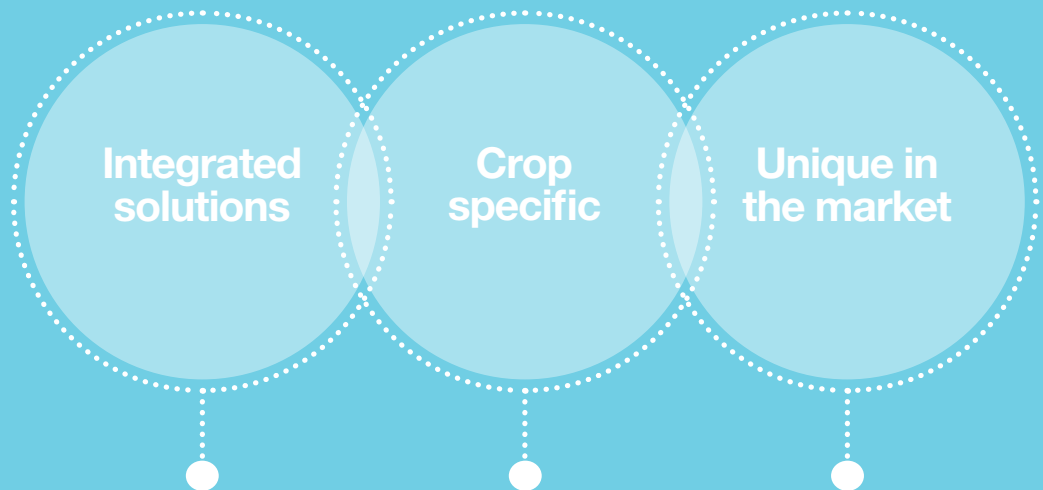


Innovating across technologies and addressing growers' needs

Farmers think about their land and their crops in a holistic, integrated way. By doing the same, we equip ourselves to create truly innovative and transformative technologies focused on a crop rather than a specific scientific discipline. We look beyond single products to create complete solutions. And increasingly, we look beyond yield alone to complete solutions that benefit both people and the land.



Integrated solutions

Integrated solutions

We are moving beyond single products and developing game-changing technologies.

Crop specific

Crop specific

To meet growers' needs, we are focusing on crops and harnessing our experience from around the world.

Unique in the market

Unique in the market

With our broad technical expertise and global teams, we are uniquely placed to translate our insights into solutions.

Corn



Sales in Corn US\$m



2011 sales
US\$2,714m

Target sales US\$m

2015	>3,000
Post 2015	>4,000

All crop sales in this section are based on Syngenta estimates.

Piloting water solutions in the USA

“We are going to have an entire program that we can lay out to our growers and say this is the way corn needs to be raised.

Bill John

Retailer, Norder Supply
Scott City, Kansas, USA

More online
www.syngenta.com/ar2011

Corn is grown worldwide, with animal feed and food accounting for around 90 percent of production. Meat consumption in Asia-Pacific is a major demand driver. In addition, the use of corn-based ethanol in the USA has expanded, although globally ethanol only takes up 10 percent of production. Corn yields have increased significantly over the last 20 years with the advent of new technology, but they have failed to keep pace with rising world consumption.

China is the world's second largest corn producer after the USA and in 2011 was able to increase output. However, growing domestic demand still resulted in a supply shortfall, necessitating a sharp increase in imports. Meanwhile, although US growers increased their 2011 corn acreage to record levels, adverse weather through the season meant that yields were below expectations. These events led to a reduction in global corn stocks and to upward pressure on prices.

Raising productivity to meet demand

Corn is the largest crop for Syngenta. Diminishing stocks highlight the urgency of applying technology more widely to combat challenges from pests and adverse conditions and to enhance productivity. Our world-leading crop protection portfolio is now being combined with an expanded corn seed business and rich genetically modified traits portfolio. We believe that the integrated offer will be uniquely placed to meet the complex challenges facing corn growers.

Major trait launches, enhanced US portfolio

In 2011, as part of the transformation of our US seed offer, we introduced three groundbreaking new traits. AGRISURE® VIPTERA™ is a breakthrough in insect control that won the 2010 Agrow award for Best Novel Agriculture Biotechnology. It provides unrivaled levels of protection against 14 above-the-ground chewing pests.

ENOGEN® is the first output trait in corn, enabling plants to produce an enzyme that accelerates conversion of starch to sugar in the ethanol plant. This makes the corn-to-ethanol process faster and more efficient, improving its carbon footprint and cutting process costs by US\$0.08-11 a gallon.

AGRISURE® ARTESIAN™ is the first water optimization trait to reach the market. It is a native trait solution enabling plants to grow better under water stress, without the penalty of yield drag under normal moisture conditions.

In addition to our trait introductions, we have continued to improve germplasm quality and have demonstrated hybrid outperformance across all maturities.

Our proprietary seed care portfolio is a key element of our corn offer. CRUISER®, in addition to controlling more than 25 insects, promotes root development and leaf greening. AVICTA®, the first nematicide seed treatment, is critical in addressing a pest that affects some 80 percent of corn acres.

Sales of the fungicide mixture QUILT XCEL® are expanding rapidly, as a result of its crop enhancement benefits in the form of yield, quality and ease of harvesting.



We are finding ways of incorporating additional, related technologies into our corn offer through partnerships with other companies. For example, we have worked with Lindsay, a manufacturer of crop irrigation equipment, to help growers maximize corn yield per gallon of water used. Together, we have pioneered an irrigation system that delivers not only water but also crop protection products with efficiency and precision.

A global corn business

In Latin America, corn is assuming greater importance in a market traditionally dominated by soybean. Syngenta is at the forefront of biotech trait expansion with the launch of Brazil's first triple corn stack including VIPTERA™ for the 2011/12 season. In November, the triple stack was also approved in Argentina and will form part of our integrated offer including market-leading seed care and crop protection.

In Asia, double stacks are already being sold in the Philippines and will be followed by triple stacks in 2012. Vietnam will see our first trait launches in 2012.

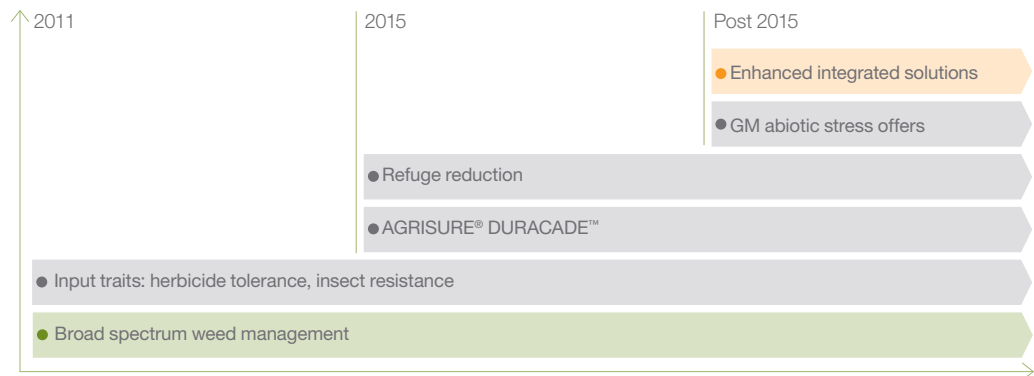
Our strategy in Europe is focused on excellence in crop protection and on expanding our seeds presence. In CIS, where yields lag well behind Western European levels, we will build on our market leadership to increase grower awareness of the benefits of crop protection use in enhancing plant performance as well as protecting yield.

The average yield for US corn growers is 10 tons per hectare; the worldwide average is half that. Syngenta's objective is to narrow the yield gap by maximizing yield for growers across the world – delivering global technology in locally tailored solutions.

Creating future value

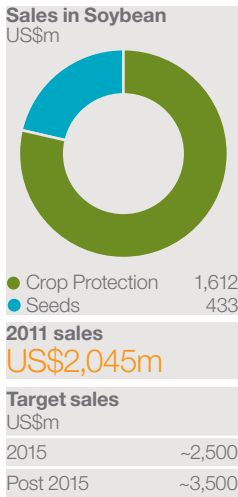
Our product pipeline has the potential to take our corn-related sales over US\$4 billion post 2015. We will continue to strengthen our complete offering, with innovation across herbicides, insecticides, fungicides, biotech traits and germplasm. Key priorities will be agronomic and water solutions and the extension of a full technology offer to Latin America and Asia.

Corn pipeline highlights



- Integrated Solutions
- Seeds
- Crop Protection

Soybean



Soybean is the world's primary source of protein and edible oil, and it is also used in a wide range of industrial products. Demand is global but just three countries – the USA, Brazil and Argentina – account for over 80 percent of production. Latin American growers are increasing planted acres and have significantly expanded productivity but continue to face the challenge of multiple pests and diseases. Syngenta has the broadest portfolio for crop protection and is the leader in the control of soybean rust, a disease that can cause 80–100 percent crop loss if untreated. Growth in our leading fungicide mixture PRIORI XTRA® has been augmented as we have shown growers the benefits of early preventative applications.

Disease is less prevalent in the USA but weed resistance to glyphosate is an increasing problem. We moved early to address this issue and now offer growers six pre- and post-emergence options in ready-to-use formulations.

In seeds, the development of a cross-regional platform and the introduction of molecular assisted breeding have reduced the development time for new varieties by two years.

Over the past five years, Syngenta has delivered a 2 percent annual yield improvement – twice the industry average – in the key MG3 US soybean growing area. In 2011, we introduced numerous new varieties in several countries, including for the first time varieties for the important MG8 segment in the Brazilian Cerrado.

Integration brings performance and convenience

In the USA we have introduced fully integrated soybean offers including the Syngenta AMS APHID MANAGEMENT SYSTEM™, which combines genetics containing an aphid-resistant native trait with CRUISER MAXX® seed treatment, followed by a crop protection protocol.

Over 80 percent of our soybean varieties have been bred to incorporate genetic resistance to cyst nematodes, a highly destructive pest. We are studying new modes of action for nematode control to be added to this platform and in 2011 announced an exclusive global technology partnership with Pasteuria Bioscience Inc. to develop innovative bio-nematicidal products. In addition, AVICTA® COMPLETE seed treatment combines four different active ingredients for unprecedented disease, insect and nematode control.

Similarly, in Latin America, we are developing integrated solutions such as PLENUS™ in Argentina. This combines quality germplasm with professionally applied seed treatment and a long-life inoculant, which offers growers a clear crop enhancement effect in addition to convenience and complete pest control.

Creating future value

Our pipeline contains innovative technologies for both Latin and North America. We are planning the launch of SOLATENOL™ – a fungicide effective against triazole-resistant rust – in combination with new rust-tolerant native traits, thereby extending our leadership position in rust control. Further ahead, we are developing new modes of action for weed management, including a second generation trait with mesotrione tolerance, as well as new modes of action for insect control.

Integrated offer for soybean

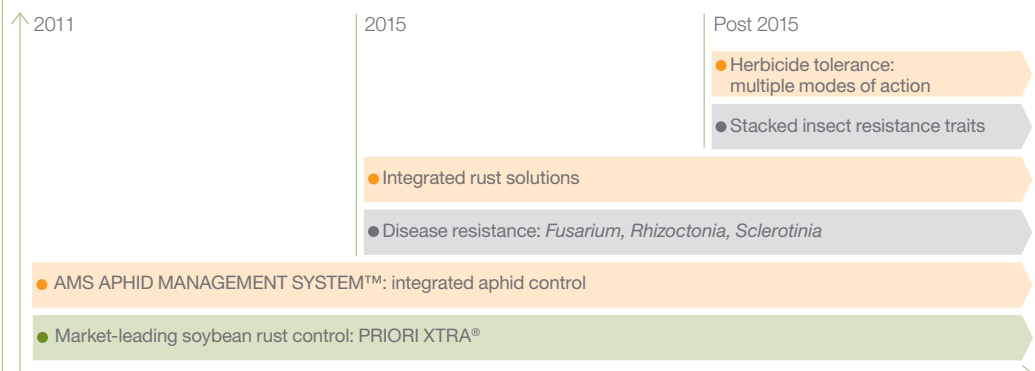
“My average yield was 65 bags per hectare; now I've already reached 108 bags per hectare. Syngenta helped me 100 percent.”

Leandro Sartorelli Ricci
Soybean grower
Santo Antonio Farm
Mamoré, Paraná State, Brazil

More online
www.syngenta.com/ar2011



Soybean pipeline highlights



● Integrated Solutions
● Seeds
● Crop Protection