

JULEX CAPITAL

Tactical Asset Allocation during recessions

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- We have a recession coming . . . inevitable . . . always have, always will
- So how will TAA (tactical asset allocation) perform during the next recession
- **That's a bridge too far**
- BUT . . . We can ask and answer how . . . TAA performed during past recessions

What is a recession?

It's well worth taking a moment to define this "economic behavior"

- **Most commonly used**

- NBER (National Bureau for Economic Research) officially defines when we are (and are not) in a recession
- NBER does NOT care about “investments” or your needs or your client’s needs
- They are serving a much much larger audience . . . With vastly different needs/objectives
- Their definition of a recession is subjective, flexible, and remains undefined
- Other than it will be based on
 - Severity
 - Duration
 - Breadth (geographic and sector)

- Less traditional
- However it might possibly be more relevant for investment professionals and their clients
- **Second definition**
 - A recession only occurs when GDP shrinks by at least 3.6201%
 - Economy stays in recession until it starts growing . . . And that growth is at least 3.6201%

How do these two definitions compare?

	Number of recessions since 11/30/1919	How often do they agree with each other (by month)	What portion of the time was spent in recession	Longest period of time without a recession (in years)
NBER definition	18	86 %	19.0 %	10.5
2nd definition (GDP decline or growth of at least 3.62%)	27	86 %	14.9 %	28.0

How are we going to define TAA?

- Select 8 assets that trended most strongly over the 11 months just completed
- All 8 must be **equal-weighted**
- However . . . if “cash” is selected . . . then it is over-weighted . . . “cash” is defined as 90-Day U.S. Treasury Bills . . . giving it an 11x overweight

- The playing field . . . 26 unique and quite different asset categories
 - 7 US stocks
 - 9 International stocks
 - 5 U.S. Treasuries
 - 1 Inflation-protected Treasury bond (TIPS)
 - 1 Precious metals
 - 3 Other commodities

- The data . . . Jan 1919 through today

Results . . . 1919 through today

- The TAA model which was burdened with transactions costs
- 3 different passive index Buy&Hold portfolios . . . this is a seriously high hurdle
 - Pure 100% U.S. .
 - 50% stocks and 50% bonds
 - Global . . . Half U.S. and half international
 - 50% stocks and 50% bonds
 - Global but with 10% allocated to commodities
- **WHY?**
 - Because we've got to ask/answer how other practical solutions would have performed

- Start with NBER definition of recessions

During NBER definition of recessions

	TAA after transaction costs	Pure U.S. passive benchmark	Global passive benchmark	Global passive benchmark with 10% commodities
Annual return above inflation	4.6	0.8	-1.0	-1.5
Risk-adjusted return (return/risk)	0.5	0.0	-0.1	-0.1
Risk (standard deviation)	10.0	16.2	13.2	12.5
Annual margin of outperformance by TAA portfolio		3.8	5.6	6.1

During NBER definition of expansions

	TAA after transaction costs	Pure U.S. passive benchmark	Global passive benchmark	Global passive benchmark with 10% commodities
Annual return above inflation	12.5	7.0	7.1	6.8
Risk-adjusted return (return/risk)	1.1	0.8	0.9	0.9
Risk (standard deviation)	11.3	8.9	8.1	7.7
Annual margin of outperformance by TAA portfolio		5.5	5.4	5.6

Shift . . . to GDP growth/shrinkage
definition of recessions

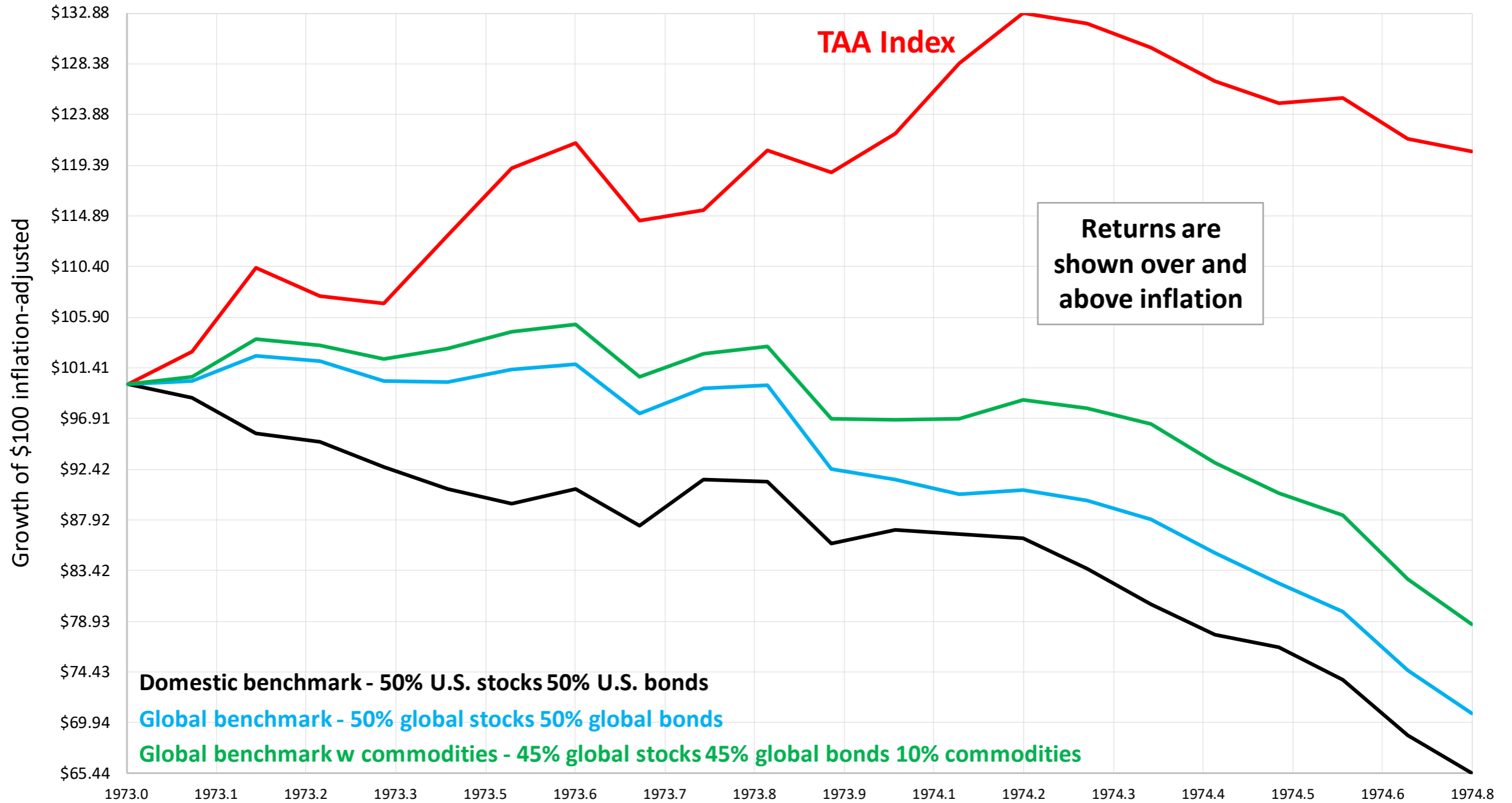
During GDP growth/shrinkage definition of expansions

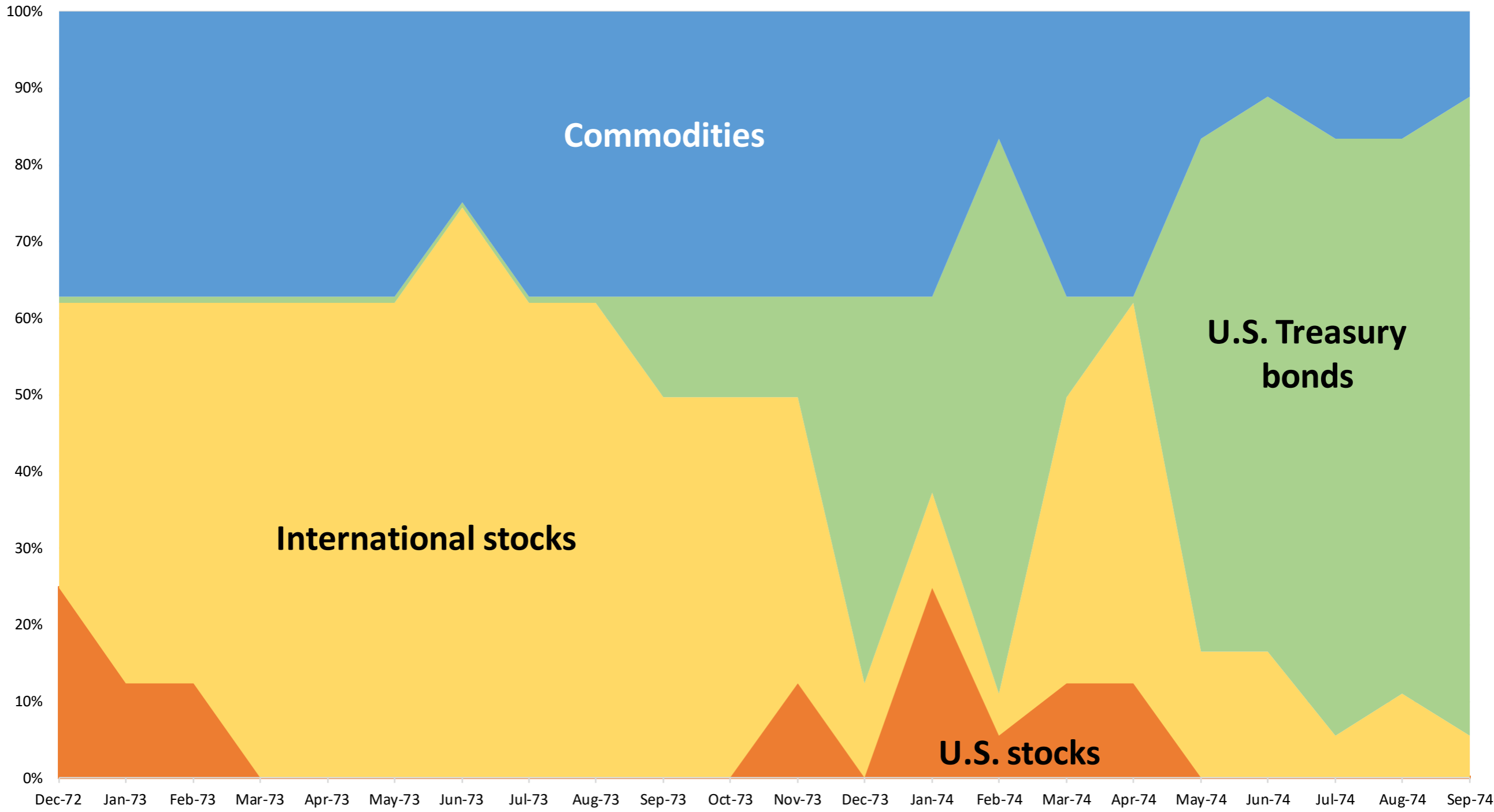
	TAA after transaction costs	Pure U.S. passive benchmark	Global passive benchmark	Global passive benchmark with 10% commodities
Annual return above inflation	11.3	6.6	5.8	5.7
Risk-adjusted return (return/risk)	1.0	0.7	0.7	0.7
Risk (standard deviation)	11.1	9.5	8.4	8.0
Annual margin of outperformance by TAA portfolio		4.7	5.5	5.6

During GDP growth/shrinkage definition of recessions

	TAA after transaction costs	Pure U.S. passive benchmark	Global passive benchmark	Global passive benchmark with 10% commodities
Annual return above inflation	8.9	1.2	3.4	2.3
Risk-adjusted return (return/risk)	0.8	0.1	0.3	0.2
Risk (standard deviation)	11.2	15.9	13.3	12.6
Annual margin of outperformance by TAA portfolio		7.7	5.5	6.6

Always ask . . . “Why?”



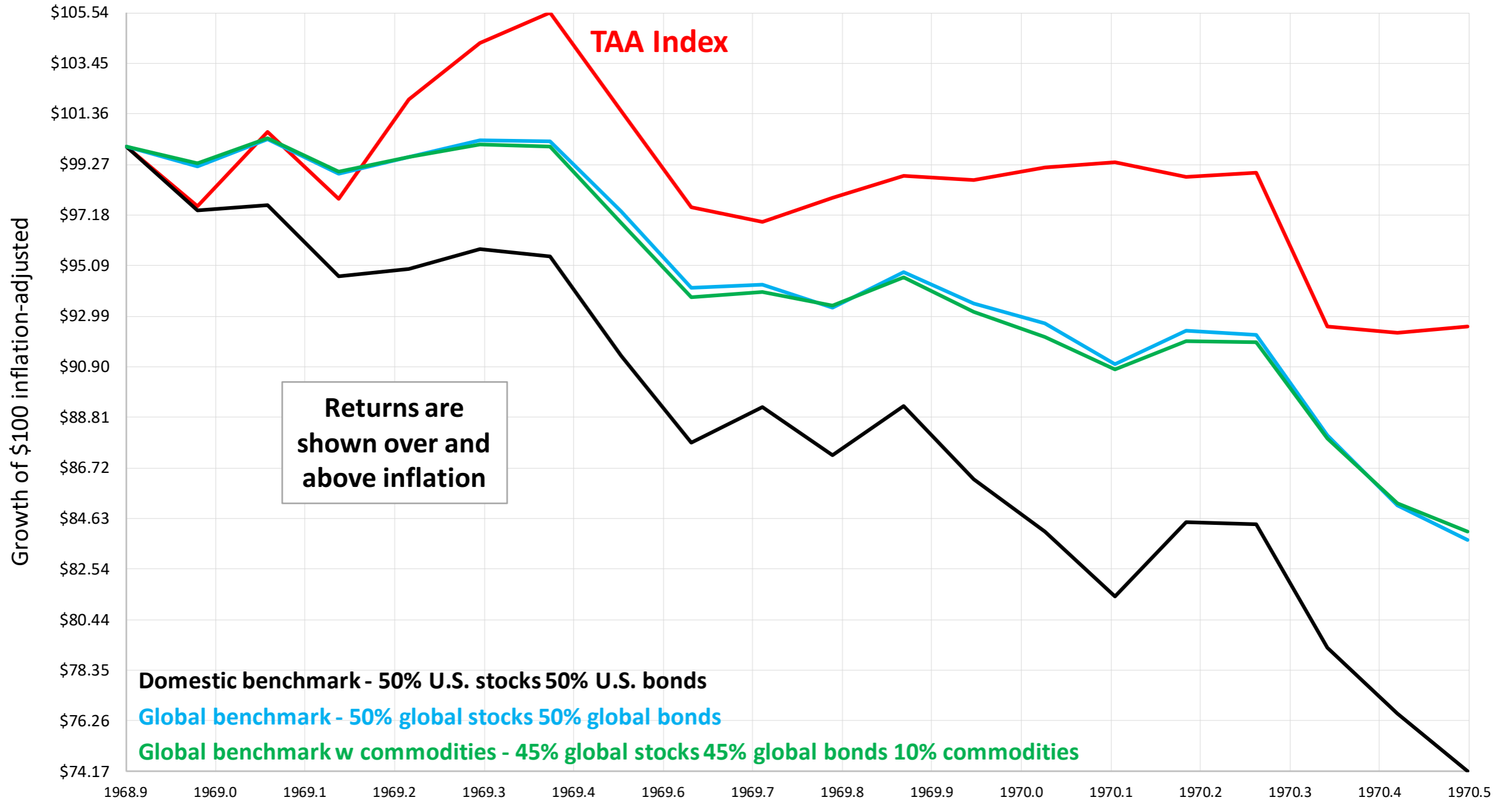


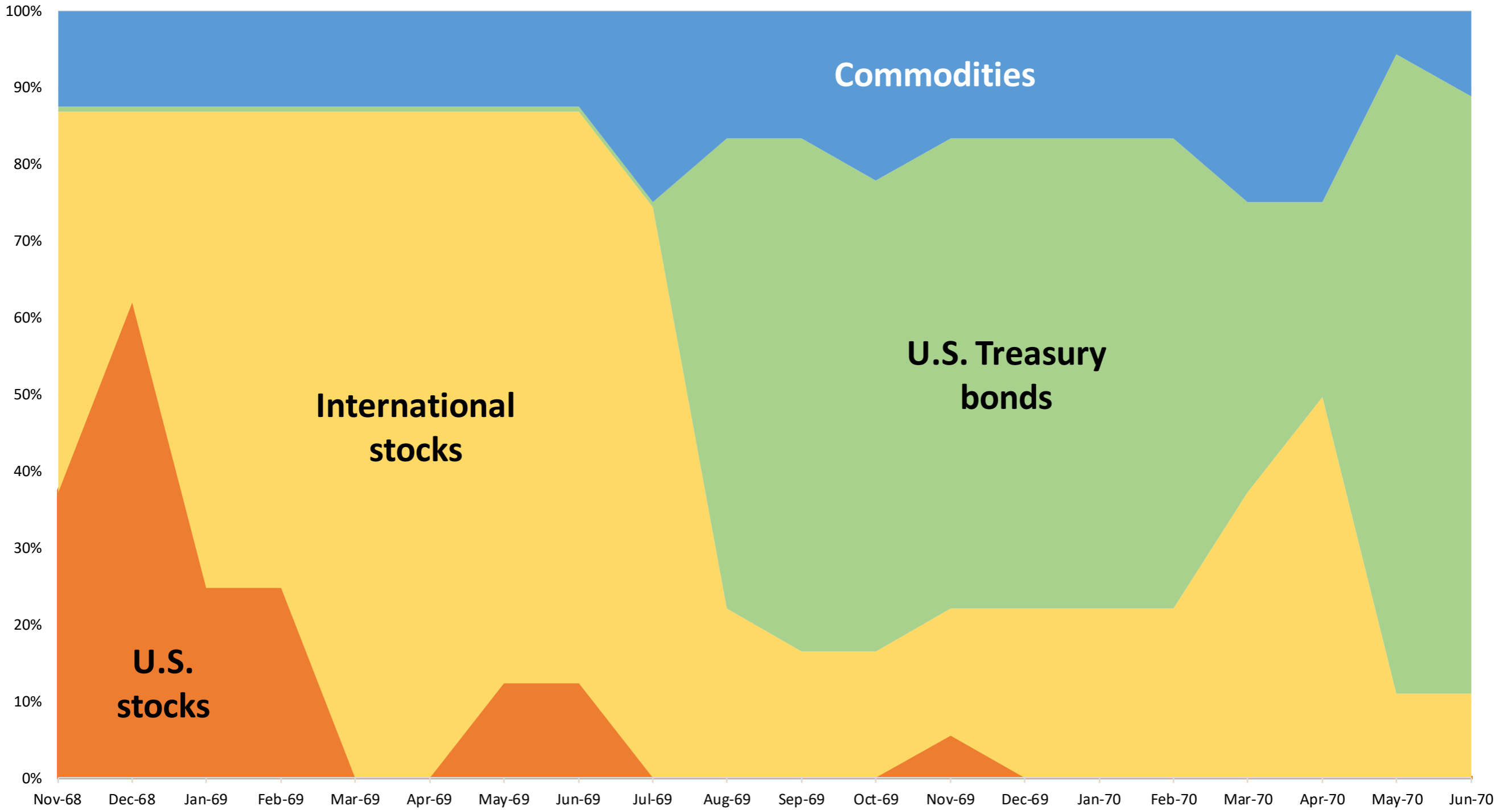
Commodities

International stocks

**U.S. Treasury
bonds**

U.S. stocks





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The Value opportunity - Is it too late

Friday

February 24th

11:00 a.m. EASTERN

All data and statistics were provided by Global Financial Data, Inc. and NDR, Inc. (unless otherwise indicated in the exhibit)

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