



Bayer ForwardFarming provides an up-close look at how farmers are practicing modern and climate-smart sustainable agriculture around the world. Unique in its global reach the Bayer ForwardFarming network serves as a platform for knowledge sharing and dialogue. ForwardFarmers deploy technologies and best practices to improve productivity, reduce agriculture-related greenhouse gas emissions, decrease the environmental impact of crop protection, promote biodiversity and conserve natural resources.

On the ForwardFarms, progress towards the Crop Science sustainability commitments truly comes to life.

Bayer ForwardFarming demonstrates solutions that support sustainability in agriculture across the following three components:

// **Care for Crops** – Every farm is different, and every field within a successful farming operation is unique. **Tailored Solutions** are needed to meet the needs of the individual farmer and their specific field – from the right seeds and traits to the correct type and amount of crop protection, to the digital tools and services that allow for good decision making and precision.

// **Care for the Planet and People** – Bayer ForwardFarming promotes and demonstrates **Proactive Stewardship** to protect human health and preserve the environment. Examples include addressing the safe and responsible use of crop protection products; soil health, biodiversity, and water conservation; and offering training in all of these areas.

// **Care for Partnerships** – Bayer ForwardFarming fosters **Partnerships** with value chain actors, research centers, universities, and other institutions to strengthen sustainable farming development.



For further information, visit our website:
www.forwardfarming.cn

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Key Cooperation Partners

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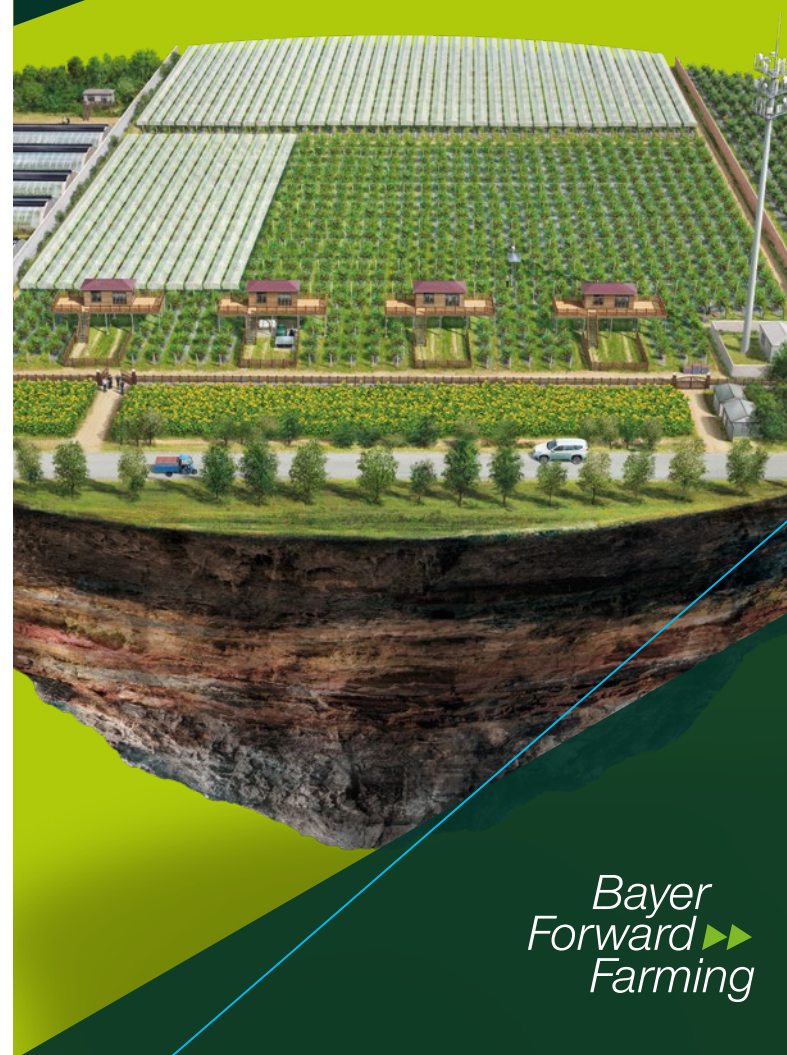


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One Step Ahead with Sustainable Agriculture

Jinguofeng Cooperative – China



Sustainable Agriculture in Practice

Beijing Jinguofeng Fruit Production and Marketing Professional Cooperative is located in the Pinggu District of Beijing, which is known as the “Peach Hometown of China”. The cooperative consists of 200+ farmers that grow more than 30 varieties on more than 33 ha.

The cooperative adheres to sustainable management and has received the “National Model Cooperative” award. In partnership with Bayer ForwardFarming the cooperative aims to further professionalize its production and sustainability efforts improving crop care, digitalization, reducing environmental impact, and optimizing resources management.



Introducing Jinguofeng Cooperative

Jinguofeng Cooperative
Chairman: ZHANG Haihe

CPC Secretary, Yinying
Village Branch: WANG Zhong



Location:

Xiying Village, Yukou Town, Pinggu District,
Beijing City



History:

“Beijing Jinguofeng Fruit Production and Marketing Professional Cooperative” was established in 2010 in the Pinggu District of Beijing.



Farming Land:

Brown soil



Crops:

Peach



Partners:

Freshippo

Bayer
Forward
Farming

Jinguofeng Cooperative

Farm Profile



- Tailored Solutions
- Proactive Stewardship
- Partnerships

Key Elements

- Selecting the right fruit tree varieties**
Rootstock and scion variety are selected with care to establish a healthy and productive orchard considering soil and climatic conditions as well as varieties characteristics and consumer preferences.
- Much more peach program**
A tailored and effectful crop care program offered by Bayer to protect the peach crop during its growing cycle helps to minimize chemical crop protection use, improve labor efficiency, enhance fruit quality, extend fruit shelf-life, as well as improve farmer income.
- Reducing irrigation water use**
Micro-spray irrigation system not only saves water, but allows for easy adjustment of field micro-climate, helps to improve orchard maintenance, and reduces greenhouse gas emissions and workload.
- Precision application**
Well maintained and calibrated spraying equipment as well as selecting the right nozzles increase application efficiency and minimize environmental impact.
- Digital farming**
Utilization of IoT devices, drones for remote sensing, digital crop models, and big data platforms to monitor crop growth and provide dynamic farm management solutions to improve management efficiency.
- Prevention and mitigation of crop failure**
Reduction of fruit damage from hail and birds using orchard nets. Water logging prevention via cover crop strips between rows, improving root health and avoiding insect pest damage.
- Product stewardship**
Crop protection products are purchased from designated or accredited retailers. Use of personal protective equipment, safe storage of input materials, sanitary measures, etc., permit a high level of worker safety.
- Soil and water protection**
Elimination of chemical crop protection product residues in wastewater through the use of Phytobac®, aimed at minimizing surface water and soil contamination.
- Biodiversity**
Habitat enhancements, such as flower strips, insect hotels, and cover vegetation, help protect diverse wildlife species.
- Transparent tracking and tracing**
BayG.A.P. training, documentation, and certification enable tracking and tracing of crop produce throughout the value chain.
- Partnerships**
Establish long-term collaborative relationships with scientific research institutions and food chain partners to encourage growers in the region to achieve standardized, modern, and sustainable operations.