BO Pampa Fire Active-Season Z

BO Stage 3: AR soybean R1-R6 pod-fill weather stress drives yield 6-12wk fwd.

David Stendahl · Market Lab Analytics · November 7, 2026

What this signal is

BO Stage 3: AR soybean R1-R6 pod-fill weather stress drives yield 6-12wk fwd. The composite is bounded between minus one and plus one through tanh. On 2018-02-20 it reached its series maximum plus 0.990 and on 2025-12-04 its series minimum minus 0.813. Today the composite reads near +0.00. See live page for current state.

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How the inputs compose

BO Stage 3: AR soybean R1-R6 pod-fill weather stress drives yield 6-12wk fwd. The engine also computes four confirming features: five-day velocity, 60-day volatility regime, 60-day correlation with soybean-oil returns, 63-day lag-1 autocorrelation.

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What the state-conditional returns have actually done

The soybean-oil forward-60-day return baseline (unconditional) is mean plus 1.54 percent, median plus 0.24 percent.

> **Reference baseline (8,989 soybean-oil-aligned forward-60-day windows over the live engine window)**
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> Soybean-oil forward-60-day return baseline: mean plus 1.54 percent, median plus 0.24 percent. Phase 0 source: Z102432 engine parquet joined with CBOT soybean-oil back-adjusted continuous closes.

Pampa fire activity elevated (Phase +1), 103 trading days, returned on average plus 3.36 percent.

Normal (Phase +0), 8,350 trading days, returned on average plus 0.37 percent.

Pampa fire activity calm (Phase −1), 403 trading days, returned on average plus 7.40 percent.

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Three cases that frame how to read the signal

Case 1: 2018-02 composite series maximum

On 2018-02-20 the composite reached its series maximum plus 0.990. Soybean-oil subsequent 60-day behavior aligned with the pampa fire activity elevated regime pattern.

Case 2: 2025-12 composite series minimum

On 2025-12-04 the composite reached its series minimum minus 0.813. Soybean-oil subsequent 60-day behavior aligned with the pampa fire activity calm regime pattern.

Case 3: May 2021 palm supply shock window

The May 2021 Malaysia palm labour crunch tightened global vegetable-oil balances; many soybean-oil signals revalued during the window.

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How to use the signal today

This is a regime detector on a 60-day forward horizon. Three best uses. First, as a regime filter for soybean-oil exposure (Phase +1 equals pampa fire activity elevated). Second, as a cross-check against price-momentum and vegetable-oil cross-market signals. Third, as a transition-window warning, pairing with price-based signals for conviction.

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Methodology notes

BO Stage 3: AR soybean R1-R6 pod-fill weather stress drives yield 6-12wk fwd. The 1990 start reflects the earliest reliable source coverage.

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What this signal does not cover

Four caveats. The signal is a regime detector, not a timing signal. State-conditional means hold on average, not for every individual window. Regime persistence varies with growing-season, biofuel-policy, and macroeconomic backdrop. Individual regime windows can run longer or shorter than mean sample. State-conditional edges are backward-looking empirical averages. Future regimes may differ. The baseline is CBOT soybean-oil back-adjusted continuous (BO_1210BD).

Not investment advice. Signal readings and empirical statistics are derived from publicly available data sources. (c) 2026 David Stendahl.