

50-EMA NY-Morning Breakout - Filtered Re-Test

Instruments : EURUSD, GBPUSD, XAUUSD (Polygon C: forex tickers)
Timeframe : 1 Hour Period: 2010-01-03 -> 2026-07-31

RULES

Entry 50-EMA cross up, breakout bar CLOSING 10:00/11:00/12:00 New York
(1H bars close on the hour, so these are the only closes
inside the requested 09:30-12:30 window)
Stop low of the breakout candle
Target entry + 2R (1:2 risk-reward)
Limit one open position at a time across the entire book
Sizing 1% of equity risked per trade, compounded
Costs round-trip spread: EURUSD 1.0 pip, GBPUSD 1.4 pip, XAUUSD 30c

NEW IN THIS RUN

Higher-timeframe trend filter: 4H/1D EMA, shifted one bar so only
FULLY CLOSED higher-timeframe bars are visible (no lookahead).
Volume confirmation: breakout volume vs trailing 20-bar average.

CAVEAT - forex is OTC with no consolidated tape. Polygon's volume
for C: tickers is a QUOTE-UPDATE TICK COUNT, not traded size. It is
used only as an activity proxy, relative to each symbol's own mean.

METHODOLOGY

All 12 filter combinations are reported. Selecting the best cell of
a 12-cell grid is selection, not evidence - the full grid is shown
so the spread of outcomes is visible.

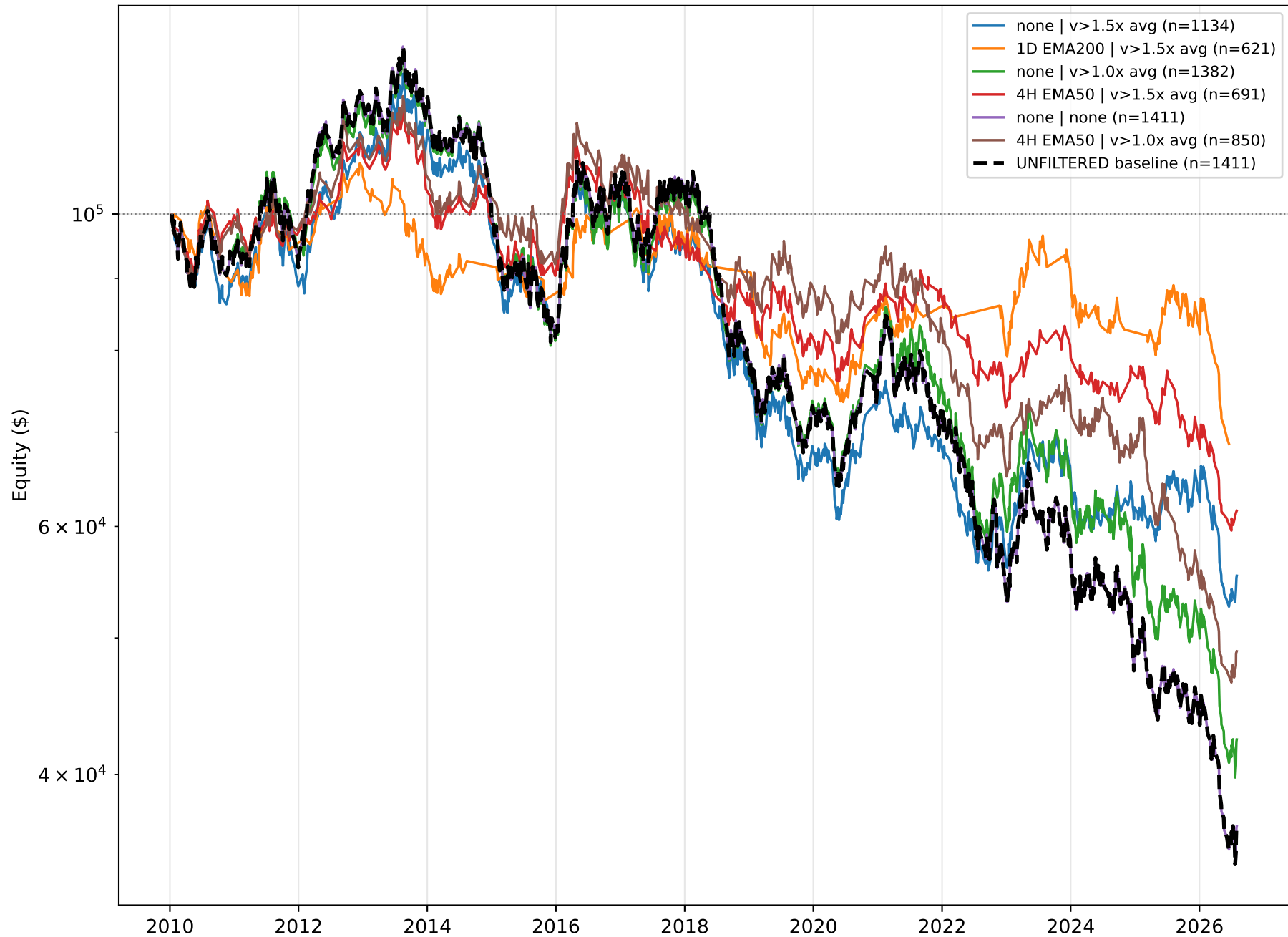
BASELINE (v1, unfiltered): gross $E[R]$ +0.0015 ($t=0.04$) - no edge.

Full Filter Grid - All 12 Combinations

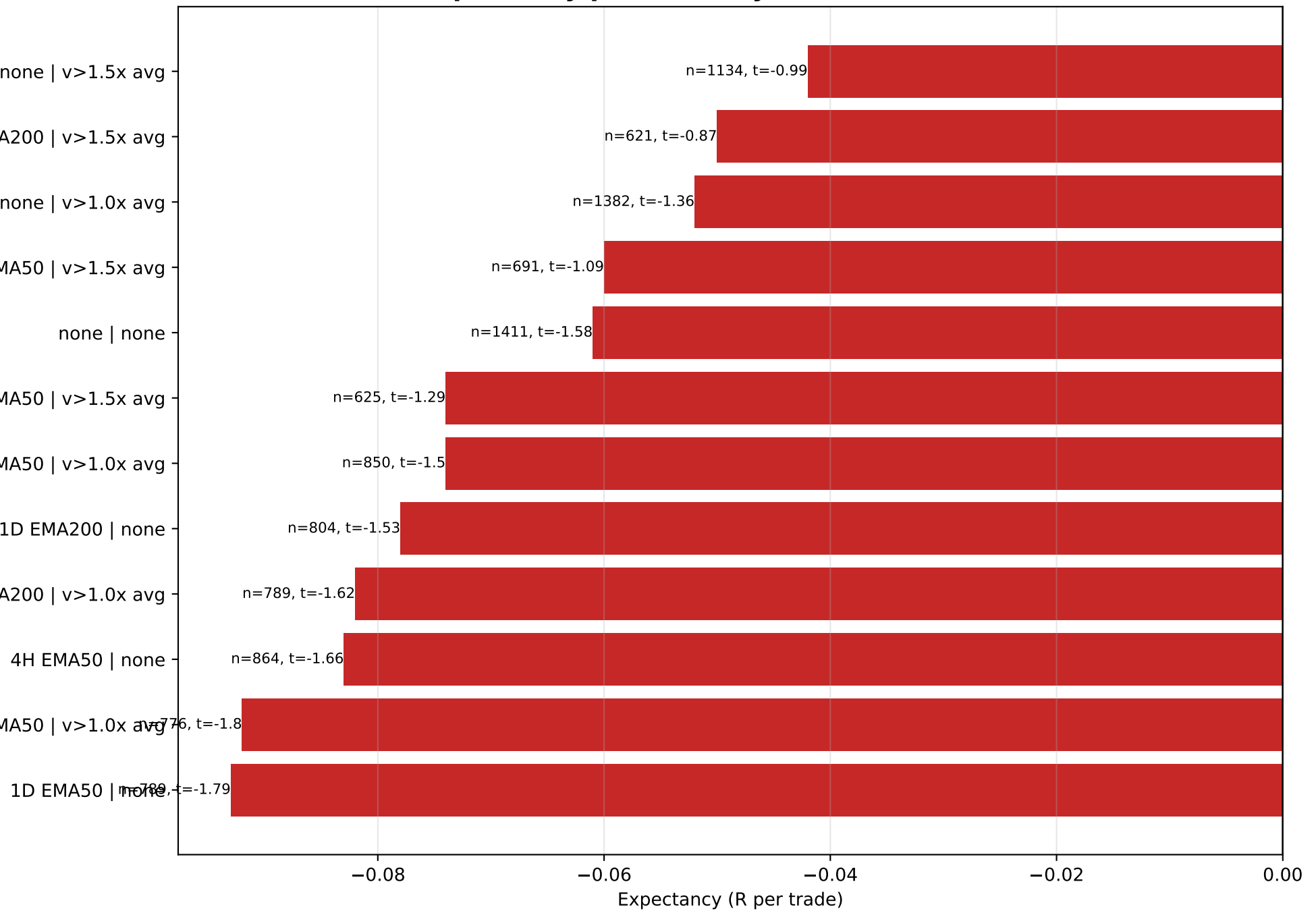
t = t -statistic of mean R -multiple. $|t| < 2$ means the result is indistinguishable from zero.

HTF	Volume	Trades	Win%	TotRet%	CAGR%	MaxDD%	PF	E[R]	t
none	none	1411	32.9	-63.2	-5.87	-73.7	0.92	-0.061	-1.58
none	v>1.0x avg	1382	32.9	-57.6	-5.06	-69.5	0.93	-0.052	-1.36
none	v>1.5x avg	1134	33.2	-44.6	-3.51	-58.2	0.93	-0.042	-0.99
4H EMA50	none	864	32.3	-55.3	-4.75	-65.0	0.9	-0.083	-1.66
4H EMA50	v>1.0x avg	850	32.2	-51.1	-4.23	-61.7	0.9	-0.074	-1.5
4H EMA50	v>1.5x avg	691	32.7	-38.4	-2.89	-50.1	0.91	-0.06	-1.09
1D EMA50	none	789	32.1	-55.8	-4.81	-64.3	0.88	-0.093	-1.79
1D EMA50	v>1.0x avg	776	31.7	-54.8	-4.69	-63.5	0.88	-0.092	-1.8
1D EMA50	v>1.5x avg	625	32.3	-41.0	-3.14	-49.5	0.89	-0.074	-1.29
1D EMA200	none	804	32.3	-50.6	-4.21	-55.4	0.9	-0.078	-1.53
1D EMA200	v>1.0x avg	789	32.1	-51.8	-4.35	-56.4	0.89	-0.082	-1.62
1D EMA200	v>1.5x avg	621	33.2	-31.3	-2.26	-36.8	0.92	-0.05	-0.87

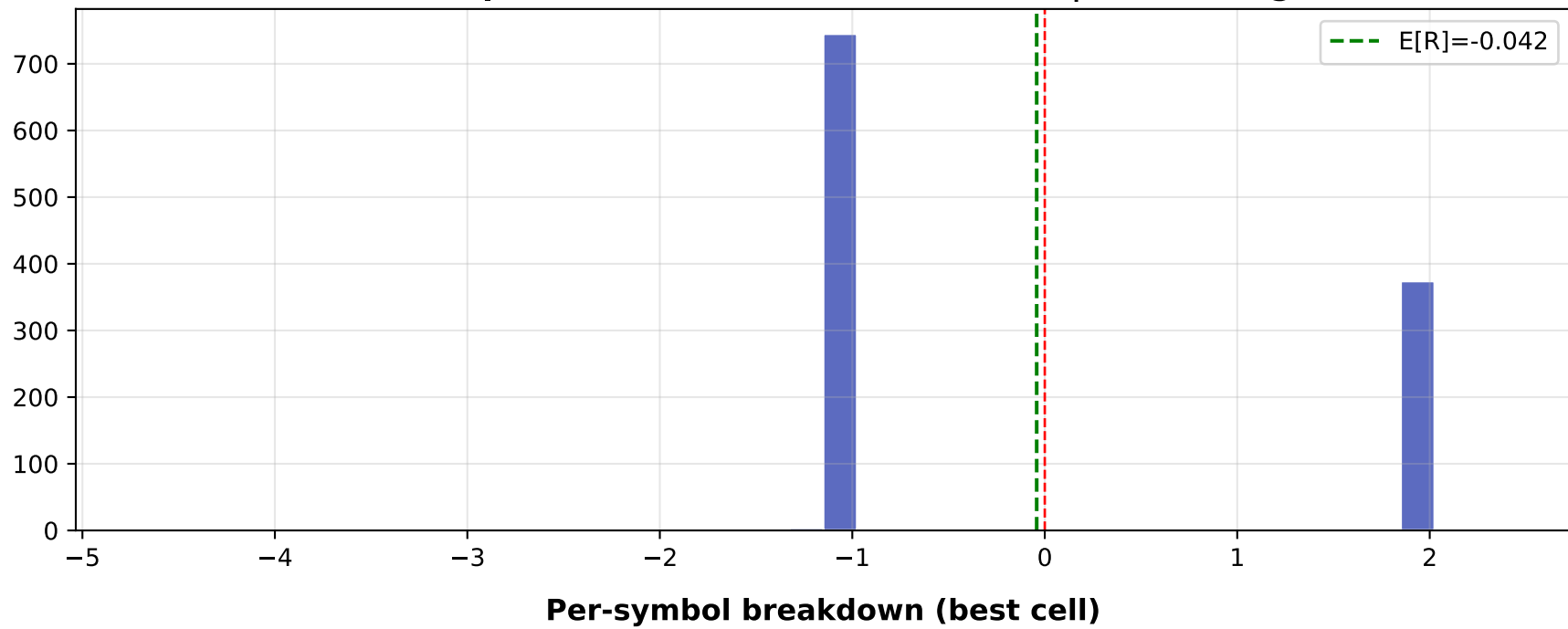
Equity Curves - top 6 variants by expectancy vs baseline



Expectancy per Trade by Filter Combination



R-Multiple Distribution - best cell: none | $v > 1.5x$ avg



Symbol	Trades	Win%	NetPnL	E[R]
C:EURUSD	544	32.353	-31027.987	-0.059
C:GBPUSD	382	35.34	2390.716	0.017
C:XAUUSD	208	31.731	-16009.494	-0.106

Verdict

GRID SUMMARY

cells tested	: 12
cells with $E[R] > 0$	: 0
cells with $ t \geq 2$	: 0
best $E[R]$	: -0.042
worst $E[R]$	: -0.093
median $E[R]$	: -0.074

Breakeven win rate at 1:2 risk-reward is 33.33%.

A filter only adds value if it lifts the win rate durably
above that AND survives the ~6% of R lost to spread each trade.