

The logo graphic consists of a grid of colored rectangles. The leftmost column has 8 bright green rectangles. The next two columns each have 4 light blue rectangles. The bottom row of the last two columns has 4 diagonal stripes in bright green.

Loftus Labs

In partnership with Hallink Hop Consulting and Kollmar Inc.

kollmar inc



Who & Why We Are

Our mission is to help our specialty crop clients reach their full business potential.

Loftus Labs' Services

Ribbon

Centralize and analyze all your farm data in a single platform for a fraction of the cost of DIY.

Fractional CDO Team

Transform your agribusiness with a skilled team that will help you build and execute a data strategy.

Precision Control

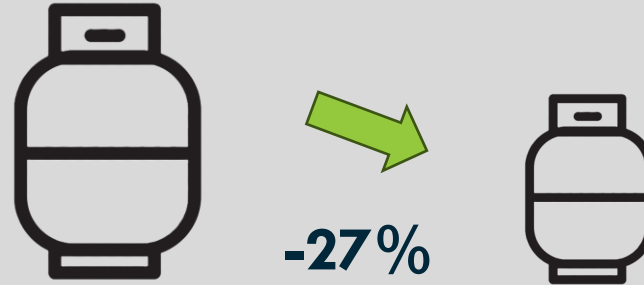
Automate your kiln and irrigation operations to balance cost and quality on your farm.

IT Services

Outsource your technology support needs to a team that understands your agribusiness.

Results

1. Propane Use Per Bale



2. Payback With Grant

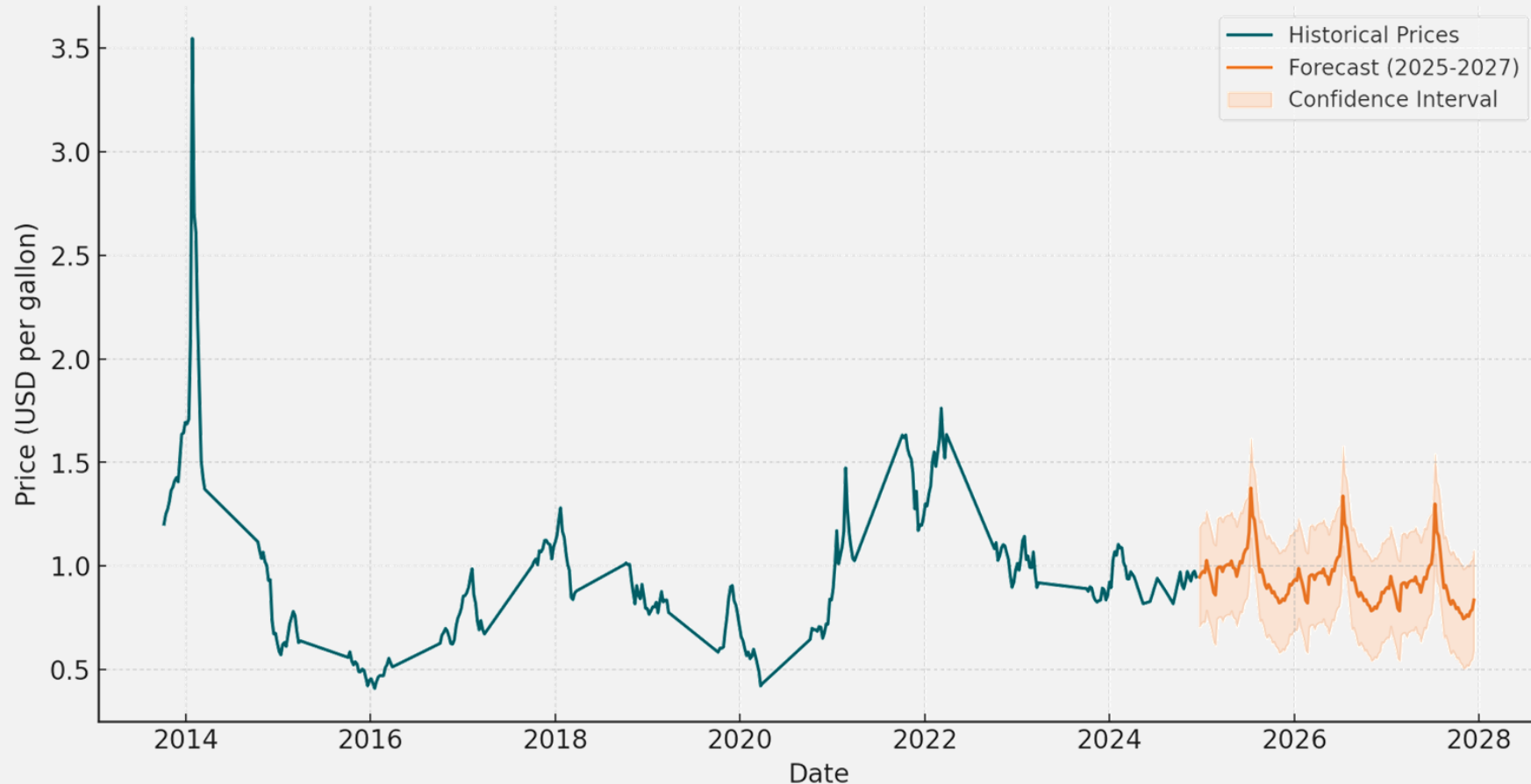
2.1 Years

3. Payback Without Grant

2.4 Years

Propane Price Volatility

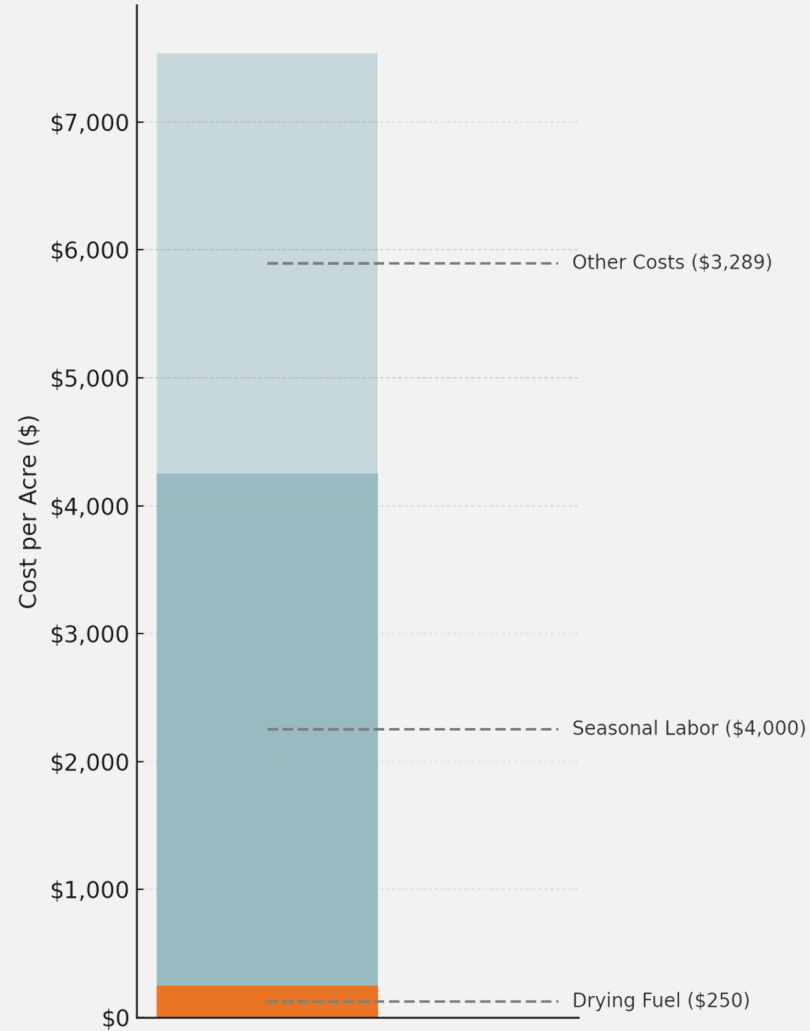
U.S. Propane Prices Forecast (2025-2027)



Using historical price volatility as a guide, a forecast of 2025-7 propane prices shows a price floor of ~\$0.5 dollars / gallon and a ceiling of ~\$1.5 / gallon.

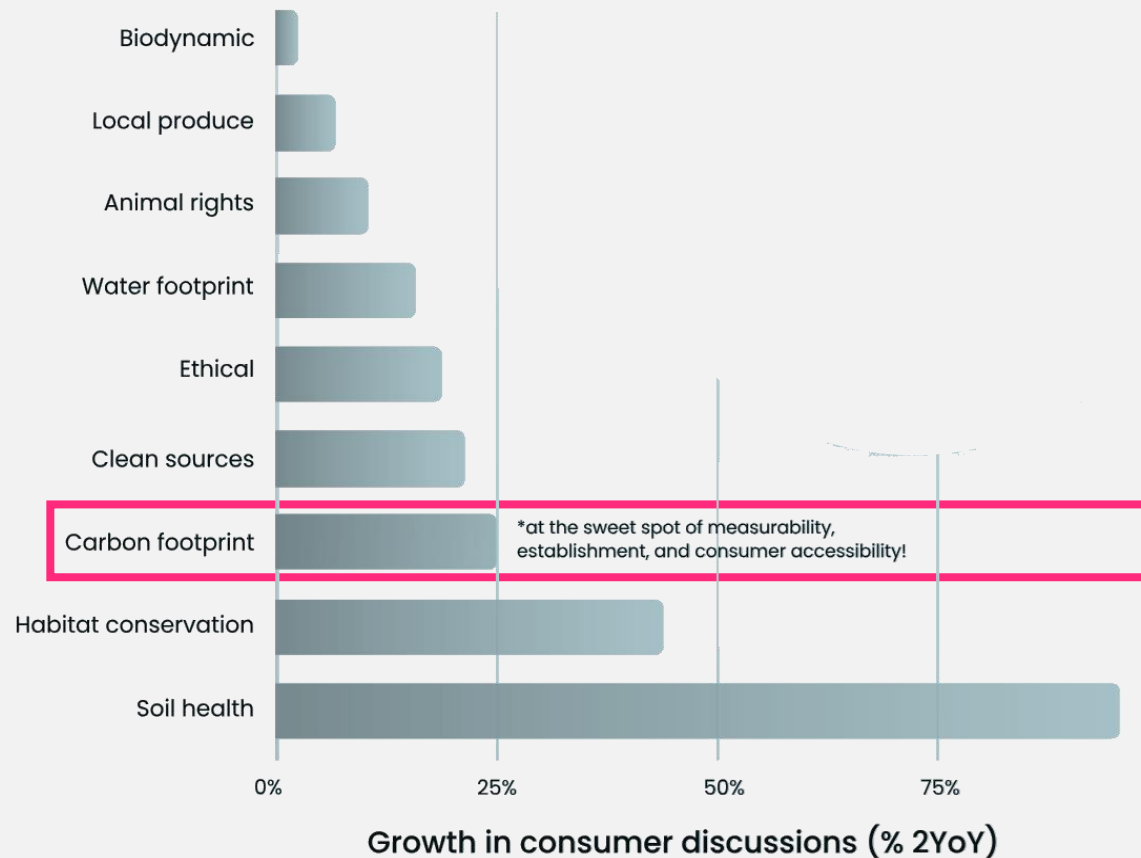
Measure, Mine, Manage

Breakdown of Variable Costs per Acre for Growing and Drying Hops



Benefits Beyond Cost Savings

2025 Trending ESG Topics



Existing Methods to Conserve fuel

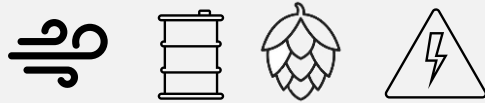
There are no “easy wins” with drying fuel cost reduction.



Method	Notes
Temperature Optimization	Potential impacts on throughput (increasing harvest-to-bale time, and quality).
Improve Building Insulation	Unknown impact, expensive
Bed Depth Optimization	Increased complexity of operations, difficult to measure and calculate, increased labor demand

An Automated Method to Recover Heat

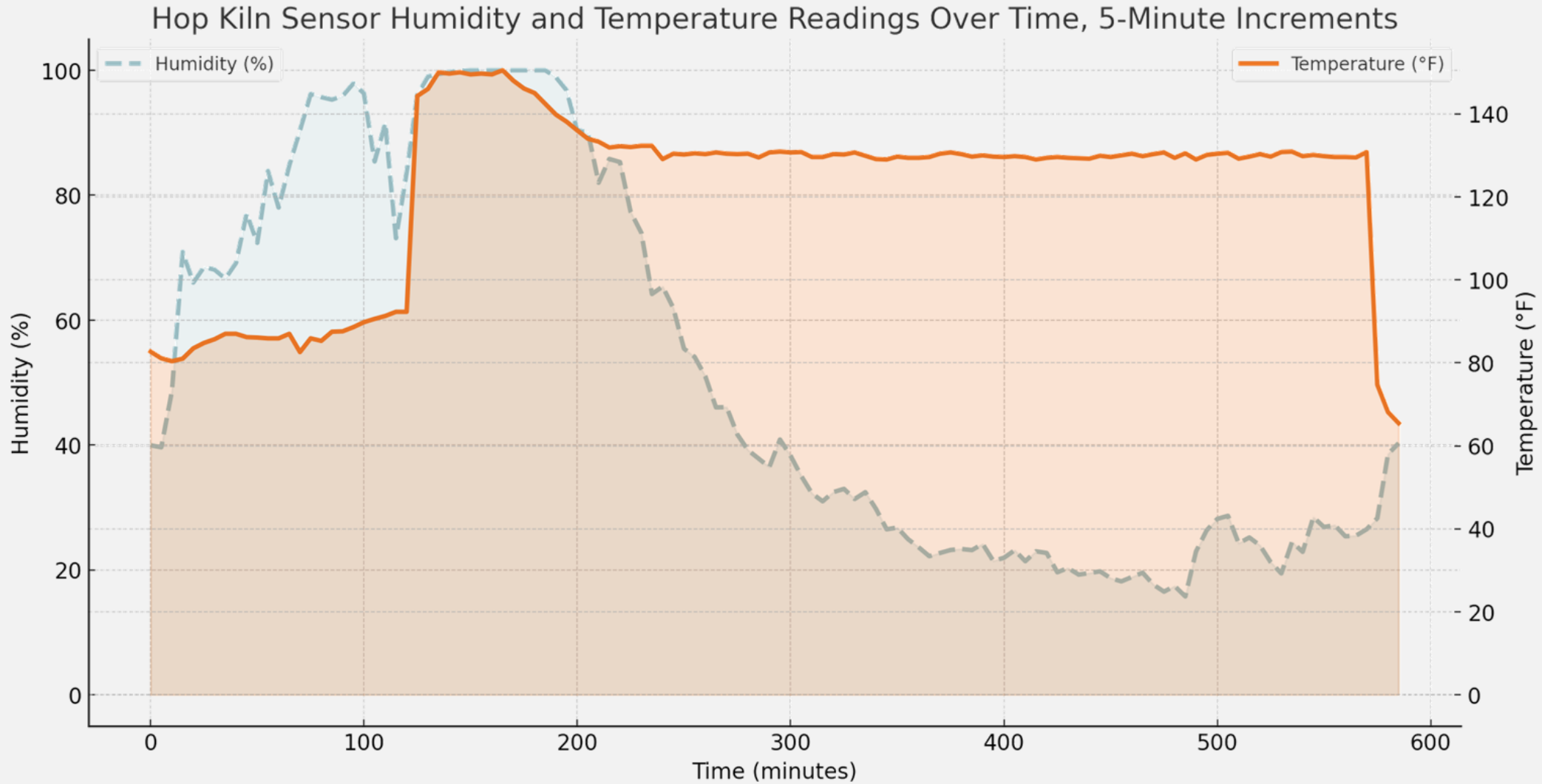
Inputs



Outputs

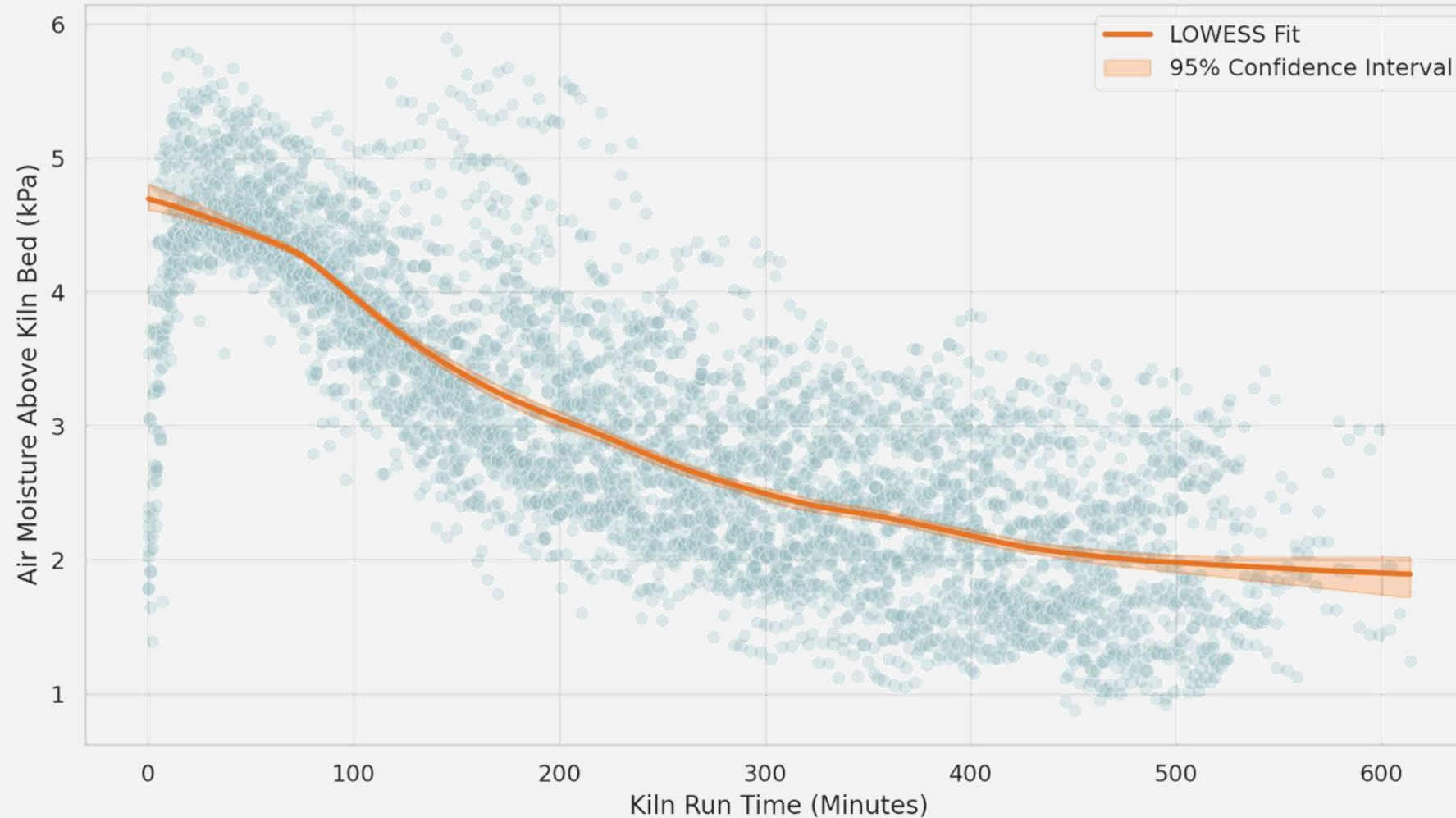


Kiln Room Humidity & Temperature

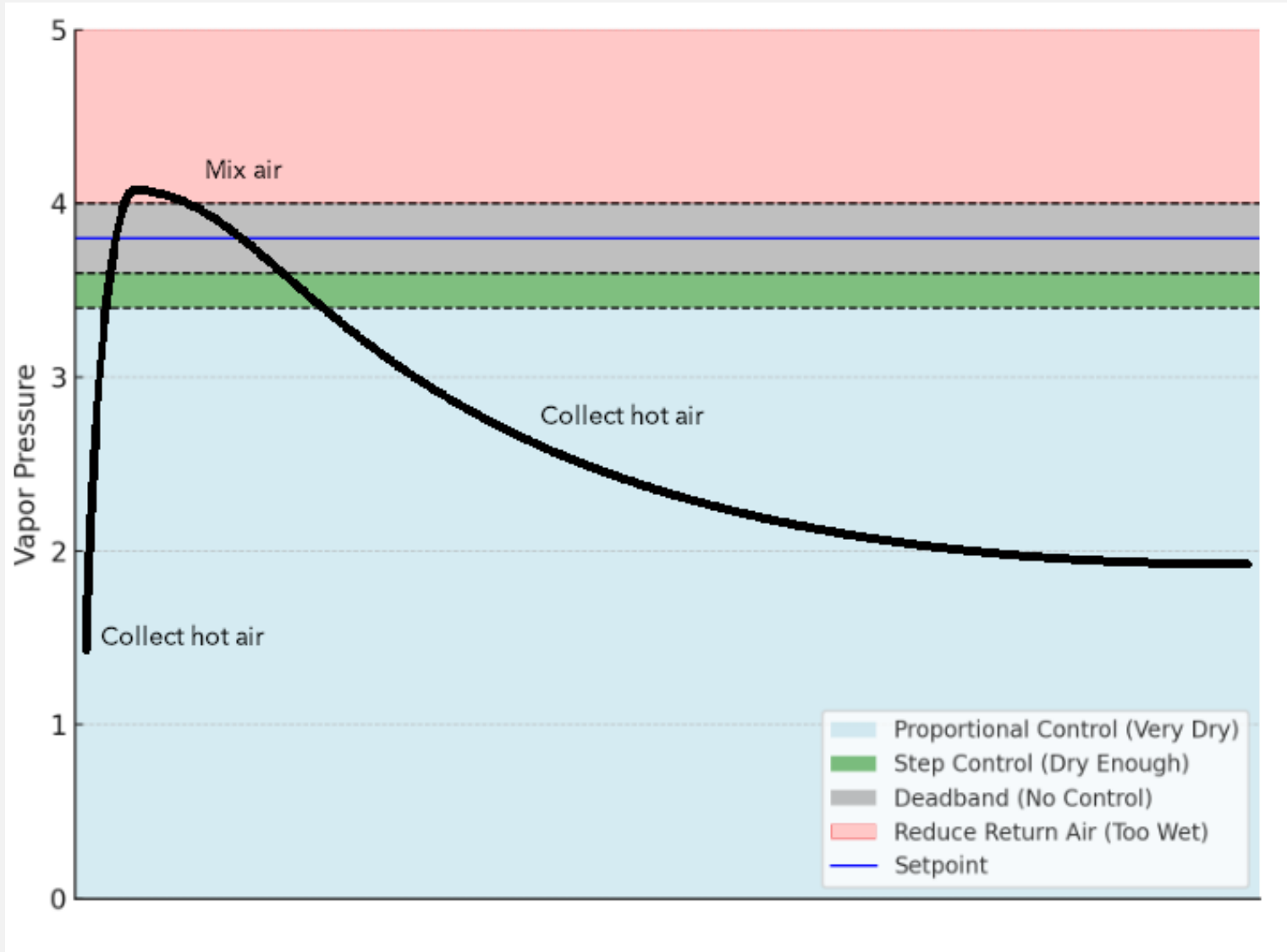


Kiln Air Recirculation

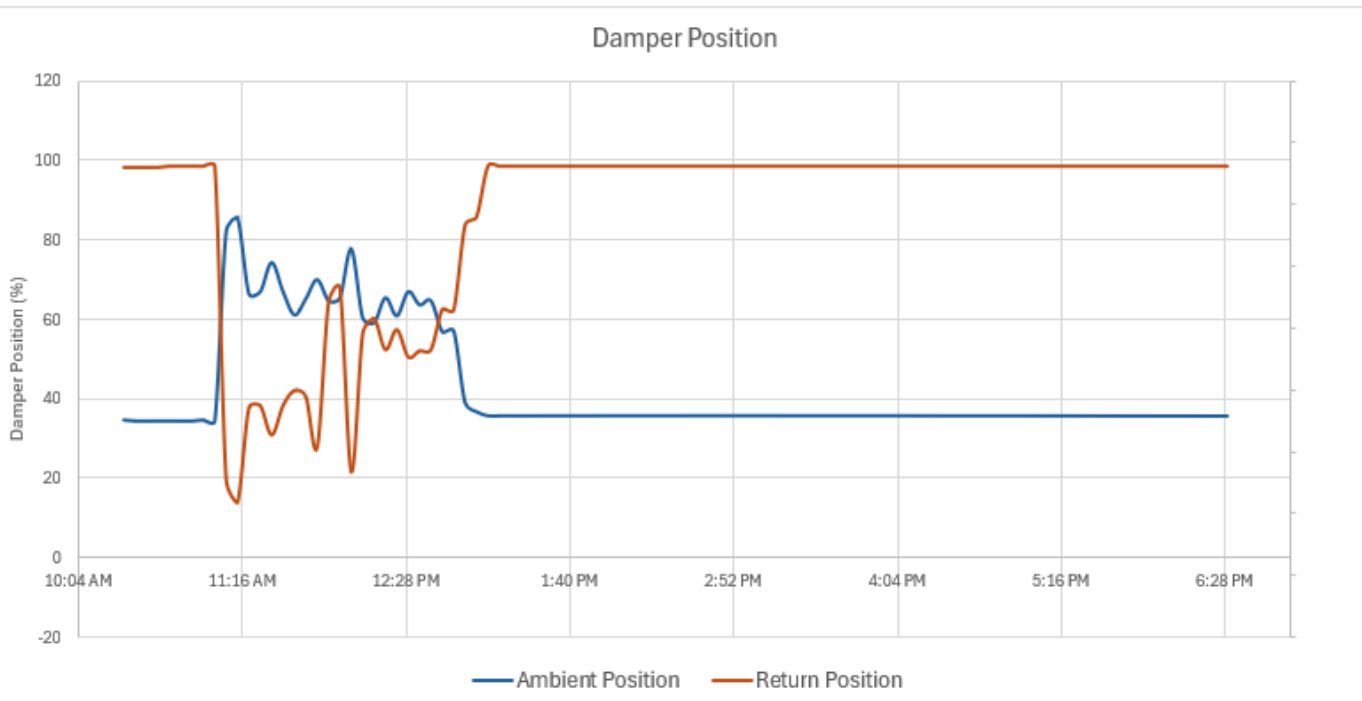
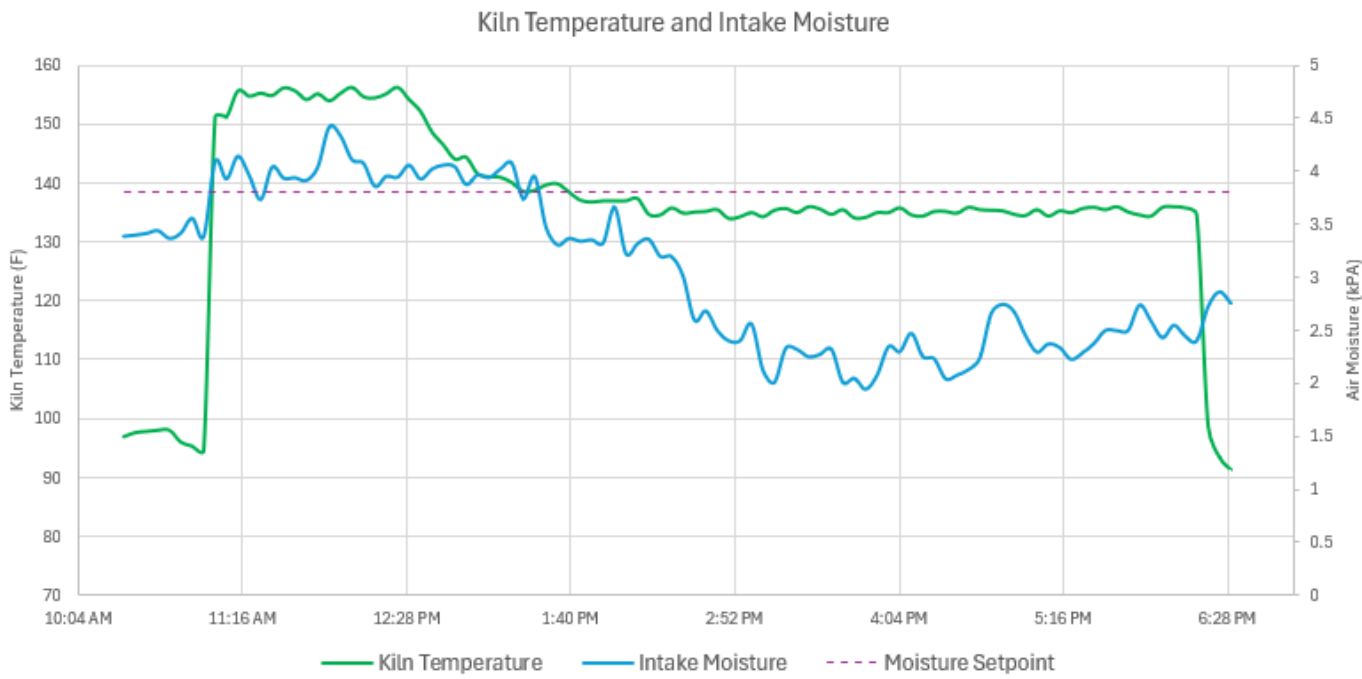
Air Moisture Content (kPa) Above Hop Kiln Bed by Time Interval in Minutes After Burner Start



Recirculation Methodology



Recirculation Results





Questions & Answers

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