

## In 2010

- Paraguay has successfully grown RR<sup>®</sup>soybean for seven years since 2004
- Paraguay grew a total of 2.7 million hectares of soybean, of which 2.6 million hectares (approximately 95% adoption) were biotech herbicide tolerant soybean; this compares with 2.2 million hectares of biotech soybean in 2009 out of a total of 2.6 million hectares.
- The increase in 2010 was due to more total plantings of soybean and a higher adoption rate.



- Paraguay could be a potential biotech maize and cotton producer since they plant more than 600,000 hectares of maize and 50,000 hectares of cotton in 2010, and its neighboring countries Argentina and Brazil have been planting and reaping the benefits from both biotech crops.

## Benefits from Biotech Crop in Paraguay

- The economic gain over the period 2004 to 2009 was US\$572 million and the benefits for 2009 alone was US\$69 million.

### Excerpts from:

James, Clive. 2010. Global Status of Commercialized Biotech/GM Crops: 2010. *ISAAA Brief No. 42*. ISAAA: Ithaca, New York.

### Other Sources:

The World Bank. <http://www.worldbank.org/>  
Food and Agriculture Organization of the United Nations. <http://www.fao.org/countryprofiles/>

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## Biotech Crop Adoption

- Paraguay is the world's number four exporter of soybeans and grew biotech soybean unofficially for several years until it approved four herbicide tolerant soybean varieties in 2004.
- Paraguay is one of the 11 countries that have successfully grown biotech soybeans; the eleven countries, listed in order of biotech soybean hectarage are the USA, Argentina, Brazil, Paraguay, Canada, Bolivia, Uruguay, South Africa, Mexico, Chile and Costa Rica.

Population: **6.3 million**  
GDP: **US\$14 billion**  
GDP per Capita: **US\$2,130**  
Agriculture as % GDP: **23%**  
Agricultural GDP: **US\$3.74 billion**  
% employed in agriculture: **26.7%**  
Arable Land (AL): **4.3 million hectares**  
Ratio of AL/Population\*: **3.0**

\*Ratio: % global arable land / % global population

### Major crops:

- Cassava
- Maize
- Soybean
- Wheat
- Sugarcane

Commercialized Biotech Crops: **HT Soybean**

Total area under biotech crops and (%) increase in 2010:

**2.6 Million Hectares (+18%)**

Farm income gain from biotech, 2004-2009: **US\$572 million**