Messezentrum  
90471 Nürnberg  
Germany  
Tel.: +49 (911) 8606-8996  
Fax: +49 (911) 8606-8645  
Website: <https://www.biofach.de/en/>

BioNord, BioSüd, BioWest and BioEast  
Deutsche Messe Halle 4 30521 Hannover

Augsburger Schwabenhallen Messe Am Messezentrum 5 86159 Augsburg  
Messe Düsseldorf Halle 14 Messeplatz 1 40474 Düsseldorf  
Messe Berlin Jafféstrasse 2 Halle 25 14055 Berlin  
Tel. central office: +49 (511) 8765-4820  
Fax: +49 (511) 8765-4829

Coteca  
Hamburg Messe und Congress GmbH  
Messeplatz 1  
20357 Hamburg  
Germany  
Tel.: +49 (40) 3569-2434  
Fax: +49 (40) 3569-2771  
Website: <http://coteca-hamburg.com/en>

Drinktec  
Messe München GmbH  
Messegelände  
81823 München  
Germany  
Tel.: +49 (89) 949-20720  
Fax: +49 (89) 949-20729  
E-mail: [info@messe-muenchen.de](mailto:info@messe-muenchen.de)  
Website: <http://www.drinktec.com/>

International Green Week  
Messe Berlin GmbH  
Messedamm 22  
14055 Berlin  
Germany  
Tel.: +49 (30) 3038-0  
Fax: +49 (30) 3038-2019  
E-mail: [igw@messe-berlin.de](mailto:igw@messe-berlin.de)  
Website: <http://www.gruenewoche.de/en/>



Fruit Logistica  
Berliner Großmarkt GmbH  
Beusselstr. 44 N-Q  
10553 Berlin  
Germany  
Tel.: +49 (30) 3038-2020  
Fax: +49 (30) 3989-6124  
Website: <http://www.fruitlogistica.de/en/>

### ***The United States***

BioFach America  
Baltimore Convention Center  
One West Pratt Street  
Baltimore, 21201 USA  
For all US/ Canadian companies: Michelle Spann +1 (303) 998-9040  
For all others: Katharina Neumann +49 (0) 9 11 86 0681 79  
Host: NuernbergMesse GmbH  
Website: <https://www.biofach-america.com/en/contact/exhibitors/>

Natural Products Expo East  
Baltimore Convention Center  
One West Pratt Street  
Baltimore, 21201 USA  
Host: New Hope Natural Media  
Tel: +1 (866) 458-4935, +1 (303) 390-1776  
Website: <http://www.expoeast.com>

Natural Products Expo West  
Anaheim Convention Center  
800 West Katella Avenue  
Anaheim, 92802 USA  
Host: New Hope Natural Media  
Tel: +1 (866) 458-4935, +1 (303) 390-1776  
Website: <http://www.expowest.com>

World Tea Expo  
Las Vegas Convention Center  
3150 Paradise Rd  
Las Vegas, NV 89109 USA  
Host: F+W Media Trade Show & Events, LLC.  
Tel: +1 (866) 456-3062  
Fax: +1 (513) 531-0798  
Website: <http://www.worldteaexpo.com/index.php/contact-us>

## **Trade magazines**

### ***Germany***

Das Tee Magazin  
Intarix Consulting GmbH  
Schillerstrasse 20  
35423 Lich  
Germany  
Tel.: +49 (6404) 659-321  
Fax: +49 (6404) 659-322  
E-Mail: [info@intarix.de](mailto:info@intarix.de)  
Website: <http://www.intarix.de>

### ***The United States***

The Tea House Times connects businesses and consumers to tea retailers, wholesalers, and tea related business help.

The Tea House Times  
2 Main Street #1049  
Sparta, 07871 USA  
Tel: +1 (973) 551-9161  
E-Mail: [info@theteahousetimes.com](mailto:info@theteahousetimes.com)  
Website: <http://www.theteahousetimes.com/>

# Associations

## *Germany*

Der Deutsche Teeverband e.V. (The German Tea Association)

Sonninstraße 28

20097 Hamburg

Germany

Tel.: +49 (40) 2360-1634

Fax: +49 (40) 2360-1610

Website: <http://www.tea-up-your-life.de/english/>

Waren-Verein der Hamburger Börse e.V.

Große Bäckerstraße 4

20095 Hamburg

Germany

Tel.: +49 (40) 3747-190

Fax: +49 (40) 3747-1919

E-Mail: [info@waren-verein.de](mailto:info@waren-verein.de)

Website: <http://www.waren-verein.de>

## *The United States*

Organic Trade Association

444 N. Capitol St. NW, Suite 445A

Washington D.C., 20001 USA

Tel: +1 (202) 403-8520

Website: <https://www.ota.com/>

Tea Association of USA

362 5th Ave- Suite 801

New York , 10001 USA

Tel: +1 (212) 986-9415

Fax: +1 (212) 697-8658

E-mail: [info@teausa.com](mailto:info@teausa.com)

Website: <http://www.teausa.com/>

# 10. Market prospects

## Germany

The market for organic beverages in Germany grew by 3% in value in 2014 and a further constant growth is expected (Passport, Organic Beverages, 2015). The sales of organic black teas are expected to rise up to 23.2 million euro by 2019, which would be a total growth of 33.33% from 2014 to 2019 (Passport, Organic Beverages in Germany, 2015).

Hot drinks will continue to be perceived as lifestyle products throughout the forecast period. It is expected that companies will continue with their strategies of distinguishing their brands through new or more sophisticated flavors, creating unique positions in the market (Passport, Hot Drinks in Germany, 2015).

The main tea consumers in Germany are over 50, but younger people are also becoming more interested. This rising popularity can be a chance for companies to expand to a new market segment (Muthkomm, 2012).

Coffee is the main competitor for tea. The biggest threat for organic black tea is the growing popularity of green tea, which is seen as a healthy alternative (Passport, Hot Drinks in Germany, 2015). Herbal and fruit infusions as well as tisanes can also become a threat in the German market (CBI, Ministry of Foreign Affairs, 2015). Vegetable teas, which offer a savory taste, can become a possible threat, but are not obvious competitors yet. They are positioned as an even healthier tea experience, which can almost serve as a snack containing no calories (Passport, Hot Drinks in Germany, 2015). Technical innovations on the tea markets are tea pod machines and their success is likely due to the convenience they offer (Passport, Hot Drinks in Germany, 2015).

In the tea manufacturing process, safety regulations are already very strict, including ISO Food Safety Methods. In attempts to ban more pesticides, even stricter safety regulations can be expected. The trend also goes towards food grade packaging materials, which can become compulsory in the long-term future (R. Laduwahetty, personal communication, November 18, 2015).

Concerning organic black tea, there are no trade agreements as well as changes in the process, such as the auction system planned for the near future (R. Laduwahetty, personal communication, November 18, 2015). Although the prices for tea, in general, are predicted to stay the same, the prices for organic teas will rise due to higher customer awareness and a rising demand for organic tea (D. Silva, personal communication, December 12, 2015).

The distribution channels of tea will possibly shift in the long-term towards buying from the producers directly. Thanks to the internet, social media and the customers' expectations to receive goods instantly, producers will increasingly send tea directly to the buyer, skipping time and cost-consuming intermediate steps (D. Silva, personal communication, December 12, 2015).

## The United States

As in Germany, competition for tea products is expected to grow in the US. This can be seen by the expansion into this market by beverage companies. The tea market, though, is growing more towards teas with premium quality and bolder flavors. Because of this, more manufacturers are producing products in a loose-leaf format. This production style is perceived by US consumers as higher quality than bags and is sold at a higher price. This trend will result in the demand for higher quality tea production and products, without taking away from mass-produced variations (Passport, Organic Beverages in the US, 2015).

An innovation in tea cultivation and production is expected to increase as the demand for tea products continue. This will especially be true in the organic and specialty tea markets. Because tea cultivation is very labor intensive and it takes about 5 years for a plant to mature, exclusive brews from local farmers and producers will see a rise in demand for their products as US consumers seek out higher quality and unique tea variations (Hardie, 2015). There is also a massive movement in the tea brewing process, like tea concentrate and bubble tea (Ball, 2005).


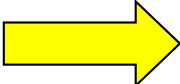
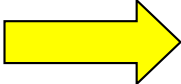







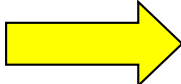

A number of trends are occurring in the US that is increasing tea consumption. First, consumers are becoming more sophisticated in their tastes and because of the highly popular specialty coffee industry, consumers are appreciating and educating themselves on other beverage choices. Second, as in Germany, there is a growing awareness of the health benefits tea provides due to extensive media coverage. Third, consumers want better tasting foods and beverages. Lastly, the marketing and packaging done by the beverage industry has appealed to the purchase-conscious American consumer (Shu, 2001).


With the majority of tea being supplied from mass-producing countries like China, India, Kenya, Sri Lanka and Argentina, there is room for specialty blends for higher-grade tea consumption. A small domestic market in the US has created opportunities to work with smaller growers. This could be advantageous because where tea is grown has a direct effect on the unique flavors and blends that are created (Hardie, 2015).

When comparing the two markets, Germany views organic tea as a lifestyle product with most consumers currently over the age of 50. In the US, consumers are becoming

more sophisticated with their tastes and are demanding unique variations. However, in both markets there is increased consumption of tea products with increased demand for organic and specialty teas. The market prospects are very positive for not only mass-producing suppliers but also smaller businesses, especially in the US as younger people look for new tastes and healthier products.

## Market prospect synopsis

US	Germany	Chapter message
		<p><b>2: Production, trade, consumption:</b></p> <p>Although black tea imports are expected to increase more in Germany, the US is more lucrative as the trade value and consumption is higher.</p>
		<p><b>3: Market characteristics:</b></p> <p>Increasing attractiveness of the Germany market due to the rising demand for quality and organic products. In the US there is demand for black tea but not explicit for organic black tea.</p>
		<p><b>4: Market access:</b></p> <p>There are equal arrangements of trade regulations and low trade barriers in both the US and Germany and no changes are expected in the future.</p>
		<p><b>5: Prices:</b></p> <p>Production prices are predicted to increase while retail prices remain unchanged. The US market appears to be a more attractive market due to a higher retail price than Germany.</p>
		<p><b>6: Distribution:</b></p> <p>Tea retail market is rising in both countries, especially for tea specialty shops.</p>
		<p><b>7: Commercial practices:</b></p> <p>Commercial practices for organic tea are similar in both markets. It is slightly easier to export to Germany because of the necessary registration with the FDA before exporting to the US.</p>

		<p><b>8: Packaging and labeling:</b></p> <p>It can be harder in the future to export to Germany than to the US, due to an increasing trend of private labeling in Germany.</p>
		<p><b>9: Trade promotion:</b></p> <p>There are more channels and support available for organic tea exporters to present their products in Germany.</p>
		<p><b>10: Market prospects:</b></p> <p>The demand of organic tea is expected to grow in both countries due to rising customer awareness. The market prospects are very positive in both countries.</p>



# Annex

## ***Annex 1: Selected potential importers***

Teekanne GmbH & Co. KG ,  
Kevelaerer Str. 21-23 D  
40549 Düsseldorf  
Germany  
Tel.: +49 (211) 50850-1  
Fax: +49 (211) 504-8139  
Website: <http://www.teekanne.de>

Ostfriesische Tee Gesellschaft GmbH & Co. KG  
Am Bauhof 13–15  
21218 Seevetal  
Germany  
Tel.: +49 (4105) 504-0  
Fax: +49 (4105) 624-0  
Website: <http://www.otg.de>

R.C.Bigelow.Inc  
201 Black Rock Turnpike  
CT 06825 Fairfield  
USA  
Tel.: +1 (888) 244-3569, +1 (203) 334-1212  
Fax: +1 (203) 382-5509  
Website: <http://www.bigelowtea.com>

Unilever United States Inc  
800 Sylvan Avenue  
NJ 07632 Englewood Cliffs  
USA  
Tel.: +1 (201) 894-4000, +1 (800) 298-5018  
Website: <http://www.unileverusa.com>

Twining & Co Ltd  
777 Passaic Ave Suite 230  
Clifton, NJ 07012  
USA  
Tel.: +1 (973) 591-0600  
Fax: +1 (973) 591-1700  
Website: <http://www.twiningsusa.com>

## ***Annex 2: Contact list***

Rohan Ladduwahetty  
Director at UniWorld TEAS (UWT)  
324, Old Road Ambatale  
Mulleriyawa North, Sri Lanka  
Tel: +94 (11) 291-3018  
Email: rohan@ramicointernational.com  
Website: <http://www.uniworldteas.com>

Dananjaya Silva  
Managing Director at PMDTea  
UK Address  
Suite 16, 24-28 St. Leonards Road,  
Windsor, Berkshire, SL4 3BB, UK  
Sri Lanka Address  
155, Dam Street, Colombo 12, Sri Lanka  
Tel: +44 (77) 2531-7590  
Tel: +94 (76) 666- 9203  
Email: d.silva@pmdtea.co.uk  
Website: <http://www.pmdtea.com>

Maria Andronikidou  
President at Sri Lanka Bridge e.V.  
Bismarckstraße 47  
45470 Mülheim an der Ruhr, Germany  
Tel: +49 (208) 6260-324  
Email: ma@srilanka-bridge.de  
Website: <http://www.srilanka-bridge.de>

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