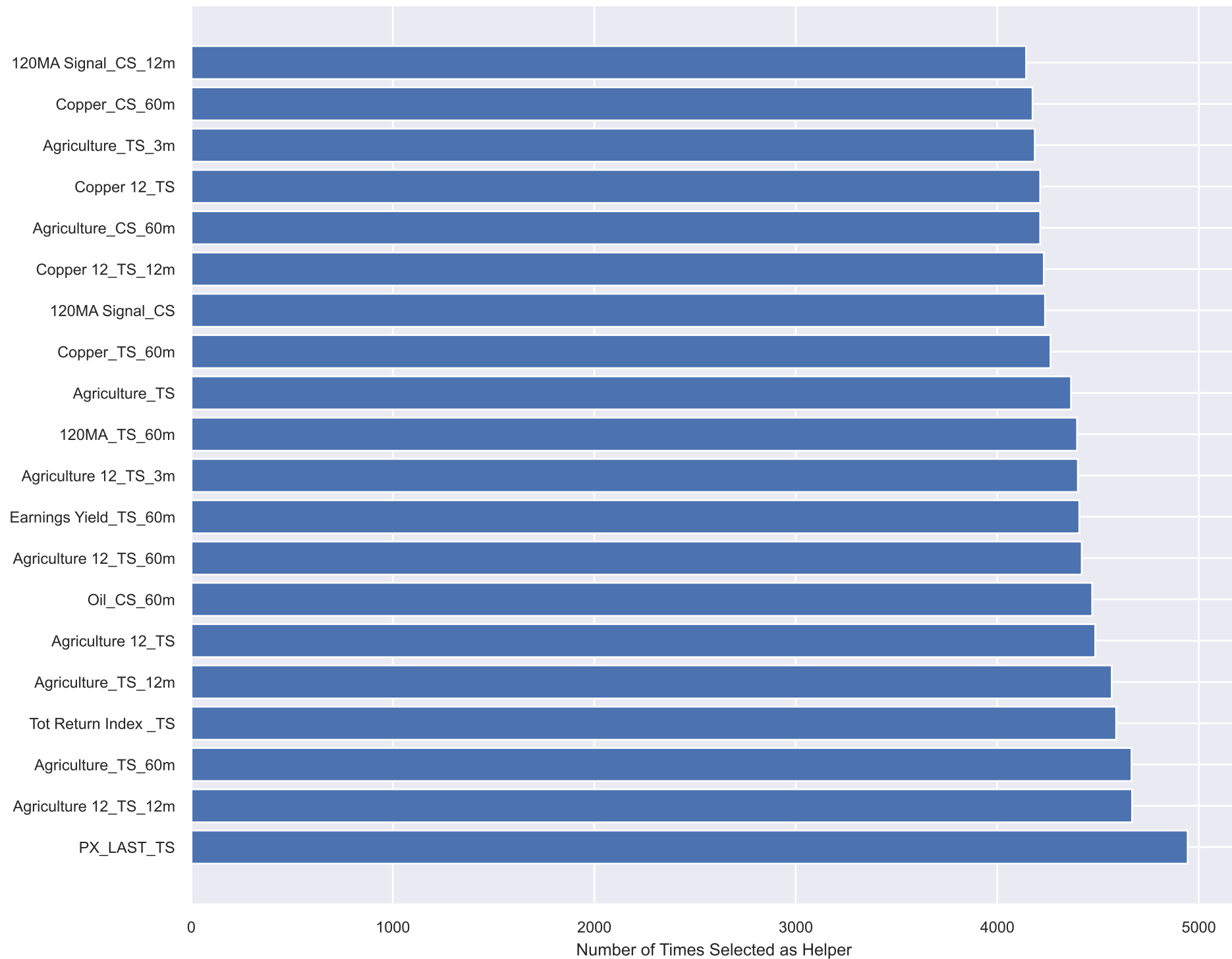


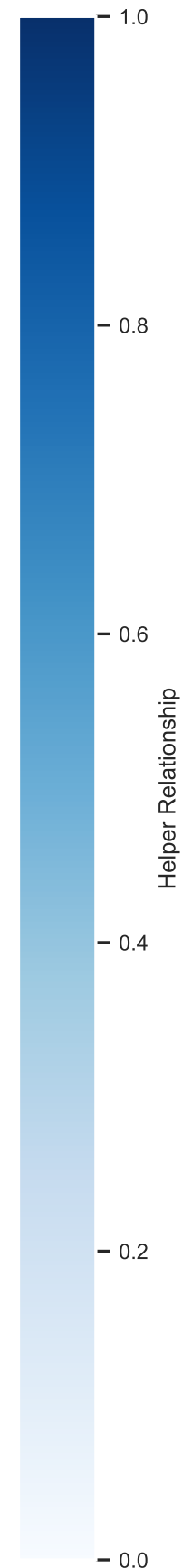
Helper Feature Selection Visualizations Factor Return Forecasting Project

Generated: 2025-05-14 16:43:54

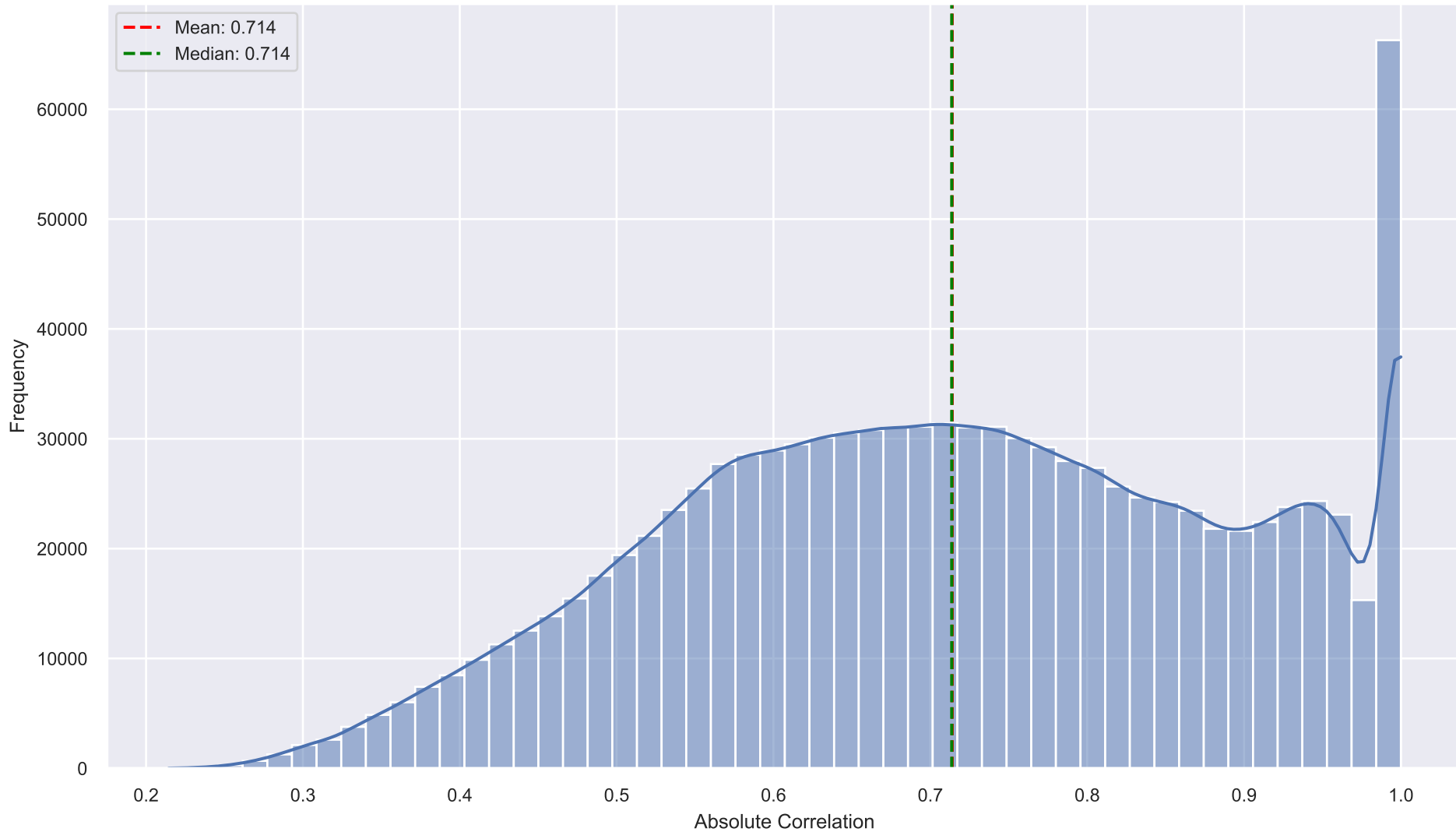
Total Windows: 236
Total Factors: 424

Top 20 Most Frequently Selected Helper Factors (Across All Windows)

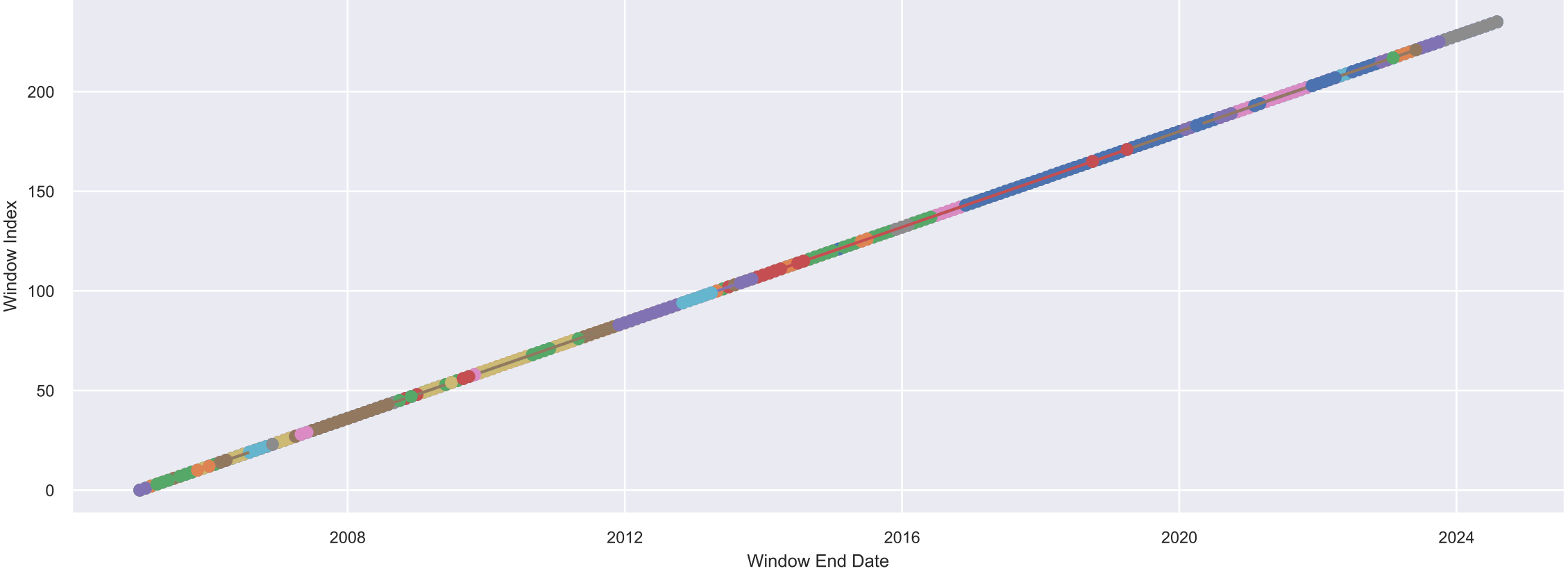




Distribution of Absolute Correlation Values for Selected Helper Features

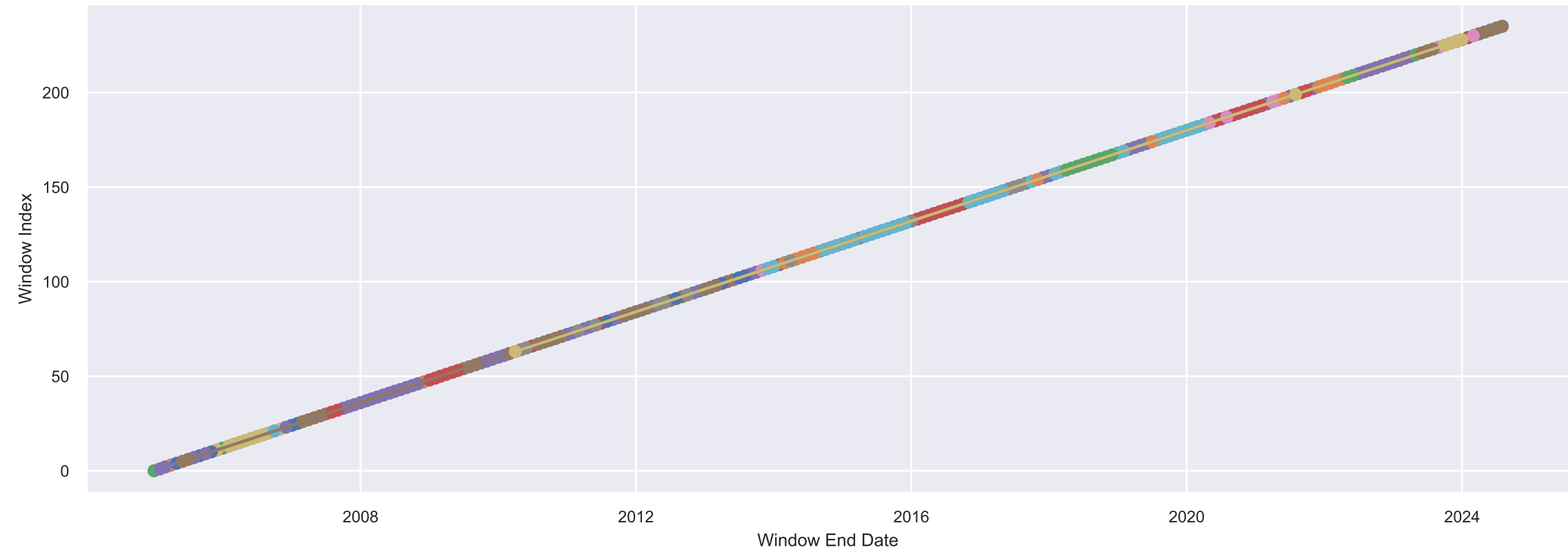


Helper Feature Stability for Target Factor: Currency_TS_3m

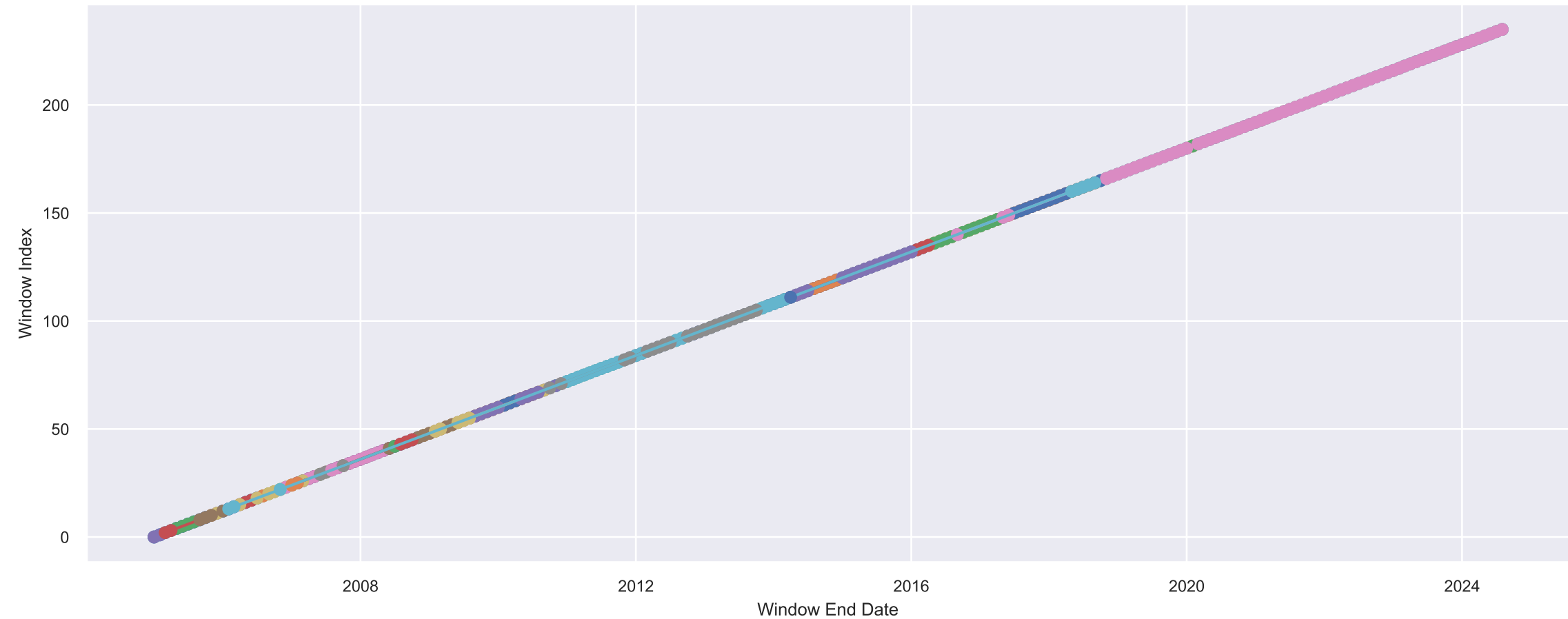


- | | | |
|-----------------------------------|-----------------------------------|-----------------------------------|
| 10Yr Bond_CS_3m (Rank 1) | 12MTR_CS_3m (Rank 2) | 10Yr Bond_TS_3m (Rank 3) |
| Bloom Country Risk_CS_3m (Rank 1) | Bloom Country Risk_CS_3m (Rank 2) | 12-1MTR_CS_3m (Rank 3) |
| Currency 12_CS_3m (Rank 1) | Currency 12_CS_3m (Rank 2) | Bloom Country Risk_CS_3m (Rank 3) |
| Currency 12_TS_3m (Rank 1) | Currency 12_TS_3m (Rank 2) | Currency 12_CS_3m (Rank 3) |
| Currency Vol_CS_3m (Rank 1) | Currency Vol_CS_3m (Rank 2) | Currency Vol_CS_3m (Rank 3) |
| Currency_TS (Rank 1) | Currency_TS (Rank 2) | Inflation_CS_3m (Rank 3) |
| Debt to EV_CS_3m (Rank 1) | Inflation_CS_3m (Rank 2) | Inflation_TS_60m (Rank 3) |
| GDP_CS_3m (Rank 1) | Inflation_TS_60m (Rank 2) | MCAP Adj_TS_3m (Rank 3) |
| Inflation_CS_3m (Rank 1) | 10Yr Bond 12_CS_12m (Rank 3) | REER_CS_12m (Rank 3) |
| 10Yr Bond_CS_3m (Rank 2) | 10Yr Bond_CS_3m (Rank 3) | |

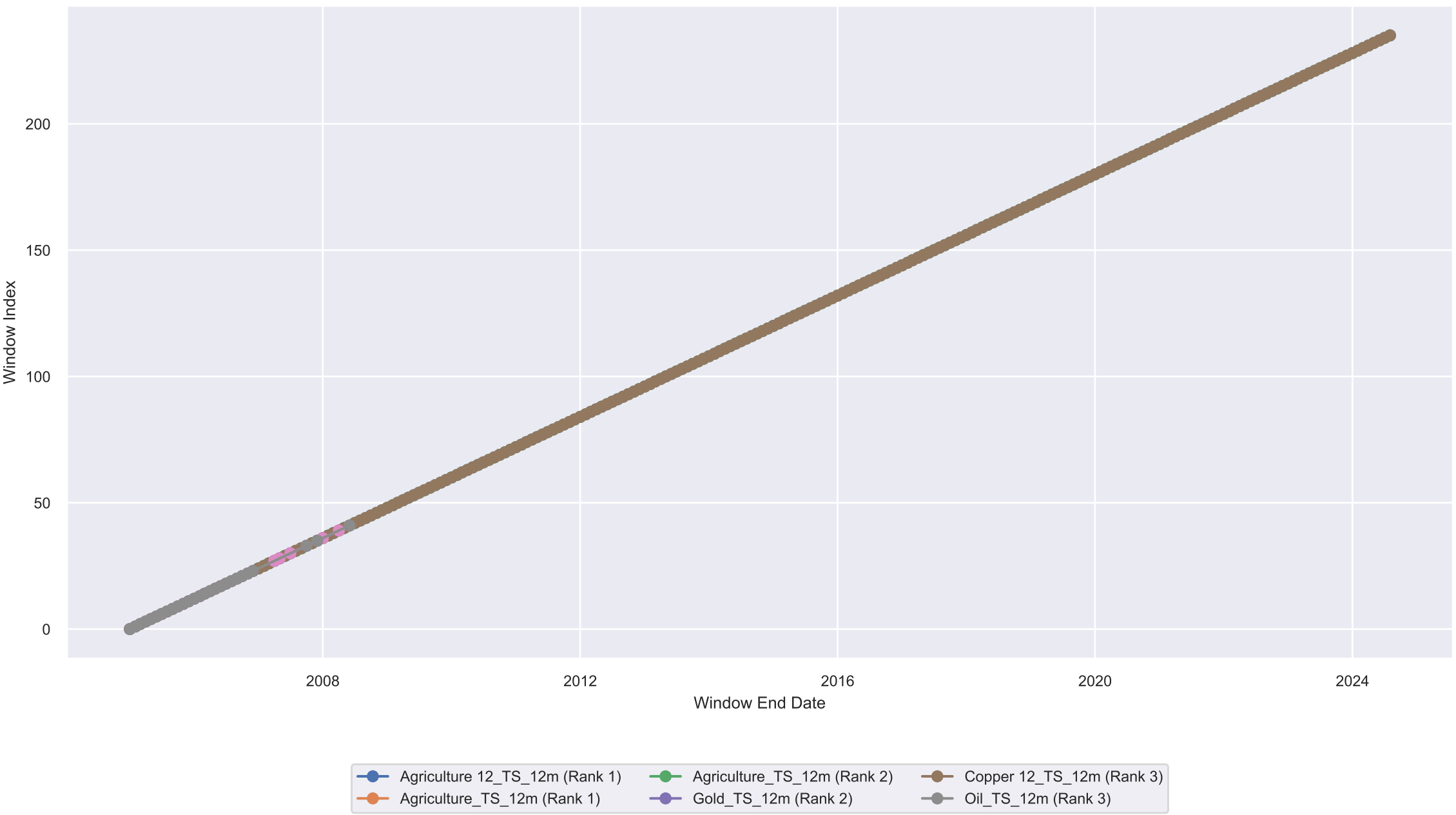
Helper Feature Stability for Target Factor: PX_LAST_TS_60m



Helper Feature Stability for Target Factor: Best PE _TS



Helper Feature Stability for Target Factor: Copper_TS_12m



Helper Feature Stability for Target Factor: Budget Def_CS_12m



10Yr Bond 12_TS_60m (Rank 1)	12-1MTR_CS_60m (Rank 2)	20 Day Vol_CS_60m (Rank 3)
10Yr Bond_TS_60m (Rank 1)	360 Day Vol_TS_12m (Rank 2)	360 Day Vol_CS_12m (Rank 3)
Best Cash Flow_TS_12m (Rank 1)	Best ROE_CS_60m (Rank 2)	Best Cash Flow_CS_60m (Rank 3)
Best Price Sales_CS_60m (Rank 1)	Budget Def_CS_60m (Rank 2)	Best Price Sales_CS_60m (Rank 3)
Bloom Country Risk_CS_60m (Rank 1)	Budget Def_TS_60m (Rank 2)	Best ROE_CS_60m (Rank 3)
Budget Def_CS_60m (Rank 1)	Current Account_CS_12m (Rank 2)	Budget Def_CS_60m (Rank 3)
Budget Def_TS_12m (Rank 1)	Earnings Yield_TS_12m (Rank 2)	Copper 12_CS_60m (Rank 3)
Current Account_CS_60m (Rank 1)	Inflation_CS_60m (Rank 2)	Current Account_CS_12m (Rank 3)
Current Account_TS_12m (Rank 1)	Operating Margin_CS_60m (Rank 2)	Current Account_TS_60m (Rank 3)
Inflation_CS_60m (Rank 1)	RSI14_CS_60m (Rank 2)	Inflation_CS_60m (Rank 3)
Operating Margin_CS_12m (Rank 1)	Shiller PE_CS_60m (Rank 2)	Operating Margin_CS_60m (Rank 3)
Operating Margin_CS_60m (Rank 1)	10Yr Bond 12_TS_60m (Rank 3)	Operating Margin_TS_60m (Rank 3)
RSI14_CS_60m (Rank 1)	120MA_TS_12m (Rank 3)	Shiller PE_CS_60m (Rank 3)
10Yr Bond 12_TS_60m (Rank 2)		

Average Strength of Helper Correlations Over Time



Summary of Helper Feature Analysis:

Total Windows: 236
Total Factors: 424
Helper Features per Factor: 10

Overall Correlation Statistics:
Mean Absolute Correlation: 0.714
Median Absolute Correlation: 0.714
Min Absolute Correlation: 0.214
Max Absolute Correlation: 1.000

Top 5 Most Frequently Selected Helper Factors:

1. PX_LAST_TS (4945 times)
2. Agriculture_12_TS_12m (4669 times)
3. Agriculture_TS_60m (4666 times)
4. Tot Return Index_TS (4590 times)
5. Agriculture_TS_12m (4568 times)