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US Cotton Yield Forecast Model

Daily county-level yield forecasts, aggregated to state — built to surface downside risk first.

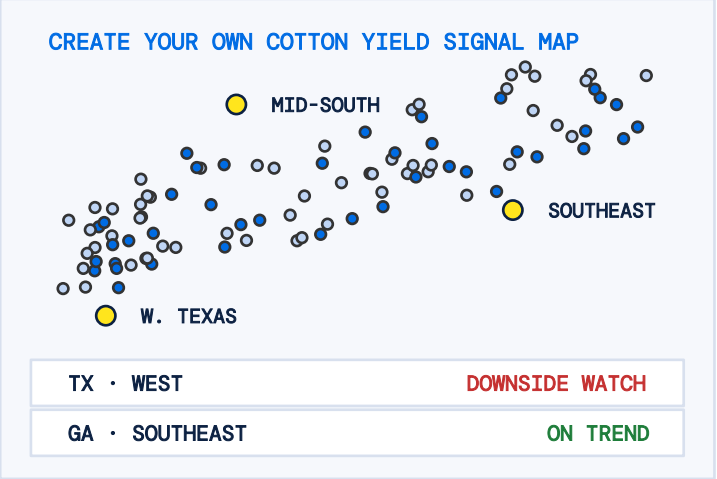
12	Daily	County	2021
Cotton States	End-of-day Updates	+ State level	Historical Start Date

WHAT YOU GET:

Ground-Up Forecasts. Machine learning on satellite soil moisture, land surface temperature and vegetative growth

Risk-Weighted Target. Trained on USDA Risk Management Agency (RMA) yields with emphasis on downside deviations, not just the average

Granular Coverage. Upland cotton across AL, AR, GA, KS, LA, MO, MS, NC, OK, SC, TN, TX



For illustrative purposes only. This diagram is not render from actual data.

METHODOLOGY

Our Model Synthesizes Multiple Views of Production Conditions

Soil Moisture	Surface Temp	Vegetative Growth	Ground Truth
Satellite-derived root-zone moisture	Land surface temperature stress	Canopy vigor through the season	Rainfall, temperature & drought data

USE CASES

Crop Insurance Advantage

- Early view of payout risk at county granularity
- Manage cash reserves ahead of payouts
- Benchmark shallow-loss & parametric contracts

Futures Trading Edge

- Anticipate WASDE and USDA yield revisions
- Trade county/state deviations across the Belt
- Spot drought risk premiums before they price in

Barchart is Data.

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