GC Futures Curve Basis M1-M12 Z

Backwardation/contango regime is a documented commodities risk-premium driver and supply-tightness indicator.

David Stendahl · Market Lab Analytics · November 6, 2026

What this signal is

Backwardation/contango regime is a documented commodities risk-premium driver and supply-tightness indicator.

The composite is bounded between minus one and plus one through tanh. On 2013-07-18 it reached its series maximum plus 0.996 and on 2022-04-29 its series minimum minus 1.000.

Today the composite reads near −0.94. See live page for current state.

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How the inputs compose

Backwardation/contango regime is a documented commodities risk-premium driver and supply-tightness indicator.

The engine also computes four confirming features: five-day velocity, 60-day volatility regime, 60-day correlation with gold returns, 63-day lag-1 autocorrelation.

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What the state-conditional returns have actually done

The gold forward-60-day return baseline (unconditional) is mean plus 2.55 percent, median plus 2.10 percent.

> **Reference baseline (4,962 gold-aligned forward-60-day windows over the live engine window)**
>
> Gold forward-60-day return baseline: mean plus 2.55 percent, median plus 2.10 percent. Phase 0 source: Z32402 engine parquet joined with COMEX gold back-adjusted continuous closes.

Far curve steep (Phase +1), 2,272 trading days, returned on average plus 2.02 percent.

Normal (Phase +0), 852 trading days, returned on average plus 0.43 percent.

Far curve flat (Phase –1), 1,838 trading days, returned on average plus 1.00 percent.

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Three cases that frame how to read the signal

Case 1: 2013-07 composite series maximum

On 2013-07-18 the composite reached its series maximum plus 0.996. Gold subsequent 60-day behavior aligned with the far curve steep regime pattern.

Case 2: 2022-04 composite series minimum

On 2022-04-29 the composite reached its series minimum minus 1.000. Gold subsequent 60-day behavior aligned with the far curve flat regime pattern.

Case 3: March 2020 COVID shock window

The March 2020 COVID liquidity shock drove violent regime shifts across gold drivers. The composite oscillated as the underlying mechanism repriced.

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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 gold exposure (Phase +1 equals far curve steep). Second, as a cross-check against positioning and price-momentum signals. Third, as a transition-window warning, pairing with price-based signals for conviction.

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Methodology notes

Backwardation/contango regime is a documented commodities risk-premium driver and supply-tightness indicator.

The 2006 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 macroeconomic backdrop. Individual windows can run much longer or shorter than mean sample. State-conditional edges are backward-looking empirical averages. Future regimes may differ. The baseline is COMEX gold back-adjusted continuous (GC_1240BD).

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