

# U.S. Instrument For Measuring And Testing Electricity And Electrical Signals Market. Analysis And Forecast to 2025





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# 1. INTRODUCTION

## 1.1 REPORT DESCRIPTION

The report provides on a detailed analysis of the U.S. measuring instrument market. It displays the latest data of the market size and volume, domestic production, exports and imports, price dynamics and turnover in the industry. In addition, the report contains insightful information about the industry, including industry life cycle, business locations, productivity, employment and many other crucial aspects. The Company Profiles section contains existing data on the major players in the industry.

Countries coverage: the U.S.

Product coverage:

Electrical integrating instruments; Test equipment for testing electrical, radio, and communication circuits, and motors (excluding portable instrument transformers); Other instruments to measure electricity

Companies mentioned:

Agilent Technologies,

Teradyne,

Tektronix,

Bae Systems National Security Solutions,

Hid Global Corporation,

Anritsu Company,

Analogic Corporation,

Teledyne Lecroy,

Cascade Microtech,

Xcerra Corporation,

Bourns,

Milbank Manufacturing Co.,

Curtis Instruments,

Ideal Industries,

Radisy Corporation,

Doble Engineering Company,

Exfo America Inc.,

Astronics Advanced Electronic Systems Corp.,

Keyence Corporation of America,

Qorvo, Keysight Technologies,

Cohu,

Lac Du Flambeau Band of Lake Superior Chippewa Indians (inc),

Lumileds, Ixia,

Landis+gyr,

Gould Electronics,

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Jdsu Acterna Holdings,  
Genrad,  
Itron Electricity Metering,  
Fluke Electronics Corporation,  
Anritsu U.S. Holding

## Data coverage:

- Measuring instrument market size;
- Measuring instrument production, value of shipments;
- Key market players and their profiles;
- Exports, imports and trade balance;
- Import and export prices;
- Forecast of the market dynamics in the medium term;
- Key industry statistics;
- Life cycle of the measuring instrument industry;
- Number of establishments and their locations;
- Employment data;
- Measuring instrument industry productivity.

## Reasons to buy this report:

- Take advantage of the latest data;
- Find deeper insights into current market developments;
- Discover vital success factors affecting the market.

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## 2. EXECUTIVE SUMMARY

### 2.1 KEY FINDINGS

Table 1: Key Findings

Key findings in 2016

Market Value	million USD	***
	% to 2016	***
Production	million USD	***
	% to 2016	***
Imports	tonnes	***
	% to 2016	***
	million USD	***
	% to 2016	***
Exports	tonnes	***
	% to 2016	***
	million USD	***
	% to 2016	***

### 2.2 MARKET TRENDS

In 2015, the value of measuring instrument production in the U.S. amounted to \$10.5B, lowering by -6.7% against the previous year level. Overall, the U.S. measuring instrument output pursued a measured growth from 2007 to 2015. The total output figures increased at an average annual rate of +0.5%. The trend pattern, however, indicated some noticeable fluctuations throughout the analyzed period. The growth pace was the most rapid in 2010, when the output figure increased by +14% from the previous year level. Over the period under review, the total value of measuring instrument shipments in the United States peaked at \$11.2B in 2014, falling back in the following year.

Test equipment for testing electrical, radio, and communication circuits, and motors (excluding portable instrument transformers) was the major product category in the U.S. measuring instrument manufacturing, with a share in total output standing near 69% in 2015. Electrical integrating instruments lagged far behind, accounting for only the 22% share. The other related products together comprised approx. 8% of the total output.

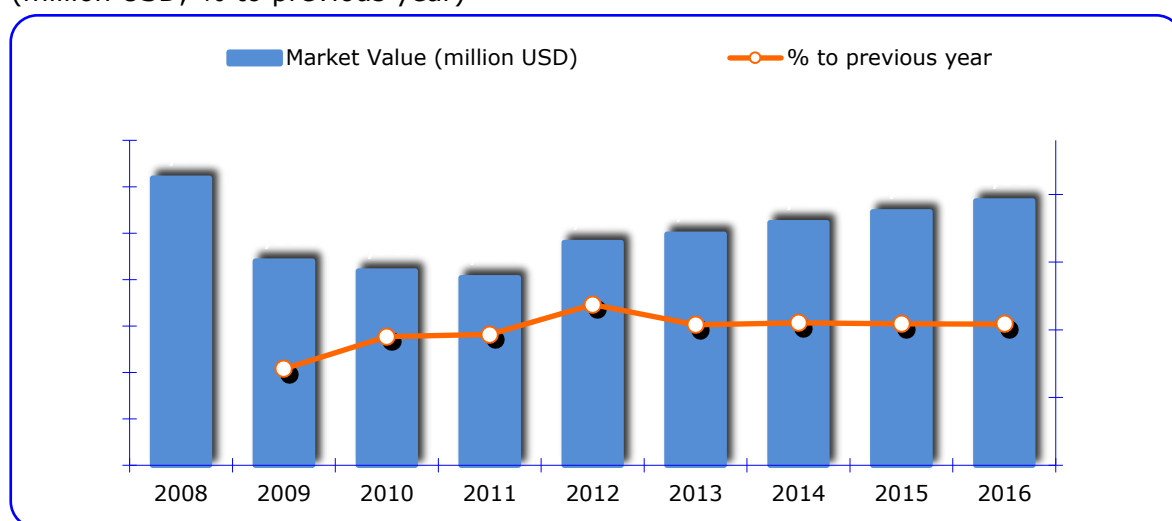




## B 3. MARKET OVERVIEW

### 3.1 MARKET VALUE

Figure 1: Market Value, 2008-2016  
(million USD, % to previous year)



Source: \*\*\*

Table 2: Market Value, in Value Terms, 2008-2016  
(million USD), in producer and import/export prices

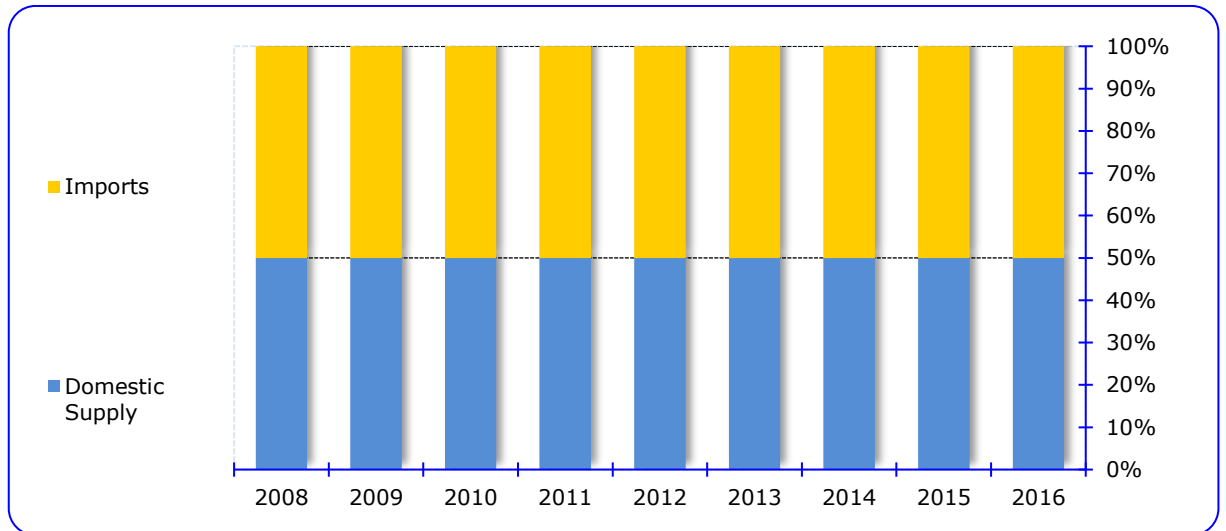
Item	Unit	2008	2009	2010	2011	2012	2013	2014	2015	2016	CAGR, 2008-2016
Production	USD	***	***	***	***	***	***	***	***	***	%
	% to previous year	-	***	***	***	***	***	***	***	***	-
Imports	USD	***	***	***	***	***	***	***	***	***	%
	% to previous year	-	***	***	***	***	***	***	***	***	-
Exports	USD	***	***	***	***	***	***	***	***	***	%
	% to previous year	-	***	***	***	***	***	***	***	***	-
Market Value	USD	***	***	***	***	***	***	***	***	***	%
	% to previous year	-	***	***	***	***	***	***	***	***	-

Source: \*\*

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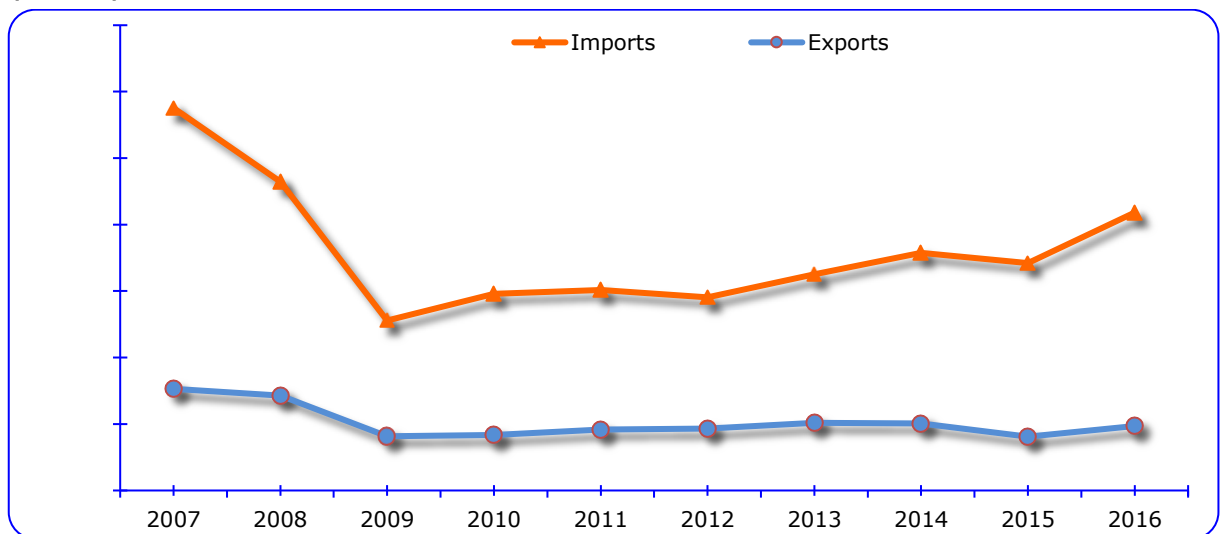
**3.2 TRADE BALANCE**

Figure 1: Market Structure – Domestic Supply Vs. Imports, In Value Terms, 2008-2016 (% based on USD), in exporter/importer prices



Source: \*\*\*

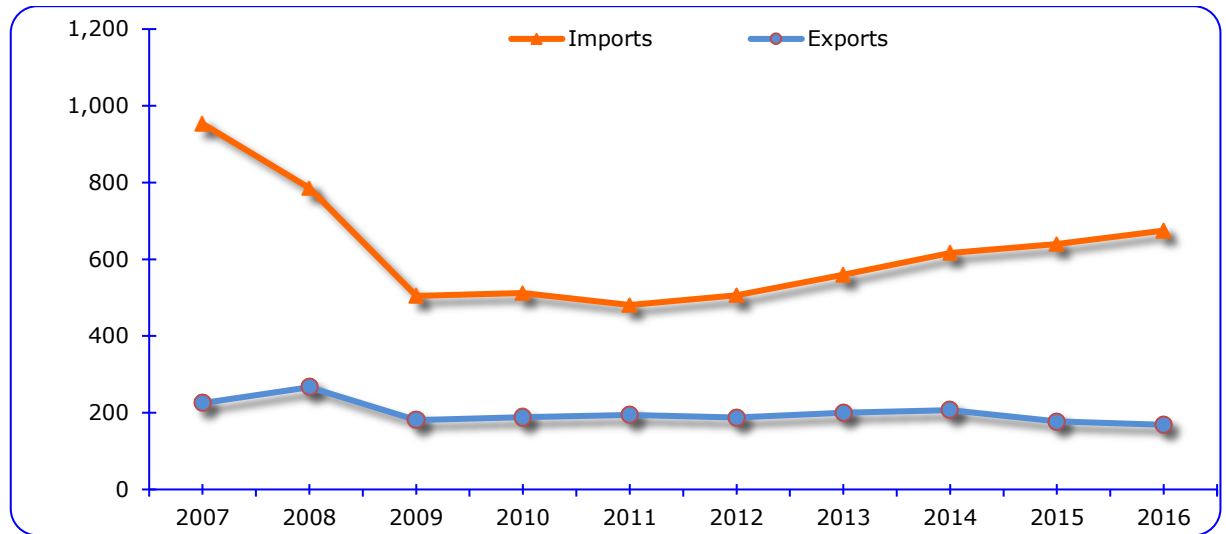
Figure 2: Trade Balance, In Physical Terms, 2007-2016 (tonnes)



Source: \*\*\*

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Figure 3: Trade Balance, In Value Terms, 2007-2016  
(million USD), in import/export prices



Source: \*\*\*

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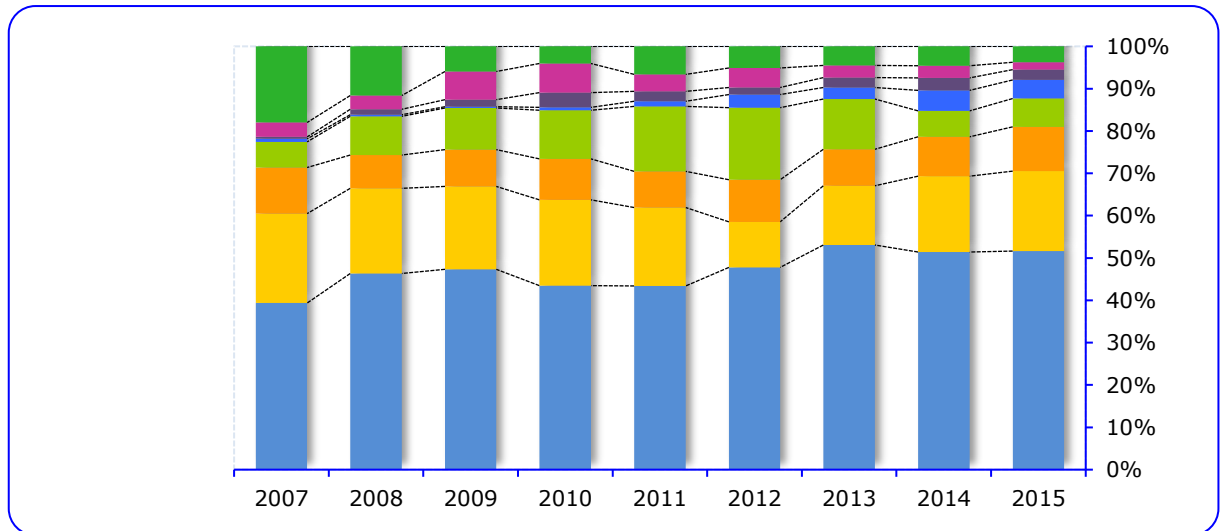
**3.3 MARKET OPPORTUNITIES**

Table 3: Market Opportunities, 2008-2016

Item	Unit	2008	2009	2010	2011	2012	2013	2014	2015	2016	CAGR 2008-2016
Market Value	million USD	***	***	***	***	***	***	***	***	***	%
Imports	million USD	***	***	***	***	***	***	***	***	***	%
Share of imports in demand	%	%	%	%	%	%	%	%	%	%	-
Import price	USD per tonne	***	***	***	***	***	***	***	***	***	%

Source: \*\*\*

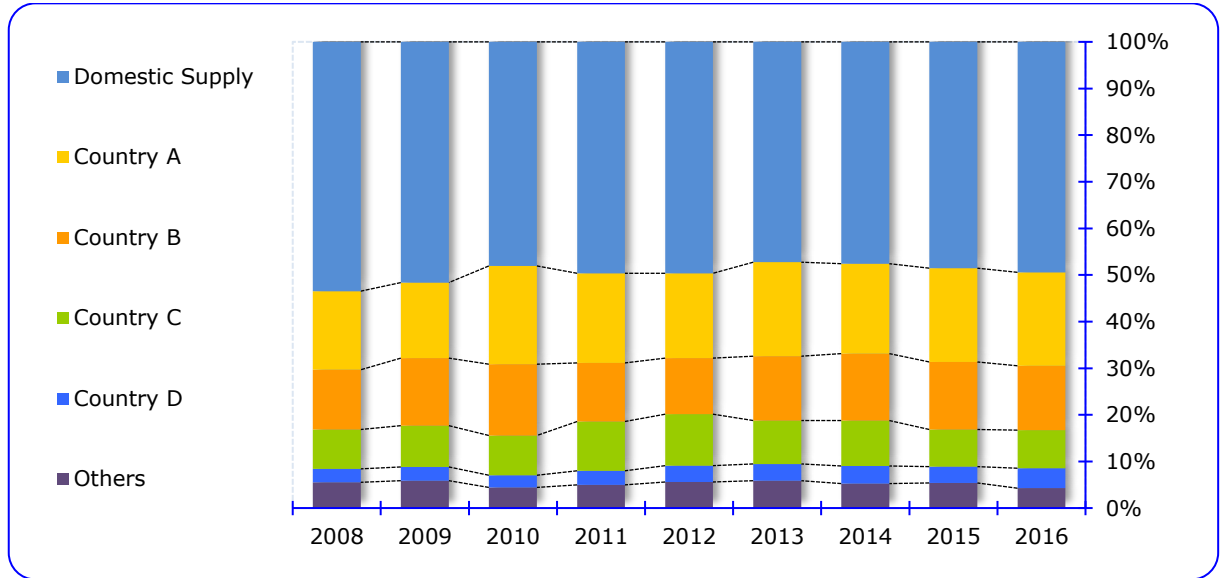
Figure 4: Global Imports, 2007-2016  
(%, based on USD)



Source: \*\*\*

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Figure 5: Share Of Imports In Consumption, By Country Of Origin, 2008-2016  
(%, based on USD)



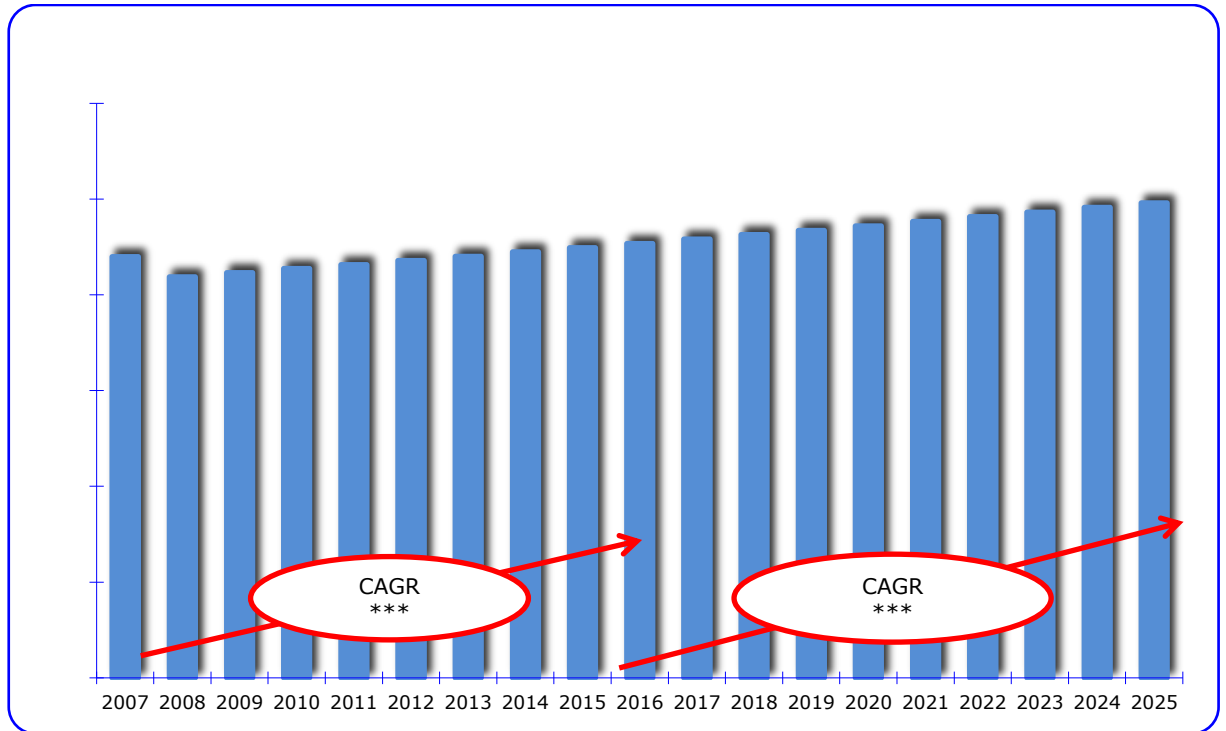
Source: \*\*\*

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### 3.4 MARKET FORECAST TO 2025

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Figure 6: Market Forecast To 2025  
(million USD)



Source: \*\*\*

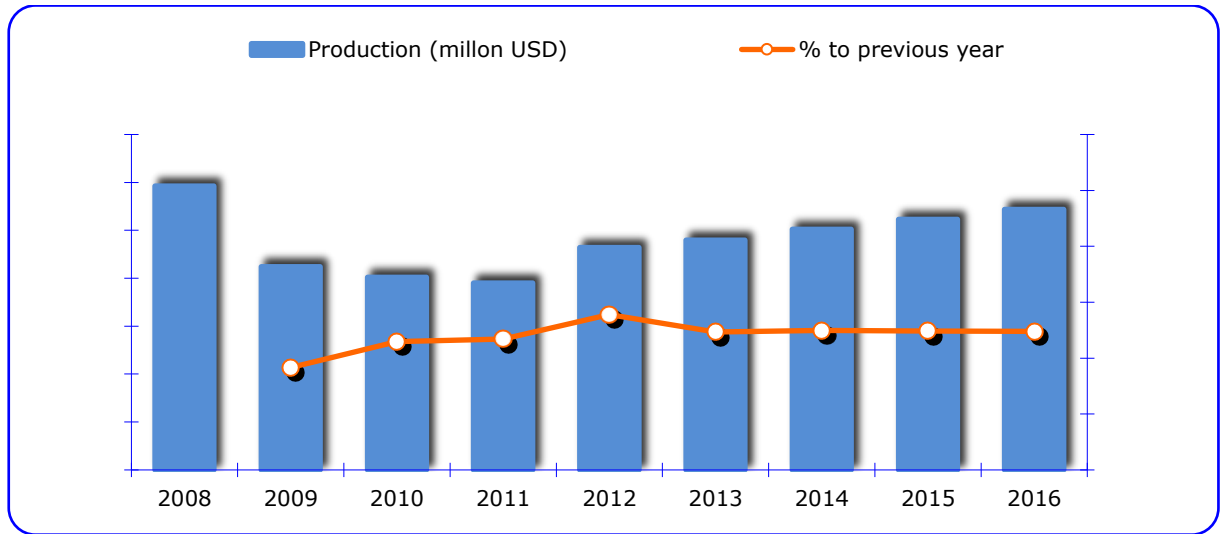
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# 4. DOMESTIC PRODUCTION

## 4.1 PRODUCTION IN 2008-2016

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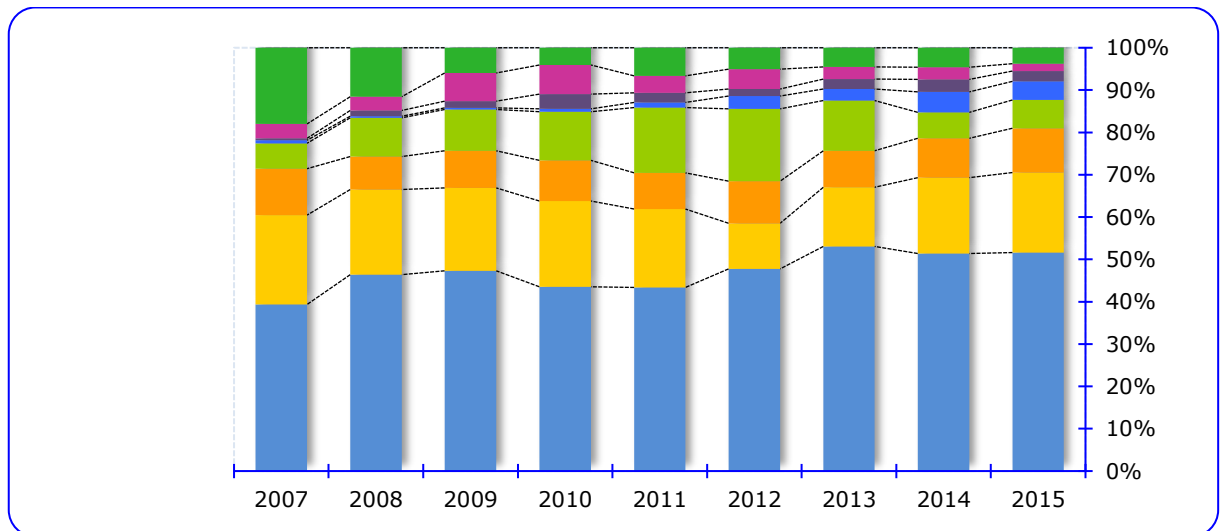
Figure 7: Production, Shipments, In Value Terms, 2008–2016 (million USD)



Source: \*\*\*

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Figure 6: Global Exports, By Country, 2007-2016 (% based on USD)

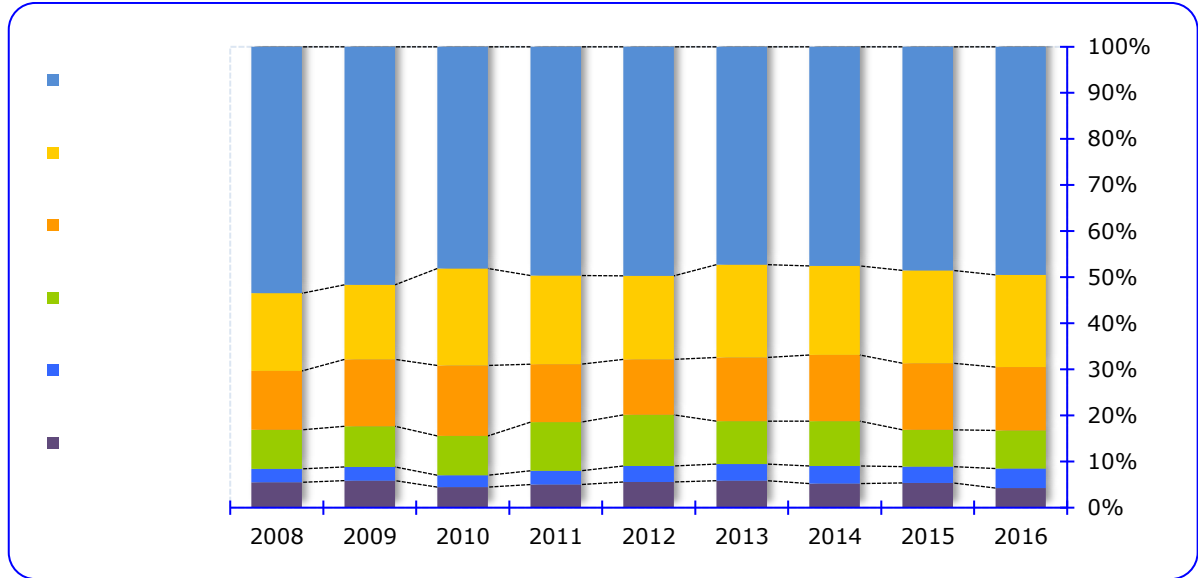


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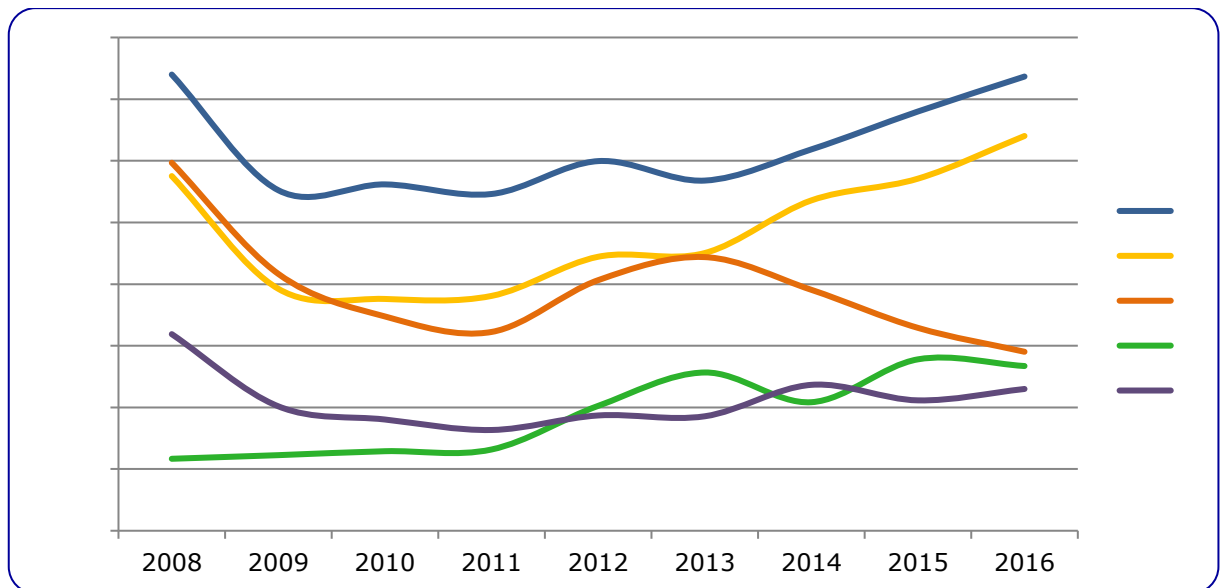
**4.2 PRODUCTION BY TYPE**

Figure 9: Production, By Type, 2008-2016  
(%, based on USD)



Source: \*\*\*

Figure 10: Production, By Type, In Value Terms, 2008-2016  
(million USD)



Source: \*\*\*

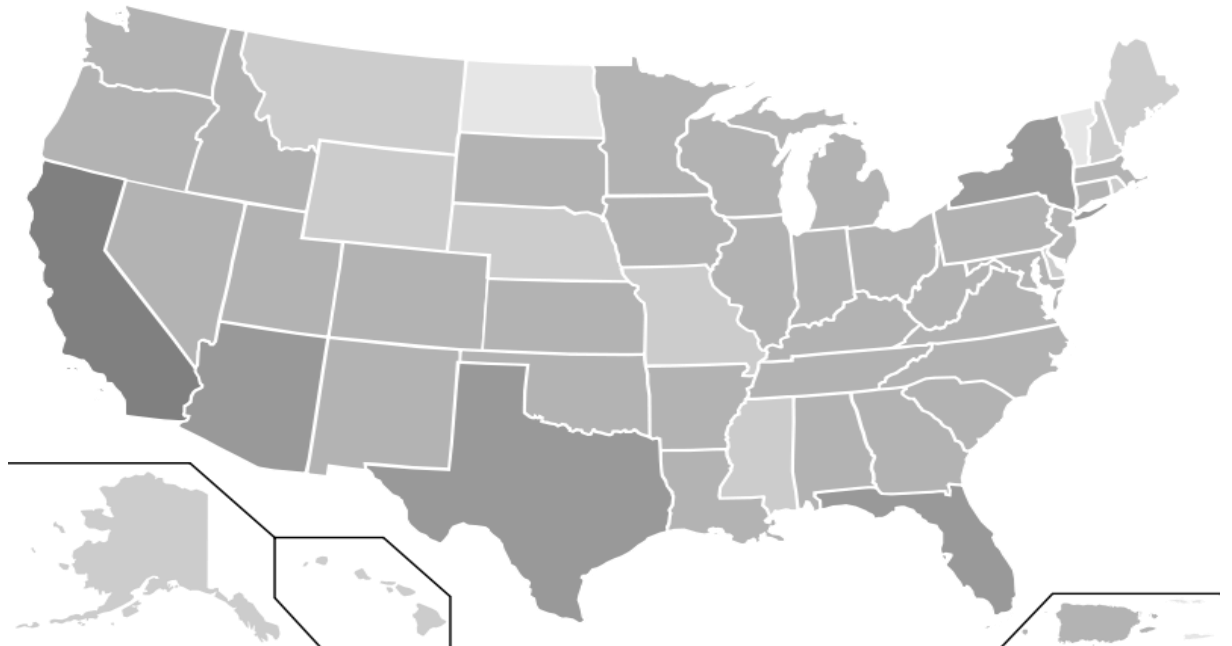


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**4.3 PRODUCTION BY STATES**

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Figure 11: Map - Value Of Shipments, By State, 2012  
(million USD)



Source: \*\*\*

Table 4: Production, By State, 2012  
(million USD)

State	Value of Shipments (Mil \$)
Alabama	***
Alaska	***
Arizona	***
Arkansas	***
California	***
Colorado	***
Connecticut	***
Delaware	***
District of Columbia	***
Florida	***
Georgia	***
Hawaii	***
Idaho	***
Illinois	***
Indiana	***
Iowa	***
Kansas	***
Kentucky	***

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State	Value of Shipments (Mil \$)
Louisiana	***
Maine	***
Maryland	***
Massachusetts	***
Michigan	***
Minnesota	***
Mississippi	***
Missouri	***
Montana	***
Nebraska	***
Nevada	***
New Hampshire	***
New Jersey	***
New Mexico	***
New York	***
North Carolina	***
North Dakota	***
Ohio	***
Oklahoma	***
Oregon	***
Pennsylvania	***
Rhode Island	***
South Carolina	***
South Dakota	***
Tennessee	***
Texas	***
Utah	***
Vermont	***
Virginia	***
Washington	***
West Virginia	***
Wisconsin	***
Wyoming	***

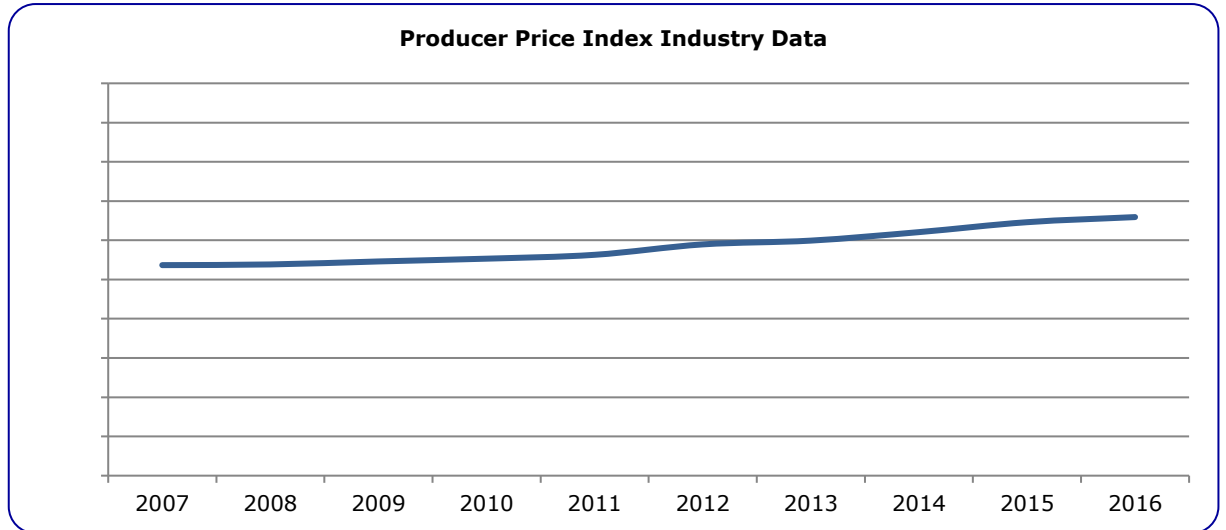
Source: \*\*\*

#### 4.4 PRODUCER PRICES

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Figure 7: Producer Price Index Industry Data, 2007-2016



Source: \*\*\*

Table 5: Producer Price Index Industry Data, 2007-2016

1982=100

P: Preliminary. All indexes are subject to revision four months after original publication

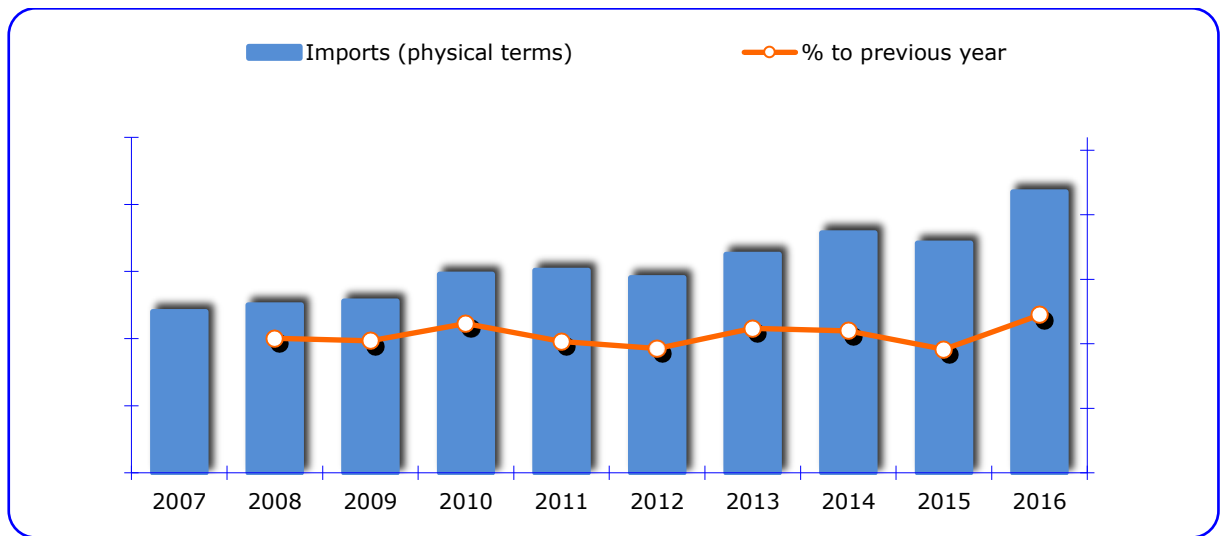
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Annual
2007	***	***	***	***	***	***	***	***	***	***	***	***	***
2008	***	***	***	***	***	***	***	***	***	***	***	***	***
2009	***	***	***	***	***	***	***	***	***	***	***	***	***
2010	***	***	***	***	***	***	***	***	***	***	***	***	***
2011	***	***	***	***	***	***	***	***	***	***	***	***	***
2012	***	***	***	***	***	***	***	***	***	***	***	***	***
2012	***	***	***	***	***	***	***	***	***	***	***	***	***
2013	***	***	***	***	***	***	***	***	***	***	***	***	***
2014	***	***	***	***	***	***	***	***	***	***	***	***	***
2016	***	***	***	***	***	***	***	***	***	***	***	***	***

Source: \*\*\*

# B 5. IMPORTS

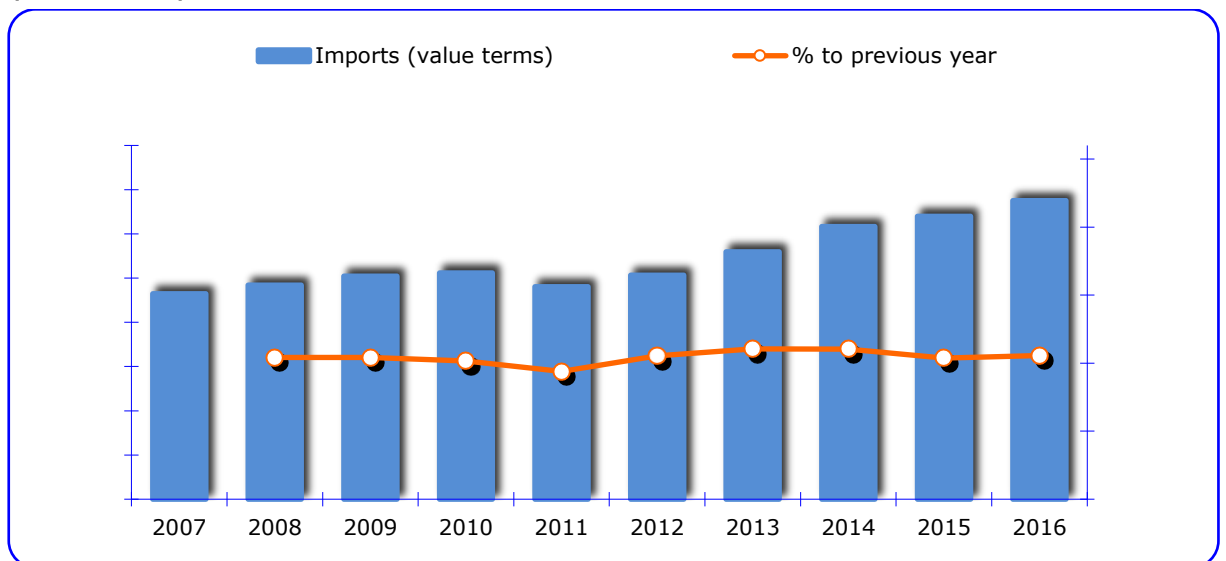
## 5.1 IMPORTS IN 2007-2016

Figure 8: Imports, In Physical Terms, 2007-2016 (tonnes)



Source: \*\*\*

Figure 9: Imports, In Value Terms, 2007-2016 (million USD)

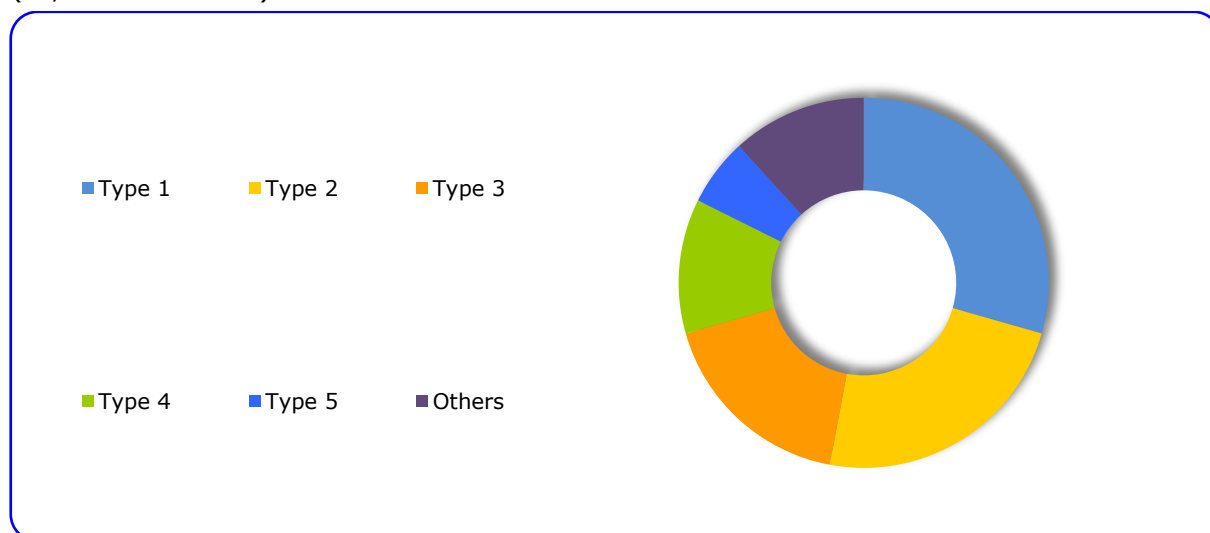


Source: \*\*\*

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## 5.2 IMPORTS BY TYPE

Figure 10: Imports, By Type, 2016  
(%, based on USD)



Source: \*\*\*

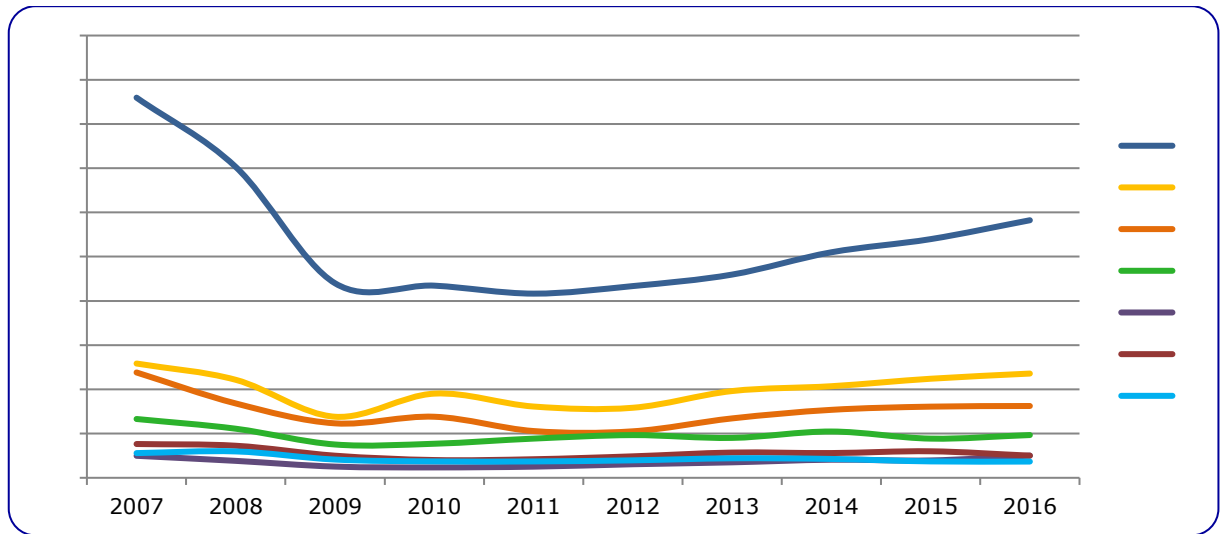
Table 6: Imports, In Physical And Value Terms, By Type, 2007-2016  
(tonnes, million USD)

Country	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	CAGR, 2007-2016
<b>physical terms</b>											
Type 1	***	***	***	***	***	***	***	***	***	***	***
Type 2	***	***	***	***	***	***	***	***	***	***	***
Type 3	***	***	***	***	***	***	***	***	***	***	***
Type 4	***	***	***	***	***	***	***	***	***	***	***
Total	***	***	***	***	***	***	***	***	***	***	***
<b>value terms</b>											
Type 1	***	***	***	***	***	***	***	***	***	***	***
Type 2	***	***	***	***	***	***	***	***	***	***	***
Type 3	***	***	***	***	***	***	***	***	***	***	***
Type 4	***	***	***	***	***	***	***	***	***	***	***
Total	***	***	***	***	***	***	***	***	***	***	***

Source: \*\*\*

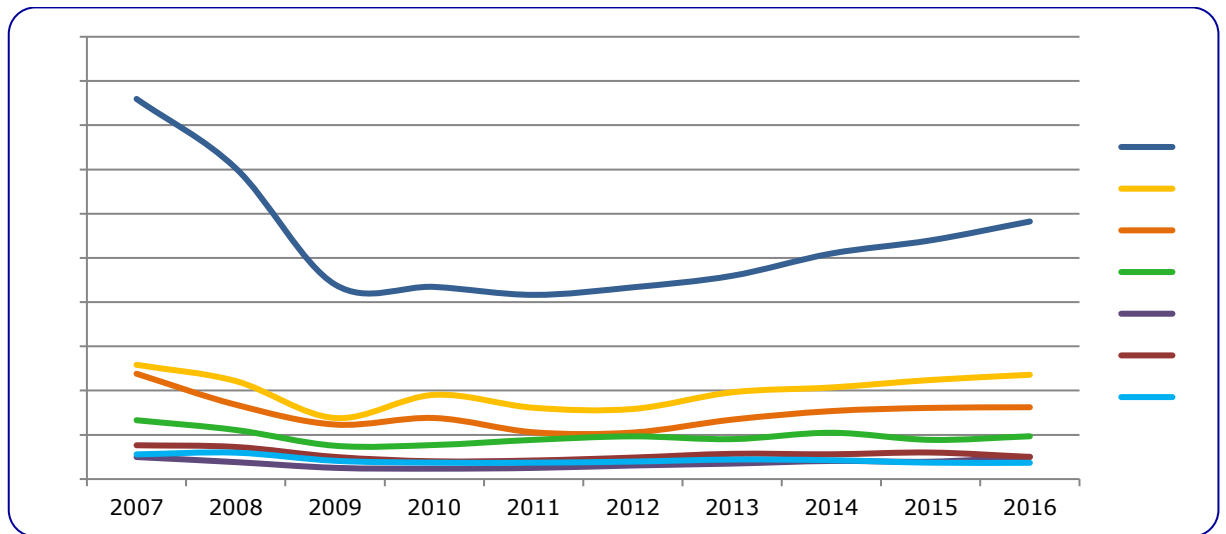
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Figure 11: Imports, In Physical Terms, By Type, 2007–2016 (tonnes)



Source: \*\*\*

Figure 12: Imports, In Value Terms, By Type, 2007–2016 (million USD)



Source: \*\*\*

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### 5.3 IMPORTS BY COUNTRY

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Figure 13: Imports, By Country Of Origin, 2016  
(%, based on USD)



Source: \*\*\*

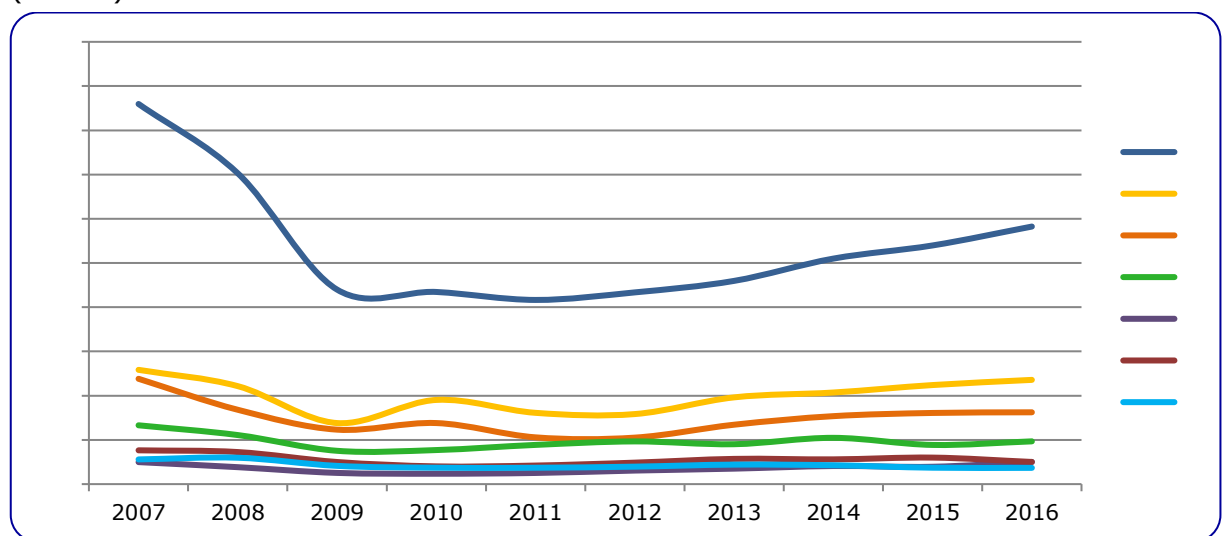
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Table 7: Imports, In Physical And Value Terms, By Country, 2007-2016 (tonnes, million USD)

Country	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	CAGR, 2007-2016
<b>physical terms</b>											
Country	***	***	***	***	***	***	***	***	***	***	***
Country	***	***	***	***	***	***	***	***	***	***	***
Country	***	***	***	***	***	***	***	***	***	***	***
Country	***	***	***	***	***	***	***	***	***	***	***
Country	***	***	***	***	***	***	***	***	***	***	***
Country	***	***	***	***	***	***	***	***	***	***	***
Country	***	***	***	***	***	***	***	***	***	***	***
Others	***	***	***	***	***	***	***	***	***	***	***
Total	***	***	***	***	***	***	***	***	***	***	***
<b>value terms</b>											
Country	***	***	***	***	***	***	***	***	***	***	***
Country	***	***	***	***	***	***	***	***	***	***	***
Country	***	***	***	***	***	***	***	***	***	***	***
Country	***	***	***	***	***	***	***	***	***	***	***
Country	***	***	***	***	***	***	***	***	***	***	***
Country	***	***	***	***	***	***	***	***	***	***	***
Country	***	***	***	***	***	***	***	***	***	***	***
Others	***	***	***	***	***	***	***	***	***	***	***
Total	***	***	***	***	***	***	***	***	***	***	***

Source: \*\*\*

Figure 14: Imports, In Physical Terms, By Country Of Origin, 2007-2016 (tonnes)

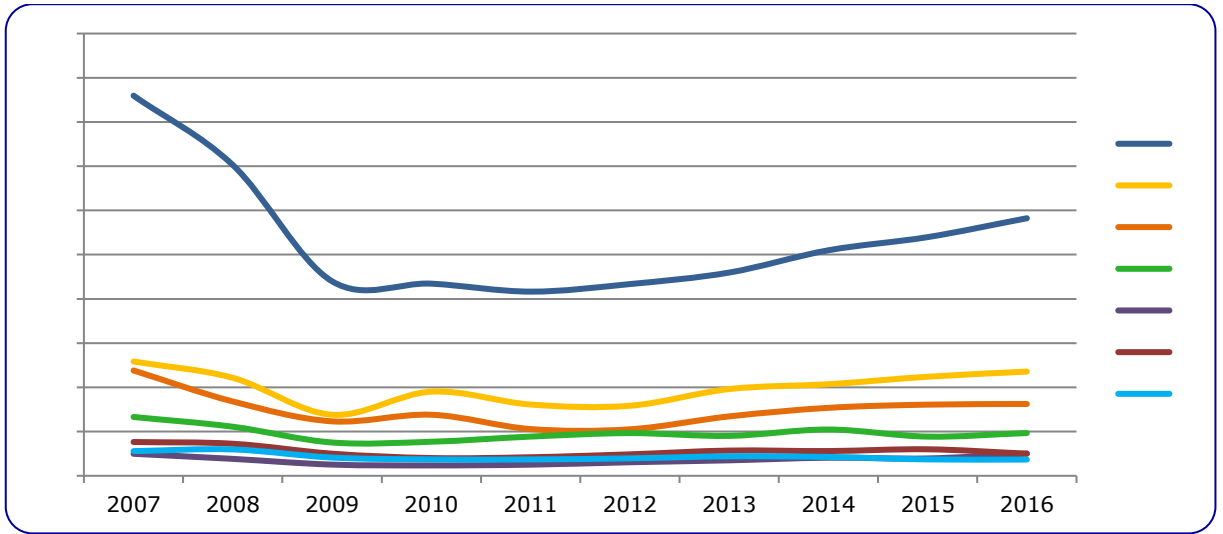


Source: \*\*\*



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Figure 20: Imports, In Value Terms, By Country Of Origin, 2007–2016  
(million USD)



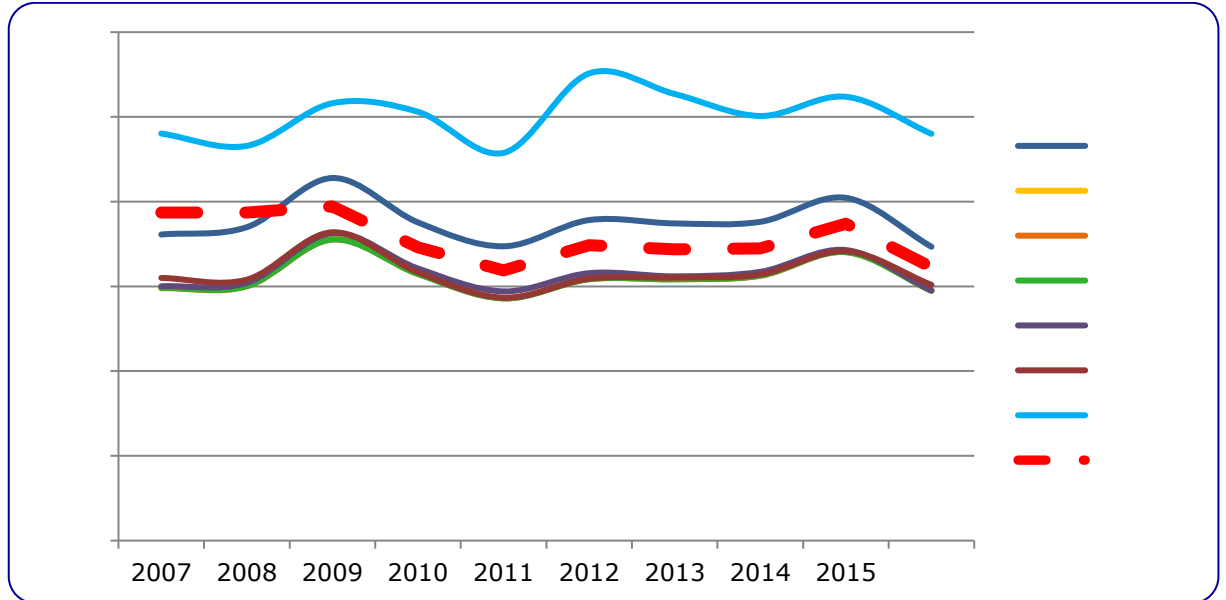
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**5.4 IMPORT PRICES BY COUNTRY**

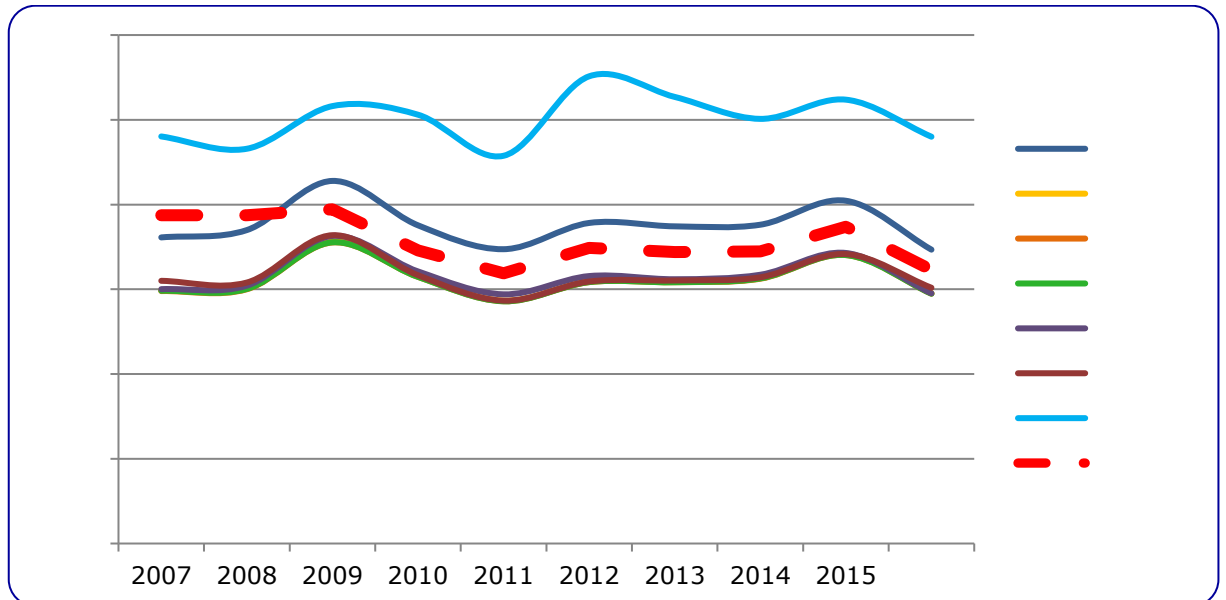
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Figure 21: Import Prices, By Country of Origin, 2007-2016  
(USD per tonne)



Source: \*\*\*

Figure 22: Import Prices, By Type, 2007-2016  
(USD per tonne)



Source: \*\*\*

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Table 8: Import Prices, By Type and Country Of Origin, 2007-2016  
(USD per tonne)

Country/Type	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
<b>Type***</b>										
Country	***	***	***	***	***	***	***	***	***	***
Country	***	***	***	***	***	***	***	***	***	***
Country	***	***	***	***	***	***	***	***	***	***
Country	***	***	***	***	***	***	***	***	***	***
Average	***	***	***	***	***	***	***	***	***	***
<b>Type***</b>										
Country	***	***	***	***	***	***	***	***	***	***
Country	***	***	***	***	***	***	***	***	***	***
Country	***	***	***	***	***	***	***	***	***	***
Country	***	***	***	***	***	***	***	***	***	***
Country	***	***	***	***	***	***	***	***	***	***
Average	***	***	***	***	***	***	***	***	***	***
<b>Type***</b>										
Country	***	***	***	***	***	***	***	***	***	***
Country	***	***	***	***	***	***	***	***	***	***
Country	***	***	***	***	***	***	***	***	***	***
Country	***	***	***	***	***	***	***	***	***	***
Country	***	***	***	***	***	***	***	***	***	***
Average	***	***	***	***	***	***	***	***	***	***
<b>Type***</b>										
Country	***	***	***	***	***	***	***	***	***	***
Country	***	***	***	***	***	***	***	***	***	***
Country	***	***	***	***	***	***	***	***	***	***
Country	***	***	***	***	***	***	***	***	***	***
Country	***	***	***	***	***	***	***	***	***	***
Average	***	***	***	***	***	***	***	***	***	***
<b>Type***</b>										
Country	***	***	***	***	***	***	***	***	***	***
Country	***	***	***	***	***	***	***	***	***	***
Country	***	***	***	***	***	***	***	***	***	***
Country	***	***	***	***	***	***	***	***	***	***
Country	***	***	***	***	***	***	***	***	***	***
Average	***	***	***	***	***	***	***	***	***	***

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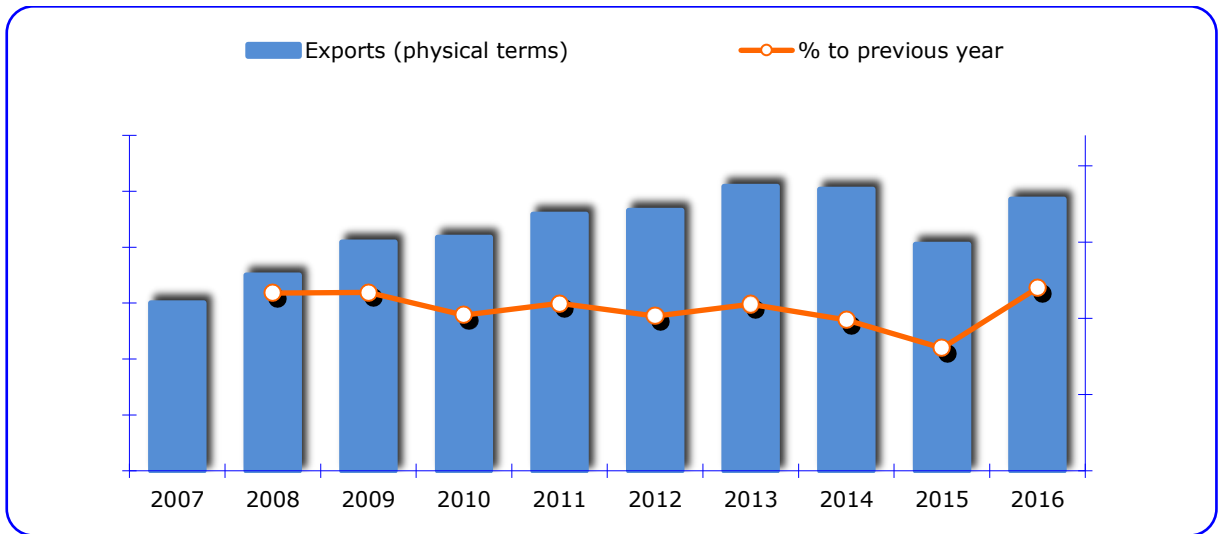
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# 6. EXPORTS

## 6.1 EXPORTS IN 2007-2016

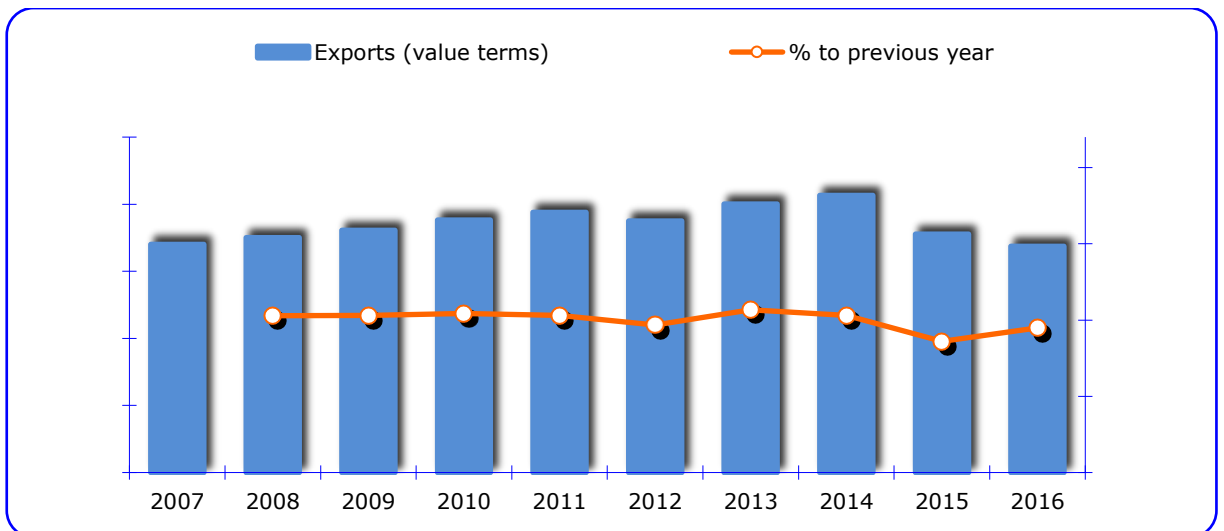
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Figure 15: Exports, In Physical Terms, 2007-2016 (tonnes)



Source: \*\*\*

Figure 16: Exports, In Value Terms, 2007-2016 (million USD)

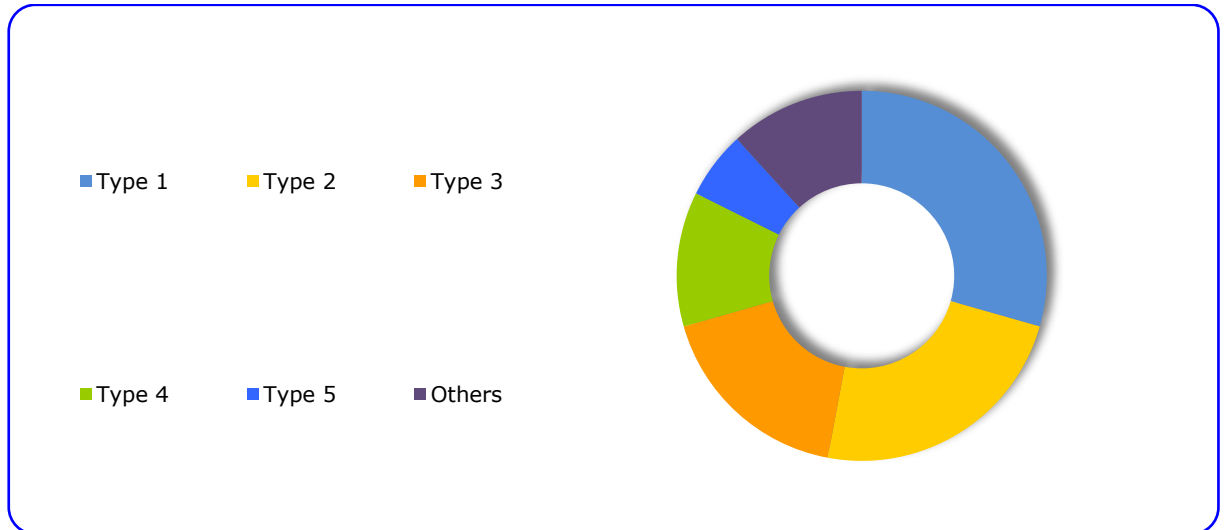


Source: \*\*\*

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## 6.2 EXPORTS BY TYPE

Figure 17: Exports, By Type, 2016  
(%, based on USD)



Source: \*\*\*

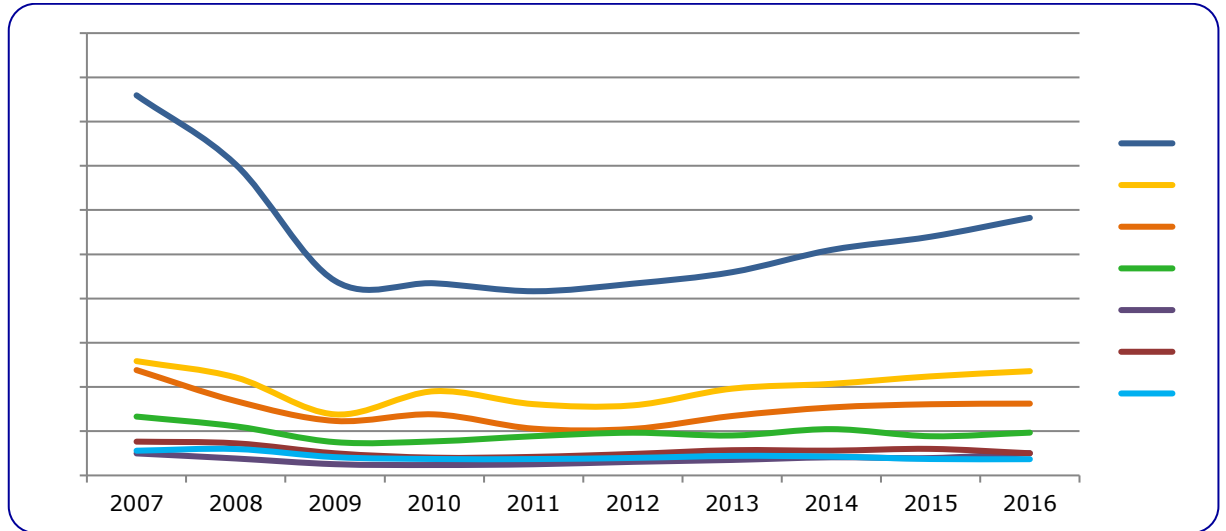
Table 9: Exports, In Physical And Value Terms, By Type, 2007-2016  
(tonnes, million USD)

Country	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	CAGR, 2007-2016
<b>physical terms</b>											
Type 1	***	***	***	***	***	***	***	***	***	***	***
Type 2	***	***	***	***	***	***	***	***	***	***	***
Type 3	***	***	***	***	***	***	***	***	***	***	***
Type 4	***	***	***	***	***	***	***	***	***	***	***
Total	***	***	***	***	***	***	***	***	***	***	***
<b>value terms</b>											
Type 1	***	***	***	***	***	***	***	***	***	***	***
Type 2	***	***	***	***	***	***	***	***	***	***	***
Type 3	***	***	***	***	***	***	***	***	***	***	***
Type 4	***	***	***	***	***	***	***	***	***	***	***
Total	***	***	***	***	***	***	***	***	***	***	***

Source: \*\*\*

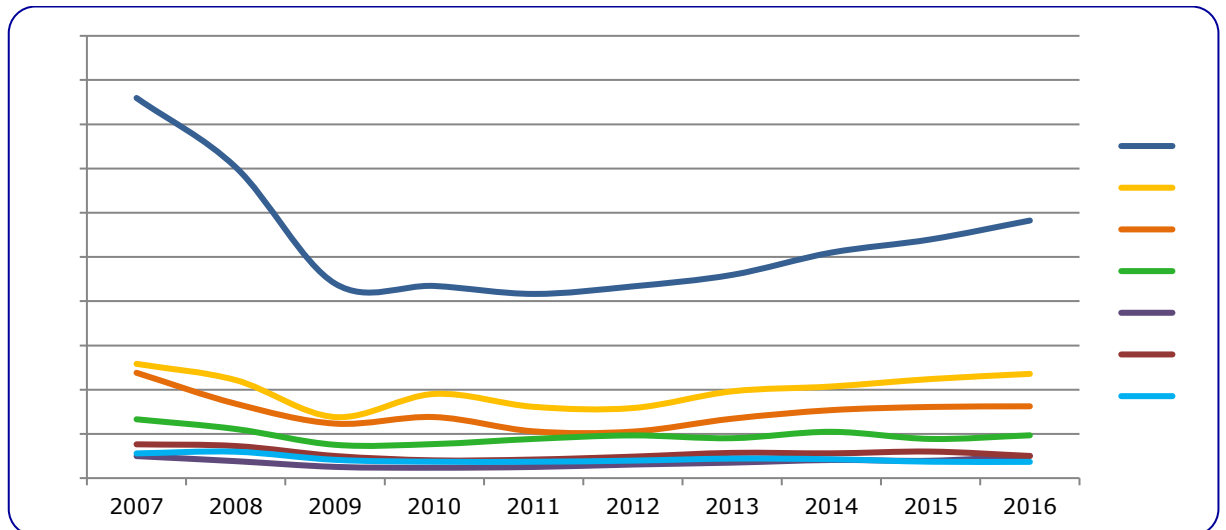


Figure 18: Exports, In Physical Terms, By Type, 2007–2016 (tonnes)



Source: \*\*\*

Figure 19: Exports, In Value Terms, By Type, 2007–2016 (million USD)

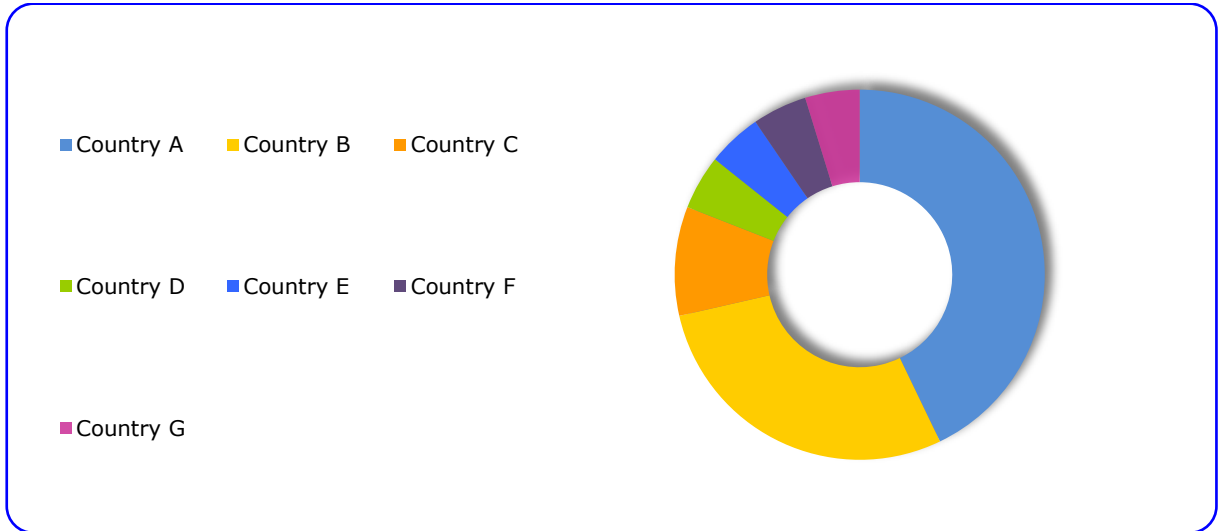


Source: \*\*\*

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**6.3 EXPORTS BY COUNTRY**

Figure 20: Exports, By Country Of Destination, 2016  
(%, based on USD)



Source: \*\*\*

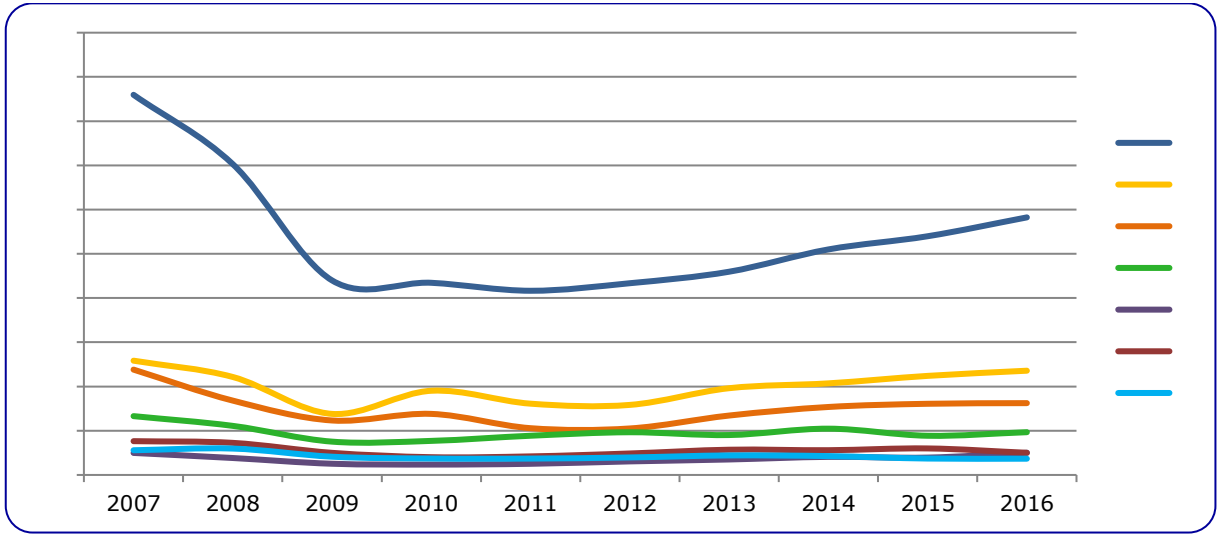
Table 10: Exports, In Physical Terms, By Country Of Destination, 2007-2016  
(tonnes, million USD)

Country	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	CAGR, 2007-2016
<b>physical terms</b>											
Country	***	***	***	***	***	***	***	***	***	***	***
Country	***	***	***	***	***	***	***	***	***	***	***
Country	***	***	***	***	***	***	***	***	***	***	***
Country	***	***	***	***	***	***	***	***	***	***	***
Country	***	***	***	***	***	***	***	***	***	***	***
Country	***	***	***	***	***	***	***	***	***	***	***
Country	***	***	***	***	***	***	***	***	***	***	***
Others	***	***	***	***	***	***	***	***	***	***	***
Total	***	***	***	***	***	***	***	***	***	***	***
<b>value terms</b>											
Country	***	***	***	***	***	***	***	***	***	***	***
Country	***	***	***	***	***	***	***	***	***	***	***
Country	***	***	***	***	***	***	***	***	***	***	***
Country	***	***	***	***	***	***	***	***	***	***	***
Country	***	***	***	***	***	***	***	***	***	***	***
Country	***	***	***	***	***	***	***	***	***	***	***
Country	***	***	***	***	***	***	***	***	***	***	***
Others	***	***	***	***	***	***	***	***	***	***	***
Total	***	***	***	***	***	***	***	***	***	***	***

Source: \*\*\*

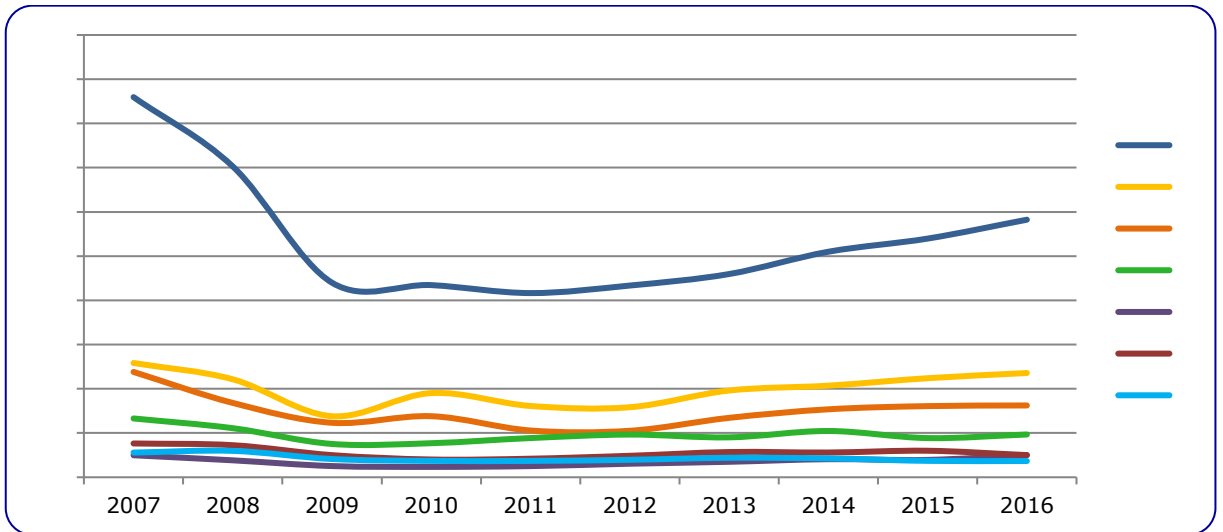
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Figure 21: Exports, In Physical Terms, By Country Of Destination, 2007–2016 (tonnes)



Source: \*\*\*

Figure 30: Exports, In Value Terms, By Country Of Destination, 2007–2016 (million USD)



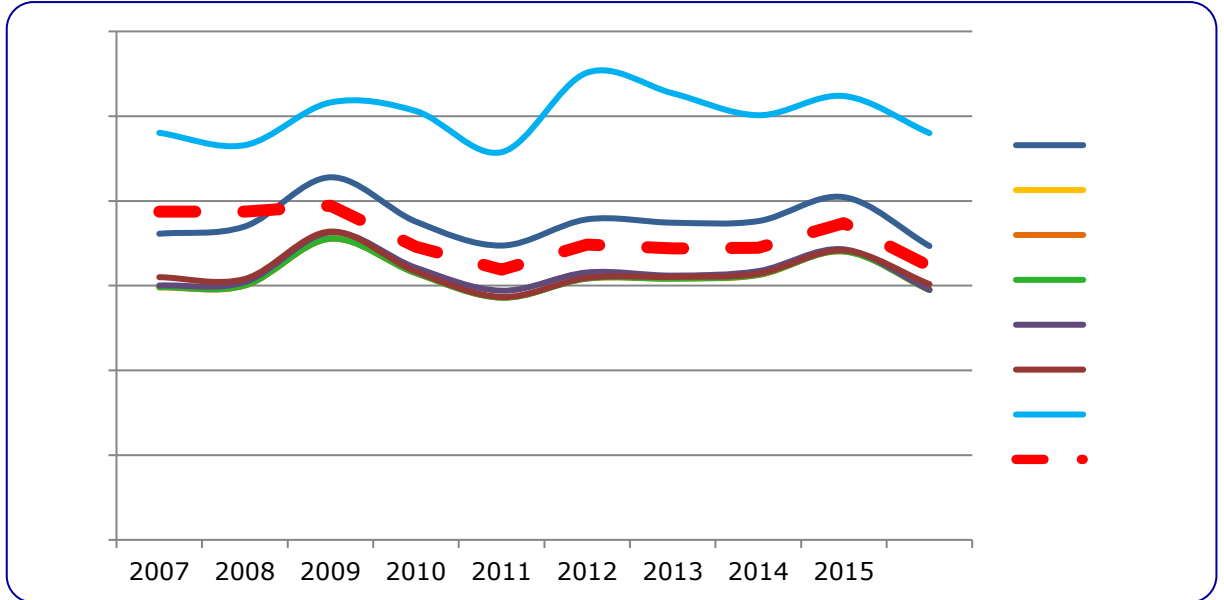
Source: \*\*\*



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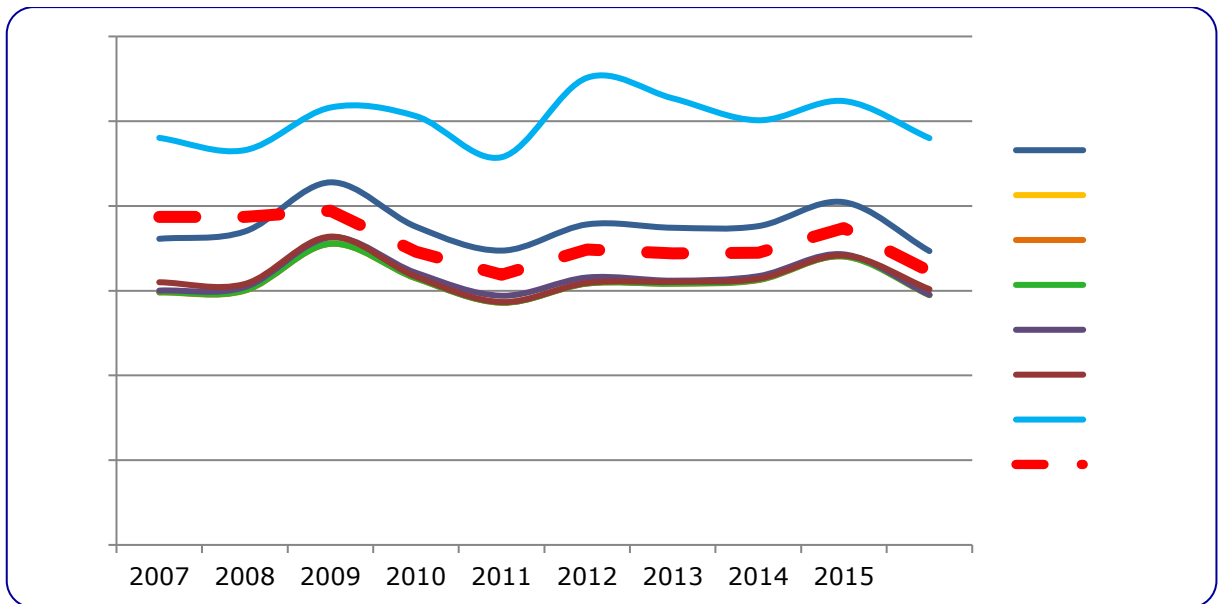
**6.4 EXPORT PRICES BY COUNTRY**

Figure 31: Export Prices, By Country of Destination, 2007-2016 (USD per tonne)



Source: \*\*\*

Figure 32: Export Prices, By Country of Destination, 2007-2016 (USD per tonne)



Source: \*\*\*

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Table 11: Export Prices, By Type and Country Of Destination, 2007-2016  
(USD per tonne)

Country/Type	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016
<b>Type***</b>										
Country	***	***	***	***	***	***	***	***	***	***
Country	***	***	***	***	***	***	***	***	***	***
Country	***	***	***	***	***	***	***	***	***	***
Country	***	***	***	***	***	***	***	***	***	***
Average	***	***	***	***	***	***	***	***	***	***
<b>Type***</b>										
Country	***	***	***	***	***	***	***	***	***	***
Country	***	***	***	***	***	***	***	***	***	***
Country	***	***	***	***	***	***	***	***	***	***
Country	***	***	***	***	***	***	***	***	***	***
Average	***	***	***	***	***	***	***	***	***	***
<b>Type***</b>										
Country	***	***	***	***	***	***	***	***	***	***
Country	***	***	***	***	***	***	***	***	***	***
Country	***	***	***	***	***	***	***	***	***	***
Country	***	***	***	***	***	***	***	***	***	***
Average	***	***	***	***	***	***	***	***	***	***
<b>Type***</b>										
Country	***	***	***	***	***	***	***	***	***	***
Country	***	***	***	***	***	***	***	***	***	***
Country	***	***	***	***	***	***	***	***	***	***
Country	***	***	***	***	***	***	***	***	***	***
Average	***	***	***	***	***	***	***	***	***	***
<b>Type***</b>										
Country	***	***	***	***	***	***	***	***	***	***
Country	***	***	***	***	***	***	***	***	***	***
Country	***	***	***	***	***	***	***	***	***	***
Country	***	***	***	***	***	***	***	***	***	***
Average	***	***	***	***	***	***	***	***	***	***
<b>Type***</b>										
Country	***	***	***	***	***	***	***	***	***	***
Country	***	***	***	***	***	***	***	***	***	***
Country	***	***	***	***	***	***	***	***	***	***
Country	***	***	***	***	***	***	***	***	***	***
Average	***	***	***	***	***	***	***	***	***	***

Source: \*\*\*

## B

# 7. COMPETITIVE LANDSCAPE

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This Industry is comprised of:

.  
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## 7.1 INDUSTRY SNAPSHOTS

Table 12: Key Industry Statistics: Manufacturing

Item	2007	2012	07-12 % Chg
Number of establishments	***	***	%
Value of shipments (\$ Millions)	***	***	%
Annual payroll (\$ Millions)	***	***	%
Total employment	***	***	%
Value of shipments per establishment (\$1,000)	***	***	%
Value of shipments per employee (\$1,000)	***	***	%
Value of shipments per \$ of payroll (\$)	***	***	%
Payroll per employee (\$)	***	***	%
Employees per establishment	***	***	%
Value of shipments per capita (\$)	***	***	%
Population per establishment	***	***	%
Population in the U.S. (million persons)	***	***	%

Source: \*\*\*

## 7.2 INDUSTRY LIFE CYCLE

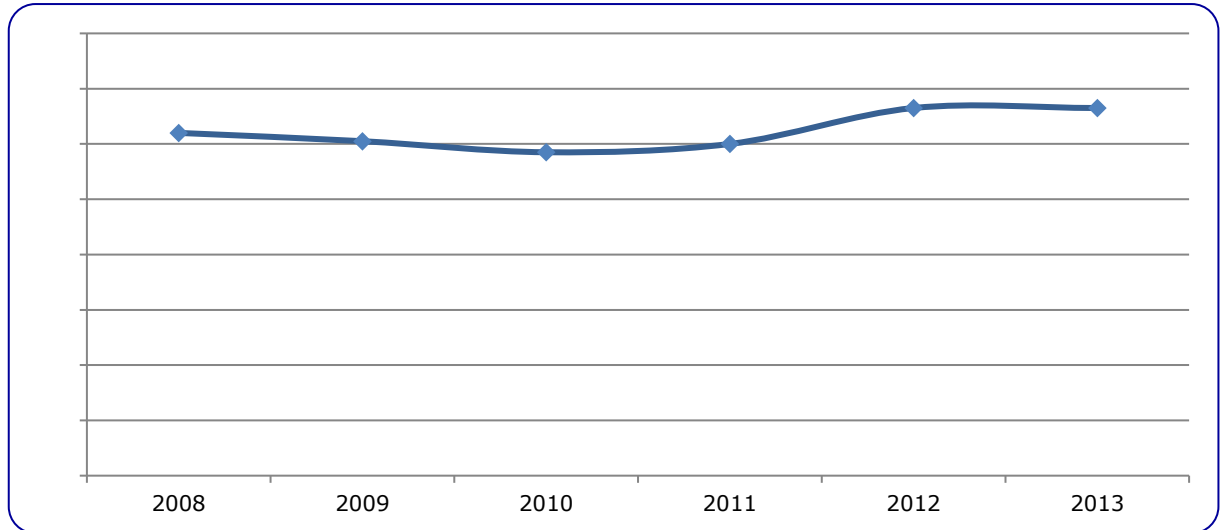
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## 7.3 BUSINESS LOCATIONS

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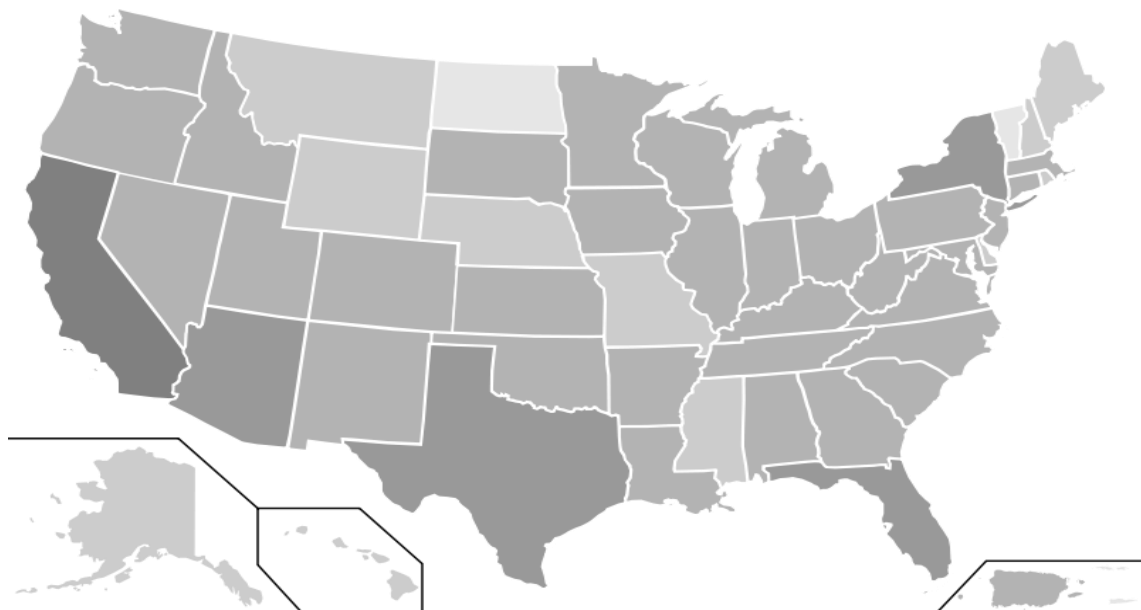
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Figure 22: Numbers Of Establishments, 2008-2013



Source: \*\*\*

Figure 23: Map - Number Of Establishments, By State, 2012



Source: \*\*\*

Table 13: Number Of Establishments, By State, 2012

State	Number of Establishments
Alabama	***
Alaska	***
Arizona	***

**B**

<b>State</b>	<b>Number of Establishments</b>
Arkansas	***
California	***
Colorado	***
Connecticut	***
Delaware	***
District of Columbia	***
Florida	***
Georgia	***
Hawaii	***
Idaho	***
Illinois	***
Indiana	***
Iowa	***
Kansas	***
Kentucky	***
Louisiana	***
Maine	***
Maryland	***
Massachusetts	***
Michigan	***
Minnesota	***
Mississippi	***
Missouri	***
Montana	***
Nebraska	***
Nevada	***
New Hampshire	***
New Jersey	***
New Mexico	***
New York	***
North Carolina	***

**B**

<b>State</b>	<b>Number of Establishments</b>
North Dakota	***
Ohio	***
Oklahoma	***
Oregon	***
Pennsylvania	***
Rhode Island	***
South Carolina	***
South Dakota	***
Tennessee	***
Texas	***
Utah	***
Vermont	***
Virginia	***
Washington	***
West Virginia	***
Wisconsin	***
Wyoming	***

*Source: \*\*\**

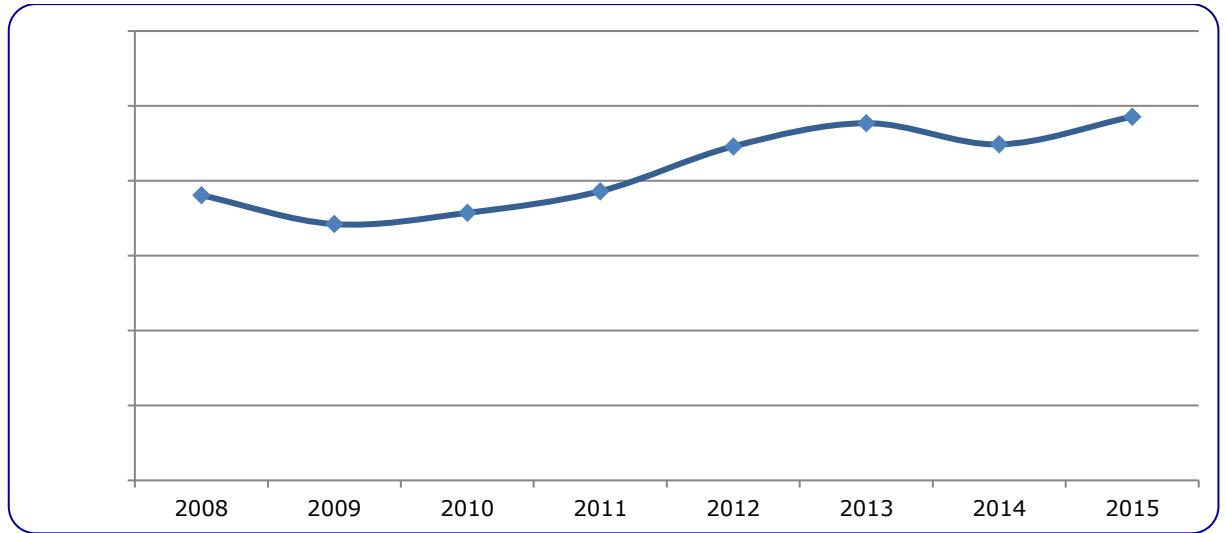
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### 7.4 EMPLOYMENT

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For a complete list of the number of employees engaged in the industry by States, see Table below.

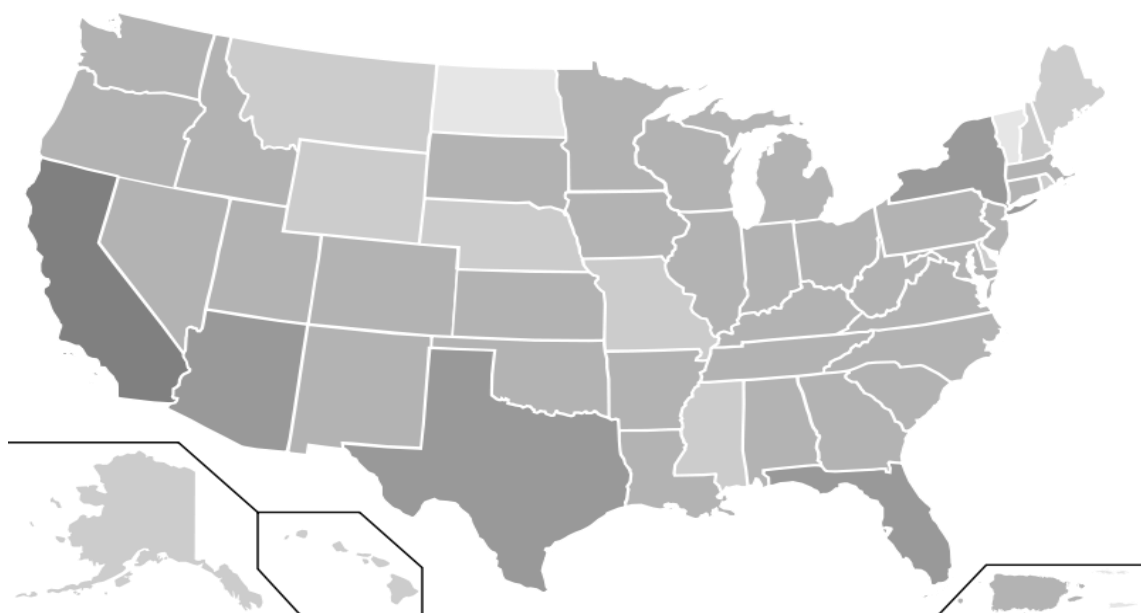
Figure 24: Number Of Employees, 2008-2015



Source: \*\*\*

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. .  
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Figure 37: Map - Number Of Employees, By State, 2012



Source: \*\*\*

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Table 14: Number Of Employees, By State, 2012

State	Number of Employees
Alabama	***
Alaska	***
Arizona	***
Arkansas	***
California	***
Colorado	***
Connecticut	***
Delaware	***
District of Columbia	***
Florida	***
Georgia	***
Hawaii	***
Idaho	***
Illinois	***
Indiana	***
Iowa	***
Kansas	***
Kentucky	***
Louisiana	***
Maine	***
Maryland	***
Massachusetts	***
Michigan	***
Minnesota	***
Mississippi	***
Missouri	***
Montana	***
Nebraska	***
Nevada	***
New Hampshire	***



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State	Number of Employees
New Jersey	***
New Mexico	***
New York	***
North Carolina	***
North Dakota	***
Ohio	***
Oklahoma	***
Oregon	***
Pennsylvania	***
Rhode Island	***
South Carolina	***
South Dakota	***
Tennessee	***
Texas	***
Utah	***
Vermont	***
Virginia	***
Washington	***
West Virginia	***
Wisconsin	***
Wyoming	***

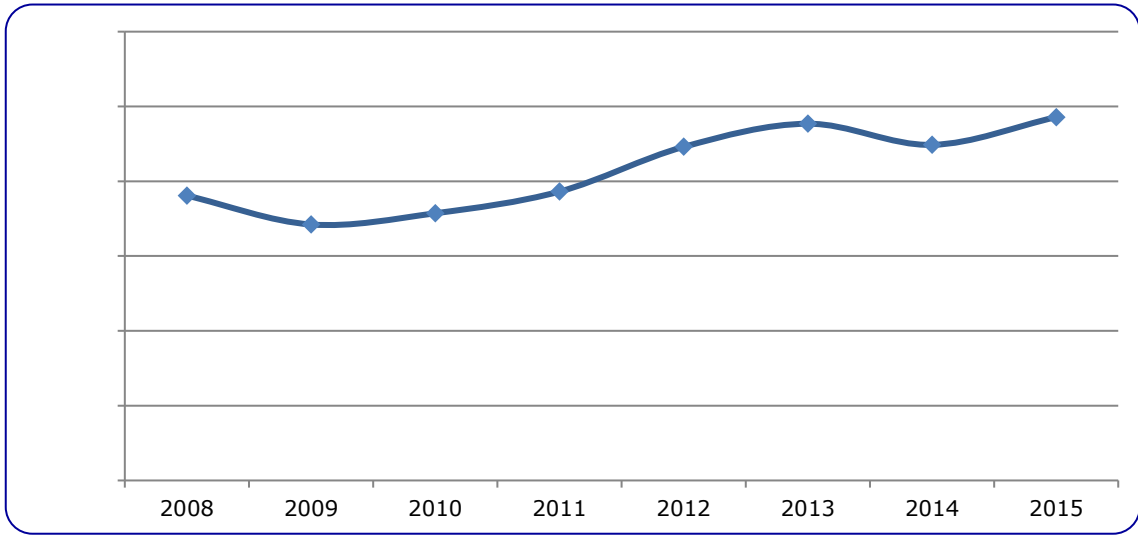
Source: \*\*\*

## 7.5 ANNUAL PAYROLL

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Figure 25: Annual Payroll, 2008-2016  
(thousand USD)



Source: \*\*\*

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Table 15: Annual Payroll, By State, 2012  
(USD)

<b>State</b>	<b>Annual Payroll (\$)</b>
Alabama	***
Alaska	***
Arizona	***
Arkansas	***
California	***
Colorado	***
Connecticut	***
Delaware	***
District of Columbia	***
Florida	***
Georgia	***
Hawaii	***
Idaho	***
Illinois	***
Indiana	***
Iowa	***
Kansas	***
Kentucky	***
Louisiana	***
Maine	***
Maryland	***
Massachusetts	***
Michigan	***
Minnesota	***
Mississippi	***
Missouri	***
Montana	***
Nebraska	***
Nevada	***

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State	Annual Payroll (\$)
New Hampshire	***
New Jersey	***
New Mexico	***
New York	***
North Carolina	***
North Dakota	***
Ohio	***
Oklahoma	***
Oregon	***
Pennsylvania	***
Rhode Island	***
South Carolina	***
South Dakota	***
Tennessee	***
Texas	***
Utah	***
Vermont	***
Virginia	***
Washington	***
West Virginia	***
Wisconsin	***
Wyoming	***

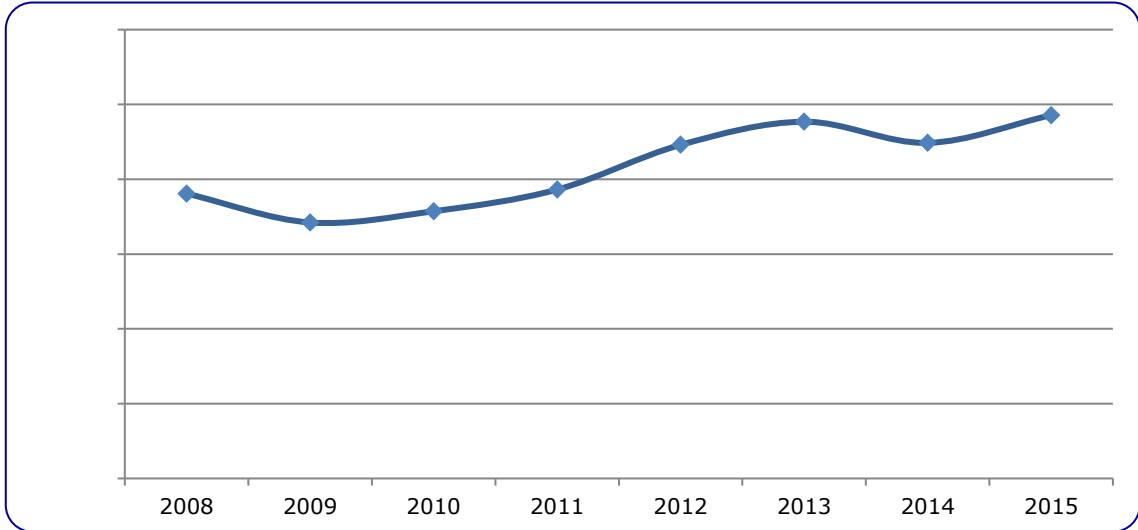
Source: \*\*\*

## 7.6 INDUSTRY PRODUCTIVITY

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Figure 26: Value Of Shipments Per Employee, By State, 2008-2015

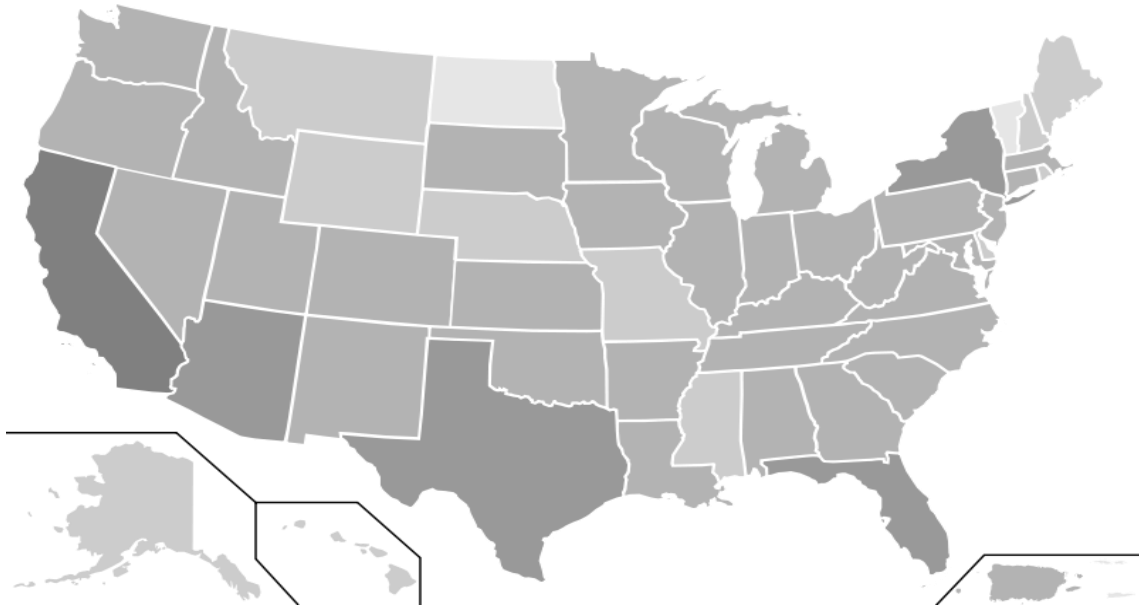


Source: \*\*\*

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Figure 40: Map - Value Of Shipments Per Employee, By State, 2012



Source: \*\*\*

Table 16: Value Of Shipments Per Employee, By State, 2012

State	Value of Shipments per employee (\$)
Alabama	***
Alaska	***
Arizona	***
Arkansas	***
California	***
Colorado	***
Connecticut	***
Delaware	***
District of Columbia	***
Florida	***
Georgia	***
Hawaii	***
Idaho	***
Illinois	***
Indiana	***
Iowa	***
Kansas	***
Kentucky	***

B

State	Value of Shipments per employee (\$)
Louisiana	***
Maine	***
Maryland	***
Massachusetts	***
Michigan	***
Minnesota	***
Mississippi	***
Missouri	***
Montana	***
Nebraska	***
Nevada	***
New Hampshire	***
New Jersey	***
New Mexico	***
New York	***
North Carolina	***
North Dakota	***
Ohio	***
Oklahoma	***
Oregon	***
Pennsylvania	***
Rhode Island	***
South Carolina	***
South Dakota	***
Tennessee	***
Texas	***
Utah	***
Vermont	***
Virginia	***
Washington	***
West Virginia	***

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<b>State</b>	<b>Value of Shipments per employee (\$)</b>
Wisconsin	***
Wyoming	***

*Source: \*\*\**

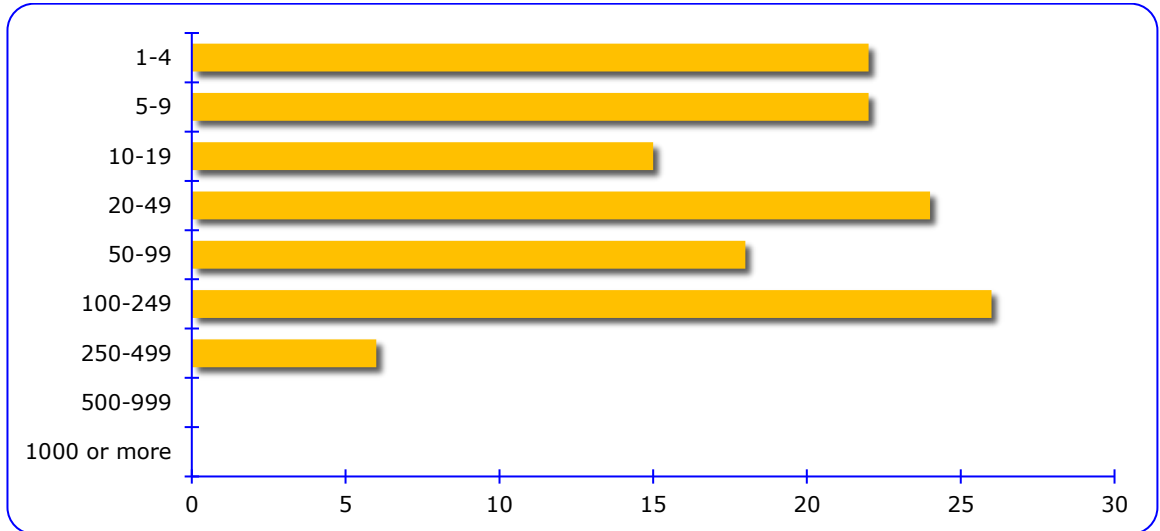


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**7.7 ESTABLISHMENT SIZE AND LEGAL FORM**

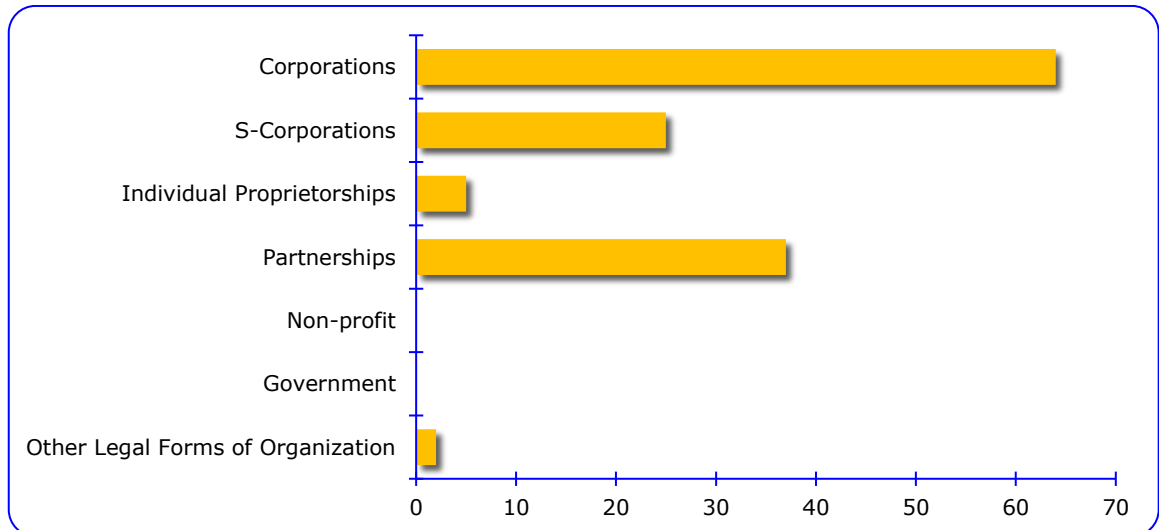
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Figure 41: Number Of Establishments By Employment Size, 2013



Source: \*\*\*

Figure 42: Number Of Establishments By Legal Form Of Organization, 2013



Source: \*\*\*

**B**

# 8. COMPANY PROFILES

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