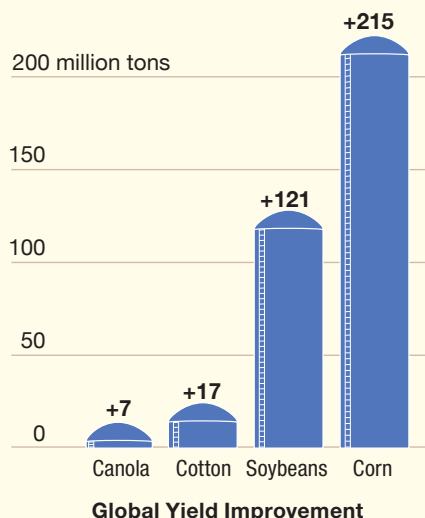


BIOTECH PAYS OFF

Estimates suggest that by the year 2050, agriculture will need to increase food production by 70 percent to feed the growing global population. Genetically Modified (GM) crops are proving an important resource for reaching this critical goal. A recent report, *GM Crops: Global Socio-Economic and Environmental Impacts 1996–2011*,* by Graham Brookes and Peter Barfoot, shows the game-changing nature of these products. As scientists build on innovative biotech traits for challenges such as water optimization and rootworm control, the benefits of GM crops will continue to grow.

THE BENEFITS OF GM CROPS

Whether you're looking at yield improvements, income gains or environmental factors, the numbers show that GM crops deliver significant, long-term advantages.



“The committee’s decision to award the World Food Prize to biotechnology researchers will help consumers understand the value, utility and safety of genetically engineered crops.”

—MARY-DELL CHILTON, PH.D.,
Syngenta Biotechnology Founder
and 2013 World Food Prize Laureate

FARM INCOME BENEFIT
FROM YIELD GAINS

\$50.2 Billion



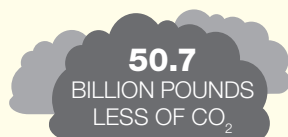
+ PRODUCTION
COST SAVINGS

\$48 Billion

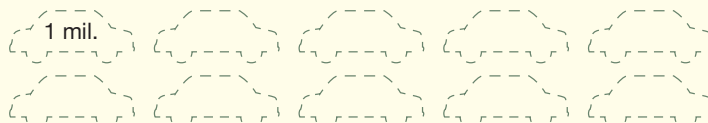


= \$98.2 Billion

Total Global Farm Income Gain



=

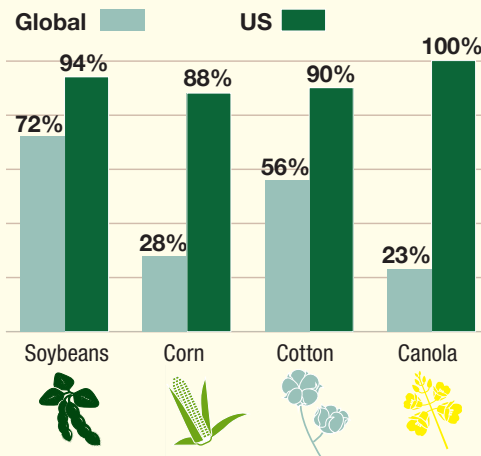
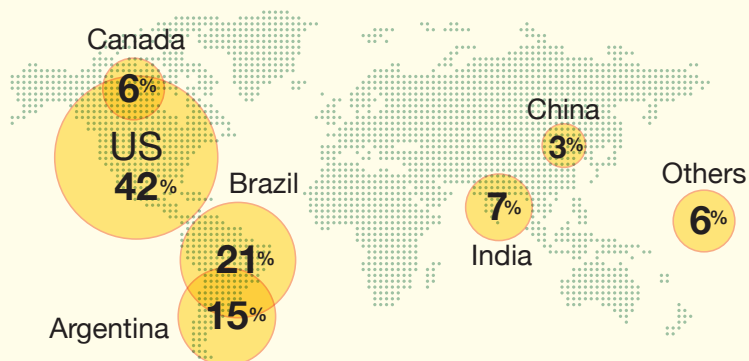


10.2
MILLION CARS
OFF THE ROAD
FOR ONE YEAR

We all breathed a little easier in 2011, thanks to conservation tillage.†

US LEADS IN THE ADOPTION OF GM CROPS

While GM crops are a major step forward for global agriculture, some countries are further along with their adoption of it than others. The U.S. shows strong leadership in the GM sector.



*Brookes, Graham and Peter Barfoot. *GM Crops: Global Socio-Economic and Environmental Impacts 1996–2011*. Dorchester, UK: PG Economics Ltd., 2013.

†Conservation tillage has been widely adopted in connection with GM crops.