

THE GLOBAL IMPACT of Biotech Crops



BIOTECHNOLOGY-IMPROVED CROPS ARE RAISING FARM INCOMES, INCREASING PRODUCTIVITY AND DELIVERING IMPORTANT ENVIRONMENTAL BENEFITS.

ECONOMIC BENEFITS

In 2011 alone

Worldwide income increased by

Equalling an average gain of

\$19.8B

\$133 per hectare

Between 1996-2011

49%

Increase in income from farm incomes yield gains

\$98.2B

\$43.4B Increase in Increase in the US globally



IL.

INCREASED YIELD

Between 1996 and 2011, crop biotechnology was responsible for an additional:



15.9_M metric tons of cotton



195_M metric tons of corn

TO MAINTAIN CURRENT YIELDS WITHOUT THESE BIOTECH CROPS **WOULD REQUIRE 15.3 MILLION MORE HECTARES** OF LAND - AN AREA LARGER THAN THE TOTAL FARM LAND PLANTED TO PRINCIPA CROPS IN THE STATES OF INDIANA AND ILLINOIS IN 2011.1





ENVIRONMENTAL BENEFITS

REDUCED PESTICIDE USE

Between 1996 and 2011, biotechnology reduced the amount of pesticide used by 474 million kilograms

Leading to an 18.1% reduction² in the environmental impact of insecticides and herbicides



Biotech crops require less fuel and less tillage. In 2011, this reduced CO2 emissions by 23 billion kilograms



Equal to taking 10.2 million cars off the road for one year

For more information, please visit www.pgeconomics.co.uk