



syngenta®

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Syngenta
Sustainable Solutions

Sustainability in Agriculture

A responsible supply chain is a growing priority.

By 2050, our planet will have an estimated two billion more people to feed, two times more food to produce and 30 percent less farmland per capita. These looming realities are generating tremendous interest in agricultural sustainability.

As consumers begin to demand foods that respect transparency and social responsibility, retailers are stepping up to the plate, forming purchasing decisions on the basis of sustainable sourcing and recognizing suppliers that fulfill their sustainability commitments.

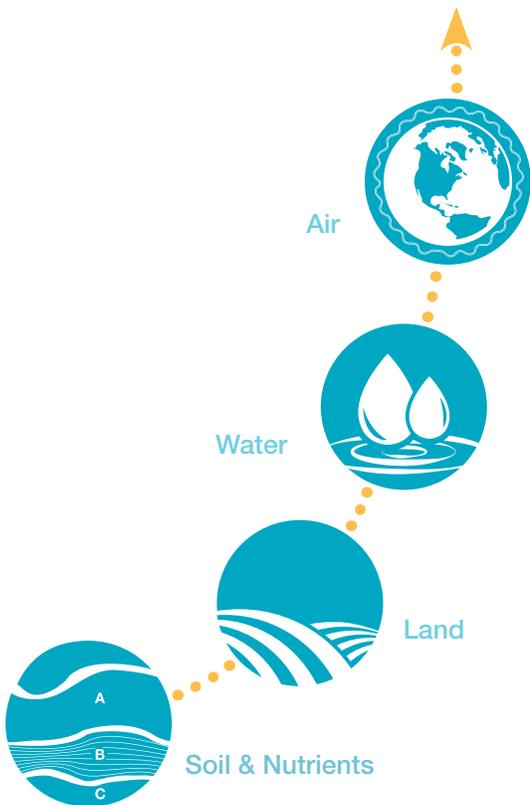


Defining sustainable agriculture

Sustainable agriculture means meeting the needs of the present while improving the ability of future generations to meet their own needs by:

- Increasing productivity to meet future food, fuel and fiber demands
- Protecting the environment
- Improving human health
- Improving the social and economic well-being of agricultural communities

Source: Field to Market®: The Alliance for Sustainable Agriculture



Commitments

Consumer packaged goods companies have made sustainability commitments and goals requiring food, feed and fiber suppliers to measure key sustainability indicators, including:

- Greenhouse gas emission reductions
- Water conservation and quality increases
- Yield increase
- Improved nutrient management and soil health



Creating shared value

Working together through on-the-ground projects, Syngenta growers and members of the food, fiber and fuel industries are helping to tell the story of sustainable production and promote continuous improvement. Supply chain partnerships are enabling education, information sharing and collaboration across the country.



Ease efforts with Land.db[®] farm management software

Growers enrolled in the AgriEdge Excelsior[®] program can track environmental efficiency indicators through Land.db[®], an exclusive, advanced farm management software developed by Ag Connections to help growers better manage their business. The software captures all information associated with the farm, including yield, timing of sprays, compliance reporting, input costs which then tracks, measures and examines each acre to see it's profitability. To put it simply, AgriEdge Excelsior helps growers maximize the data they're already recording and turn it into a benchmark for sustainable agriculture.

"AgriEdge Excelsior helps us improve our overall environmental footprint, allowing us to track the actual fuel usage and the inputs – insecticide, seed treatment, fertilizer, etc. – for every field, all the way from planting to harvest. Without the program it would be very hard to figure out the amount of energy invested into each bushel."

Shawn Lyberg

Grower, McMartin Farms,
St. Thomas, North Dakota

For more information, please visit www.AgriEdge.com

The Good Growth Plan

Syngenta believes that sustainability is an ongoing journey of continuous improvement that builds on current best management practices. Progress will be made through systems that combine leading technology with effective land management and benchmarks of key environmental efficiency:

- Not just bushels per acre, but water and energy use per bushel.
- Not just productivity, but efficiency, environmental quality and legacy.
- Technology is a key enabler. Modern agriculture is a success story of continuous improvement enabled by technology to grow more from less.



What we set out to do by 2020

One planet. Six commitments.

We believe

businesses must play a greater role in helping growers farm more sustainably

More food Less waste	More biodiversity Less degradation	More health Less poverty		
 <p>Make crops more efficient</p> <p>Increase average productivity of the world's major crops by 20% without using more land, water or inputs</p>	  <p>Rescue more farmland</p> <p>Improve the fertility of 25 million acres of farmland on the brink of degradation</p> <p>Help biodiversity flourish</p> <p>Enhance biodiversity on 12 million acres of farmland</p>	 <p>Empower smallholders</p> <p>Reach 20 million smallholders and enable them to increase productivity by 50%</p>	 <p>Help people stay safe</p> <p>Train 20 million farm workers on labor safety, especially in developing countries</p>	 <p>Look after every worker</p> <p>Strive for fair labor conditions throughout our entire supply chain network</p>

Syngenta Supports Sustainability in Agriculture

We are engaging in the sustainability dialogue through leadership roles in influential organizations.



Field to Market®

The Alliance for Sustainable Agriculture

Uniting the Supply Chain to Deliver Sustainable Outcomes for Agriculture

Field to Market®: The Alliance for Sustainable Agriculture is a diverse coalition working to create opportunities across the agricultural supply chain for continuous improvements in productivity, environmental quality and human well-being. The group provides collaborative leadership that is engaged in industry-wide dialogue, grounded in science, focused on outcomes and open to the full range of technology choices.

As a member in Field to Market: The Alliance for Sustainable Agriculture, Syngenta is supporting solutions for sustainability and continuous improvement in U.S. commodity agriculture.

“General Mills is one of the largest buyers of North American crops. Field to Market is a key part of General Mills’ sustainable sourcing strategy. Partnership projects represent coordinated deployment of Fieldprint calculations to measure improvement in U.S. grown crops. We believe the use of these measurements will both improve grower profitability and help preserve the essential resources of water, soil and air. Successful partnership projects allow us to spread this initiative across the agricultural industry.”

Steve Peterson

Retired Director of Sustainable Sourcing,
General Mills

Field to Market Environmental Indicators

1. Biodiversity
2. Energy Use Efficiency
3. Greenhouse Gas Emissions
4. Irrigated Water Use Efficiency
5. Land Use Efficiency
6. Soil Carbon
7. Soil Conservation
8. Water Quality



The Sustainability Consortium

TSC® is a global nonprofit organization dedicated to transforming the consumer goods industry by improving the sustainability of consumer products. TSC offers a portfolio of tools and services to help drive effective implementation focused on supply chain across the entire product lifecycle.

The Consortium represents 100+ of the world's leading corporations and organizations working together to create precompetitive, cross-sector solutions. TSC Research Database is one of the world's largest collections of scientific research on environmental and social hotspots and improvement opportunities within a product's life cycle.

Syngenta is a founding member of TSC, which collaboratively provides opportunities to learn about the issues and opportunities in consumer product sustainability, network with industry sustainability leaders and ultimately improve corporate social responsibility.

Retailers recognize suppliers that meet sustainability targets by featuring their products!





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