



INTERNATIONAL  
COFFEE  
ORGANIZATION

# Statistical Workshop

Kigali, Rwanda

12 February 2019



Item 1

Welcome

# Overview of the Workshop Agenda

- Role of ICO Members in providing data on the global coffee sector
- Coffee sector balance sheet
- Review of the global coffee market situation
- ICO statistical reporting requirements



# Item 2

Role of ICO Members  
in providing data on  
the global coffee  
sector

***‘Delivering world-class data, analysis and information to the industry and policy makers.’***



‘A core function of the Organization is to be the world’s most respected coffee statistical authority, enhancing market transparency by providing Members and third parties with easy access to accurate and comprehensive statistical data, and high quality analytics related to the world coffee economy to the benefit of all stakeholders in the coffee supply chain, including decision-makers responsible for coffee policy.’





8

5

10

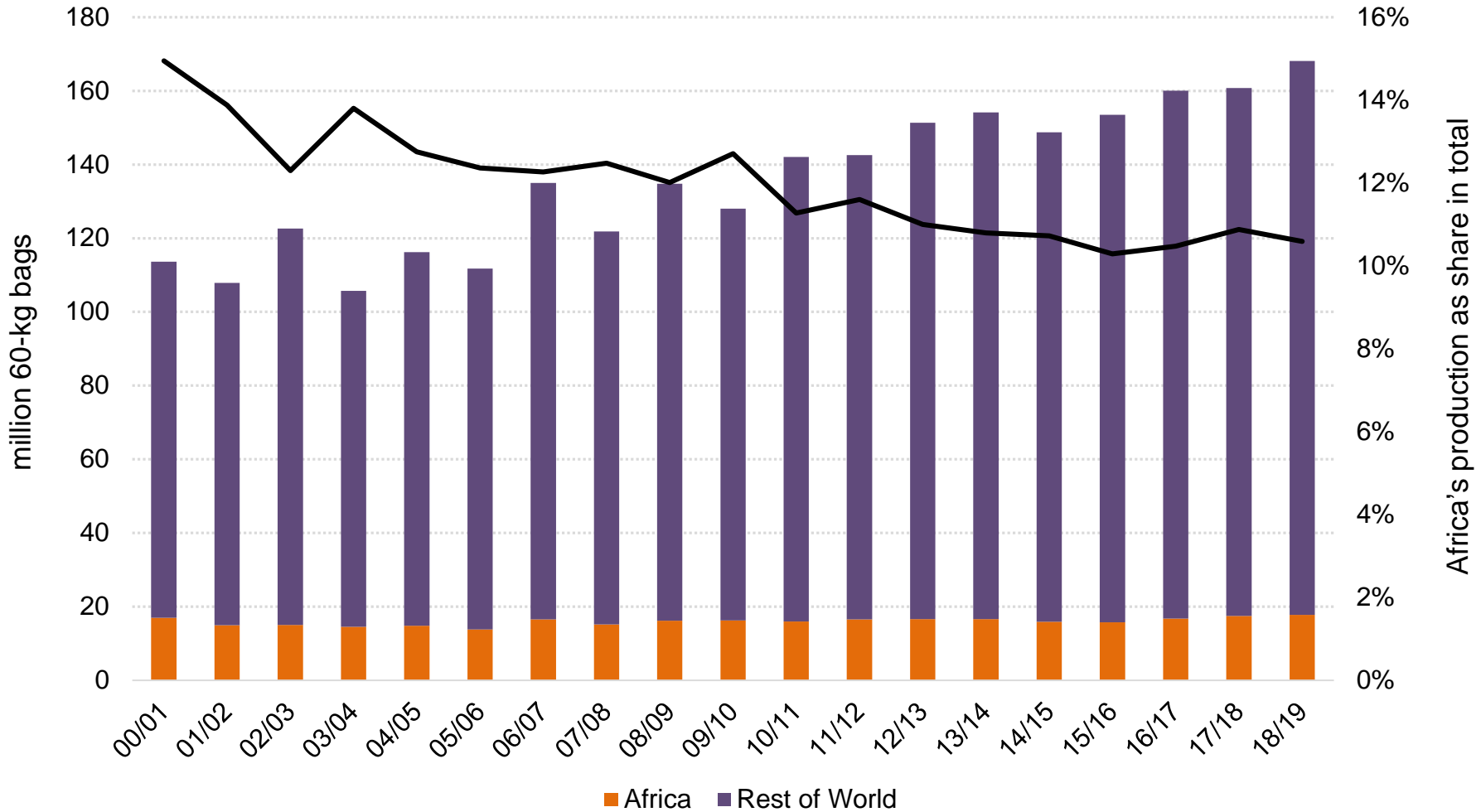
21

7

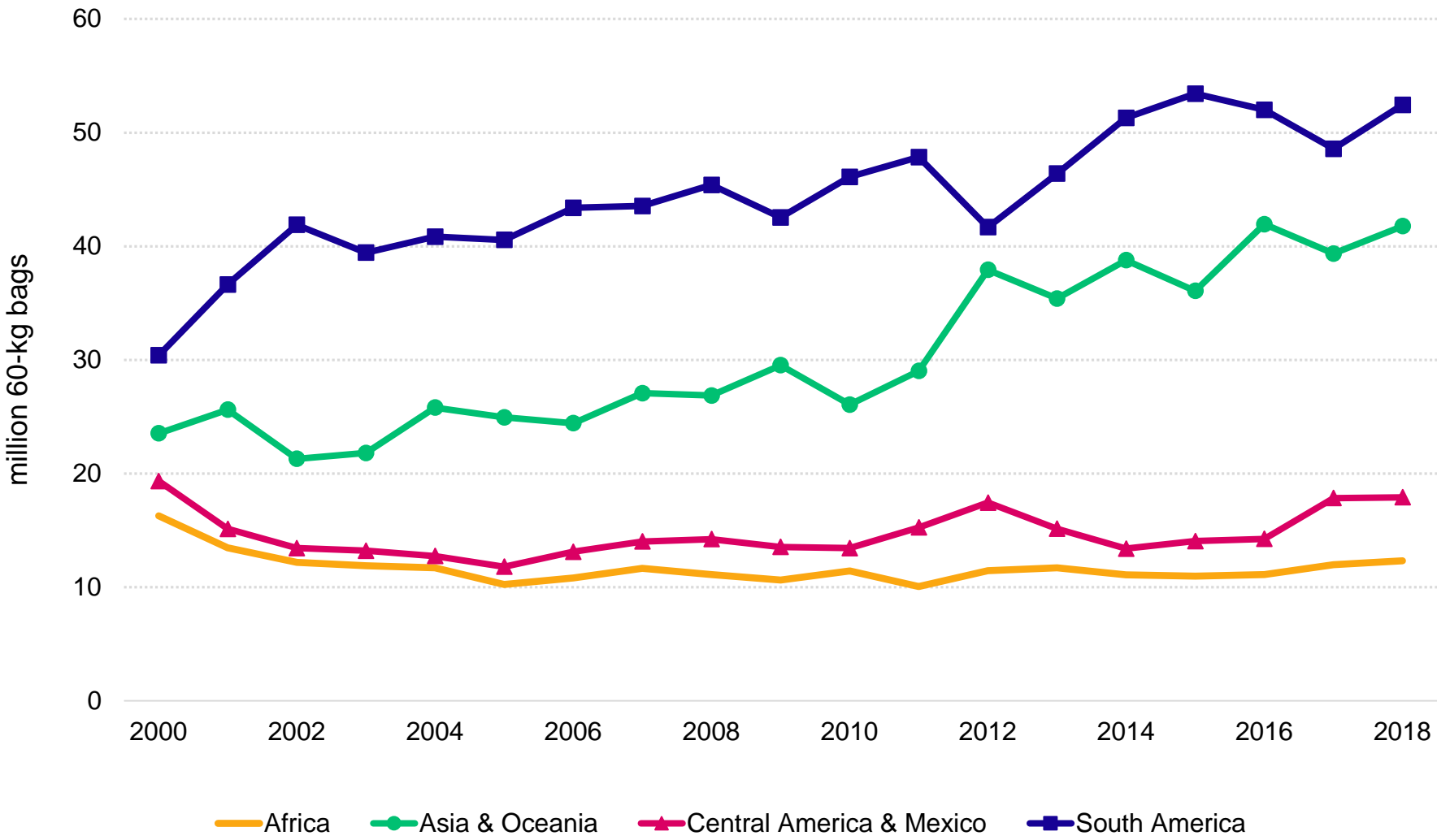
***'The quality of the Organization's statistical work depends heavily on data submitted by Members.'***



# Africa's share of global coffee production

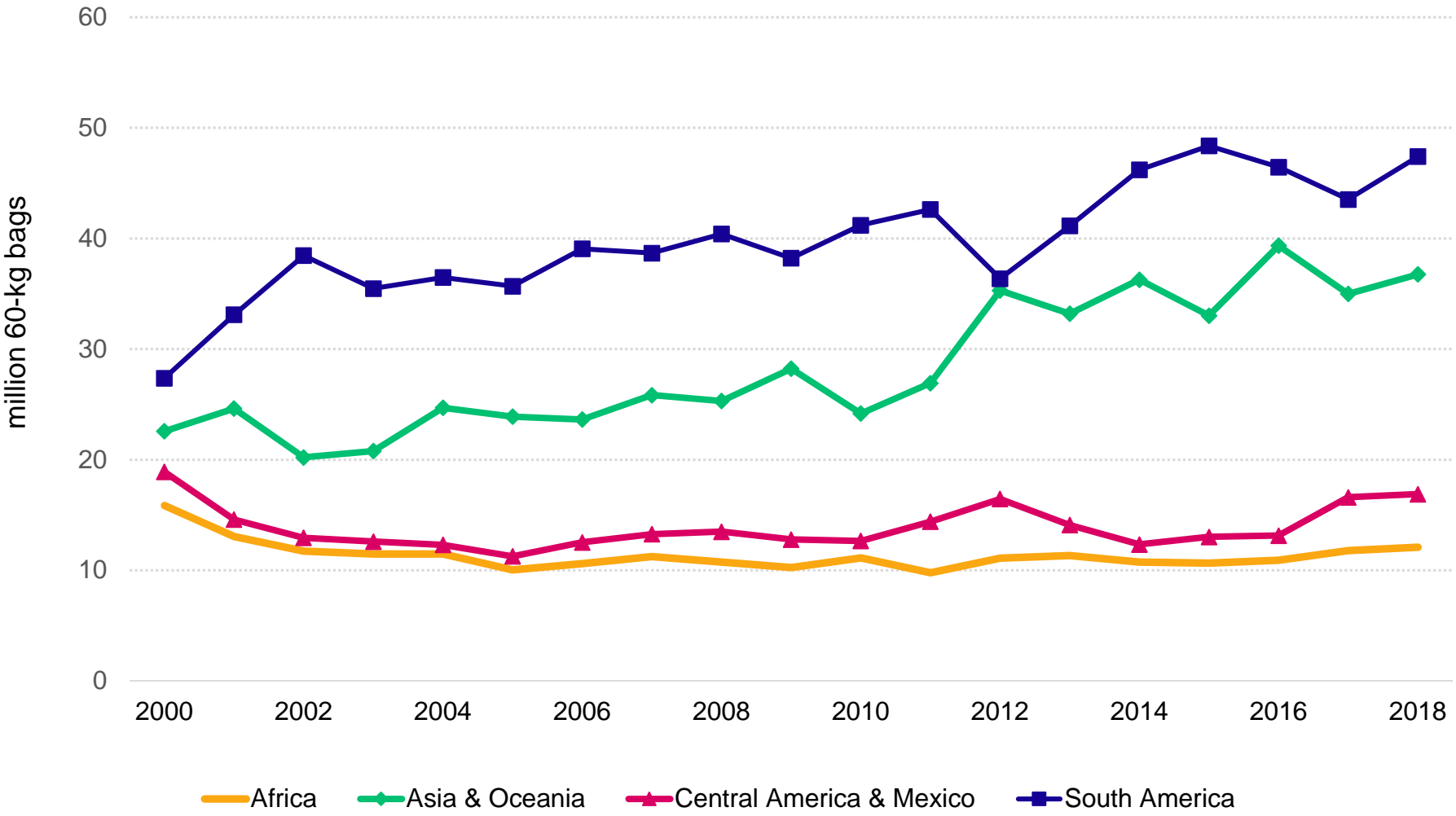


# Global coffee exports by region

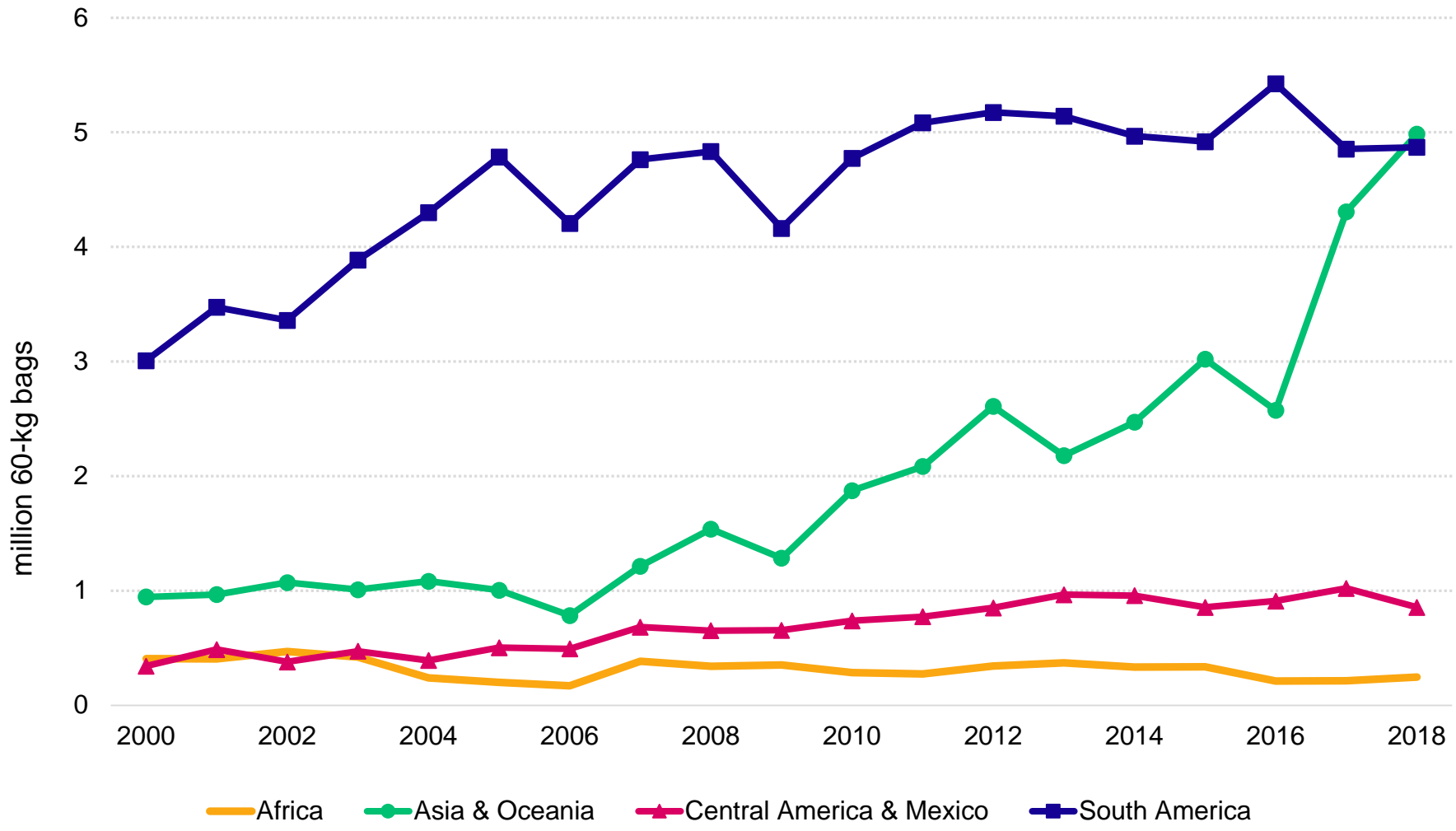




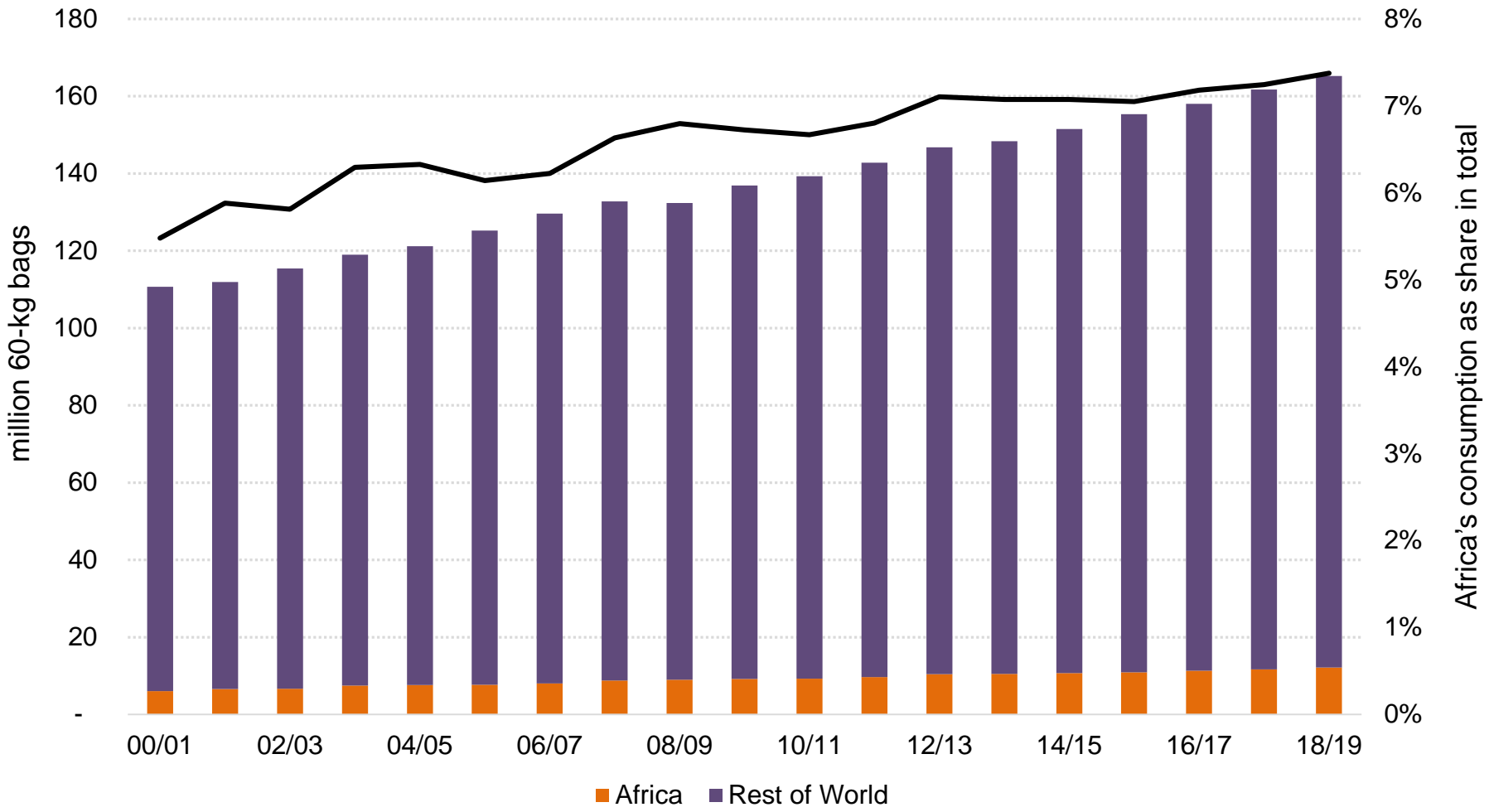
# Green coffee exports



# Soluble coffee exports



# Africa's share of global consumption



# How the Secretariat uses the data it collects

- Responding to requests for information from the general public and media
- Providing data on the coffee sector to researchers from around the world (<http://www.ico.org/documents/cy2018-19/ed-2295e-call-for-award-competition.pdf> )
- Presentations and talks at various forum
- Market reports on the coffee sector
- Background information for development projects



3.

Coffee sector  
balance sheet

# Why understand the balance sheet?

- Ensures internal consistency of data at both country-level and global level
- Ensures consistency of data over time
- Analysis of the fundamentals of the coffee market



Supply = Demand



# Global Balance Sheet

$$\begin{aligned} &\text{opening stocks} + \text{production} \\ &= \\ &\text{consumption} + \text{ending stocks} \end{aligned}$$

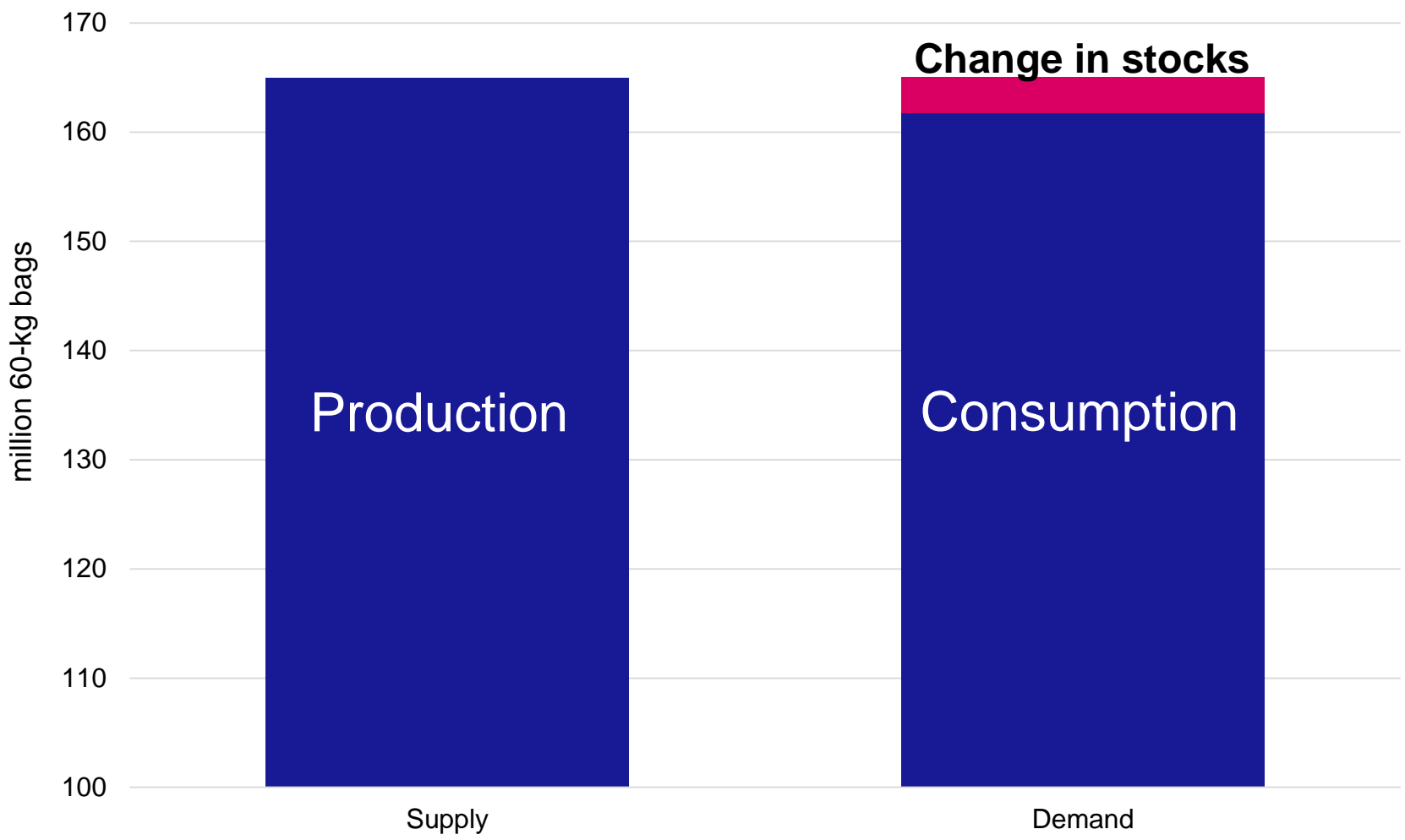
or

$$\text{production} - \text{consumption} = \text{change in stocks}$$





# Global Balance Sheet (2017/18)



# Country level balance sheet

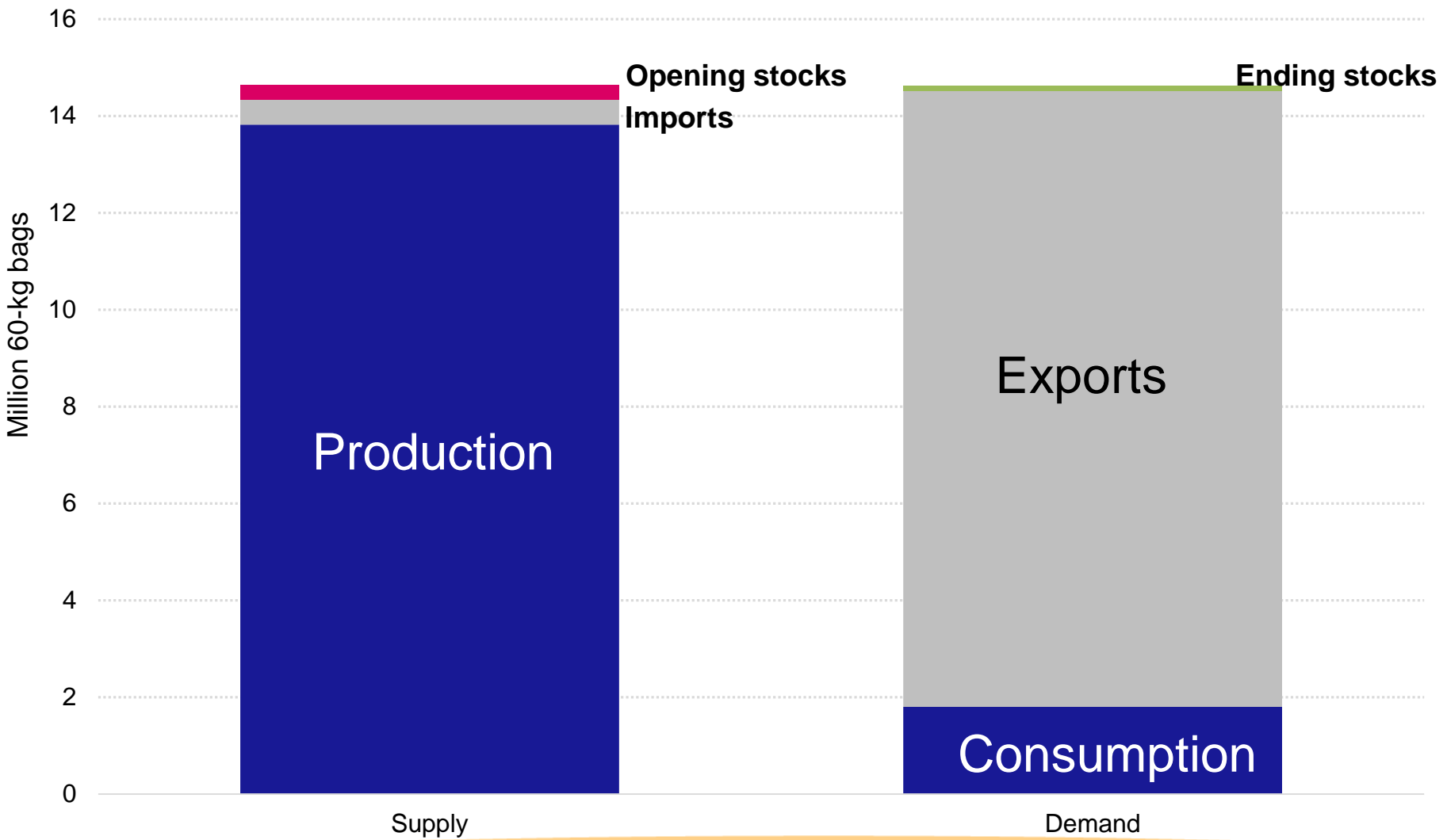
beginning stocks + production + imports

=

consumption + ending stocks + exports



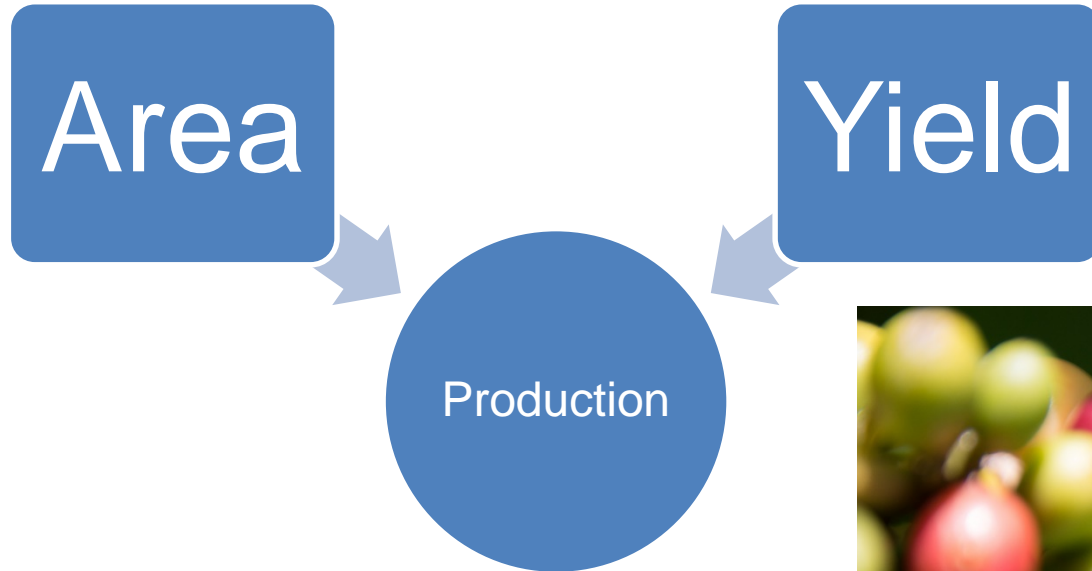
# Colombia balance sheet (2017/18)



# Item 3.1

Production, area,  
productivity

# Supply: Production



# Supply: Area and Yield

## Area

Non-producing vs Producing  
Climate Change  
Competing crops

## Yield

Farm management/agronomic techniques  
Level of inputs used (fertilizer/insecticide etc)  
Pests  
Diseases  
Age of trees  
Weather



# Item 3.2

Trade

# Supply: Imports



Only source of supply for non-producing countries

For producing countries, imports can cover supply shortages due to:

- Delays in harvesting
- Lower output
- Type not produced in the country

At the global level imports are matched by exports so do not contribute to global supply or demand





# Demand: (Re)Exports

Exports and re-exports are essentially external demand

Timing and volume affected by:

- International prices vs. domestic
- Exchange rates
- Trade policy
- Domestic policy
- Shipping



# Item 3.3

Consumption

# Demand: Consumption

Often the hardest parameter to estimate or obtain direct data for

Can be calculated based on the values of the other parameters

Is affected by the following factors:

- Growth in population
- Growth in per capita income
- Investment in infrastructure
- Government policies
- Prices of competing goods
- Culture





Item 3.4

Stocks

# Stocks

Opening stocks are carried over from previous season while ending stocks is the amount of coffee that is



Under quotas more stocks were held by exporters

In the last two decades importers tend to have more of the stocks, usually keeping on hand around 2-3 months of supply.



# Item 4

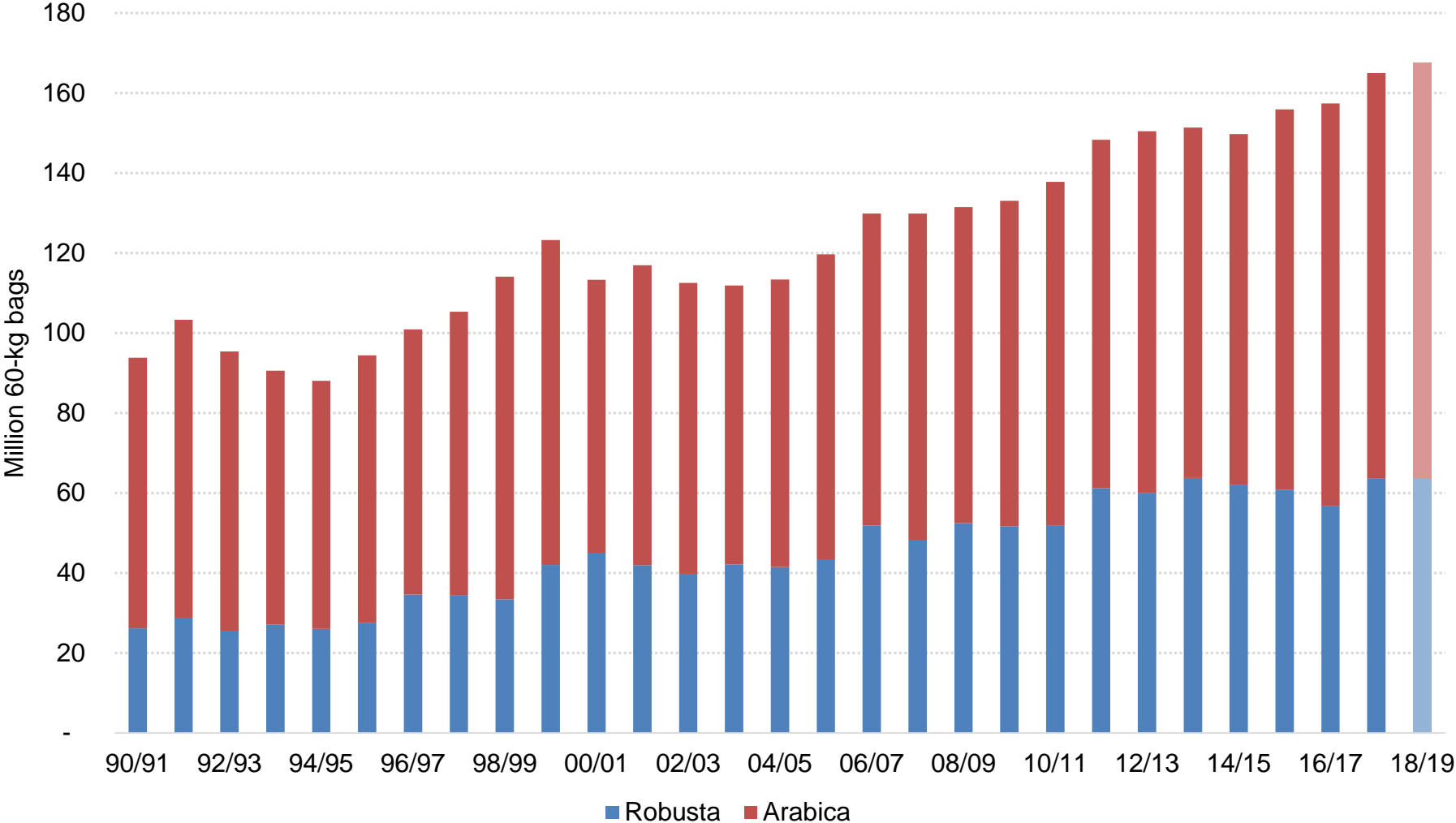
Review of the global  
coffee market  
situation



Supply

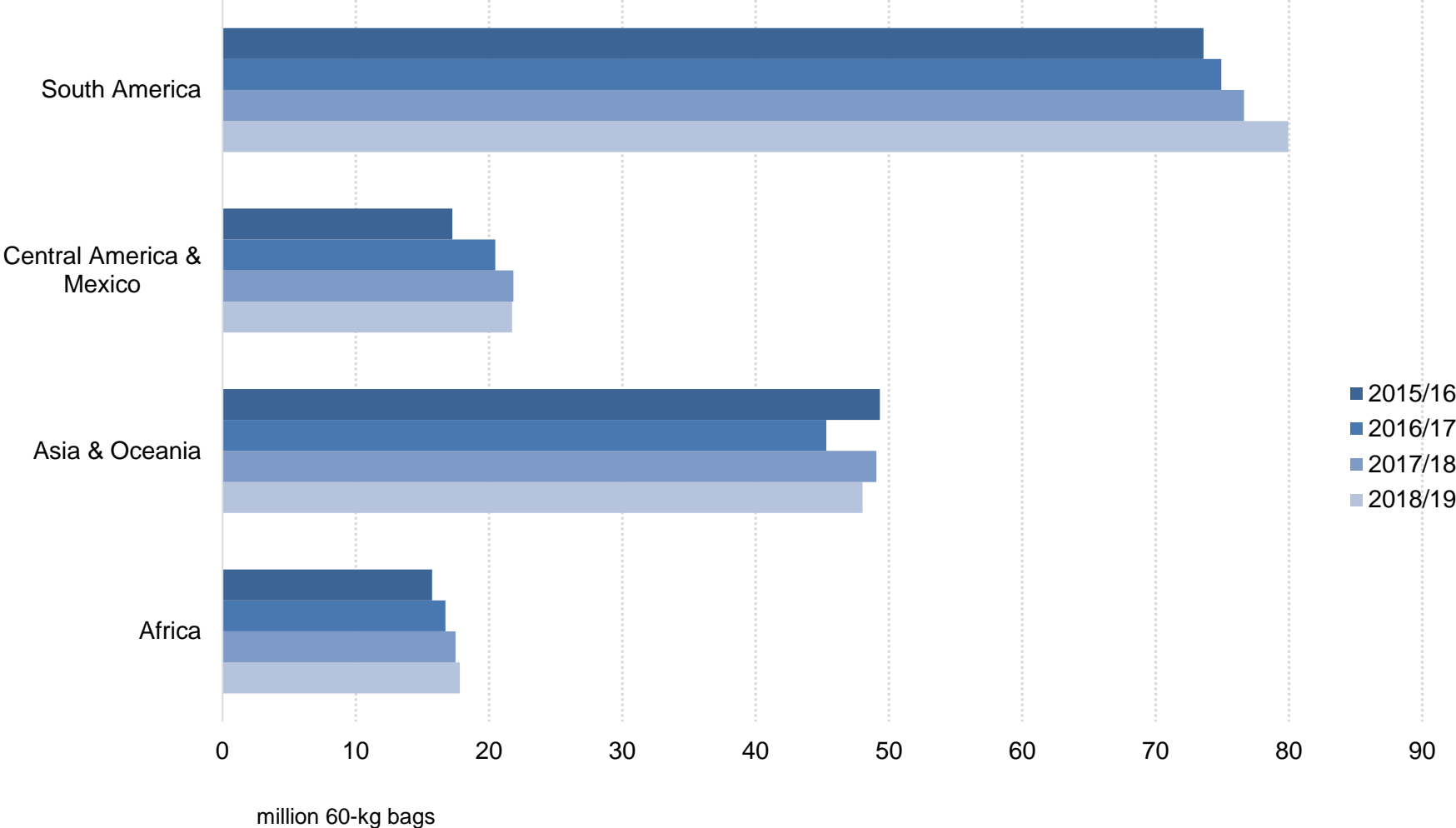
# COFFEE PRODUCTION BY TYPE

(coffee years 1990/91 to 2017/18)

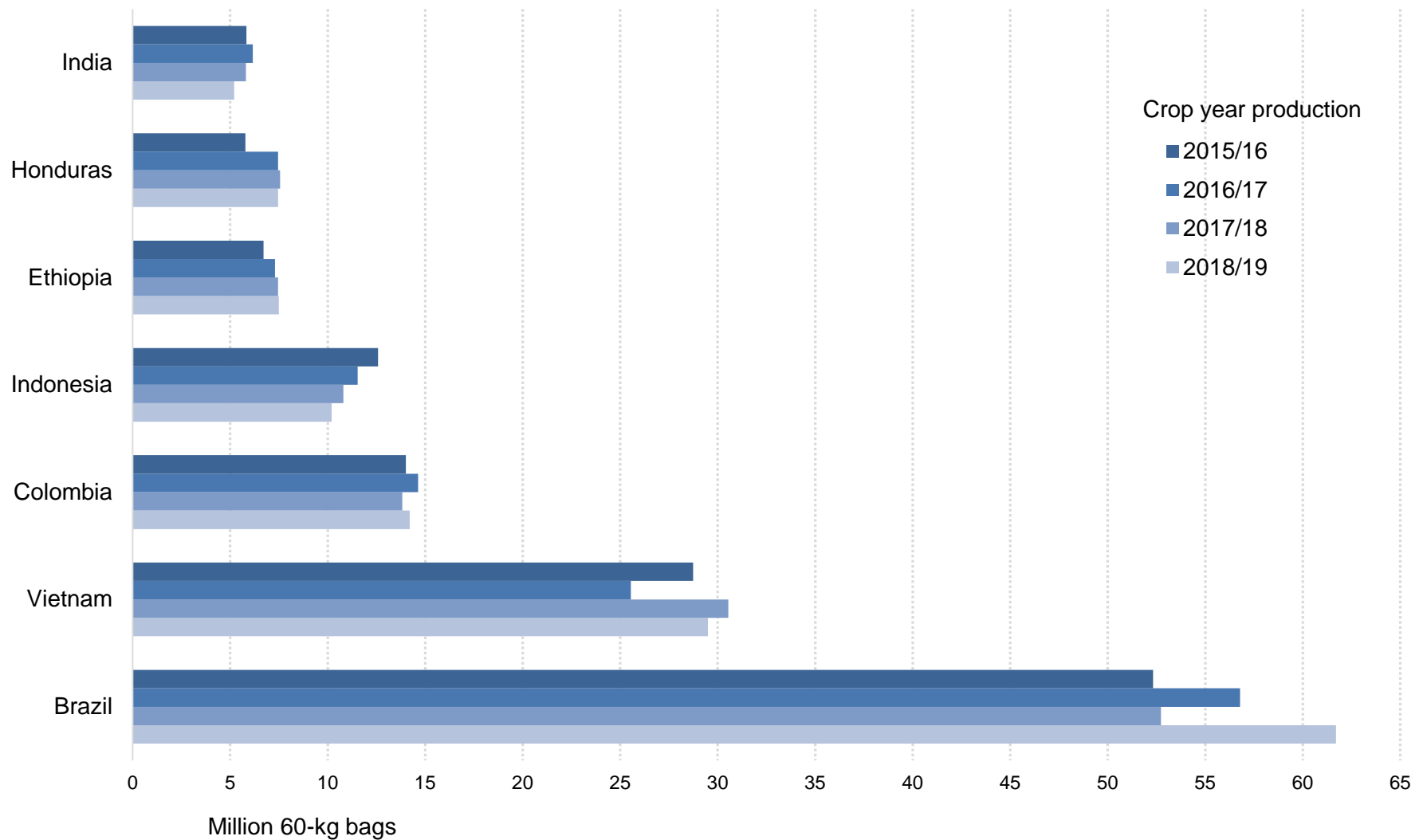




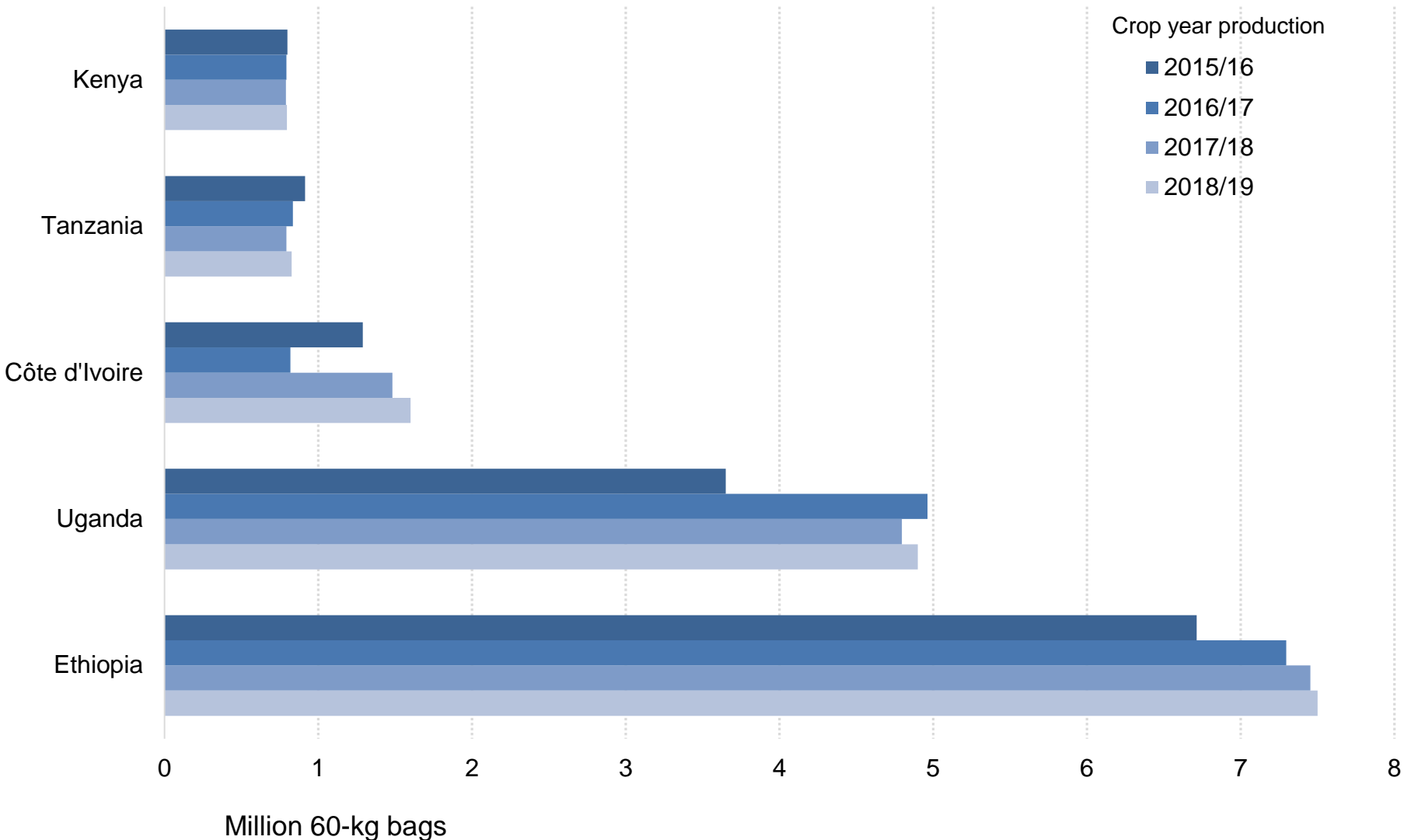
# Coffee production by region



# Production in the global top six



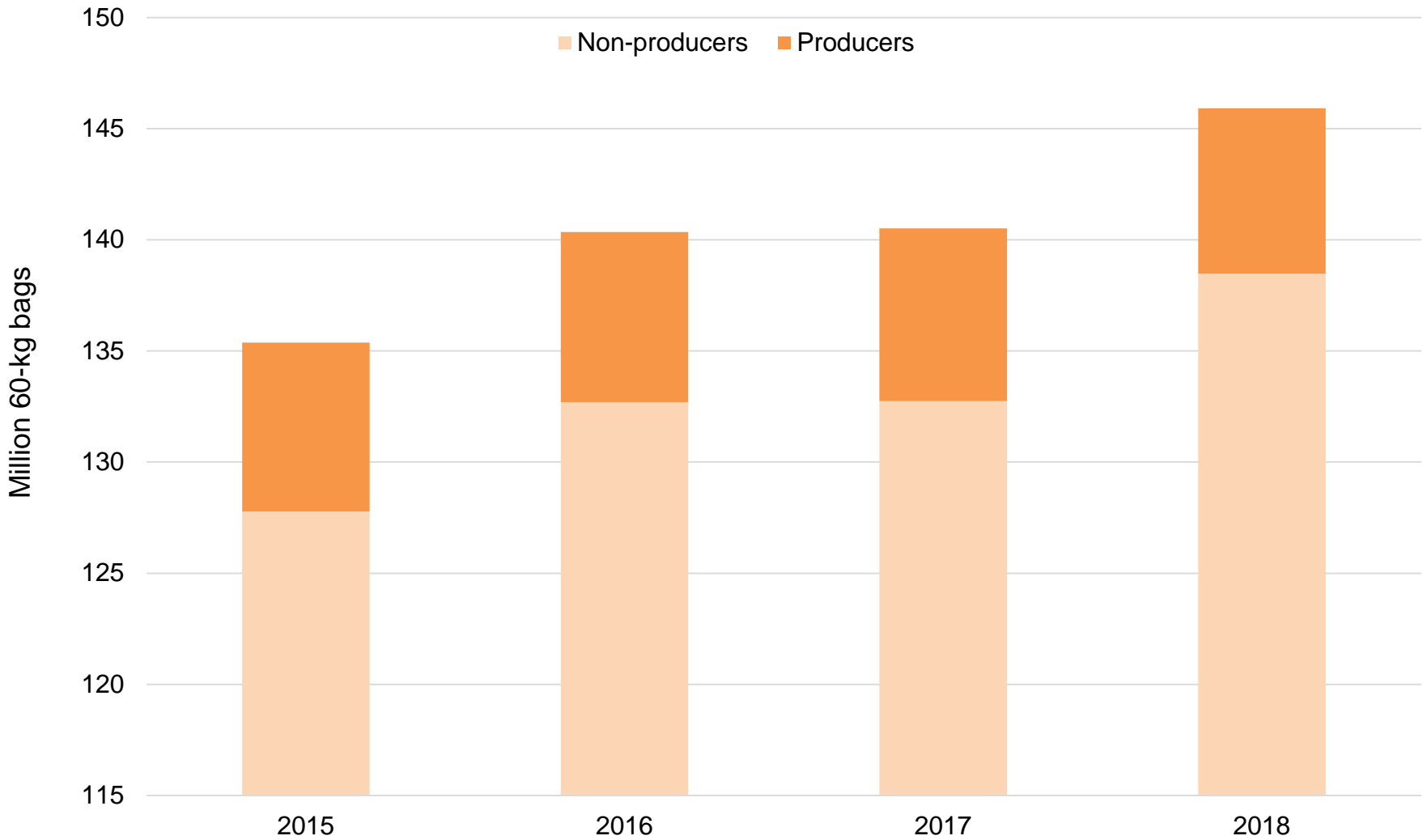
# Production Africa's top five



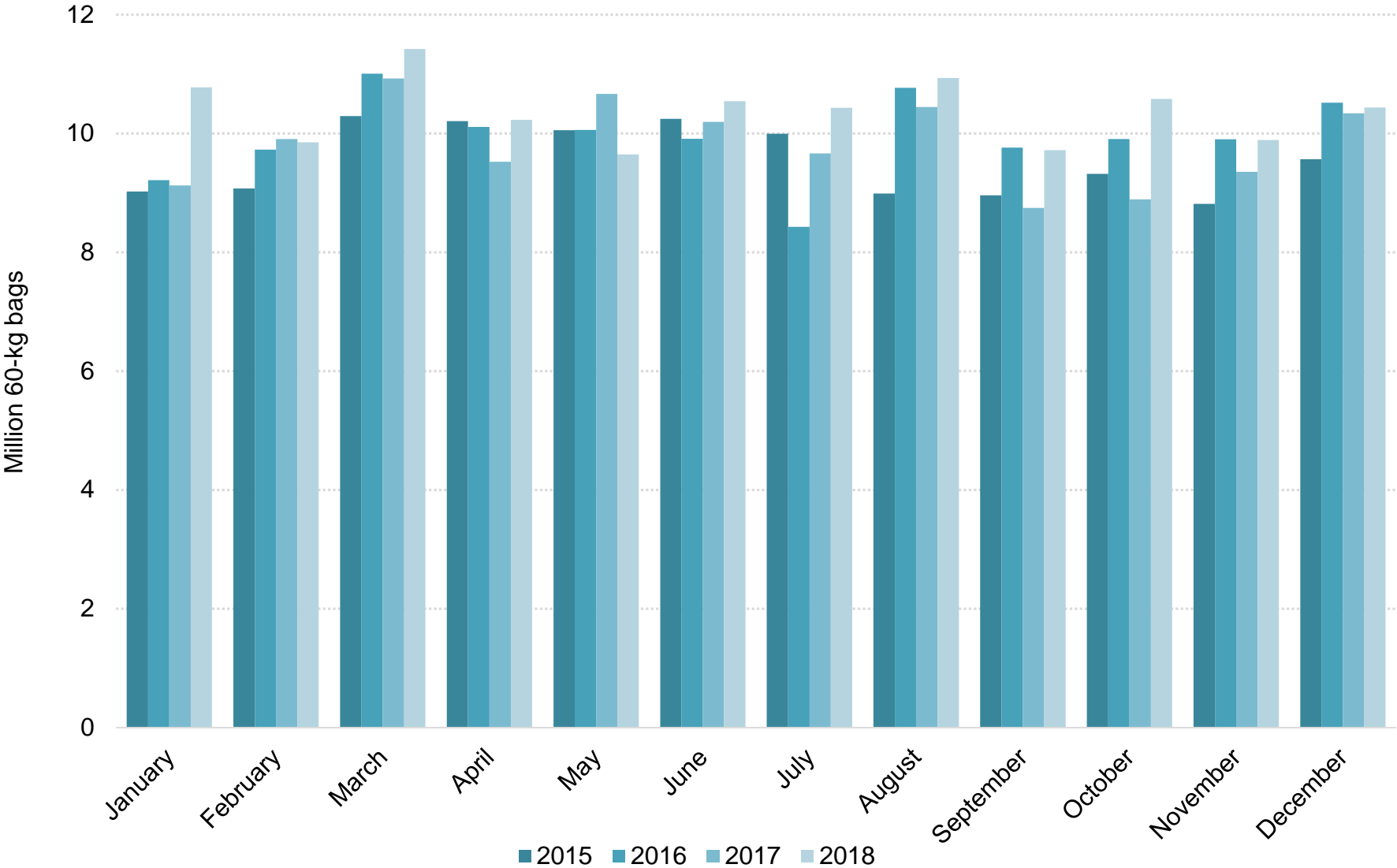


Trade

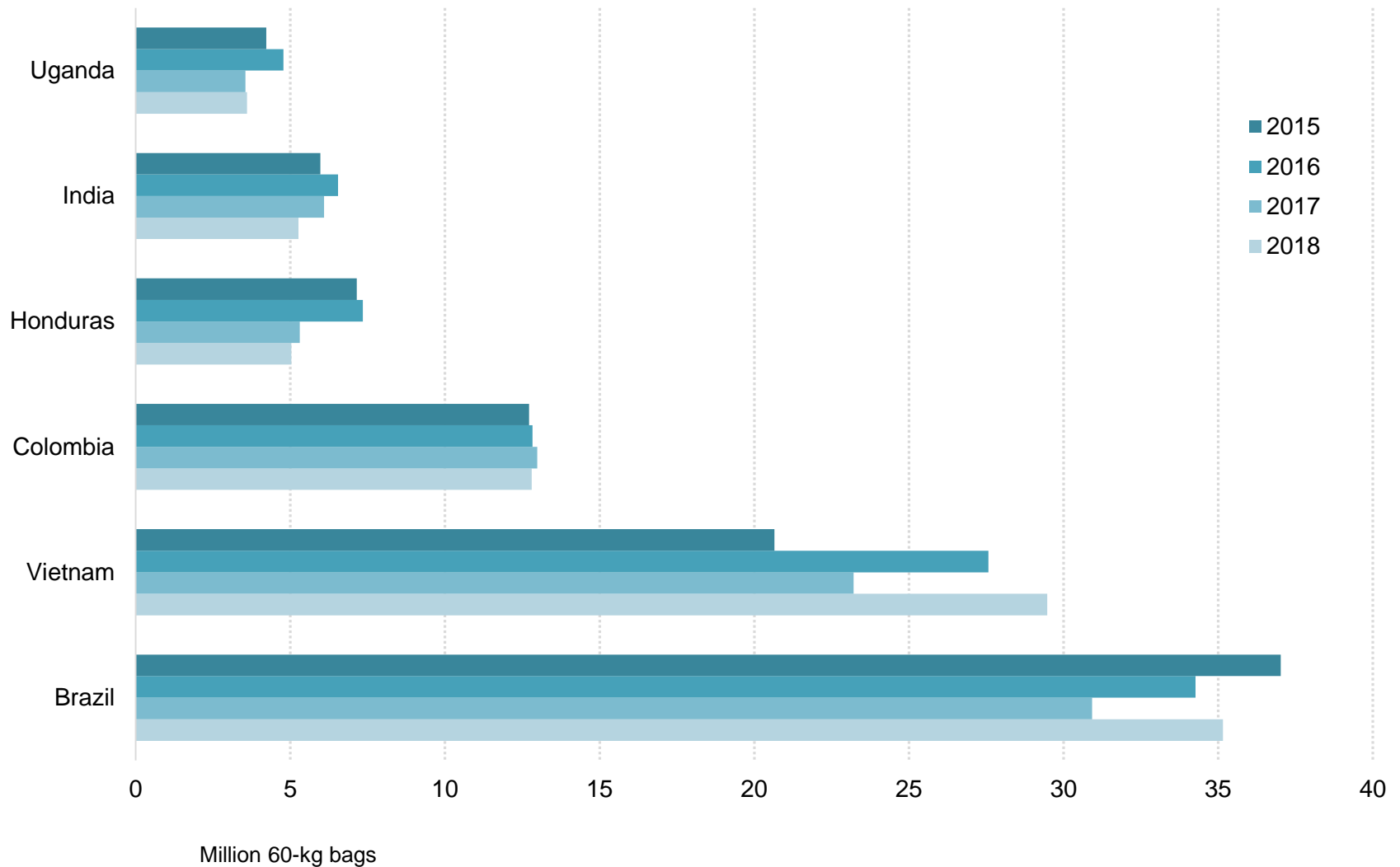
# Imports (January to October)



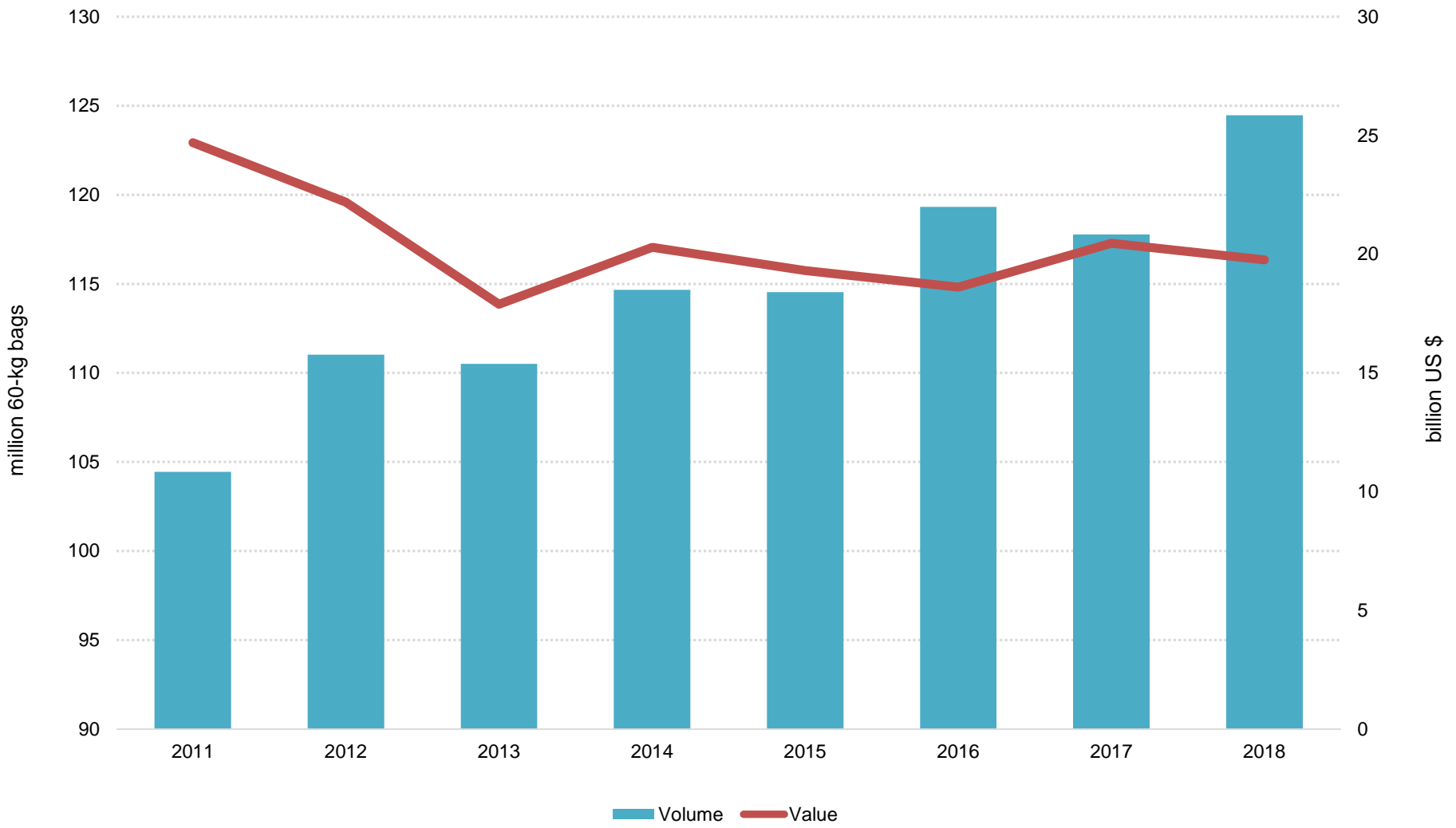
# GLOBAL MONTHLY EXPORTS OF ALL FORMS



# Total exports for January to December



# Annual export volume and value



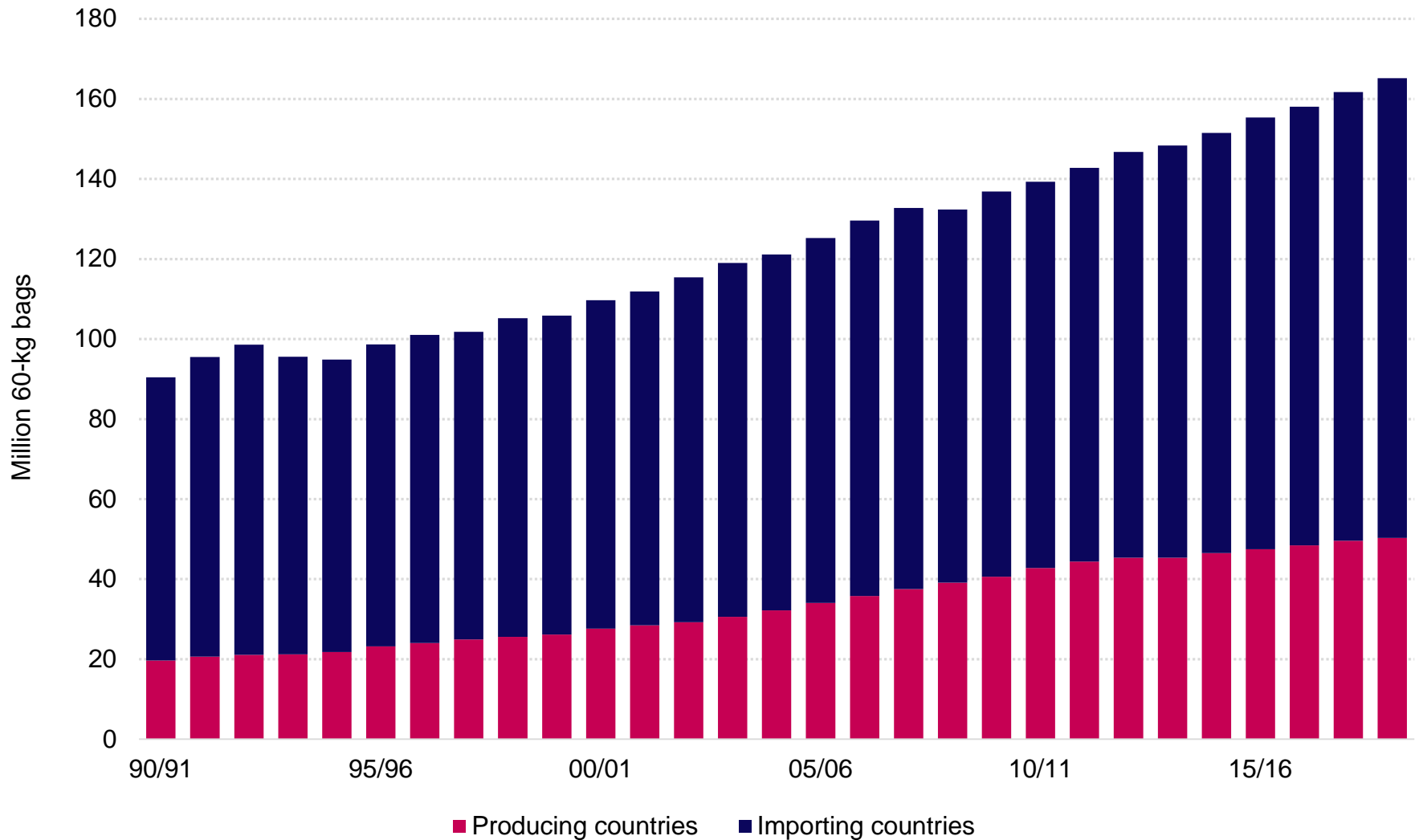




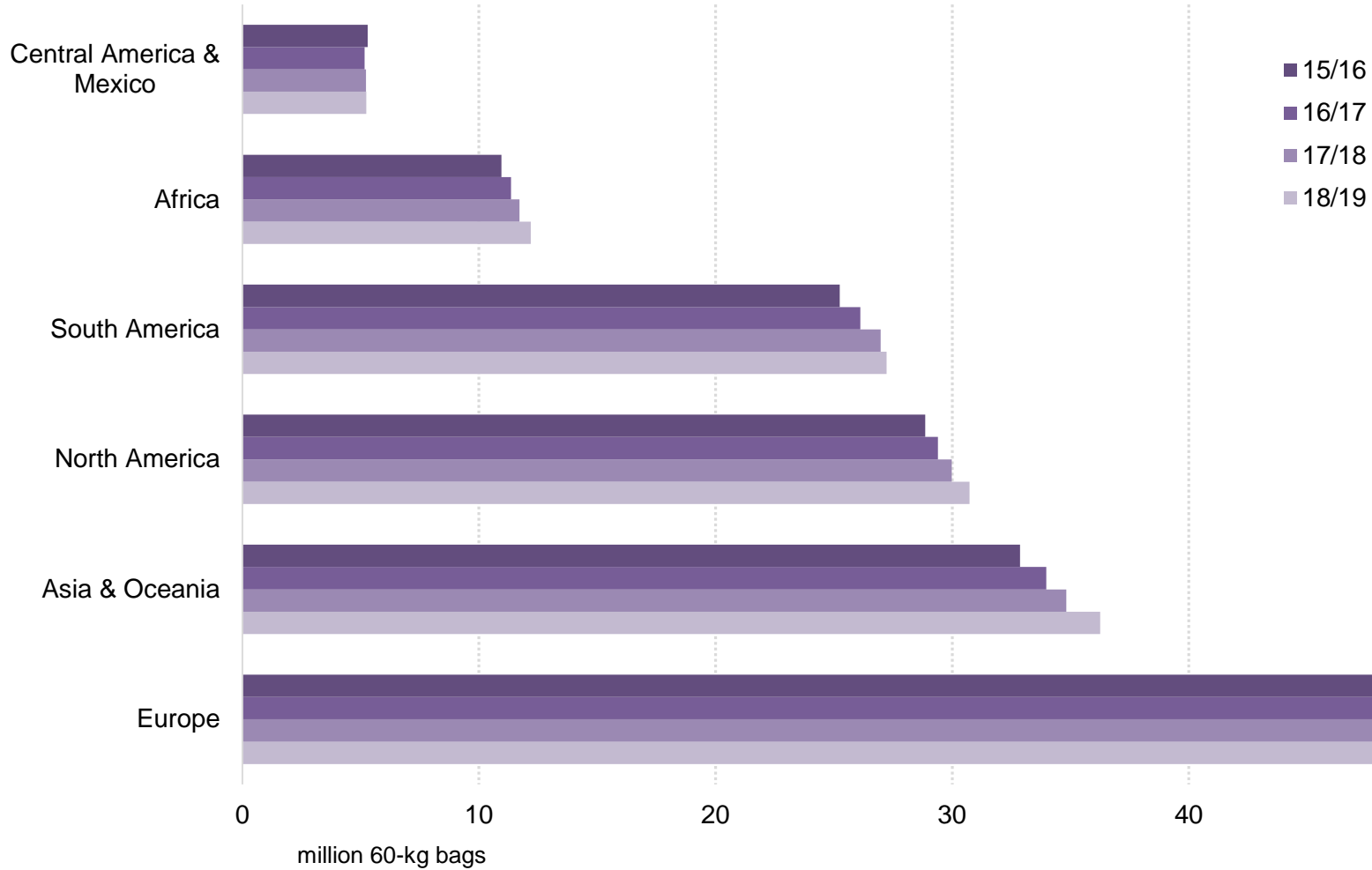
Consumption

# LOOKING AHEAD

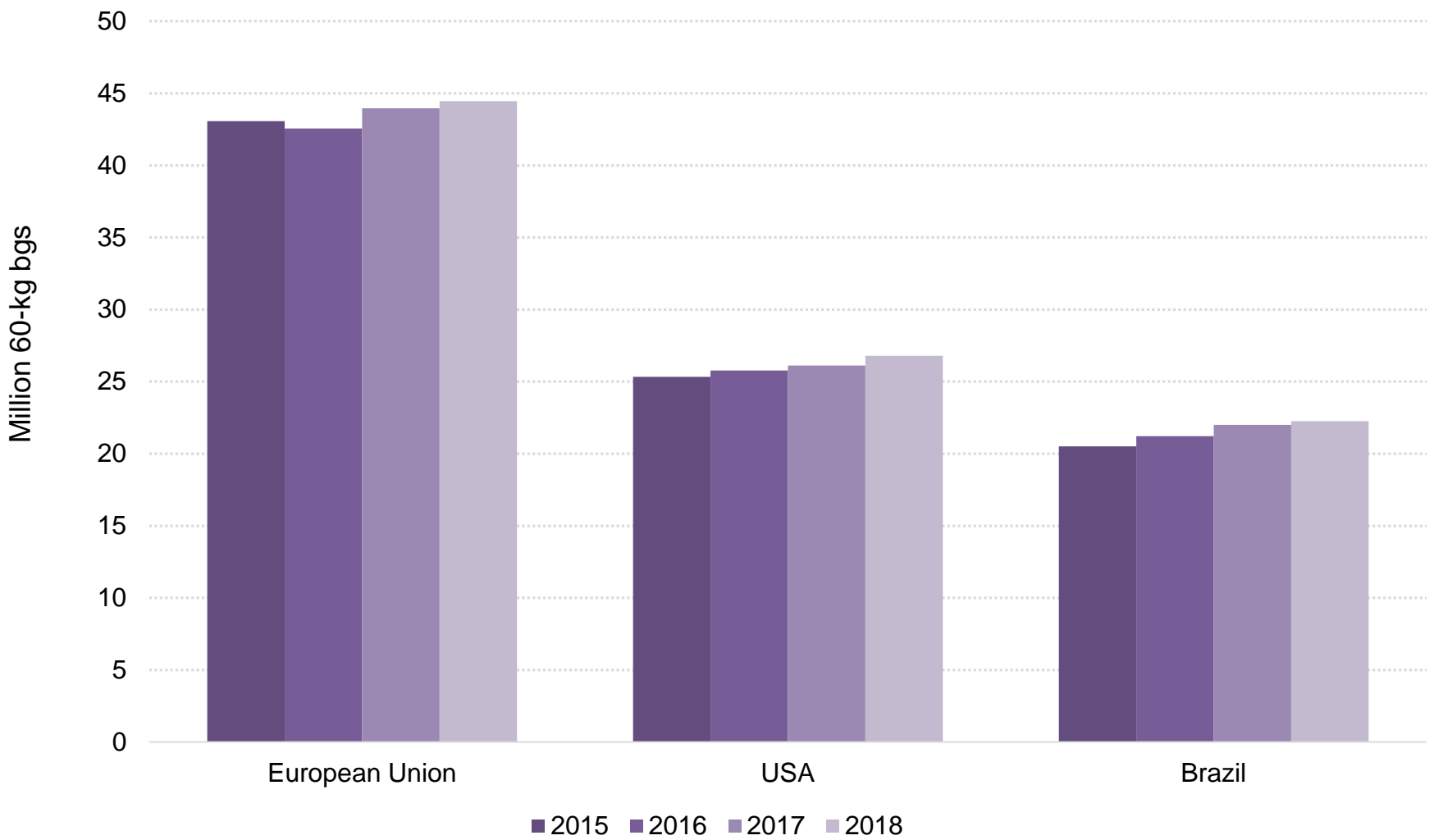
## GLOBAL COFFEE CONSUMPTION



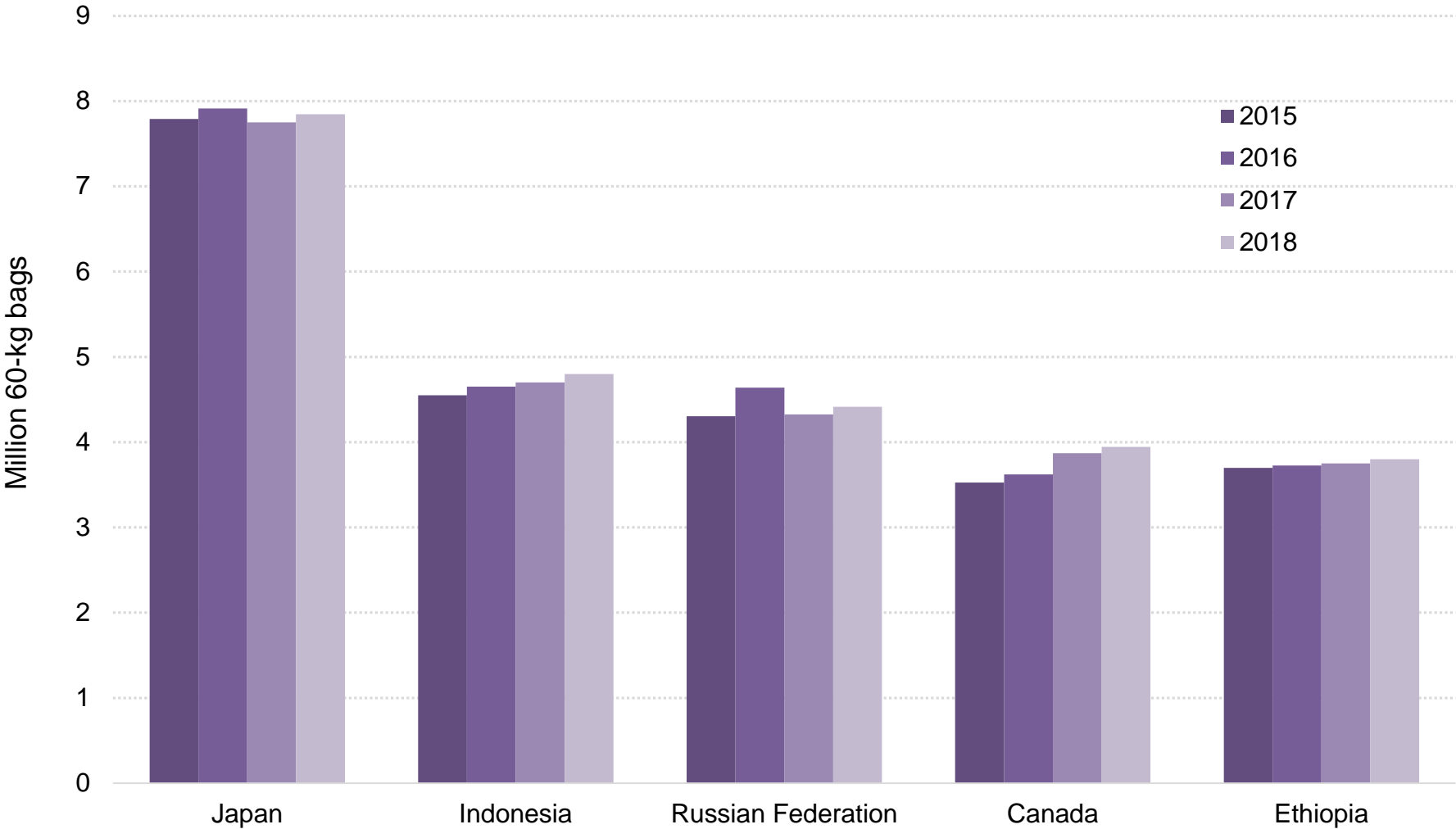
# Consumption by region



# Annual consumption in top 3



# Annual consumption

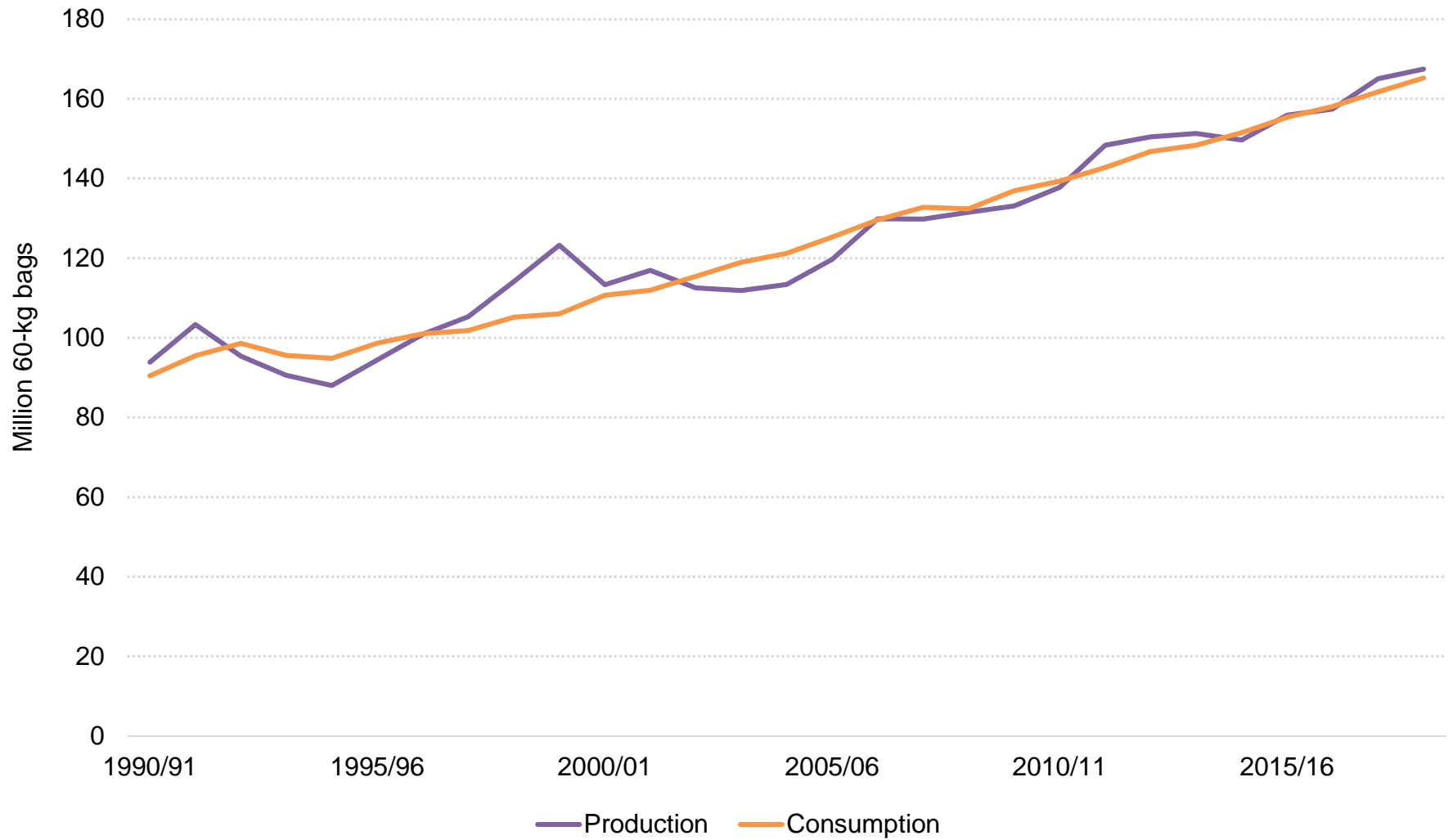




Prices

# COFFEE PRODUCTION AND CONSUMPTION

(coffee years 1990/91 to 2018/19)

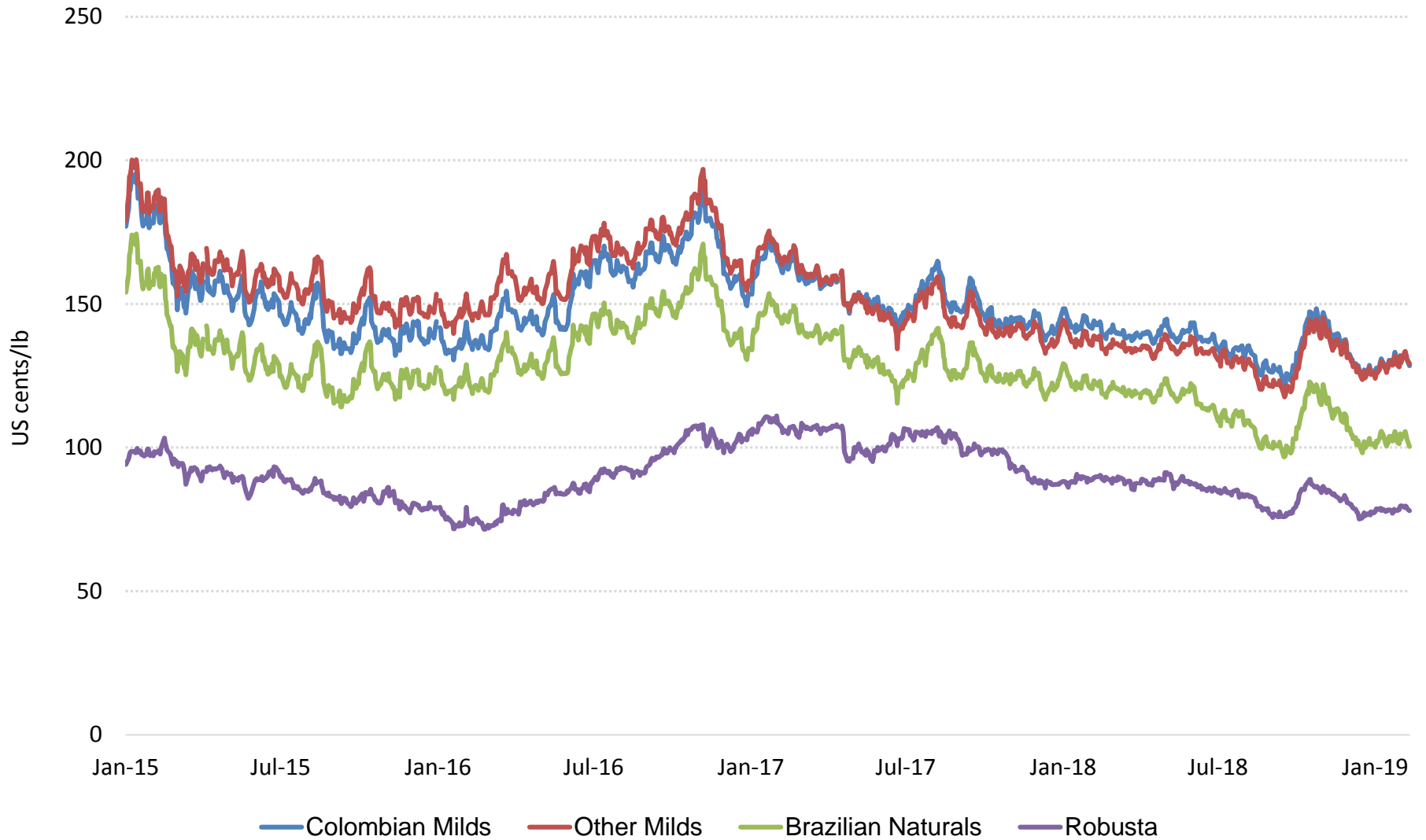


# DAILY COMPOSITE INDICATOR PRICE

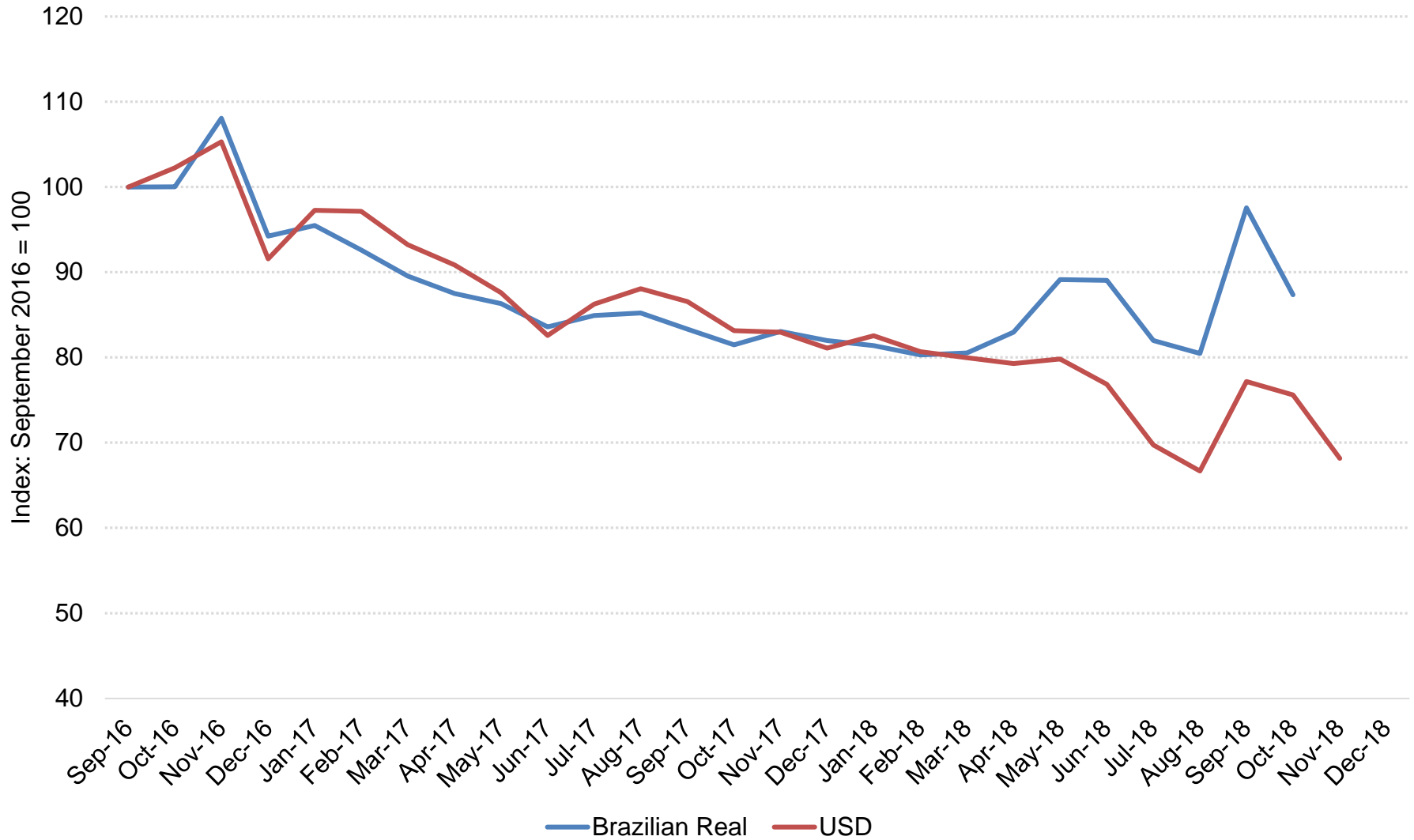




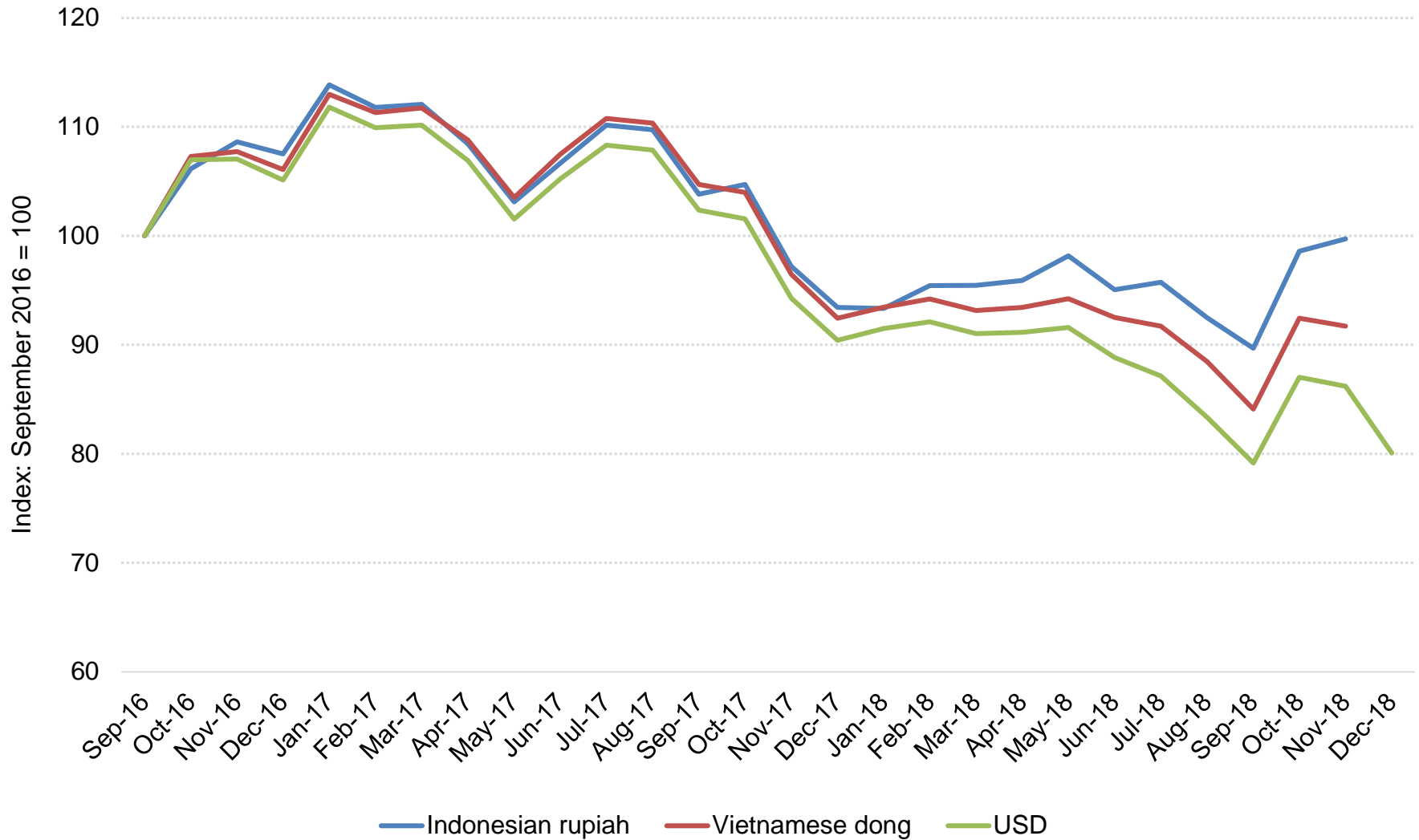
# GROUP INDICATOR PRICES



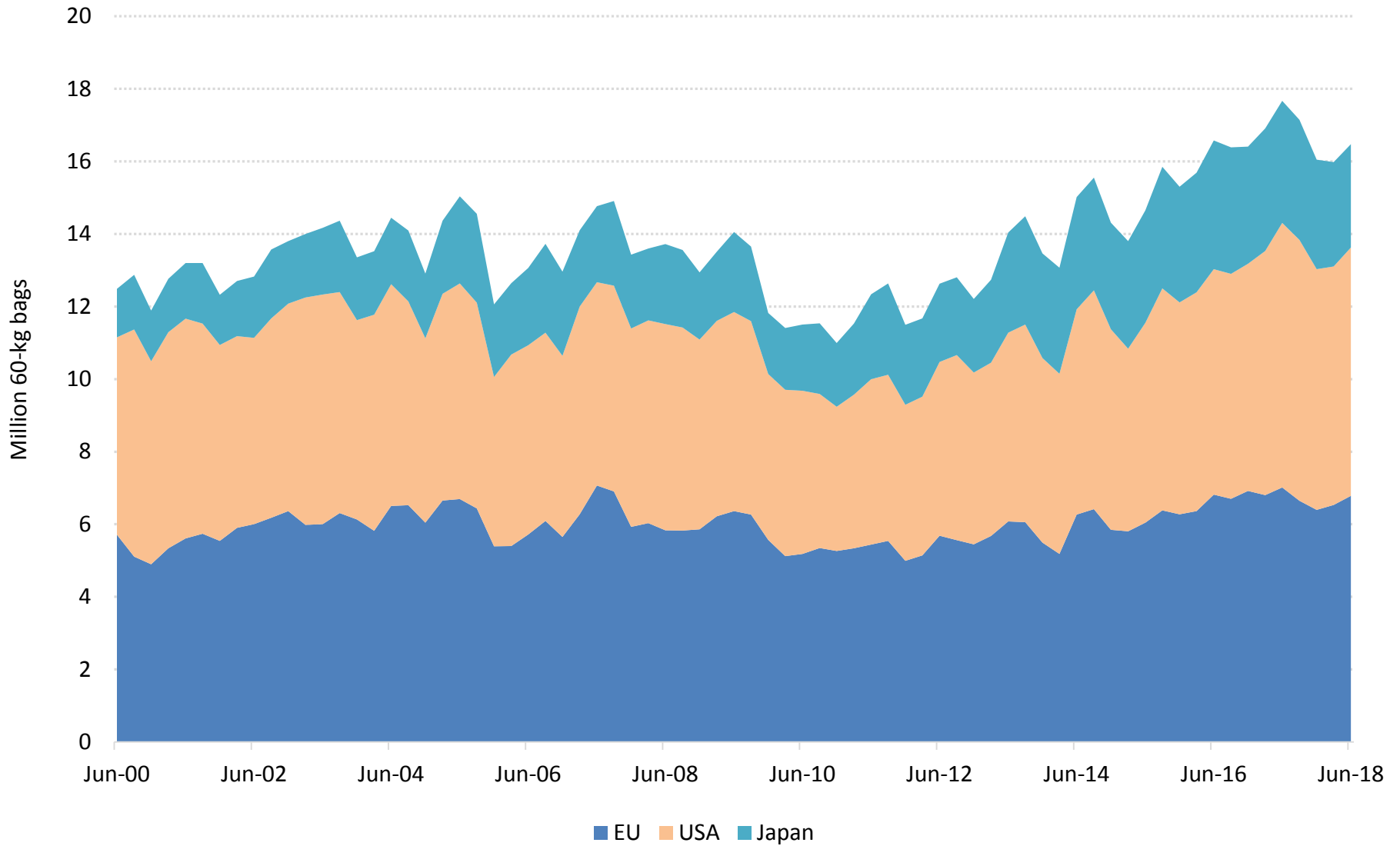
# Brazilian Natural Indicator Price



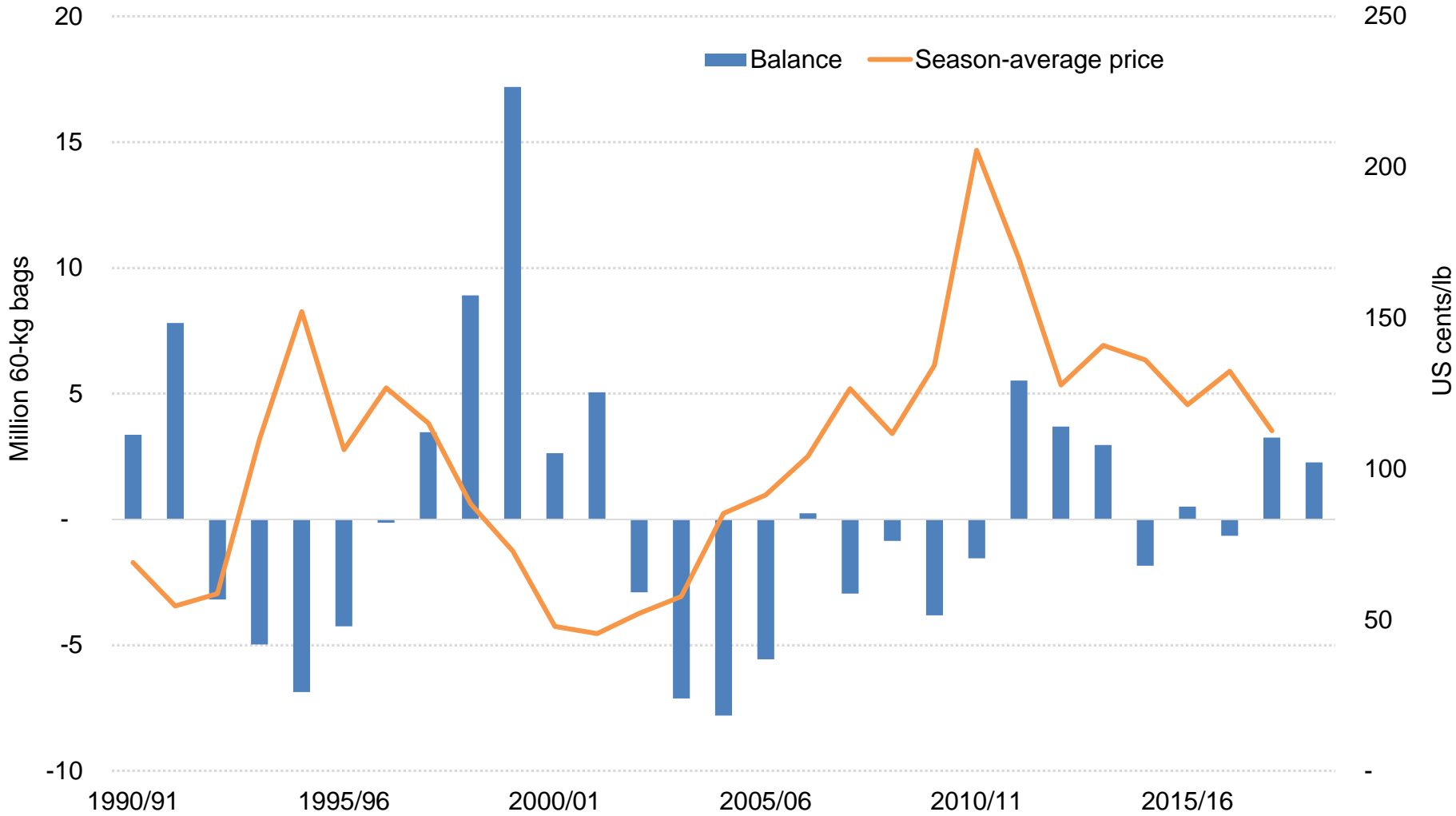
# Robusta Indicator Price



# INVENTORIES IN IMPORTING COUNTRIES



# COFFEE PRICES AND GLOBAL COFFEE BALANCE



5.

ICO statistical  
reporting  
requirements

# Reporting requirements according to the Rules on Statistics

## Exporting Members

### *Monthly*

1. Preliminary totals of monthly exports
2. **Report on exports**
3. **Report on imports**
4. **Certificates of Origin**
5. **Prices paid to growers**
6. Retail prices

### *Annual*

7. Opening stocks
8. **Production**
9. **Domestic consumption**
10. Crop percentage distribution
11. Area under coffee

## Importing Members

### *Monthly*

1. Imports
2. Re-exports
3. Retail prices

### *Annual/Quarterly*


4. Roastings
5. Inventories



# Item 5.1

## Certificates of Origin



1. Exporter/consignor (name/code)  <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<p style="text-align: center;">Certificate of Origin </p> <p style="text-align: center;">INTERNATIONAL COFFEE ORGANIZATION ORGANIZACIÓN INTERNACIONAL DEL CAFÉ ORGANIZAÇÃO INTERNACIONAL DO CAFÉ ORGANISATION INTERNATIONALE DU CAFÉ</p>	
2. Notify address	3. Internal reference No.	
	4a. Country code: <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	4b. Port of shipment code: <input type="checkbox"/> <input type="checkbox"/>
6. Country of destination (name/code)  <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	7. Date of export (DD/MM/YY)	
8. Country of trans-shipment (name/code)  <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	9. Name of carrier (name/code)  <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
10. ICO identification mark  ---/---/---  Other marks:	11. Shipped in: Bags <input type="checkbox"/> Bulk <input type="checkbox"/> Containers <input type="checkbox"/> Other <input type="checkbox"/>	
	12. Net weight of shipment	13. Unit of weight kg <input type="checkbox"/> lb <input type="checkbox"/>
14. Description of coffee (form/type, where relevant) Green Arabica <input type="checkbox"/> Green Robusta <input type="checkbox"/> Roasted <input type="checkbox"/> Soluble <input type="checkbox"/> Liquid <input type="checkbox"/> Other <input type="checkbox"/>		
15. Method of processing Decaffeinated <input type="checkbox"/> Organic: Certified <input type="checkbox"/> Uncertified <input type="checkbox"/> ----- Green coffee: Dry <input type="checkbox"/> Wet <input type="checkbox"/> Soluble coffee: Spray-dried <input type="checkbox"/> Freeze-dried <input type="checkbox"/>		
16. IT IS HEREBY CERTIFIED THAT THE COFFEE DESCRIBED ABOVE WAS PRODUCED/PROCESSED IN THE COUNTRY NAMED IN BOX 5 ABOVE AND HAS BEEN EXPORTED ON THE DATE SHOWN BELOW. THIS CERTIFICATE IS INTENDED SOLELY FOR THE STATISTICAL PURPOSES OF THE ICO AND DOES NOT CONFER ORIGIN ON COFFEE.  Date: Place:  Signature of authorized Customs Officer or Certifying Officer and Cachet of Customs Authority or Certifying Agency		
17. Other relevant information: ICC Resolution 420; Special characteristics; HS Code; Value of the shipment (Voluntary information)		
a. Quality standards for green coffee (ICC Resolution 420): "S": Full compliance with the target defect and moisture standards <input type="checkbox"/> "XD": Coffee does not conform to the target defect standard <input type="checkbox"/> "XM": Coffee does not conform to the target moisture standard <input type="checkbox"/> "XDM": Coffee does not conform to either standard (target defect and moisture) <input type="checkbox"/>		
b. Special characteristics (please specify name or code):		
c. Harmonized System (HS) code: HS Code: <input type="text"/>	d. Value (FOB) of the shipment: ----- <input type="checkbox"/> National currency <input type="checkbox"/> US dollars <input type="checkbox"/> Euros	
e. Additional information		

<http://www.ico.org/documents/cy2017-18/icc-102-9-r1e-rules-certificates-origin-final.pdf>

Annex II (page 13)



## CERTIFICATES OF ORIGIN

[MONTH/YEAR]

Coffee year	Country of Origin	Port of Origin	Serial Number	Net weight	Unit of weight	Date of customs (DD/MM/YY)	Country of destination (name or code)	Form of coffee	Type of coffee	Method of processing	Mode of shipment	Additional information	Quality (Res. 420)	Special characteristics	Harmonised System code	Value national currency ( ) US\$ ( ) € ( )



# Certificates of Origin-part 1

Coffee Year	Country of Origin	Port of Origin	Serial
2018	028	15	44
2018	028	15	46
2018	028	15	47
2018	028	15	48
2018	028	15	49



# Certificates of Origin-part 2

Net weight	Unit of Weight	Date	Country of destination
19200	kg	05/10/2025	44
20500	kg	05/10/2025	46
17500	kg	12/10/2025	47
19200	kg	14/10/2025	48
7500	kg	23/10/2025	49



# Green coffee combinations

## Form

- Green (G)

## Type

- Arabica (A)
- Robusta (R)

## Process

- Wet (W)
- Dry (D)

## Additional information

- Decaffeinated (D)
- Organic (O)
- NA



# Green coffee combinations

Form

- Roasted (R)

Type

- NA

Process

- NA

Additional  
information

- Decaffeinated
- Organic
- NA



# Roasted coffee combinations

Form

- Soluble (S)

Type

- NA

Process

- Spray-dried (SD)
- Freeze-dried (FD)
- Preparation (P)

Additional  
information

- Decaffeinated
- Organic
- NA



# Certificates of Origin-part 3

Form	Type	Method of processing	Additional information
G	A	W	
G	A	W	O
G	A	W	
R			D
S		SD	



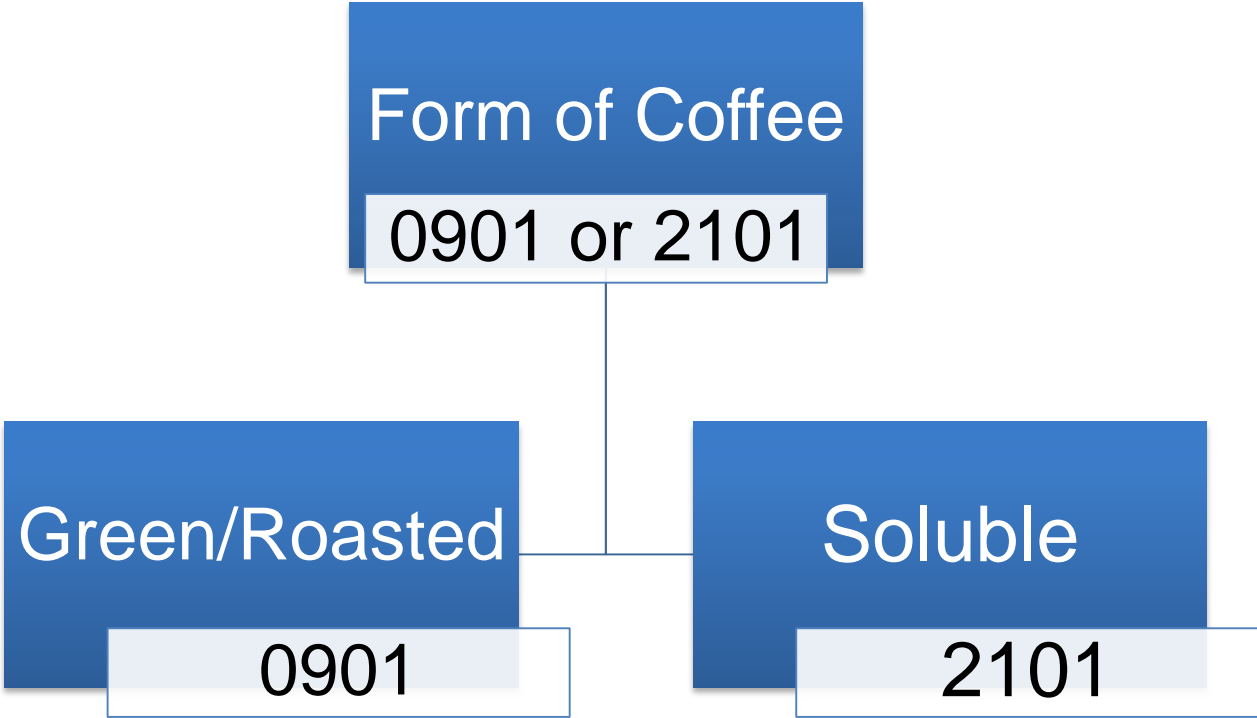


# Certificates of Origin-part 4

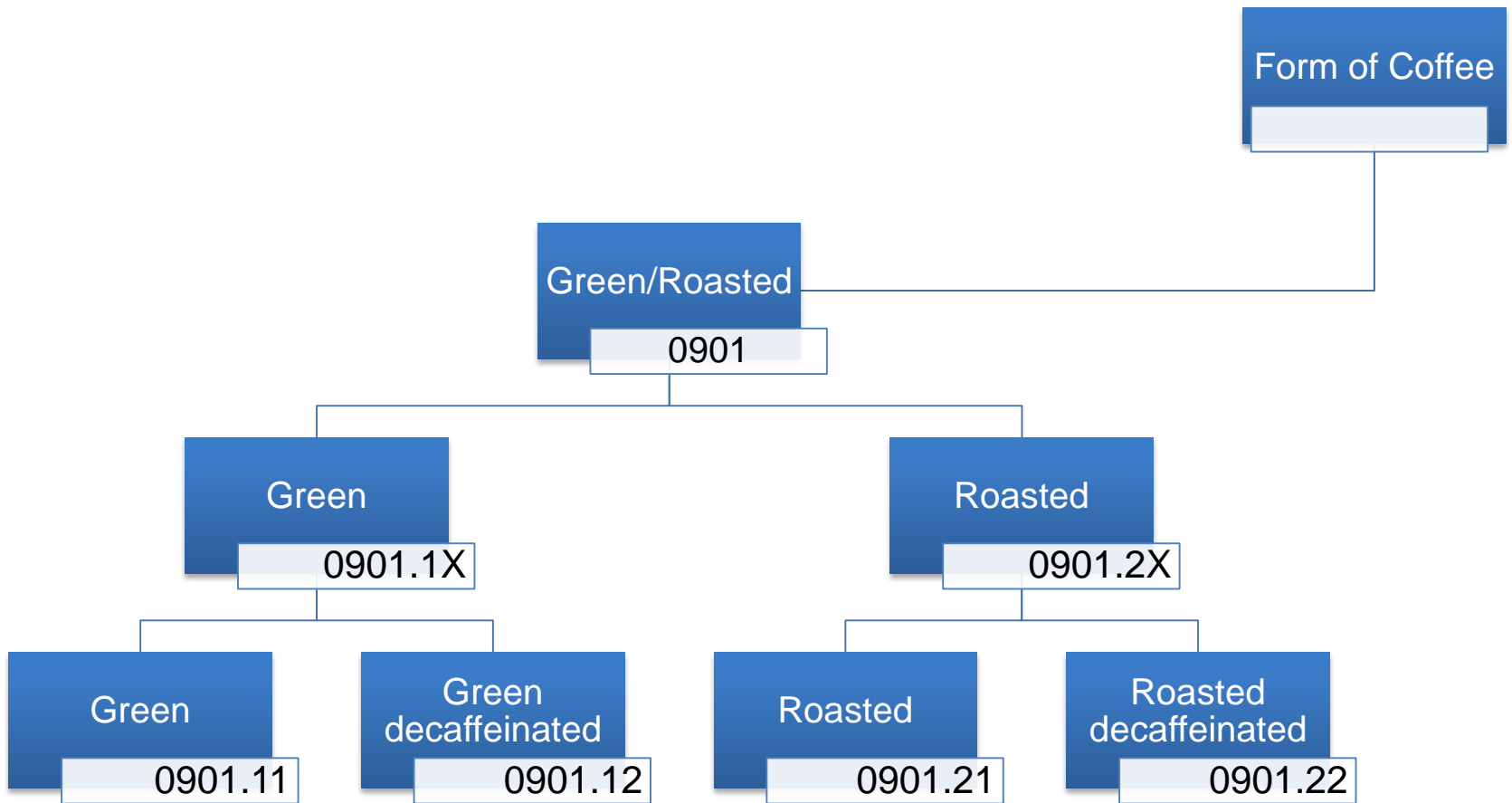
Quality (Res. 420)	Special Characteristics	Harmonised System Code	Value (currency US D)
S	fairtrade	090111	123 456
XD	gourmet	090111	123 456
XM	4C	090111	123 456
XDM	Rainforest/Utz	090122	123 456
UNSP		210111	123 456



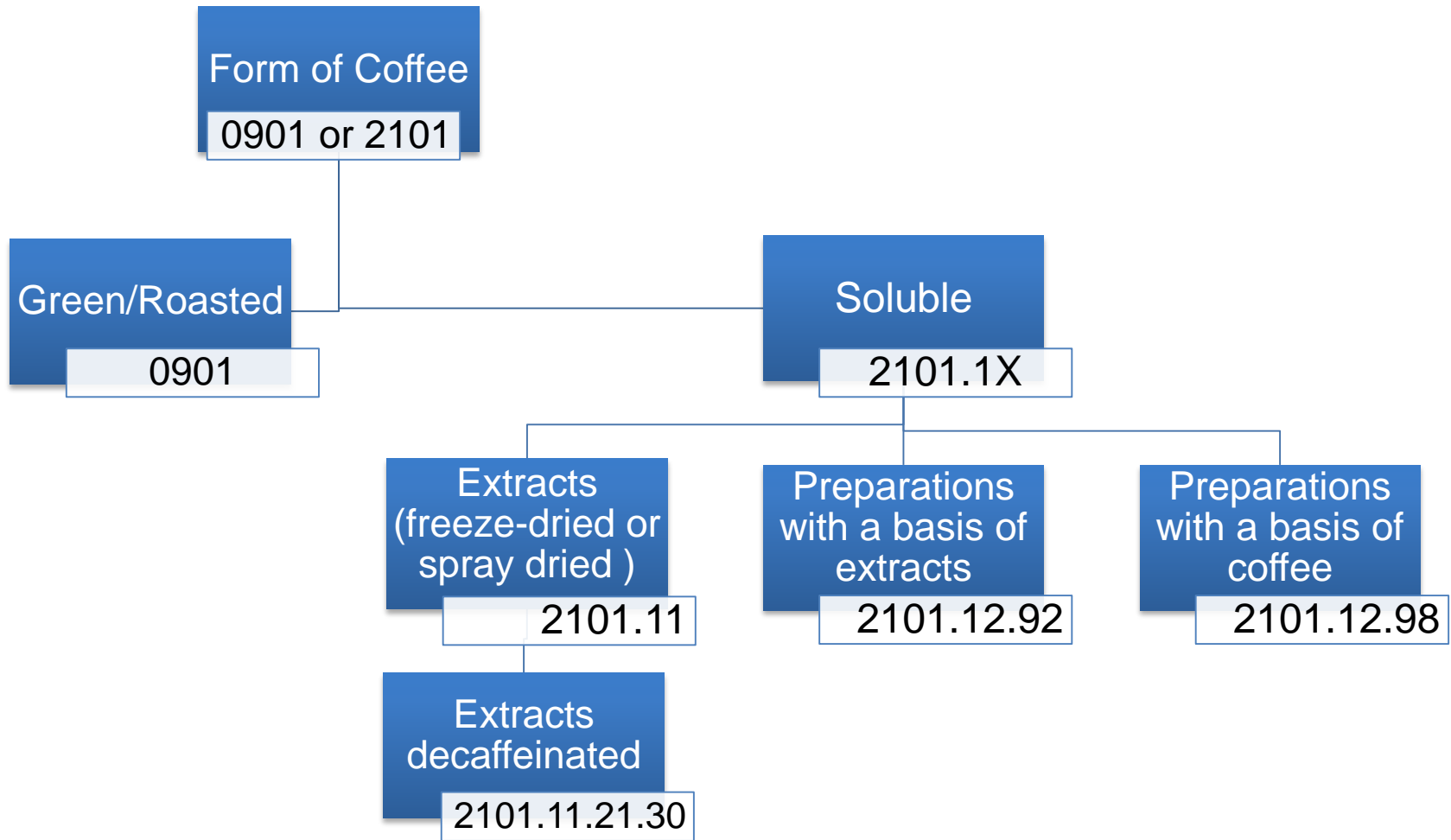
# Coffee and HS Codes



# HS Codes: Green and Roasted



# HS Codes: Soluble



# Item 5.2

## Statistical Reports

## MONTHLY REPORT: EXPORTS BY DESTINATION

Statistical Information to be sent by email or by fax:

**Month/year:**

Country of destination 1/ Code    Name		Volume (net weight)	Unit of weight	Form of coffee (G/R/S)	Type of coffee 2/ (A/R)	Method of processing 3/	Value 4/		Harmonised System Code 5/	Other relevant information
							National currency	US\$ or €		

1/ Either name and/or ICO, EU or ISO code (please specify)

2/ Green coffee only

3/ Dry (D) or Wet (W) for green coffee; Spray-dried (SD) or Freeze-dried (FD) for soluble coffee

4/ In national currency and/or in either US\$ or €uro (please indicate)

5/ Optional

Other relevant information: decaffeinated (D) or organic (O)



## MONTHLY REPORT: IMPORTS BY ORIGIN

Statistical Information to be sent by email or by fax:

**Month/year:**

HS code	Country of origin 1/		Unit of weight	Volume (net weight)	Value 2/	
	Code	Name			National currency	US\$ or €

- 1/ Either name and/or ICO, EU or ISO code (please specify)  
 2/ In national currency and/or in either US\$ or €uro (please indicate)

**SUMMARY (if available)**

	HS code	Volume	Value
Green coffee:	090111		
	090112		
Roasted coffee:	090121		
	090122		
Soluble coffee:	210111		
	21011292		
	21011298		



QUARTERLY AND ANNUAL REPORTS: PRODUCTION ESTIMATE; CROP DISTRIBUTION; GROSS CLOSING STOCKS; AND AREA UNDER COFFEE

I. Quarterly information: production estimate

Preliminary estimate for crop year ____/____			
Total production	Domestic consumption	Exportable production	Unit of weight
			000 bags ( ) metric ton ( )
( ) % Arabica	( ) % Arabica		
( ) % Robusta	( ) % Robusta		

II. Annual information

a. Percentage distribution of crop by quarter

1st quarter	2nd quarter	3rd quarter	4th quarter
%	%	%	%

b. Annual data: Gross closing stocks at the end of the crop year:

Estimated gross closing stocks on the last day of the crop year ( 31 March/30 June/30 September)				
	Arabica coffee	Robusta coffee	000 bags ( )	metric ton ( )
<b>Total stocks held:</b> 1/ (a) + (b)			1/ Stocks held by roasters, exporters, central marketing and regulating organizations and cooperatives	
<b>a. Stocks of green coffee</b>			2/ Stocks held by the Government or government controlled agencies/bodies	
i. Public 2/ ii. Private				
<b>b. Stocks of processed coffee 3/</b>			3/ in Green Bean Equivalent: the following conversion factors: 1.19 for roasted coffee and 2.6 for soluble coffee, to be applied	
i. Public 2/ ii. Private				

c. Area under coffee

Region/State	Coffee trees			
	New trees		Trees in production	
	Area (ha)	Trees (000 trees)	Area (ha)	Trees (000 trees)
<b>Total</b>				





**REPORT ON PROVISIONAL EXPORTS,  
PRICES TO GROWERS AND RETAIL/WHOLESALE PRICES**

Statistical information to be sent by email

I. Information to be transmitted within 30 days after the close of the month:

<b>b. Average price paid to growers* in the previous month:</b>		

\* In national currency per unit purchased (please specify)

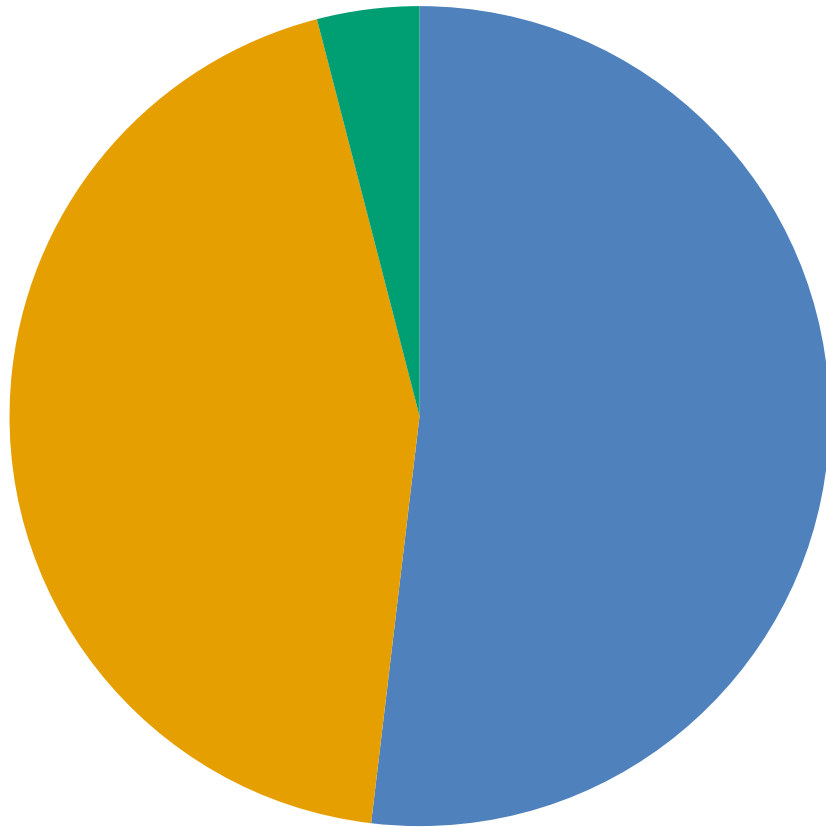
<b>c. Retail/wholesale prices (where available)</b>		
<b>c.1. Roasted coffee</b>		
<b>Month/year</b>		
<b>c.2. Soluble coffee</b>		
<b>Month/year</b>		





Item 5.3  
Compliance  
with Rules on  
Statistics

# Summary Strict Compliance



- Good
- Partial (score <30)
- Non-compliance

- Exporting Members account for 98% of world coffee exports
- Compliance for 2016/17
- Information provided:
  - Monthly export & certificate of origin data (36)
  - Monthly prices paid to growers (12)
  - Annual stocks, production and consumption (3)
  - New information included in ICA 2007(4)



# Compliance with additional information included in ICA 2007



# New compliance indicators

- Compliance would be measured on a scale from 0 to 100 with 100 indicating full compliance.
- The following indicators would be published in an annual Compliance Report for the most recently completed coffee year:
  - Total for both importing and exporting Members
  - Total for all exporting Members
  - Total for all importing Members
  - Individual score for each Member

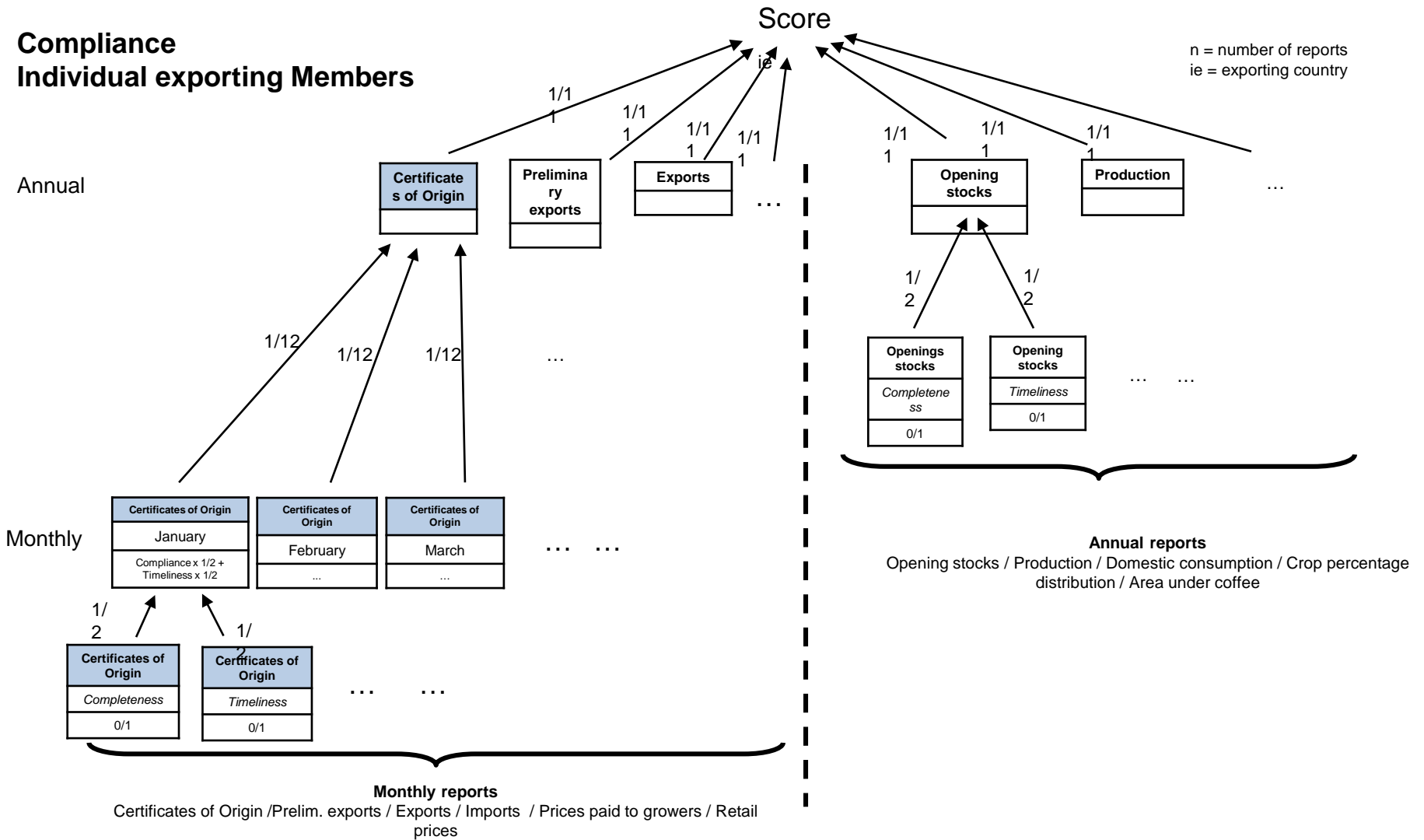


# Basic dimensions of compliance for indicator

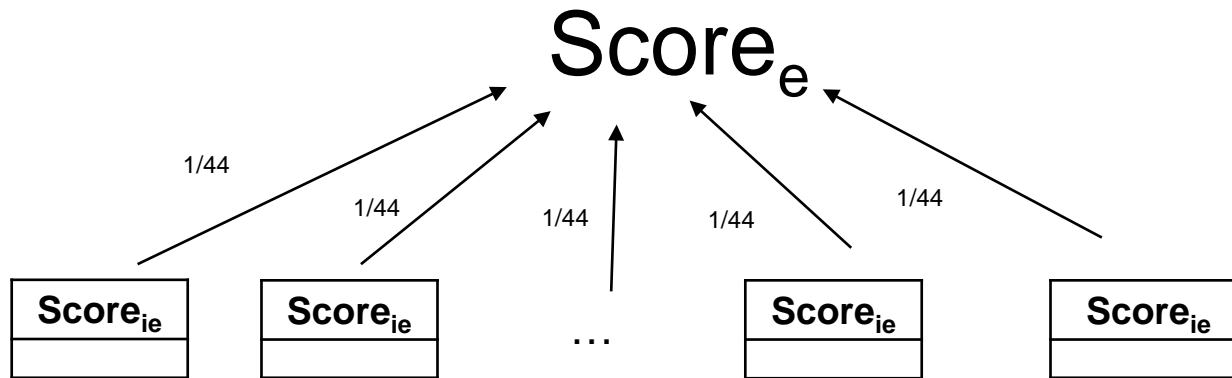
1. Timeliness: Are reports submitted on time?
  - On time = 1
  - Late submission = 0
  
2. Completeness: Are individual reports provided?
  - Report provided = 1
  - Report not provided = 0



# Compliance Individual exporting Members



## Compliance Group of exporting Members



$$Score_e = \frac{\sum_i^n Score_{ie}}{n}$$

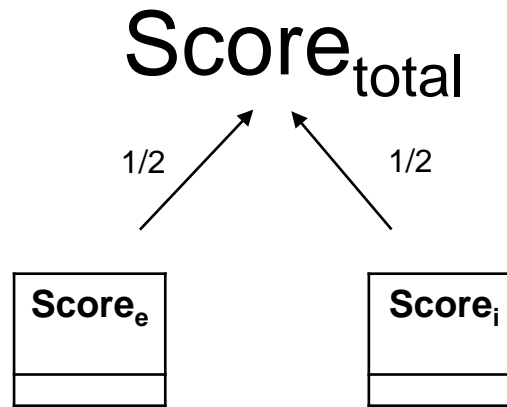
n = number of exporting Members  
ie = Exporting country





**Compliance**  
**Aggregated for all ICO Members**

$$Score_{total} = \frac{Score_e + Score_i}{2}$$





# INTERNATIONAL COFFEE ORGANIZATION

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