# Phosphate Outlook

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**World Agriculture Overview** 

#### **World Grain\* Production**

**Grain Production Expected to Decline 4 Percent in 2010** 

Percent Production Change - 2010F vs 2009



\*Grain includes wheat and coarse grains

Source: USDA, World Commodity Analysis Corporation, Doane, Brilliant Pioneer Consultants, PotashCorp



#### World Grain Production and Consumption Production Shortfall in 8 of the Last 12 Years



Based on crop year data. For example, 2010F refers to the 2010/11 crop year. Grain includes coarse grains and wheat

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Source: USDA November 2010

#### **World Grain Stocks**

Strong Demand and Production Issues in Key Growing Regions Have Tightened Stocks



Based on crop year data. For example, 2010F refers to the 2010/11 crop year. Grain includes coarse grains and wheat



Source: USDA November 2010

#### US Corn Ending Stocks Lower Yields Tighten Corn Stocks



2010F scenarios refer to the 2010/11 crop year

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Source: USDA November 2010, PotashCorp

# **Agriculture Commodity Prices**

Higher Prices Reflect the Long-Term Challenge of Meeting Rising Demand for Food

Percentage Increase Compared to 2000-2009 Average



Source: World Bank

#### US Wheat, Corn and Soybean Futures Prices Expected to Remain Above Historical Averages



Source: CBOT Futures as of Mid-November

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#### **Crop Return Over Variable Costs**

Prices Have Strengthened Significantly Leading to Projected Record Returns







Phosphate Use by Crop and Region

# World Phosphate Use by Crop and Region

**Strong Demand for Grains and Oilseeds Supports Phosphate Fertilizers** 



# **China Phosphate Use and Crop Production**

**Rising Crop Production Drives Phosphate Fertilizer Consumption** 



**Phosphate Use by Crop** 

Source: IFA, USDA, PotashCorp



#### India Phosphate Use by Crop and Food Grain Production **Rapidly Rising Food Grain Production Supports Phosphate Fertilizer Applications**



**Phosphate Use by Crop** 

Source: IFA, USDA, PotashCorp



#### **Brazil Phosphate Use and Major Crop Production** Rising Production of Phosphate Intensive Crops



**Phosphate Use by Crop** 

Source: IFA, USDA, FAO, PotashCorp



#### US Phosphate Use by Crop and Major Crop Production Strong Growth in Production of Major Phosphate Consuming Crops





#### World Phosphate Rock Production and Demand Concentration of Rock Reserves



#### New Global Phosphate Rock Supply vs Demand Global Phosphate Rock Market Expected to Be Tight to Balanced





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Source: Fertecon, PotashCorp

### **Morocco Phosphate Rock Export Price**

**Rock Prices Remain Above Historical Levels** 

\$US/Tonne Rock FOB Casablanca 70-72% BPL



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#### New Global Phosphoric Acid Capacity\* vs Demand Limited New Phosphoric Acid Capacity Expected Until 2013





\*Capacity includes several projects classified by sources as uncertain, and excludes projects classified as unlikely



Source: CRU, Fertecon, FMB, PotashCorp

#### Global Phosphoric Acid Production and Operating Rate Expect Relatively Tight Market in the Medium Term

Million Tonnes P<sub>2</sub>O<sub>5</sub>

**Operating Rate Percentage** 

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## World DAP and MAP Shipments\*

**Growth in Shipments Expected to Continue in 2011** 





\*IFA Shipments represent approximately 90% of the world market



Source: IFA, Fertecon, PotashCorp

#### World DAP and MAP Exports

Growth in World DAP and MAP Trade Expected to Continue in 2011







### **World DAP and MAP Imports**

India Accounts for Approximately 40 Percent of World DAP and MAP Trade



Million Tonnes Product

Source: Fertecon



#### **China DAP and MAP Imports and Exports**

China's Trade Balance Dependent on Tax Policy and International Phosphate Prices

Million Tonnes DAP Imports

Million Tonnes, DAP and MAP Exports



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# **India DAP Supply**

India's Demand for DAP Expected to Remain Strong in 2011

**Million Tonnes DAP** 



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# India P<sub>2</sub>O<sub>5</sub> Consumption Growth

**Rapid Growth in Phosphate Fertilizer Consumption** 

Million Tonnes P<sub>2</sub>O<sub>5</sub>, Cumulative Growth



Source: Fertecon

#### **Brazil DAP and MAP Supply Rising Domestic Production and Imports**



**Million Tonnes Product** 

Source: Fertecon, PotashCorp



#### **US Producers' DAP and MAP Production and Sales** Domestic Sales Rebound in 2010 and Are Expected to Strengthen in 2011



Source: TFI, PotashCorp

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#### US Producers' DAP and MAP Ending Inventories DAP and MAP Ending Inventories Near Record Low Levels

**Million Short Tons** 



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Source: TFI

#### Tampa DAP Price Prices Strengthen on Strong Demand



**\$US/Tonne FOB Tampa** 

Source: Fertecon



# Non-Integrated Phosphate Producer Cost

**Higher Input Costs Provide Support for Higher Phosphate Prices** 



\$US/Tonne of DAP

Source: Fertecon, PotashCorp

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#### **Factors to Watch**

- Current strong phosphate demand in all major markets
- Significantly reduced producer inventories
- Impact of China's export policy on the market
- Timing of commercial production from Ma'aden



# Thank You



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