Commodity Corn (CBT)

Forecast Period July 2017 – December 2017

**Currency** €

**Unit** Metric Tonne

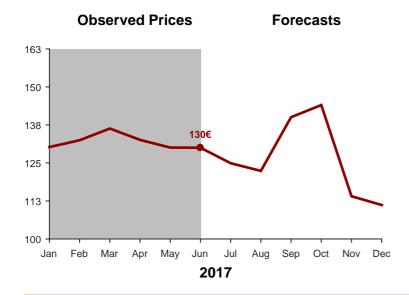
**Observations** Monthly forecasts of the average

spot price in the last week of the

previous month



#### **Forecasts**



Month/Year	Forecast	Prob. of Raise
Jul. 2017	125€	30 %
Aug. 2017	122€	30 %
Sep. 2017	140€	51 %
Oct. 2017	144€	59 %
Nov. 2017	114€	49 %
Dec. 2017	111€	44 %

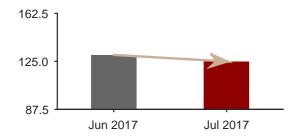
## **Suggested Action for Procurement**

Purchase Limit Month	Suggested Action	
July 2017	Buy in July	
August 2017	Wait	
September 2017	Wait	
October 2017	Wait	
November 2017	Buy part of requirements	
December 2017	Buy part of requirements	

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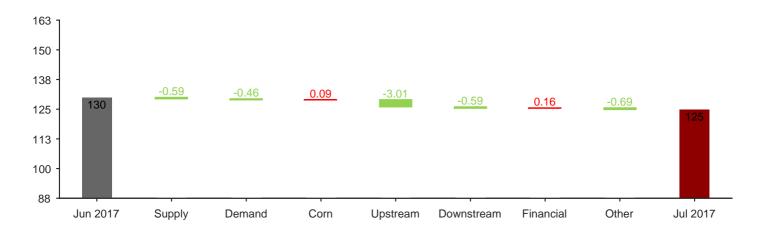
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### **Impact Analysis: One Month Forecast**



Our algorithm forecasts a lower price of Corn in one month: it is expectable that the price decreases 3.91% from 130€ to 125€ until the beginning of July.

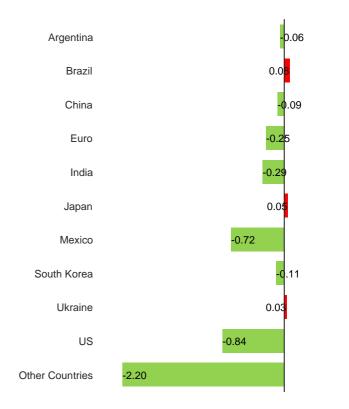
#### **Indices of Factors**



#### Interpretation

- Increase of Supply: Negative pressure of the Supply index
- Decrease of Demand: Negative pressure of the Demand index
- Slightly positive pressure of the index of Corn
- Considerably negative pressure of the index of variables representing the market upstream
- Negative pressure of the index of variables representing the market downstream
- Slightly positive pressure of the financial index
- Negative pressure of other commodities and other factors
- Focus on US, Mexico, and India

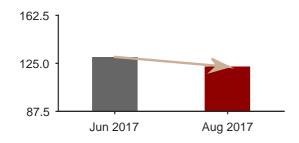
### Impact per Country



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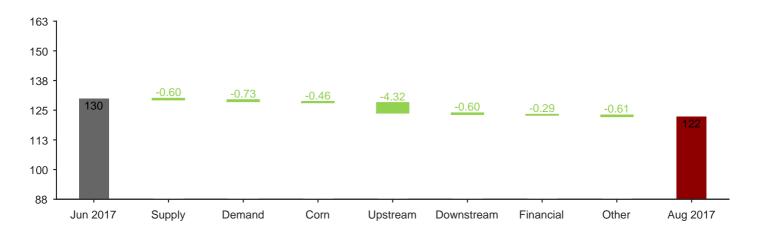
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## **Impact Analysis: Two Months Forecast**



Our algorithm forecasts a lower price of Corn in two months: it is expectable that the price decreases 5.85% from 130€ to 122€ until the beginning of August.

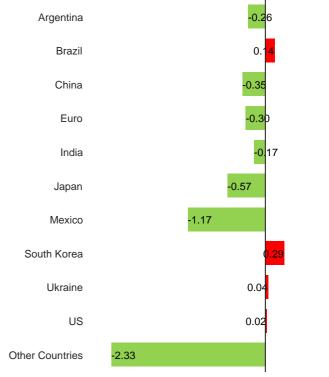
#### **Indices of Factors**



#### Interpretation

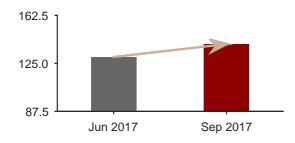
- Increase of Supply: Negative pressure of the Supply index
- Decrease of Demand: Negative pressure of the Demand index
- Negative pressure of the index of Corn
- Considerably negative pressure of the index of variables representing the market upstream
- Negative pressure of the index of variables representing the market downstream
- Negative pressure of the financial index
- Negative pressure of other commodities and other factors
- Focus on Mexico, Japan, and Colombia

# Impact per Country



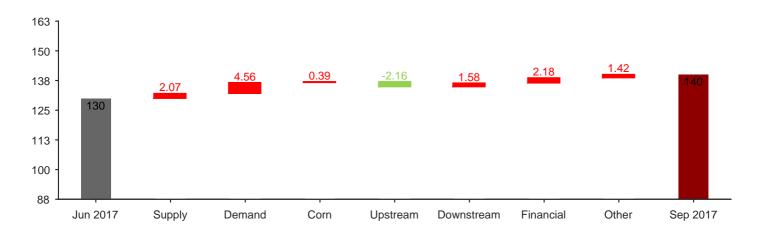
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## **Impact Analysis: Three Months Forecast**



Our algorithm forecasts a higher price of Corn in three months: it is expectable that the price increases 7.72% from 130€ to 140€ until the beginning of September.

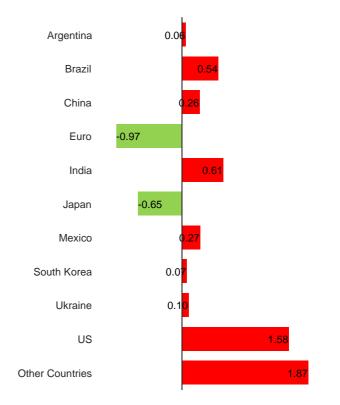
#### **Indices of Factors**



#### Interpretation

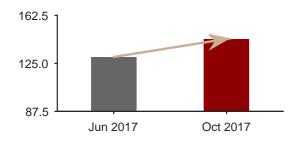
- Decrease of Supply: Positive pressure of the Supply index
- Considerable increase of Demand: Positive pressure of the Demand index
- Slightly positive pressure of the index of Corn
- Negative pressure of the index of variables representing the market upstream
- Positive pressure of the index of variables representing the market downstream
- Positive pressure of the financial index
- Positive pressure of other commodities and other factors
- Focus on Canada, US, and Euro

## Impact per Country



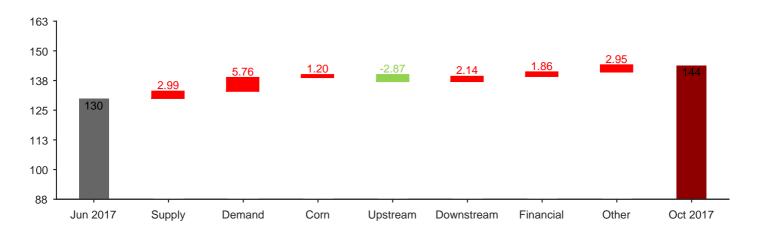
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## **Impact Analysis: Four Months Forecast**



Our algorithm forecasts a higher price of Corn in four months: it is expectable that the price increases 10.79% from 130€ to 144€ until the beginning of October.

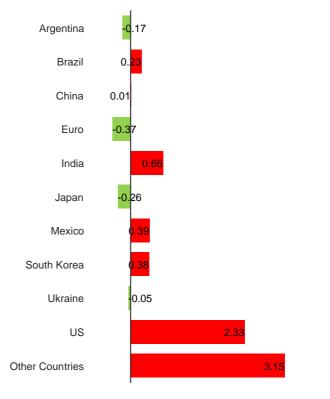
#### **Indices of Factors**



#### Interpretation

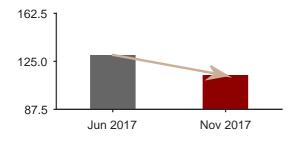
- Decrease of Supply: Positive pressure of the Supply index
- Considerable increase of Demand: Positive pressure of the Demand index
- Positive pressure of the index of Corn
- Negative pressure of the index of variables representing the market upstream
- Positive pressure of the index of variables representing the market downstream
- Positive pressure of the financial index
- Positive pressure of other commodities and other factors
- Focus on Canada, US, and Egypt

## Impact per Country



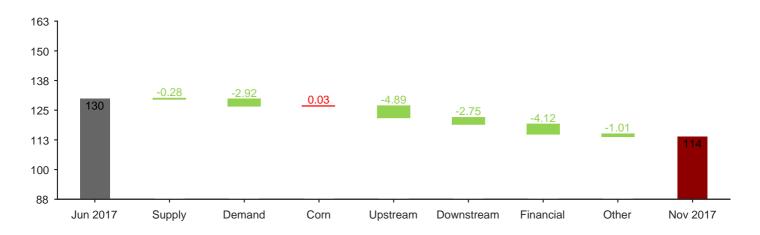
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## **Impact Analysis: Five Months Forecast**



Our algorithm forecasts a lower price of Corn in five months: it is expectable that the price decreases 12.26% from 130€ to 114€ until the beginning of November.

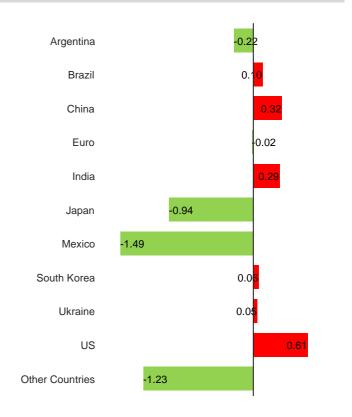
#### **Indices of Factors**



#### Interpretation

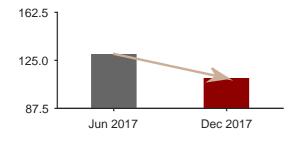
- Slight increase of Supply: Negative pressure of the Supply index
- Decrease of Demand: Negative pressure of the Demand index
- Slightly positive pressure of the index of Corn
- Considerably negative pressure of the index of variables representing the market upstream
- Negative pressure of the index of variables representing the market downstream
- Considerably negative pressure of the financial index
- Negative pressure of other commodities and other factors
- Focus on Mexico, Egypt, and Taiwan

#### **Impact per Country**



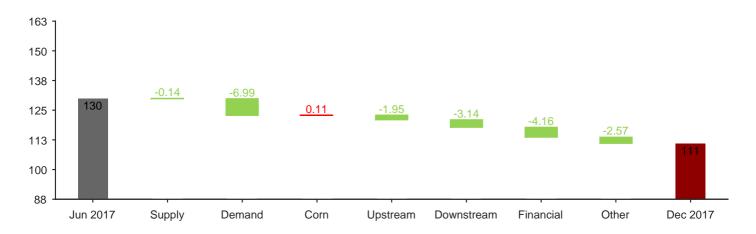
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## **Impact Analysis: Six Months Forecast**



Our algorithm forecasts a lower price of Corn in six months: it is expectable that the price decreases 14.49% from 130€ to 111€ until the beginning of December.

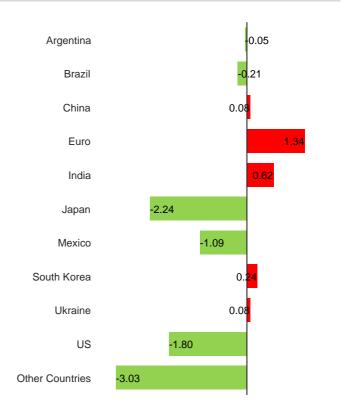
#### **Indices of Factors**



#### Interpretation

- Slight increase of Supply: Negative pressure of the Supply index
- Considerable decrease of Demand: Negative pressure of the Demand index
- Slightly positive pressure of the index of Corn
- Negative pressure of the index of variables representing the market upstream
- Negative pressure of the index of variables representing the market downstream
- Considerably negative pressure of the financial index
- Negative pressure of other commodities and other factors
- Focus on Egypt, Japan, and US

#### **Impact per Country**



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### **APPENDIX – Technical Explanation of the Impact Analysis**

In this appendix, we explain the impact analysis of the factors that most contribute for our forecasts.

This Impact Analysis is conducted individually for **each time horizon**, allowing for a distinction between the indices of variables that contribute for our forecasts at short and medium run.

For each time horizon, our analysis has **two components**: first, we present the impact of variables grouped by **indices of factors**; second we present the impact of variables grouped by **indices of countries**.

#### **Indices of Factors**

**Indices of factors** are indices of the weighted contributions of the variables grouped in those factors.

**Supply Index**: composed of macroeconomic variables of the producing and exporting countries. It includes variables such as production, exchange rates, inflation, monetary policy, and wages. For example, an increase in wages implies higher production costs which should (in linear, general, and ceteris paribus terms) generate an incentive to increase prices;

**Demand index**: composed of macroeconomic variables of the consuming and importing countries. It includes variables such as production, exchange rates, inflation, monetary policy, and wages. For example, a decrease in a consumer confidence index should (in linear, general, and ceteris paribus terms) increase savings and decrease demand, leading to lower prices;

**Corn Index**: composed of variables related to Corn. It includes variables such as the price of Corn in different regions of the world and exports, imports, and producer prices of Corn in some countries. For example, an increase in the price of Corn in other region may imply an increase in the price of Corn in Europe due to arbitrage movements;

**Upstream index**: composed of variables related to Weather and Fertilizers. It includes variables such as the price and exports, imports, and producer prices of the inputs in some countries. For example, an increase in the price of Fertilizers should (in linear, general, and ceteris paribus terms) generate an increase in the price of Corn;

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### **APPENDIX – Technical Explanation of the Impact Analysis (II)**

**Downstream index**: composed of variables related to the Feed Industry. It includes variables such as the exports, imports, and prices of Pork, Poultry and Beef in some countries. For example, an increase in the demand of Pork should (in linear, general, and ceteris paribus terms) generate an increase in the price of Corn:

**Financial Variables Index**: composed of financial market variables. It includes the share price of companies that produce Corn. It also includes financial indices related to this sector. For example, a positive change in the share price of a producer of Corn should (in linear, general, and ceteris paribus terms) imply an increase in expected profitability of the firm. This may signal an expectation of increase in the price of Corn;

Other Variables Index: composed of variables related to other cereals, such as Soybean Meal and Wheat. It includes the price, exports, and imports of these commodities. For example, a positive change in the price of a substitute commodity, should (in linear, general, and ceteris paribus terms) imply an increase of demand of Corn, and thus, of the price of Corn.

#### **Indices of Countries**

**Indices of Countries**: are indices of the weighted contributions of the macroeconomic variables of each country. The countries we present are the most relevant countries in the production, consumption, and international commerce of Corn.

## **Interpretation Warning**

It is important to note that the contribution of individual variables and indices of variables is not linear. The interaction between variables and between variables of different factors may not be neglectable, which means that the importance of each variable and indices of variables is determined together with the importance of all other variables.

Furthermore, the analysis of changes in variables is not linear. This means that the same variable with the same change in different moments of time may have different impacts given its previous evolution. For example, the algorithm contrasts the change in a variable with its expected change. A positive change but inferior to the expected change may originate an effect of price correction.

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