

NATURAL FARMING

RIVENDALE

PITTSBURGH
EST. 2015

MODERN TECHNIQUES



WELCOME TO
RIVENDALE FARMS

NATURAL FARMING. MODERN TECHNIQUES.

At Rivendale Farms, we believe the best products are made with care and passion. We're a local farm nestled in Washington County, near Pittsburgh, PA. Proud of our roots, we aim for excellence in everything we do - combining natural, sustainable farming with innovative techniques and technology.

We respect our land and our animals, the produce we grow and the people we serve. From farm to table, it's a journey of pride and passion. It's our privilege to produce delicious tasting food from a farm that nurtures the land and animals with the best care, attention and modern techniques available.

We follow the seasons and work with the land. We treat our animals like royalty, learn from the land and work with the smartest natural growers.



Robotic Milkers and an Automated Greenhouse: Inside a High-Tech Small Farm

Rivendale Farms outside Pittsburgh is a laboratory for applying technology to smaller farms.



Innovation at Rivendale – Crop Production



The Project

- Collaboration with CMU School of Robotics and George Kantor Masters Students

Innovation

- Robotics is new to small scale farming
- We will use robots to help detect crop damage, harmful pests and weeds
- The students are working to create a robot that will:
 - Monitor crops and understand what can damage them
 - Detect and understand what is a weed and what is the plant
- Robots will be collecting and analyzing data
- Saving time that normally our field crew would be taking to walk the fields and crops to monitor crops
- Alert by phone
- Advance notice of crop damage – allowing us to address issues in real time

- No evidence of anyone else doing this kind of work
- Robotics in farming often used for large scale agriculture to spray chemicals, monitor by air, or harvest.