Commodity Soybean Meal (CBT)

Forecast Period April 2017 – September 2017

CurrencyCents (€)UnitBushel

**Observations** Monthly forecasts of the average

spot price in the last week of the

previous month



### **Forecasts**



Month/Year	Forecast	Prob. of Raise
Apr. 2017	320c€	53 %
May 2017	299c€	45 %
Jun. 2017	340c€	57 %
Jul. 2017	280c€	41 %
Aug. 2017	279c€	37 %
Sep. 2017	271c€	32 %

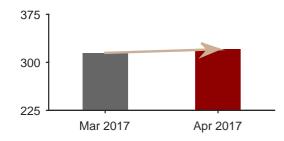
## **Suggested Action for Procurement**

Purchase Limit Month	Suggested Action	
April 2017	Buy in March at 315cc€	
May 2017	Buy part of requirements	
June 2017	Buy part of requirements	
July 2017	Buy part of requirements	
August 2017	Buy part of requirements	
September 2017	Buy part of requirements	

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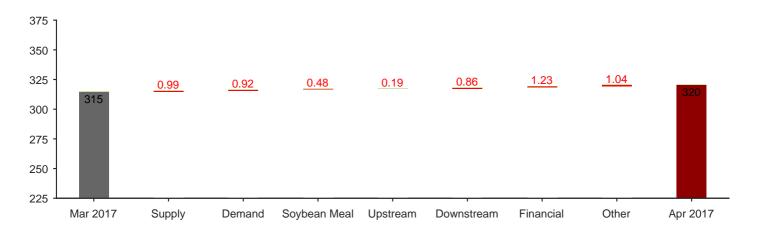
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## **Impact Analysis: One Month Forecast**



Our algorithm forecasts a higher price of Soybean Meal in one month: it is expectable that the price increases 1.81% from 315c€ to 320c€ until the beginning of April.

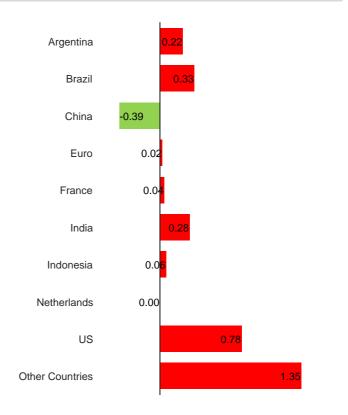
### **Indices of Factors**



#### Interpretation

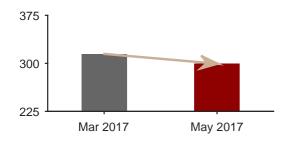
- Decrease of Supply: Positive pressure of the Supply index
- Increase of Demand: Positive pressure of the Demand index
- Positive pressure of the index of Soybean Meal
- Slightly positive pressure of the index of variables representing the market upstream
- Positive pressure of the index of variables representing the market downstream
- Positive pressure of the financial index
- Positive pressure of other commodities and other factors
- Focus on Mexico, US, and Germany

#### **Impact per Country**



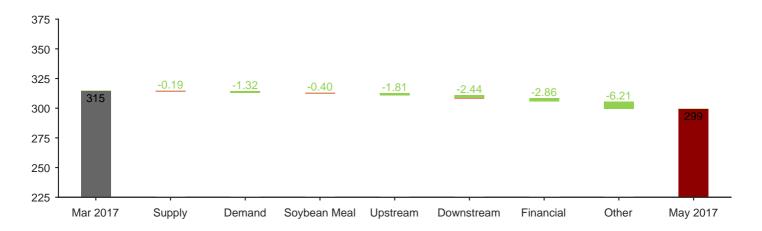
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### **Impact Analysis: Two Months Forecast**



Our algorithm forecasts a lower price of Soybean Meal in two months: it is expectable that the price decreases 4.83% from 315c€ to 299c€ until the beginning of May.

### **Indices of Factors**



#### Interpretation

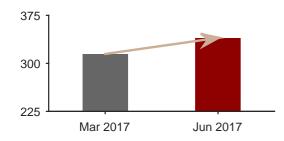
- Slight increase of Supply: Negative pressure of the Supply index
- Decrease of Demand: Negative pressure of the Demand index
- Slightly negative pressure of the index of Soybean Meal
- Negative pressure of the index of variables representing the market upstream
- Negative pressure of the index of variables representing the market downstream
- Negative pressure of the financial index
- Considerably negative pressure of other commodities and other factors
- Focus on US, Mexico, and Russia

#### Impact per Country



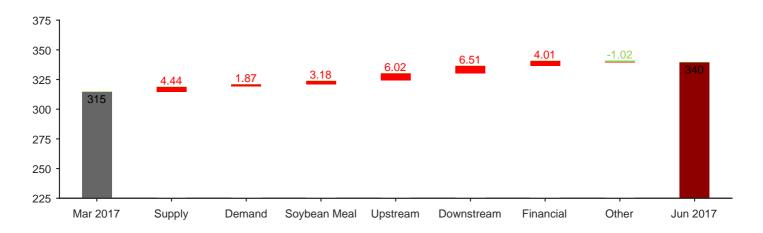
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## **Impact Analysis: Three Months Forecast**



Our algorithm forecasts a higher price of Soybean Meal in three months: it is expectable that the price increases 7.94% from 315c€ to 340c€ until the beginning of June.

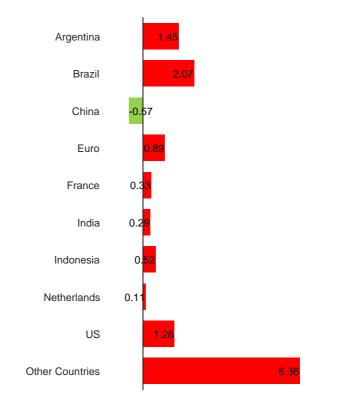
### **Indices of Factors**



#### Interpretation

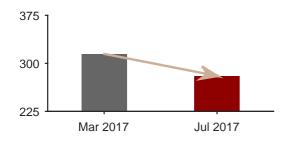
- Decrease of Supply: Positive pressure of the Supply index
- Increase of Demand: Positive pressure of the Demand index
- Positive pressure of the index of Soybean Meal
- Considerably positive pressure of the index of variables representing the market upstream
- Considerably positive pressure of the index of variables representing the market downstream
- Positive pressure of the financial index
- Negative pressure of other commodities and other factors
- Focus on Brazil, Russia, and Argentina

## Impact per Country



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



Our algorithm forecasts a lower price of Soybean Meal in four months: it is expectable that the price decreases 10.89% from 315c€ to 280c€ until the beginning of July.

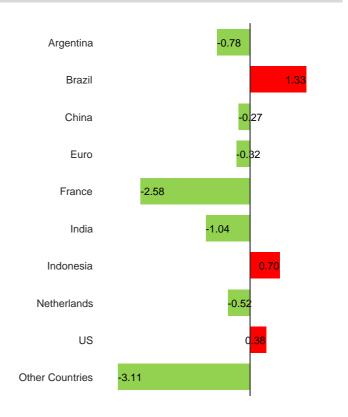
### **Indices of Factors**



#### Interpretation

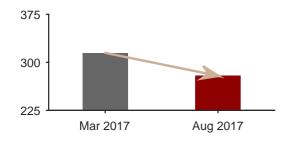
- Increase of Supply: Negative pressure of the Supply index
- Decrease of Demand: Negative pressure of the Demand index
- Slightly positive pressure of the index of Soybean Meal
- Negative pressure of the index of variables representing the market upstream
- Slightly negative pressure of the index of variables representing the market downstream
- Considerably negative pressure of the financial index
- Considerably negative pressure of other commodities and other factors
- Focus on France, Japan, and Brazil

#### **Impact per Country**



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



Our algorithm forecasts a lower price of Soybean Meal in five months: it is expectable that the price decreases 11.34% from 315c€ to 279c€ until the beginning of August.

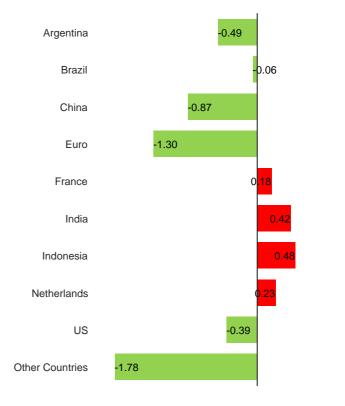
### **Indices of Factors**



#### Interpretation

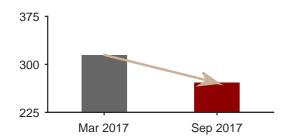
- Considerable increase of Supply: Negative pressure of the Supply index
- Decrease of Demand: Negative pressure of the Demand index
- Positive pressure of the index of Soybean Meal
- Considerably negative pressure of the index of variables representing the market upstream
- Negative pressure of the index of variables representing the market downstream
- Considerably negative pressure of the financial index
- Considerably negative pressure of other commodities and other factors
- Focus on Belgium, Italy, and Germany

## Impact per Country



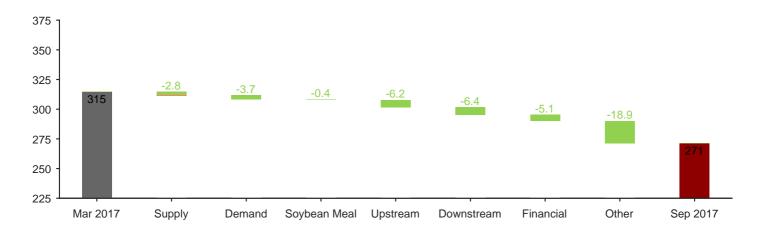
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## **Impact Analysis: Six Months Forecast**



Our algorithm forecasts a lower price of Soybean Meal in six months: it is expectable that the price decreases 13.82% from 315c€ to 271c€ until the beginning of September.

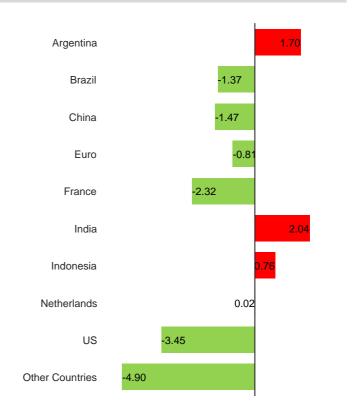
### **Indices of Factors**



#### Interpretation

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

#### **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;

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

**Upstream index**: composed of variables related to Soybean, 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 Soybean Meal;

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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 Soybean Meal;

Financial Variables Index: composed of financial market variables. It includes the share price of companies that produce Soybean Meal. It also includes financial indices related to this sector. For example, a positive change in the share price of a producer of Soybean Meal 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 Soybean Meal;

Other Variables Index: composed of variables related to other cereals, such as Corn 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 Soybean Meal, and thus, of the price of Soybean Meal.

### **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 Soybean Meal.

## **Interpretation Warning**

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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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