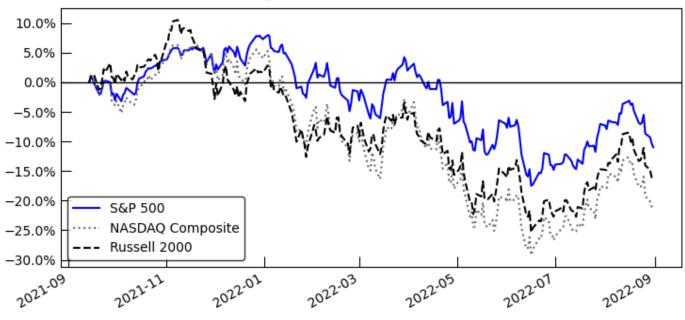
# **US Business Cycle Report**

#### For the Month of August 2022

US Equity Indices Trailing 12 Month Cumulative Returns



Source: Yahoo Finance, as of 2022-08-31

### **Monthly Summary**

**Business Cycle Phase** 

**Early Expansion** 

**Late Expansion** 

**Early Contraction** 

Late Contraction

**Target Asset Allocation** 

Target Sectors: HC, UT, IT Target Factor: Momentum

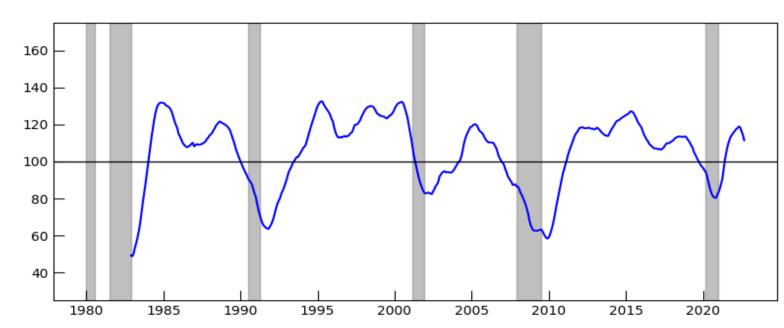
Target Sectors: UT, CD, ID
Target Factor: Low Volatility

Target Sectors: HC, MA, CS Target Factor: Safe Haven

Target Sectors: ID, EN, FN
Target Factor: Growth

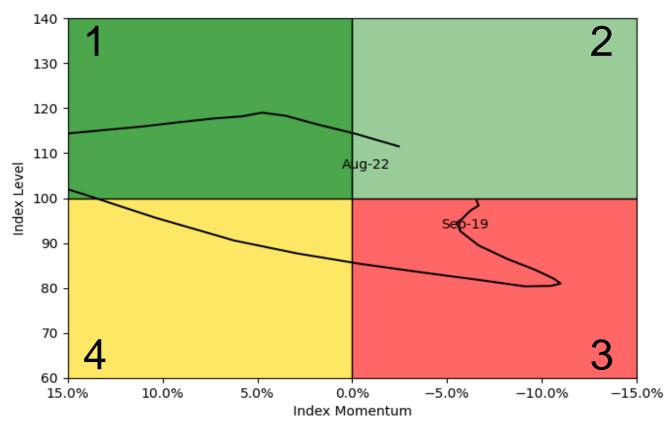
### Composite Business Cycle Indicator

#### Composite Business Cycle Indicator



Note: Shaded areas represent US recessions as indicated by NBER. Reading greater than 100 indicates expansion, less than 100 indicates contraction.

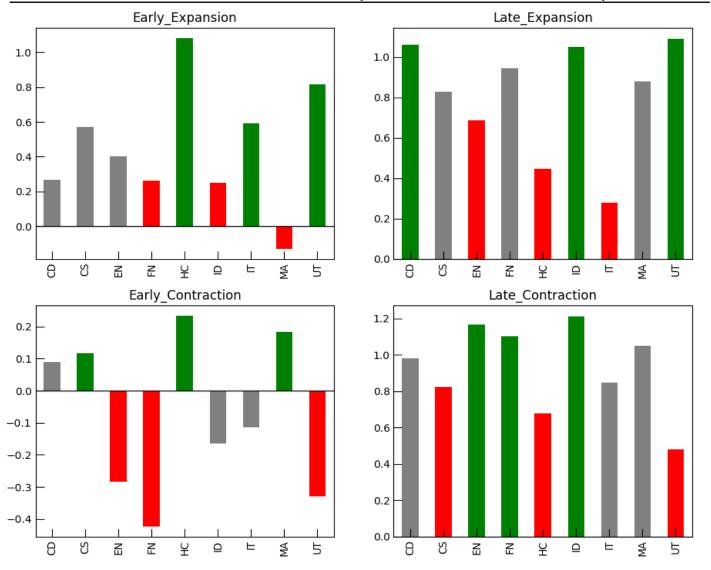
#### **Business Cycle Compass**



Note: Momentum calculated as 25% 6M Change, 75% 3M Average less 12M Average. 1 = Early Expansion, 2 = Late Expansion, 3 = Early Contraction, 4 = Late Contraction

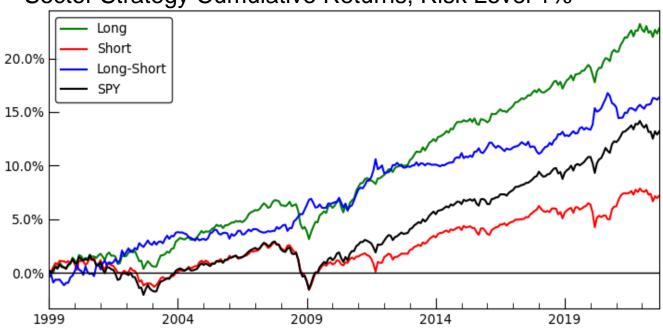
### **US Sector Rotation Strategy**

#### US Sectors Information Ratios by Phase of Business Cycle



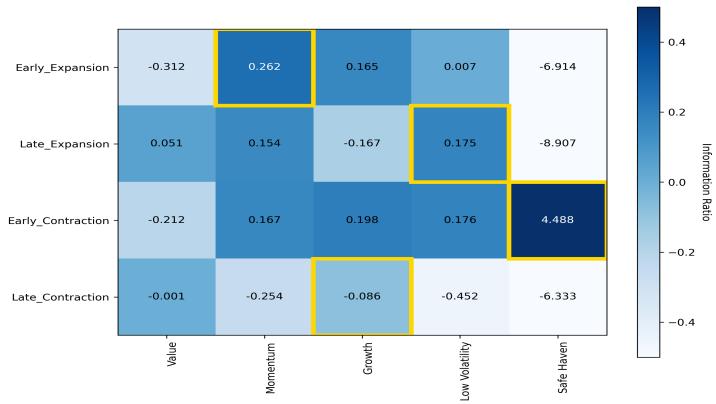
Note: Green bars denote sectors with long position, red short, and grey neutral. Sector returns based on SPDR Sector ETF returns from 1999-01-31 to 2022-08-31

#### Sector Strategy Cumulative Returns, Risk Level 1%



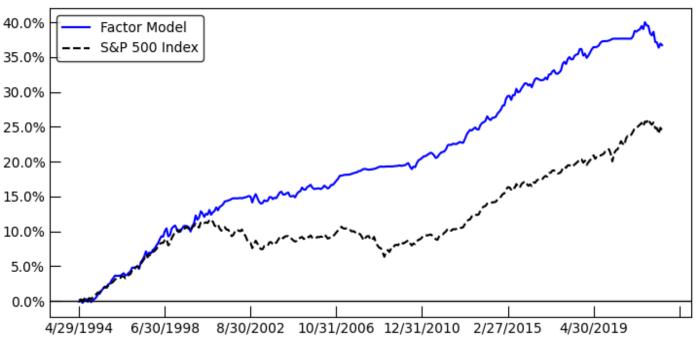
### **US Factor Rotation Strategy**

#### US Factors Information Ratios by Phase of Business Cycle

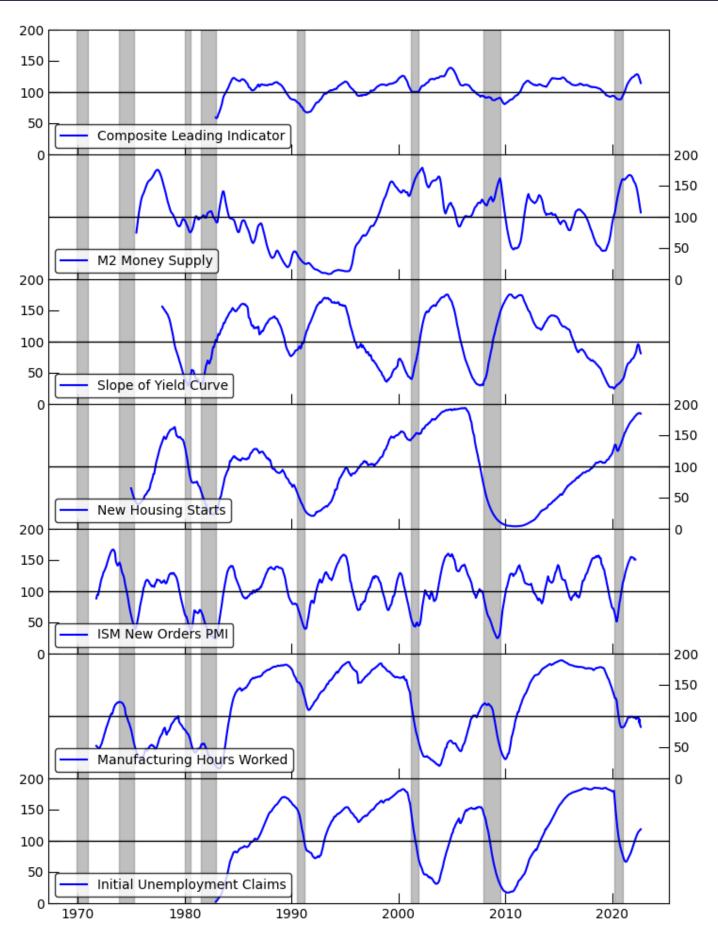


Note: Gold borders denote factors with long exposure during phase of Business Cycle. Information Ratio calculated as factor excess return to S&P 500 Index, scaled by annualized volatility. Returns sourced from period 1994-02-28 to 2022-08-31

#### Factor Strategy Cumulative Returns, Risk Level 1%

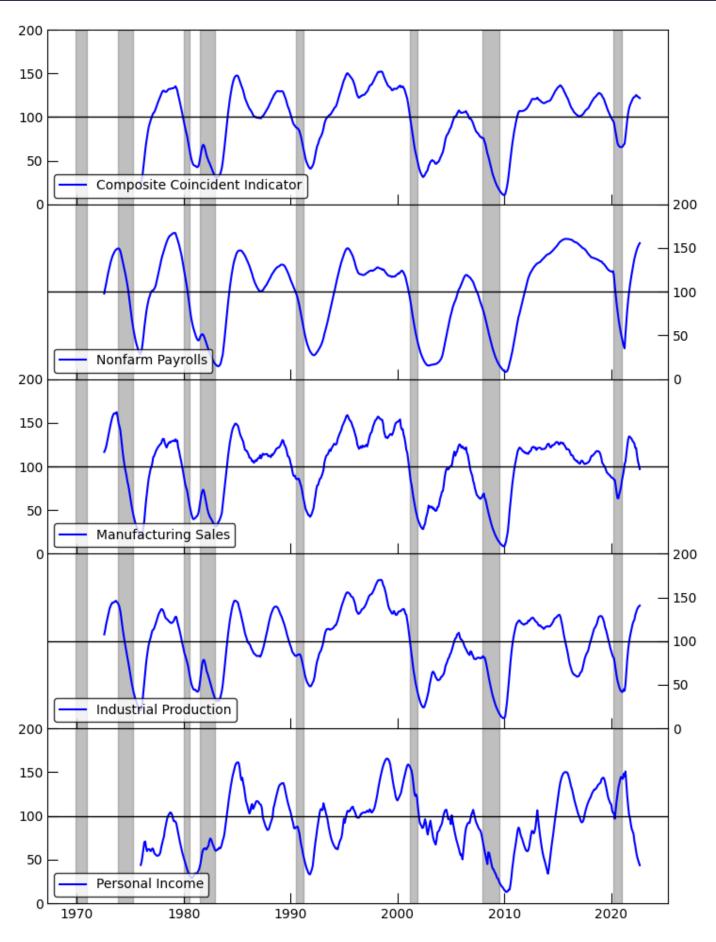


### Composite Leading Indicators



Note: Shaded areas represent US recessions as indicated by NBER. Reading greater than 100 indicates expansion, less than 100 indicates contraction.

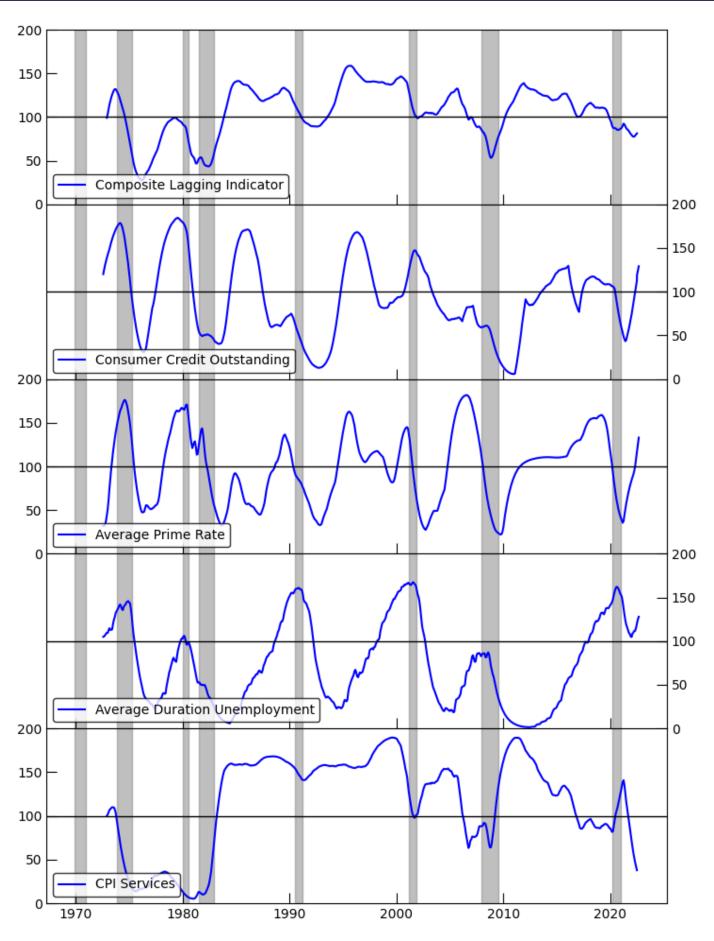
## Composite Coincident Indicators



Note: Shaded areas represent US recessions as indicated by NBER. Reading greater than 100 indicates expansion, less than 100 indicates contraction.

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## Composite Lagging Indicators



Note: Shaded areas represent US recessions as indicated by NBER. Reading greater than 100 indicates expansion, less than 100 indicates contraction.