



SUSTAINABILITY with Smart Apply

We're advancing healthy yields + a healthier planet with precision

Our goal is to help specialty crop growers reach the highest levels of sustainability with our precision spraying and data system. Empowering you to achieve higher yields with fewer inputs, while minimizing the impact on people and the environment. Protecting the health of your farmlands will enable you to feed the world and help ensure future generations of your family can continue to farm your land.

50%
Less Chemicals*
Optimizing crop protection with less waste, more consumer confidence.



50%
Less Water*
Preserving precious resources so life on our planet can continue to flourish.



Up to
93%
Less Run Off
Protecting soil, roots + ground water from effects of over spraying.



Up to
87%
Less Drift
Safeguarding fields, forests + waterways from airborne contamination.

** Average reduction*



www.SmartApply.com

Hello @SmartApply.com

THE SMART APPLY TWO-PART SUSTAINABILITY SOLUTION

PRECISION SPRAYING | DATA CAPTURE + DIGITAL DOCUMENTATION



The **Smart Apply System** is designed specifically for growers of wine grapes, hops, tree fruits and nuts, and nurseries. Sold as a kit, it can be retrofitted on virtually any new or used air blast, over-the-row, or GUSS autonomous sprayer for a two-part sustainability solution:

Power Spraying

- Powered by LiDAR laser technology
- Sprays individual trees/vines based on size + foliage density
- Stops spraying when no plant is detected
- No manual intervention needed; spraying is automated
- Average 50% reduction in chemical + water use

Data Capture + Analytics

- Captures data as it sprays, uploads to the Cloud
- Date + time of spraying, boundaries covered, chemicals applied + more
- Creates accurate digital document of each spray event
- Supports farm operations; regulatory + sustainability reporting
- Optional integration with John Deere Operations Center

SUSTAINABILITY + Business

Part of the Pernod Ricard Group, the world's second largest wine and spirits company, Pernod Ricard Winemakers is among New Zealand's top wine companies. Their ambition is to reduce pesticide application through precision viticulture. In 2000, Pernod Ricard Winemakers became the first vineyard in New Zealand to trial the Smart Apply Intelligent Spray Control System, operating three sprayers with the precision spray system. David Allen, transformation manager for Pernod Ricard Winemakers, explains.



"We're always looking at ways to reduce our impact and nurture our terroirs. The LiDAR-based control from Smart-Apply fits well with our strategic goals so we were keen to investigate the technology. We ran comprehensive trials to understand how the Smart Apply System compares to our existing sprayers. Over the Vintage 2023 season, field tests using the three-row sprayer showed more than a 30% reduction in chemical usage compared to conventional sprayers. Other impressive benefits included a reduction in spray drift." Pernod Ricard has ordered three more Smart Apply Systems for the vintage 2024 season.

SUSTAINABILITY + Family Farms

In 1991, Deon and Lorraine Dekkers emigrated from South Africa to Texas to secure a better life for their family. They founded Twin Lakes Nursery, which today spans 2,000 acres, with 1,000 acres dedicated to trees. It's now run by the second generation of Dekkers, Deon Jr.



and Andre. Sustainability is a top priority. Says Deon Jr. "Our families live on the land, and we want to be respectful of our impact on the environment. We strive to see that everything is produced in environmentally friendly ways and under great working conditions for our employees."

The Dekkers were excited that the Smart Apply System would make it possible to use less chemicals while getting the same protection for their trees. They began using Smart Apply in March 2023. The impact was immediate. "We're using fewer tanks of chemicals so less waste and fewer re-fills," Deon says. "Smart Apply is a win for Twin Lakes' sustainability. With technology and time, our hope is future generations of our family will continue the stewardship of the land our generation began."



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