PA Industrial Real Rate ISO Lag

Isolates release-lag effect vs Z100201 baseline.

David Stendahl · Market Lab Analytics · November 6, 2026

What this signal is

Isolates release-lag effect vs Z100201 baseline.

The composite is bounded between minus one and plus one through tanh. On 2020-07-27 it reached its series maximum plus 0.997 and on 2022-11-08 its series minimum minus 0.998.

Today the composite reads near +0.63. See live page for current state.

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How the inputs compose

Isolates release-lag effect vs Z100201 baseline.

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

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What the state-conditional returns have actually done

The palladium forward-60-day return baseline (unconditional) is mean plus 1.40 percent, median plus 1.11 percent.

> **Reference baseline (8,960 palladium-aligned forward-60-day windows over the live engine window)**
>
> Palladium forward-60-day return baseline: mean plus 1.40 percent, median plus 1.11 percent. Phase 0 source: Z100203 engine parquet joined with NYMEX palladium back-adjusted continuous closes.

Real rate lag supportive (Phase +1), 3,997 trading days, returned on average plus 2.20 percent.

Normal (Phase +0), 1,562 trading days, returned on average plus 3.71 percent.

Real rate lag restrictive (Phase −1), 3,402 trading days, returned on average minus 0.62 percent.

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Three cases that frame how to read the signal

Case 1: 2020-07 composite series maximum

On 2020-07-27 the composite reached its series maximum plus 0.997. Palladium subsequent 60-day behavior aligned with the real rate lag supportive regime pattern.

Case 2: 2022-11 composite series minimum

On 2022-11-08 the composite reached its series minimum minus 0.998. Palladium subsequent 60-day behavior aligned with the real rate lag restrictive regime pattern.

Case 3: March 2020 COVID shock window

The March 2020 COVID liquidity shock drove violent regime shifts across palladium 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 palladium exposure (Phase +1 equals real rate lag supportive). 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

Isolates release-lag effect vs Z100201 baseline.

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 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 NYMEX palladium back-adjusted continuous (PA_1240BD).

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