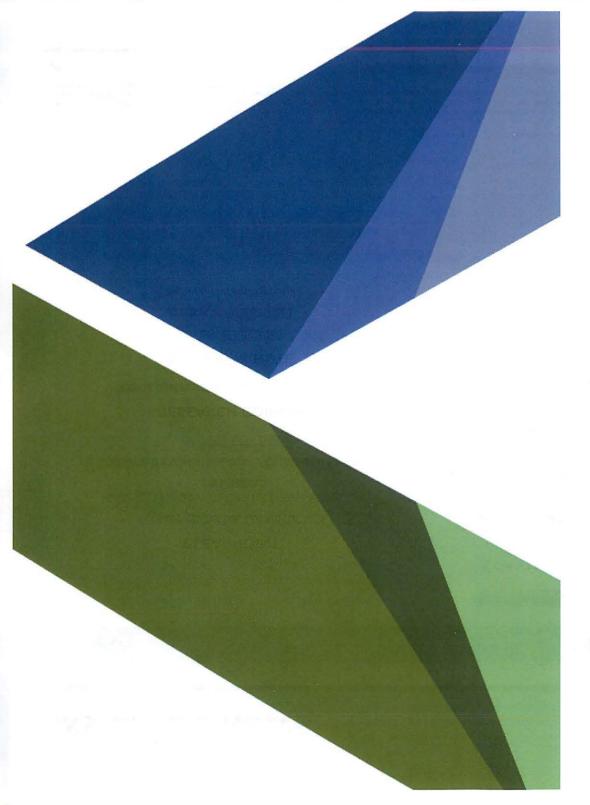


BOARD OF TRUSTEES INVESTMENT COMMITTEE Allen L. Ryan, Jr., Chair Charles T. George, Vice Chair All Trustees are Members

Wednesday, December 6, 2023 10:30 a.m. or immediately following previous meeting Board Room Tod Hall

AGENDA

- A. Disposition of Minutes for Meeting
- B. Old Business
- C. Committee Item
 - 1. Discussion Item
- C.1.a. = Tab 1
- a. December 6, 2023 Quarterly Portfolio Asset Allocation and Investment Performance Review
 John Colla, Clearstead, will report.
- D. New Business
- E. Adjournment



December 6, 2023

YOUNGSTOWN STATE UNIVERSITY



1100 Superior Avenue East Suite 700 Cleveland, Ohio 44114 216.621.1090 | clearstead.com

INSIGHTS & NEWS

PR, AWARDS, & INITIATIVES **PUBLICATIONS** PODCAST & VIDEOS PR Clearstead Advisors Acquires Santa Fe-Based Avalon Trust INVESTMENT FORUM Clearstead Acquires the Business of CLS CLEARPOINT Consulting, LLC Vacation Home Tax Considerations Today Isn't too Soon to Plan for Future Estate Tax AWARD Podcast Episode 12: Law Changes The Impact of AI on Investments 2022 NAPA Top DC Advisor Teams* The Case for US Small Caps - Remastered for the 21st Century Podcast Episode 13: An Exploration of Emerging Markets RESEARCH CORNER **VIDEOS** Weekly Updates from our Investment Office 3Q23 Quarterly Insights MARKET MINUTE About Clearstead **BLOGS** Review of July 2023 Private Wealth Management 7/7: Governor Mike DeWine Signs Ohio's Fiscal Year Review of August 2023 Institutional Investment Consulting 2024-2025 Budget Bill into Law Review of September 2023 The Investment Office 7/11: Weathering What's to Come - Operational, Financial, & Investment Realignment for Challenges Facing Higher Education 9/8: The Importance of Knowing Your Retirement Number

*The National Association of Plan Advisors (NAPA) Top DC Advisor Teams list is an independent listing produced annually by NAPA. The data reported was as of 12/31/2022. The NAPA Top DC Advisor Teams list is based on self-reported data from RIA firms, regulatory disclosures and NAPA's research. The listing is based on RIAs that provide services to defined contribution plans in the following primary areas: assets under advisement for DC plans supported, total number of DC plans supported, % of total firm revenue from DC plan support. This award does not evaluate the quality of services provided to clients and is not indicative of the practice's future performance. While Clearstead is a member of NAPA, neither participating RIA firms nor their employees pay a fee





- Initiatives
- Capital Markets Update
- Non-Endowment Assets: Performance & Asset Allocation Review

APPENDIX

Endowment Assets: Performance & Asset Allocation Review

Detailed Performance

Supporting Information





INITIATIVES

2023 CALENDAR YEAR INITIATIVES

		1Q	2Q	3Q	4Q	COMMENTS:
	Investment Policy Review		1			Updates with Discretion Decision
	Strategic Asset Allocation Review			1		
STRATEGIC /	Peer Review					Pushed to CY24 until peer data is released for FY23
ADMINISTRATIVE	2024 Oversight Dashboard					Follow up for March Meeting
	STAR Ohio/Plus Annual Review		V			Completed in June 2023
	Fixed Income Review		/			
	Alternative Investments Review	1				March '23: Real Assets
PODTEONO	Global Equity Review					
PORTFOLIO	Invt Manager Recommendation	1				Infrastructure Manager Recommendation
	Capital Markets Review	1	✓		✓	
PERFORMANCE	Quarterly Performance Review	1	1	1	1	
	Endowed Account Review / Oversight	1	1	1	1	
	Fee Review			1		
	ORC Compliance Review			1		
OTHER	Clearstead Firm Update	1				
	Investment Structure Review	1				

LAST REVIEWED

Investment Policy: 06/21/2023 Strategic Asset Allocation: 09/19/2023 09/19/2023

Fee Review:

MEETING SCHEDULE

1Q: March 1, 2023

2Q: June 21, 2023

3Q: September 19, 2023

4Q: December 6, 2023





CAPITAL MARKETS UPDATE

QUARTERLY THEMES

WHAT HAPPENED LAST QUARTER?

- Negative quarter for most asset classes; Interest rates rose dampening outlook for growth stocks
- The Fed likely to continue tighter monetary policy amidst stronger than expected growth and headline inflation
 - Broad-based decline: 9 of 11 sectors negative; Energy stocks soared as crude oil prices rose 30%
 - Interest rate-sensitive utilities and real estate stocks suffered largest losses
- Global equities remain in positive territory following selloff in 3rd quarter:
 - Quarter: S&P 500 -3.3%; MSCI EAFE -4.1%; MSCI Emerging Markets -2.9%; Bloomberg US Agg -3.2%
 - YTD: S&P 500 +13.1%; MSCI EAFE +7.1%; MSCI Emerging Markets +1.8%; Bloomberg US Agg -1.2%

LOOKING FORWARD:

- Global economy exceeding expectations, pushing a potential recession into 2024
 - o Good macroeconomic news may have a "negative effect" on markets
 - Technicals point to markets being range bound; Breakout above upper bound appears unlikely
- · Corporate earnings and profit margin resiliency will be tested with slowing economic growth
 - o Equity markets distorted by historic concentration of the "Magnificent Seven" in both price and valuation
 - o Continued strength in labor markets and the U.S. consumer could provide support for markets
- New paradigm of higher interest rates for longer; Consumers and businesses adjusting to higher interest costs
 - Highly leveraged sectors will experience a gradual shake-out
- Emphasizing high-quality fixed income within client portfolios

Source: Clearstead, Federal Reserve, Bloomberg LP. As of 9/30/2023. Past performance is not an indicator of future results



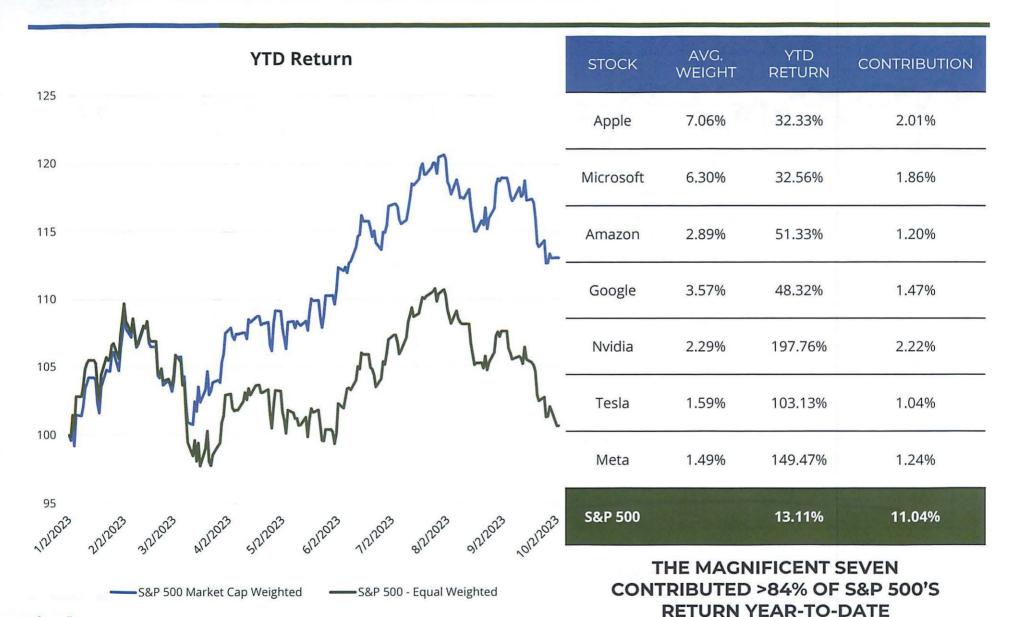
ASSET CLASS RETURNS

<u>2013</u>	2014	2015	<u>2016</u>	<u>2017</u>	2018	2019	<u>2020</u>	<u>2021</u>	2022	Q1 2023	Q2 2023	Q3 2023	2023 YTD
Sm/Mid	Large Cap	Large Cap	Sm/Mid	Em Mkt	Cash	Large Cap	Sm/Mid	Large Cap	Cash	Dev Intl	Large Cap	Cash	Large Cap
36.8%	13.7%	1.4%	17.6%	37.3%	1.9%	31.5%	20.0%	28.7%	1.5%	8.5%	8.7%	1.3%	13.1%
Large Cap	Sm/Mid	US Bonds	Hi Yld	Dev Intl	US Bonds	Sm/Mid	Large Cap	Sm/Mid	Hdg Fnds	Large Cap	Sm/Mid	Hdg Fnds	Dev Intl
32.4%	7.1%	0.6%	17.5%	25.0%	0.0%	27.8%	18.4%	18.2%	-4.7%	7.5%	5.2%	0.7%	7.1%
Dev Intl	US Bonds	Cash	Large Cap	Large Cap	Glb Bond	Dev Intl	Em Mkt	Dev Intl	Hi Yld	Em Mkt	Dev Intl	Hi Yld	Hi Yld
22.8%	6.0%	0.1%	12.0%	21.8%	-0.9%	22.0%	18.3%	11.3%	-11.2%	4.0%	3.0%	0.5%	6.0%
Hdg Fnds	Hdg Fnds	Hdg Fnds	Em Mkt	Sm/Mid	Hi Yld	Em Mkt	Hdg Fnds	Hdg Fnds	US Bonds	Hi Yld	Hi Yld	Em Mkt	Cash
9.0%	3.4%	-0.3%	11.2%	16.8%	-2.3%	18.4%	10.9%	6.5%	-13.0%	3.7%	1.6%	-2.9%	3.7%
Hi Yld	Hi Yld	Dev Intl	US Bonds	Glb Bond	Hdg Fnds	Hi Yld	Glb Bond	Hi Yld	Dev Intl	Sm/Mid	Hdg Fnds	US Bonds	Sm/Mid
7.4%	2.5%	-0.8%	2.7%	9.3%	-4.0%	14.4%	9.5%	5.4%	-14.5%	3.4%	1.5%	-3.2%	3.6%
Cash	Cash	Sm/Mid	Glb Bond	Hdg Fnds	Large Cap	US Bonds	Dev Intl	Cash	Large Cap	Glb Bond	Cash	Large Cap	Hdg Funds
0.1%	0.0%	-2.9%	1.9%	7.8%	-4.4%	8.8%	7.8%	0.1%	-18.1%	3.1%	1.2%	-3.3%	3.0%
US Bonds	Em Mkt	Hi Yld	Dev Intl	Hi Yld	Sm/Mid	Hdg Fnds	US Bonds	US Bonds	Sm/Mid	US Bonds	EM Mkt	Dev Intl	EM Mkt
-2.0%	-2.2%	-4.6%	1.0%	7.5%	-10.0%	8.4%	7.5%	-1.5%	-18.4%	3.0%	0.9%	-4.4%	1.8%
Em Mkt	Glb Bond	Glb Bond	Hdg Fnds	US Bonds	Dev Intl	Glb Bond	Hi Yld	Em Mkt	Glb Bond	Hdg Fnds	US Bonds	Glb Bond	US Bonds
-2.6%	-2.8%	-4.8%	0.5%	3.5%	-13.8%	5.0%	6.2%	-2.5%	-19.6%	1.6%	-0.8%	-4.7%	-1.2%
Glb Bond	Dev Intl	Em Mkt	Cash	Cash	Em Mkt	Cash	Cash	Glb Bond	Em Mkt	Cash	Glb Bonds	Sm/Mid	Glb Bonds
-4.9%	-4.5%	-14.9%	0.3%	0.9%	-14.6%	2.3%	0.5%	-8.2%	-20.1%	1.1%	-2.9%	-4.8%	-4.6%

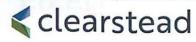
Past performance is not an indicator of future results. Asset classes represented by: Large Cap – S&P 500 Index; Sm/Mid – Russell 2500 Index; Dev Intl – MSCI EAFE Index; Em Mkt – MSCI Emerging Markets Index; HI Yld – Bank of America Merrill Lynch U.S. High Yield Master II; US Bonds – Barclays Capital U.S. Aggregate; Glb Bond – Barclays Capital Global Treasury ex US; Hdg Fnds – HFRI FOF; Diversified Index; Cash – Merrill Lynch 91-day Tbill . Data as of 9/30/2023. Source: Morningstar Direct.



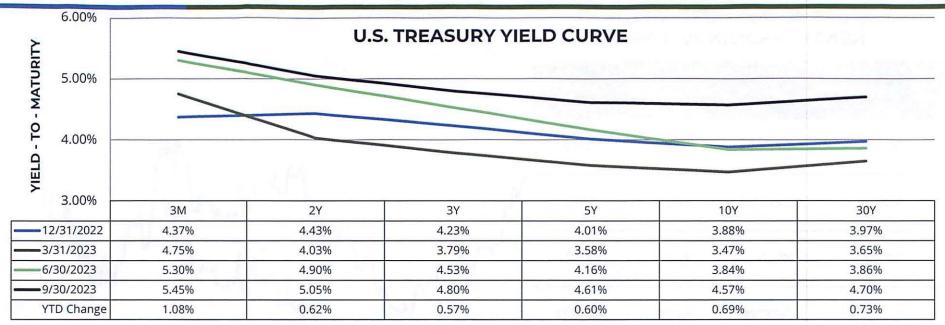
CONCENTRATED MARKET ENVIRONMENT

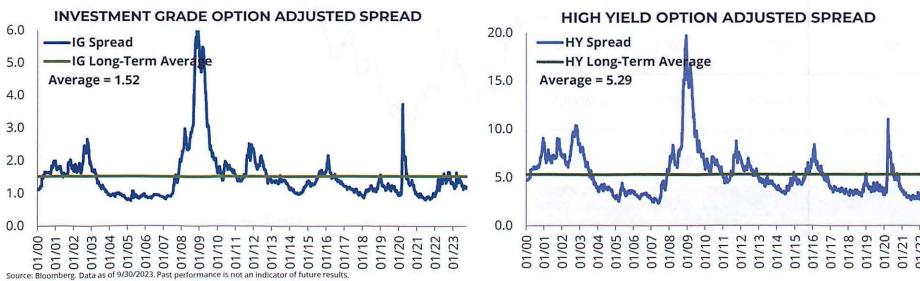


Source: Clearstead, Morningstar Data as of 10/2/2023. Past performance is not an indicator of future results.



FIXED INCOME







MARKETS PERFORMANCE: NOVEMBER UPDATE

- Risk-on markets in November as every U.S. equity sector was up except Energy; Market leadership broadens
 - Growth outpaced value in U.S. large-cap, while mid and small cap stocks outperformed; International was modestly ahead of U.S. markets; Emerging market equity challenges persisted largely driven by China and a modestly weakening U.S. dollar
- In fixed income, interest rates moved lower which aided longer "duration" strategies; Core fixed income
 moved back into positive territory on a calendar year-to-date basis
- Markets were focused on a lower inflation print and the notion that the Fed was done hiking interest rates.
 Most risk assets surged in the first half of the month; The Q4 earnings outlook has weakened, but Q3 earnings were better than expected
 - Congress avoided a government shutdown, while the war erupting in the Middle East has not negatively impacted oil markets yet; The U.S. economy remains resilient

MARKET	2022	Q1-23	Q2-23	Q3-23	ОСТ	NOV*	YTD	Trend
S&P 500	-18.1%	7.5%	8.7%	-3.3%	-2.1%	7.8%	19.3%	
Russell 2000	-20.5%	2.7%	5.2%	-5.1%	-6.8%	8.3%	3.4%	
MSCI EAFE	-14.5%	8.5%	3.0%	-4.1%	-4.1%	8.0%	11.0%	III
MSCI EM	-20.1%	4.0%	0.9%	-2.9%	-3.9%	6.8%	4.5%	
MSCI China	-21.9%	4.7%	-9.7%	-1.9%	-4.3%	2.6%	-9.0%	
MSCI ACWI	-18.0%	7.4%	6.2%	-3.3%	-3.0%	7.8%	15.6%	
Bloomberg US Agg Bond	-13.0%	3.0%	-0.8%	-3.2%	-1.6%	3.4%	0.5%	
Bloomberg High Yield Bond	-11.2%	3.6%	1.8%	0.5%	-1.2%	3.1%	7.8%	
Bloomberg Muni Bond	-8.5%	2.8%	-0.1%	-4.0%	-0.9%	4.0%	1.7%	=- <u>-</u> =

*November returns thru 17-Nov-2023 Source: Bloomberg 11/17/2023 Past performance is not an indicator of future results





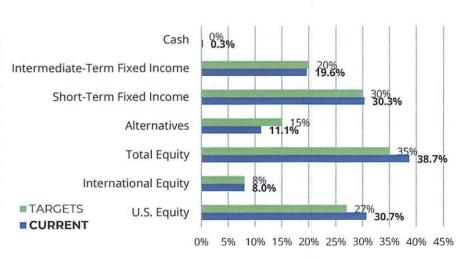
NON-ENDOWMENT ASSETS:
PERFORMANCE & ASSET ALLOCATION
REVIEW

NON-ENDOWMENT PERFORMANCE REVIEW (AS OF 9/30/2023)

				Т	RAILING	PERIO	s			C	ALENDA	AR YEAR	S	
NON-ENDOWMENT ASSETS	MARKET VALUE (\$MM)	QTD	FYTD	CYTD	1 YR	3 YR	5 YR	7 YR	10 YR	2022	2021	2020	2019	SINCE INCEPTION ⁴
Total Non-Endowment Assets	\$84.500	-1.0%	-1.0%	4.9%	8.1%	3.5%	4.1%	4.5%	3.9%	-7.8%	7.8%	9.5%	11.5%	3.9%
В	enchmark ¹	0.0%	0.0%	4.4%	7.2%	2.5%	3.1%	3.3%	2.9%	-4.7%	4.3%	5.9%	8.7%	3.1%
Operating & Short-Term Pool	\$22.104	1.3%	1.3%	3.6%	4.4%	1.7%	1.8%	1.6%	1.1%	1.4%	0.0%	1.1%	2.4%	0.9%
В	enchmark²	1.3%	1.3%	3.5%	4.4%	1.6%	1.7%	1.5%	1.1%	1.2%	0.0%	0.8%	2.3%	0.9%
Long-Term Pool	\$62.396	-1.6%	-1.6%	4.9%	9.6%	3.1%	3.8%	4.7%	4.4%	-11.2%	9.5%	8.8%	15.3%	4.7%
В	enchmark³	-1.0%	-1.0%	5.1%	9.5%	3.0%	4.1%	4.7%	4.4%	-9.7%	8.0%	10.0%	14.2%	4.4%

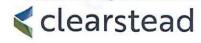
LONG-TERM POOL ASSET ALLOCATION

	CURRENT	TARGETS	RANGE	+/-
U.S. Equity	30.7%	27%	20-35%	3.7%
International Equity	8.0%	8%	0-15%	0.0%
Total Equity	38.7%	35%	25-45%	3.7%
Alternatives	11.1%	15%	0-20%	-3.9%
Short-Term Fixed Income	30.3%	30%	25-45%	0.3%
Intermediate-Term Fixed Income	19.6%	20%	10-30%	-0.4%
Cash	0.3%	0%	0-5%	0.3%



1) 45% BofA Merrill Lynch 91-Day T-Bill / 17% BofA Merrill Lynch US Corp & Gov 1-3 Yrs / 11% BBgBarc US Govt/Credit Int TR / 8% Total Alternatives Benchmark / 15% Russell 3000 / 4% MSCI EAFE. 2) 95% BofA Merrill Lynch 91-Day T-Bill / 5% Barclays 1-3 Yr. Govt.

^{3) 27%} Russell 3000 / 8% MSCI EAFE / 15% Total Alternatives Benchmark / 30% BofA Merrill Lynch US Corp & Gov 1-3 Yrs /20% BBgBarc US Govt/Credit Int TR. 4) Inception date for Long-Term and Short-Term Pools: June 2010, Inception Date for Total Non-Endowment Assets: March 2004.



LONG-TERM POOL PERFORMANCE REVIEW

	% of Portfolio	QTD (%)	FYTD (%)	YTD (%)	1 Yr (%)	2 Yr (%)	3 Yr (%)	5 Yr (%)	7 Yr (%)	10 Yr (%)	2022 (%)	2021 (%)	2020 (%)	Inception (%)	Inception Date
Total University Assets	100.0	-1.0	-1.0	4.9	8.1	-0.5	3.5	4.1	4.5	3.9	-7.8	7.8	9.5	3.9	Apr-04
Total Policy Benchmark		0.0	0.0	4.4	7.2	0.4	2.5	3.1	3.3	2.9	-4.7	4.3	5.9	3.1	
Total Operating & Short Term	26.2	1.3	1.3	3.6	4.4	2.5	1.7	1.8	1.6	1.1	1.4	0.0	1.1	0.9	Jul-10
Total Operating & Short Term Benchmark		1.3	1.3	3.5	4.4	2.3	1.6	1.7	1.5	1.1	1.2	0.0	0.8	0.9	
Federated Hermes Government Obligations Fund	100.0	1.2	1.2	3.4	4.3	2.4	1.6	1.5	1.3	0.9	1.4	0.0	0.3	2.5	Nov-21
90 Day U.S. Treasury Bill		1.3	1.3	3.6	4.5	2.5	1.7	1.7	1.5	1.1	1.5	0.0	0.7	2.6	
Total Long Term/ Reserves Pool	73.8	-1.6	-1.6	4.9	9.6	-2.1	3,1	3.8	4.6	4.4	-11.2	9.5	8.8	4.7	Jul-10
Total Long Term/ Reserves Fund Benchmark		-1.0	-1.0	5.1	9.5	-1.4	3.0	4.1	4.7	4.4	-9.7	8.0	10.0	4.4	
Total Domestic Equity	30.8	-3.6	-3.6	10.0	19.2	-0.3	10.1	8.7	11.3	10.9	-17.7	26.9	18.5	12.9	Jul-10
Russell 3000 Index		-3.3	-3.3	12.4	20.5	-0.4	9.4	9.1	11.6	11.3	-19.2	25.7	20.9	13.2	
Vanguard Institutional Index	20.9	-3.3	-3.3	13.0	21.6	1.4	10.1	9.9	12.2	11.9	-18.1	28.7	18.4	13.5	Jul-10
S&P 500 Index		-3.3	-3.3	13.1	21.6	1.4	10.2	9.9	12.2	11.9	-18.1	28.7	18.4	13.6	
Vanguard Mid Cap Index Adm	4.7	-5.1	-5.1	3.3	12.6	-4.8	7.3	6.5	8.7	9.0	-18.7	24.5	18.2	10.9	Oct-10
Vanguard Mid Cap Index Benchmark		-5.1	-5.1	3.3	12.6	-4.8	7.3	6.5	8.7	9.1	-18.7	24.5	18.2	10.9	
Loomis Sayles Sm Growth N	2.6	-5.2	-5.2	3.5	11.8	-8.3	3.2	3.9	10.1	8.2	-22.8	10.2	34.3	5.6	Sep-19
Russell 2000 Growth Index		-7.3	-7.3	5.2	9.6	-12.0	1.1	1.6	6.8	6.7	-26.4	2.8	34.6	4.3	
Victory Integrity Small Value Y	2.6	-1.4	-1.4	5.1	19.3	2.0	21.9	5.2	7.8	7.2	-7.7	33.6	1.2	9.8	Oct-10
Russell 2000 Value Index		-3.0	-3.0	-0.5	7.8	-5.8	13.3	2.6	5.9	6.2	-14.5	28.3	4.6	8.5	
Total International Equity	8.0	-4.8	-4.8	5.8	21.1	-5.8	4.8	3.9	5.6	4.2	-17.6	10.0	16.7	4.7	Oct-10
MSCI EAFE (Net)		-4.1	-4.1	7.1	25.6	-3.0	5.8	3.2	5.3	3.8	-14.5	11.3	7.8	4.9	
MSCI AC World ex USA (Net)		-3.8	-3.8	5.3	20.4	-5.1	3.7	2.6	4.7	3.3	-16.0	7.8	10.7	3.9	
William Blair International Growth I	3.5	-8.9	-8.9	1.4	14.1	-14.2	-2.7	2.7	4.9	4.0	-28.3	9.0	32.0	5.8	Jul-12
MSCI AC World ex USA (Net)		-3.8	-3.8	5.3	20.4	-5.1	3.7	2.6	4.7	3.3	-16.0	7.8	10.7	5.0	
Dodge & Cox Internat'l Stock	4.5	-1.3	-1.3	9.3	26.7	2.1	12.1	4.4	5.9	4.1	-6.8	11.0	2.1	5.1	Oct-10
MSCI EAFE (Net)		-4.1	-4.1	7.1	25.6	-3.0	5.8	3.2	5.3	3.8	-14.5	11.3	7.8	4.9	



LONG-TERM POOL PERFORMANCE REVIEW

	% of Portfolio	QTD (%)	FYTD (%)	YTD (%)	1 Yr (%)	2 Yr (%)	3 Yr (%)	5 Yr (%)	7 Yr (%)	10 Yr (%)	2022	2021 (%)	2020 (%)	Inception (%)	Inception Date
Total Alternatives	11.1	-0.3	-0.3	4.2	6,1	-2.2	2.9	1.2	1.9	1	-6.9	5.3	-3.7	1.3	Mar-15
Total Alternatives Benchmark		0.5	0.5	2.8	4.6	-1.1	3.8	2.9	3.3	-	-5.3	6.2	5.4	2.6	
Weatherlow Offshore Fund I Ltd CI IIA	7.5	-0.4	-0.4	3.3	4.9	-3.8	3.8	5.3	5.5	4.8	-8.9	5.6	24.7	-3.4	Jul-21
HFRI Fund of Funds Composite Index		0.5	0.5	2.8	4.6	-1.1	3.8	3.4	3.8	3.3	-5.3	6.2	10.9	-0.7	
H.I.G. Whitehorse Principal Lending Offshore Feeder Fd, L.P.	3.7	0.0	0.0	6.1	7.8	19 200	-		-	14 -11		400	12 1	8.2	Jul-22
Credit Suisse Leveraged Loan Index		3.4	3.4	9.9	12.5	4.7	5.9	4.3	4.6	4.3	-1.1	5.4	2.8	10.9	
Total Fixed Income	50.0	-0.2	-0.2	1.9	3.3	-2.7	-1.3	1.4	1.2	1.4	-6.7	0.1	5.2	1.7	Jul-10
Total Fixed Income Benchmark		0.2	0.2	1.5	2.6	-2.3	-1.5	1.2	0.9	1.1	-5.4	-0.8	4.5	1.4	
JPMorgan Core Bond	7.9	-3.0	-3.0	-0.5	0.7	-6.7	-4.5	0.5	0.3	1.3	-12.3	-1.1	8.1	0.2	Sep-17
Blmbg. U.S. Aggregate Index		-3.2	-3.2	-1.2	0.6	-7.3	-5.2	0.1	-0.1	1.1	-13.0	-1.5	7.5	-0.2	
YSU Intermediate Term Bond	6.8	-0.9	-0.9	1.0	2.8	-3.9	-2.7	1.4	0.9	1.4	-8.0	-1.3	7.5	2.9	Apr-04
Blmbg. Intermed. U.S. Government/Credit		-0.8	-0.8	0.7	2.2	-4.2	-2.9	1.0	0.6	1.3	-8.2	-1.4	6.4	2.6	
PGIM High Yield R6	5.0	0.4	0.4	5.0	8.9	-3.3	1.6	3.1	4.0	4.5	-11.5	6.5	5.7	3.9	Jan-17
Blmbg. U.S. Corp: High Yield Index		0.5	0.5	5.9	10.3	-2.7	1.8	3.0	3.8	4.2	-11.2	5.3	7.1	3.7	
YSU Short Term Bond	20.5	0.7	0.7	2.1	3.2	-0.9	-0.5	1.5	1.2	1.2	-3.3	-0.4	3.7	2.1	Apr-04
ICE BofA 1-3 Yr. Gov/Corp		0.8	0.8	1.9	2.8	-1.2	-0.7	1.2	1.0	1.0	-3.8	-0.4	3.3	1.9	
Lord Abbett Short Duration Income I	9.9	1.0	1.0	2.7	3.8	-1.0	0.3	1.7	1.7	1.9	-4.6	1.1	3.2	1.7	Apr-18
ICE BofA 1-3 Yr. Gov/Corp		0.8	0.8	1.9	2.8	-1.2	-0.7	1.2	1.0	1.0	-3.8	-0.4	3.3	1.2	
Total Cash & Cash Equivalents	0.3	1.7	1.7	3.9	4.7	2.7	1.8	1.5	-		1.5	0.0	0.4	1.4	Apr-18
90 Day U.S. Treasury Bill		1.3	1.3	3.6	4.5	2.5	1.7	1.7	1.5	1.1	1.5	0.0	0.7	1.7	
Federated Hermes Government Obligations Fund	0.3	1.2	1.2	3.4	4.3	2.4	1.6	1.5	1.3	0.9	1.4	0.0	0.3	1.3	Dec-19
90 Day U.S. Treasury Bill		1.3	1.3	3.6	4.5	2.5	1.7	1.7	1.5	1.1	1.5	0.0	0.7	1.5	



LATE NOVEMBER UPDATE

YOUNGSTOWN STATE UNIVERSITY					AS	OF NOVEM	BER 27, 202
	TICKER	INVESTMENT STRATEGY	MARKET VALUE (CURRENT)	% OF PORTFOLIO	POLICY TARGET	POLICY RANGE	TACTICAL +/-
Total Operating & Short Term			\$18,186,274	100.0%	100.0%		News Investig
Federated Hermes Govt Obligations	FOGXX	Money Market	\$18,186,274	100.0%			
Star Plus*	:-	Cash Equivalent	\$0	0.0%			
Star Ohio*	:=	Cash Equivalent	\$0	0.0%			
Total Long Term Reserves Pool			\$63,661,712	100.0%	100.0%		
Domestic Equity			\$20,102,017	31.6%	27.0%	20-35%	4.6%
Vanguard Instl Index	VINIX	Large Cap Core	\$13,845,380	21.7%			
Vanguard Mid Cap Index Adm	VIMAX	Mid-Cap Core	\$3,059,703	4.8%			
Loomis Sayles Small Growth N2	LSSNX	Small Cap Growth	\$1,583,221	2.5%			
Victory Integrity Small Cap Value Y	VSVIX	Small Cap Value	\$1,613,713	2.5%			
International Equity			\$5,150,986	8.1%	8.0%	0-15%	0.1%
William Blair International Growth I	BIGIX	Foreign Growth	\$2,313,250	3.6%			
Dodge & Cox International Stock	DODFX	Foreign Value	\$2,837,736	4.5%			
<u>Total Equity</u>			\$25,253,003	39.7%	35.0%	25-45%	4.7%
Alternatives			\$6,893,859	10.8%	15.0%	0-20%	-4.2%
H.I.G. Principal Lending Fund*	¥-	Private Credit	\$2,303,911	3.6%			
Apollo Infrastructure Opps Fund III		Real Assets	\$0	0.0%			
Weatherlow Fund*	8	Diversifying Strategy	\$4,589,948	7.2%			
Fixed Income			\$31,514,527	49.5%	50.0%	35-75%	-0.5%
Short Term Fixed Income			\$19,021,229	29.9%	30.0%	25-45%	-0.1%
YSU Short Term Bond		Short-Term Fixed	\$12,830,203	20.2%			
Lord Abbett Short Duration	LLDYX	Short-Term Fixed	\$6,191,026	9.7%			
Intermediate Fixed Income			\$12,493,298	19.6%	20.0%	10-30%	-0.4%
JPMorgan Core Bond Fund R6**	JCBUX	Core Plus Fixed	\$5,036,374	7.9%			
YSU Intermediate Term Fixed		Interm-Term Fixed	\$4,317,562	6.8%			
Prudential High Yield Bond R6	PHYQX	High Yield	\$3,139,361	4.9%			
Cash & Cash Equivalents			<u>\$323</u>	0.0%	0.0%	0-5%	0.0%
Equity Account Cash	138	Money Market	\$323	0.0%			
Total University Assets			\$81,847,985				

^{*}As of 09/30 or 10/31.

^{**}Held at JPMorgan.



DECEMBER UPDATE: PORTFOLIO CHANGES & REBALANCING

YOUNGSTOWN STATE UNIVERSITY							AS	OF NOVEM	BER 27, 202
	TICKER	MARKET VALUE (CURRENT)	% OF PORTFOLIO	CHANGES	MARKET VALUE (POST CHANGES)	% OF PORTFOLIO	POLICY TARGET	POLICY RANGE	TACTICAL +/-
Total Operating & Short Term		\$18,186,274	100.0%	\$0	\$18,186,274	100.0%	100.0%		
Federated Hermes Govt Obligations	FOGXX	\$18,186,274	100.0%		\$18,186,274	100.0%			
Star Plus*		\$0	0.0%		\$0	0.0%			
Star Ohio*	1	\$0	0.0%		\$0	0.0%			
Total Long Term Reserves Pool		\$63,661,712	100.0%	\$0	\$63,661,712	100.0%	100.0%		
Domestic Equity		\$20,102,017	31.6%		\$18,141,378	28.5%	27.0%	20-35%	1.5%
Vanguard Insti Index	VINIX	\$13,845,380	21.7%	-\$1,380,639	\$12,464,741	19.6%			
Vanguard Mid Cap Index Adm	VIMAX	\$3,059,703	4.8%	-\$200,000	\$2,859,703	4.5%			
Loomis Sayles Small Growth N2	LSSNX	\$1,583,221	2.5%	-\$175,000	\$1,408,221	2.2%			
Victory Integrity Small Cap Value Y	VSVIX	\$1,613,713	2.5%	-\$205,000	\$1,408,713	2.2%			
International Equity		\$5,150,986	8.1%		\$5,150,986	8.1%	8.0%	0-15%	0.1%
William Blair International Growth I	BIGIX	\$2,313,250	3.6%	1	\$2,313,250	3.6%			
Dodge & Cox International Stock	DODFX	\$2,837,736	4.5%		\$2,837,736	4.5%			
Total Equity		\$25,253,003	39.7%		\$23,292,364	36.6%	35.0%	25-45%	1.6%
Alternatives		\$6,893,859	10.8%		\$8,793,859	13.8%	<u>15.0%</u>	0-20%	-1.2%
H.I.G. Principal Lending Fund*		\$2,303,911	3.6%		\$2,303,911	3.6%			
Cliffwater Corporate Lending Fund	CCLFX	\$0	0.0%	\$1,900,000	\$1,900,000	3.0%			
Apollo Infrastructure Opps Fund III		\$0	0.0%		\$0	0.0%			
Weatherlow Fund*	-	\$4,589,948	7.2%		\$4,589,948	7.2%			
Fixed Income		\$31,514,527	<u>49.5%</u>	1	\$31,575,165	49.6%	50.0%	35-75%	-0.4%
Short Term Fixed Income		\$19,021,229	29.9%	1	\$19,021,229	29.9%	30.0%	25-45%	-0.1%
YSU Short Term Bond	-	\$12,830,203	20.2%	1	\$12,830,203	20.2%			
Lord Abbett Short Duration	LLDYX	\$6,191,026	9.7%		\$6,191,026	9.7%			
Intermediate Fixed Income		\$12,493,298	19.6%		\$12,553,936	19.7%	20.0%	10-30%	-0.3%
JPMorgan Core Bond Fund R6**	JCBUX	\$5,036,374	7.9%		\$5,036,374	7.9%			
YSU Intermediate Term Fixed		\$4,317,562	6.8%		\$4,317,562	6.8%			
Fidelity Intermediate Treasury Index	FUAMX	\$0	0.0%	\$3,200,000	\$3,200,000	5.0%			
Prudential High Yield Bond R6	PHYQX	\$3,139,361	4.9%	-\$3,139,361	\$0	0.0%			
Cash & Cash Equivalents		\$323	0.0%		\$323	0.0%	0.0%	0-5%	0.0%
Equity Account Cash	-	\$323	0.0%		\$323	0.0%			
Total University Assets		\$81,847,985			\$81,847,985				

^{*}As of 09/30 or 10/31, **Held at IPMorgan, Trades depicted are estimates to show hypothetical rebalancing to be implemented. Actual trade amounts may be slightly different than what is depicted above.



DECEMBER UPDATE: PORTFOLIO CHANGES & REBALANCING

Clearstead is in the process of rebalancing the Long-Term Pool with includes two themes:

1) Trimming Gains from Equities

- The changes rebalance the Long-Term Pool taking gains from equities after a strong month of November and redeploys the proceeds into a new alternative strategy, Cliffwater Corporate Lending, a private credit investment
- The Cliffwater strategy makes loans to private companies that are short-term in length
 - o Senior secure loans: 94%+ of the loans are first lien
 - Broadly diversified: 3,000+ underlying loans
 - Income generation: 11%+ current yield

2) Improving Credit Quality within Fixed Income

- The second theme the changes accomplish is improving the overall credit quality of the fixed income portfolio within the Long-Term Pool, removing the dedicated high yield position with a low cost, treasury index
- Given the backdrop of a potential recession in CY24 and other uncertainties, and the odds of spreads widening and credit exposure being affected, Clearstead believes it is prudent to add some defensive characteristics to this area of the portfolio
- The treasury position also supports the University's compliance with the Ohio Revised Code
- While the yield of the fixed income portfolio modestly decreases because of the change, the credit quality improves, and income generation of the total pool does not decrease because of the investment in the Cliffwater strategy







ENDOWMENT ASSETS:
PERFORMANCE & ASSET ALLOCATION
REVIEW

ENDOWMENT ASSETS: PERFORMANCE & ASSET ALLOCATION

(AS OF 9/30	/2023)
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				TRAIL	ING PE	RIODS				c	CALENDA	AR YEAR	S	
ENDOWMENT ASSETS	MARKET VALUE (\$MM)	QTD	FYTD	CYTD	1 YR	3 YR	5 YR	7 YR	10 YR	2022	2021	2020	2019	SINCE INCEPTION ³
YSU Endowment Fund	\$14.862	-2.0%	-2.0%	4.5%	10.3%	5.2%	7.0%	7.9%	7.8%	-15.7%	20.9%	16.3%	23.8%	7.8%
7	Benchmark ¹	-3.2%	-3.2%	9.4%	16.2%	6.3%	7.7%	9.3%	9.3%	-16.6%	20.6%	16.2%	25.6%	9.5%
	Benchmark ²	-3.2%	-3.2%	7.2%	13.0%	4.0%	6.3%	7.4%	7.7%	-15.8%	15.9%	14.7%	22.2%	7.9%

COMPLIANCE

- Reporting & Oversight by Clearstead, Management/Implementation by Huntington
- Asset Allocation Guidelines: 70% Equities (60-80%) / 30% Cash & Fixed Income (20-40%) (IN COMPLIANCE)

HOLDINGS

- Equity Mutual Funds 16% (Mutual Funds & ETFs)
- Stocks 51% (30-60 Concentrated U.S. Large/Mid-Cap Stock Portfolio)
- Alternatives 2% (Real Estate Mutual Fund)
- Fixed Income Mutual Funds 2% (Federated High Yield)
- Individual Bonds 24% (Individual Bond Portfolio: U.S. Corporate / Gov't / Asset Backed Debt)
- Cash 6%

¹⁾ Benchmark: 75% S&P 500 / 25% BBg US Aggregate. 2) Benchmark: 60% S&P 500 / 40% BBg US Aggregate. 3) Inception date: 06/2013,





DETAILED PERFORMANCE

EXECUTIVE SUMMARY

				3rd	20022020
	Market Value 07/01/2023	Market Value 09/30/2023	% of Portfolio	Quarter 2023 (%)	YTD (%)
otal University Assets	\$77,367,011	\$84,499,784	100.0	-1.0	4.9
Total Policy Benchmark ¹				0.0	4.4
Total Operating & Short Term	\$13,965,019	\$22,103,843	26.2	1.3	3.6
Total Operating & Short Term Benchmark ²				1.3	3.5
Total Long Term/ Reserves Pool	\$63,401,993	\$62,395,941	73.8	-1.6	4.9
Total Long Term/ Reserves Fund Benchmark ³				-1.0	5.1
Total Domestic Equity	\$19,851,345	\$19,142,506	22.7	-3.6	10.0
Russell 3000 Index				-3.3	12.4
Total International Equity	\$5,216,400	\$4,967,584	5.9	-4.8	5.8
MSCI EAFE (Net)				-4.1	7.1
Total Alternatives	\$7,010,467	\$6,922,258	8.2	-0.3	4.2
Total Alternatives Benchmark				0.5	2.8
Total Fixed Income	\$31,232,337	\$31,200,858	36.9	-0.2	1.9
Total Fixed Income Benchmark⁴				0.2	1.5
Total Cash & Cash Equivalents	\$91,445	\$162,736	0.2	1.7	3.9
90 Day U.S. Treasury Bill				1.3	3.6



¹⁾ Total Policy Benchmark: 45% ICE BofA 91 Days T-Bills / 17% ICE BofA 1-3 Yr US Corp & Govt / 11% BBgBarc US Govt/Credit Int / 8% Total Alternatives Benchmark / 15% Russell 3000 / 4% MSCI EAFE. 2) Total Operating & Short-Term Benchmark: 95% ICE BofA 91 Days T-Bills / 5% BBgBarc US Govt 1-3 Yr.
3) Total Long-Term / Reserves Fund Benchmark: 27% Russell 3000 / 8% MSCI EAFE / 15% Total Alternatives Benchmark / 30% ICE BofA 1-3 Yr US Corp & Govt / 20% BBgBarc US Govt/Credit Int, 4) Total Alternatives Benchmark: 100% HFRI Fund of Funds Composite.
5) Total Fixed Income Benchmark: 64% ICE BofA 1-3 Yr US Corp & Govt / 36% BBgBarc US Govt/Credit Int.

ASSET ALLOCATION GUIDELINES COMPLIANCE

Total Plan Asset Allocation Policy	Range	Current
Operating & Short-Term Pool	0% - 50%	26%
Long Term/ Reserves Pool	50% - 100%	74%

Operating & Short-Term Pool	Range	Current
Operating Assets	60% - 100%	100%
Short-Term Assets	0% - 40%	0%

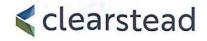
Long Term/ Reserves Pool	Target	Range	Current
Domestic Equity	27%	20% - 35%	31%
International Equity	8%	0% - 15%	8%
Total Equity	35%	25% - 45%	39%
Alternatives	15%	0%-20%	11%
Short-Term Fixed Income	30%	25% - 45%	30%
Intermediate Fixed Income	20%	10% - 30%	20%
Cash & Cash Equivalents	0%	0% - 5%	0%

In Line Within Tolerance Review



SCHEDULE OF ASSETS

	Ticker	Account Type	Begin Market Value \$	Market Value 09/30/2023	% of Portfolio
Total University Assets			\$77,367,011	\$84,499,784	100.0
Total Operating & Short Term			\$13,965,019	\$22,103,843	26.2
Federated Hermes Government Obligations Fund	GOSXX	Cash	\$13,965,019	\$22,103,843	26.2
Total Long Term/ Reserves Pool			\$63,401,993	\$62,395,941	73.8
Total Domestic Equity			\$19,851,345	\$19,142,506	22.7
Vanguard Institutional Index	VINIX	US Stock Large Cap Core	\$13,457,064	\$13,015,865	15.4
Vanguard Mid Cap Index Adm	VIMAX	US Stock Mid Cap Core	\$3,107,711	\$2,950,232	3.5
Loomis Sayles Sm Growth N	LSSNX	US Stock Small Cap Growth	\$1,675,166	\$1,587,629	1.9
Victory Integrity Small Value Y	VSVIX	US Stock Small Cap Value	\$1,611,404	\$1,588,780	1.9
Total International Equity			\$5,216,400	\$4,967,584	5.9
William Blair International Growth I	BIGIX	International	\$2,384,004	\$2,172,574	2.6
Dodge & Cox Internat'l Stock	DODFX	International	\$2,832,396	\$2,795,010	3.3
Total Alternatives			\$7,010,467	\$6,922,258	8.2
Weatherlow Offshore Fund I Ltd CI IIA		Hedge Fund	\$4,637,098	\$4,618,347	5.5
H.I.G. Whitehorse Principal Lending Offshore Feeder Fd, L.P.		Direct Lending	\$2,373,369	\$2,303,911	2.7
Total Fixed Income			\$31,232,337	\$31,200,858	36.9
JPMorgan Core Bond	WOBDX	US Fixed Income Core	\$5,091,468	\$4,934,285	5.8
YSU Intermediate Term Bond		US Fixed Income Core	\$4,300,262	\$4,263,239	5.0
PGIM High Yield R6	PHYQX	US Fixed Income High Yield	\$3,084,329	\$3,095,765	3.7
YSU Short Term Bond		US Fixed Income Short Term	\$12,649,758	\$12,743,122	15.1
Lord Abbett Short Duration Income I	LLDYX	US Fixed Income Short Term	\$6,106,520	\$6,164,447	7.3
Total Cash & Cash Equivalents			\$91,445	\$162,736	0.2
Federated Hermes Government Obligations Fund	GOSXX	Cash	\$91,445	\$162,736	0.2



TOTAL UNIVERSITY ASSETS

	Q4-2022	Q1-2023	Q2-2023	Q3-2023	One Year
otal University Assets					
Beginning Market Value	\$89,310,042	\$73,068,111	\$88,538,544	\$77,367,011	\$89,310,042
Contributions	\$2,048	\$20,000,000	= =	\$15,000,000	\$35,002,048
Distributions	-\$19,013,567	-\$7,041,880	-\$13,121,696	-\$7,000,050	-\$46,177,193
Net Cash Flows	-\$19,011,519	\$12,958,120	-\$13,121,696	\$7,999,950	-\$11,175,145
Net Investment Change	\$2,769,588	\$2,512,313	\$1,950,164	-\$867,177	\$6,364,887
Ending Market Value	\$73,068,111	\$88,538,544	\$77,367,011	\$84,499,784	\$84,499,784
Change \$	-\$16,241,932	\$15,470,433	-\$11,171,532	\$7,132,773	-\$4,810,258

LONG-TERM POOL

	Q4-2022	Q1-2023	Q2-2023	Q3-2023	One Year
otal Long Term/ Reserves Pool					
Beginning Market Value	\$56,949,726	\$59,507,519	\$61,709,542	\$63,401,993	\$56,949,726
Contributions	\$2,048	- HRM		MINERAL - EN	\$2,048
Distributions	-\$13,567	-\$41,880	-\$27,473	-\$50	-\$82,970
Net Cash Flows	-\$11,519	-\$41,880	-\$27,473	-\$50	-\$80,922
Net Investment Change	\$2,569,312	\$2,243,903	\$1,719,924	-\$1,006,001	\$5,527,137
Ending Market Value	\$59,507,519	\$61,709,542	\$63,401,993	\$62,395,941	\$62,395,941
Change \$	\$2,557,793	\$2,202,023	\$1,692,451	-\$1,006,051	\$5,446,216



PERFORMANCE SUMMARY

	QTD (%)	FYTD (%)	YTD (%)	1 Yr (%)	2 Yr (%)	3 Yr (%)	5 Yr (%)	7 Yr (%)	10 Yr (%)	2022 (%)	2021 (%)	2020 (%)	Inception (%)	Inception Date
Total University Assets	-1.0	-1.0	4.9	8.1	-0.5	3.5	4.1	4.5	3.9	-7.8	7.8	9.5	3.9	Apr- 04
Total Policy Benchmark ¹	0.0	0.0	4.4	7.2	0.4	2.5	3.1	3.3	2.9	-4.7	4.3	5.9	3.1	
Total Operating & Short Term	1.3	1.3	3.6	4.4	2.5	1.7	1.8	1.6	1.1	1.4	0.0	1.1	0.9	Jul- 10
Total Operating & Short Term Benchmark ²	1.3	1.3	3.5	4.4	2.3	1.6	1.7	1.5	1.1	1.2	0.0	0.8	0.9	
Total Long Term/ Reserves Pool	-1.6	-1.6	4.9	9.6	-2.1	3.1	3.8	4.6	4.4	-11.2	9.5	8.8	4.7	Jul- 10
Total Long Term/ Reserves Fund Benchmark ³	-1.0	-1.0	5.1	9.5	-1.4	3.0	4.1	4.7	4.4	-9.7	8.0	10.0	4.4	
Total Domestic Equity	-3.6	-3.6	10.0	19.2	-0.3	10.1	8.7	11.3	10.9	-17.7	26.9	18.5	12.9	Jul- 10
Russell 3000 Index	-3.3	-3.3	12.4	20.5	-0.4	9.4	9.1	11.6	11.3	-19.2	25.7	20.9	13.2	
Total International Equity	-4.8	-4.8	5.8	21.1	-5.8	4.8	3.9	5.6	4.2	-17.6	10.0	16.7	4.7	Oct- 10
MSCI EAFE (Net)	-4.1	-4.1	7.1	25.6	-3.0	5.8	3.2	5.3	3.8	-14.5	11.3	7.8	4.9	
Total Alternatives	-0.3	-0.3	4.2	6.1	-2.2	2.9	1.2	1.9		-6.9	5.3	-3.7	1.3	Mar- 15
Total Alternatives Benchmark⁴	0.5	0.5	2.8	4.6	-1.1	3.8	2.9	3.3		-5.3	6.2	5.4	2.6	
Total Fixed Income	-0.2	-0.2	1.9	3.3	-2.7	-1.3	1.4	1.2	1.4	-6.7	0.1	5.2	1.7	Jul- 10
Total Fixed Income Benchmark ⁵	0.2	0.2	1.5	2.6	-2.3	-1.5	1.2	0.9	1.1	-5.4	-0.8	4.5	1.4	
Total Cash & Cash Equivalents	1.7	1.7	3.9	4.7	2.7	1.8	1.5			1.5	0.0	0.4	1.4	Apr- 18
90 Day U.S. Treasury Bill	1.3	1.3	3.6	4.5	2.5	1.7	1.7	1.5	1.1	1.5	0.0	0.7	1.7	

⁵⁾ Total Fixed Income Benchmark: 64% ICE BofA 1-3 Yr US Corp & Govt / 36% BBgBarc US Govt/Credit Int.



¹⁾ Total Policy Benchmark: 45% ICE BofA 91 Days T-Bills / 17% ICE BofA 1-3 Yr US Corp & Govt / 11% BBgBarc US Govt/Credit Int / 8% Total Alternatives Benchmark / 15% Russell 3000 / 4% MSCI EAFE.
2) Total Operating & Short-Term Benchmark: 95% ICE BofA 91 Days T-Bills / 5% BBgBarc US Govt 1-3 Yr.
3) Total Long-Term / Reserves Fund Benchmark: 27% Russell 3000 / 8% MSCI EAFE / 15% Total Alternatives Benchmark / 30% ICE BofA 1-3 Yr US Corp & Govt / 20% BBgBarc US Govt/Credit Int,

⁴⁾ Total Alternatives Benchmark: 100% HFRI Fund of Funds Composite.



SUPPORTING INFORMATION

U.S. ECONOMIC PROJECTIONS: HIGHER FOR LONGER

FEDERAL RESERVE BOARD MEMBERS & BANK PRESIDENTS

		2023	2024	2025	2026	LONG RUN*
GDP	September 2023 June 2023 March 2023 December 2022	2.1% 1.0% 0.4% 0.5%	1.5% 1.1% 1.2% 1.6%	1.8% 1.8% 1.9% 1.8%	1.8%	1.8% 1.8% 1.8% 1.8%
Unemployment Rate	September 2023 June 2023 March 2023 December 2022	3.8% 4.1% 4.5% 4.6%	4.1% 4.5% 4.6% 4.6%	4.1% 4.5% 4.6% 4.5%	4.0%	4.0% 4.0% 4.0% 4.0%
Core PCE Inflation	September 2023 June 2023 March 2023 December 2022	3.7% 3.9% 3.6% 3.5%	2.6% 2.6% 2.6% 2.5%	2.3% 2.2% 2.1% 2.1%	2.0%	
Federal Funds Rate	September 2023 June 2023 March 2023 December 2022	5.6% 5.1% 5.1%	5.1% 4.6% 4.3% 4.1%	3.9% 3.4% 3.1% 3.1%	2.9%	2.5% 2.5% 2.5% 2.5%
# of implied 25 bps rate changes year	September 2023 June 2023 March 2023 December 2022	5 5 3	-2 -4 -3 -4	-5 -5 -5 -4		

^{*}Long run projections: The rates to which a policymaker expects the economy to converge over time – maybe in five or six years – in the absence of further shocks and under appropriate monetary policy.

Source: Clearstead, U.S. Federal Reserve. Data as of 09/30/2023. Past performance is not an indicator of future results.



HEADWINDS AND TAILWINDS



TAILWINDS

- S&P 500 enter seasonally strong quarter for performance
- Corporate America working through higher rates
- Services economy still expanding; though at a slower rate
- Earnings revisions for communication services, consumer discretionary, and information technology turn higher
- Job growth slowing but labor markets still strong; unemployment claims near 2023 lows

HEADWINDS



- Potential drag from student loan payments resuming and strikes
- Stopgap bill buys time to mid-November; McCarthy ousted in GOP civil war – sets stage for unclear budget process—potential shutdown still looms
- Consumers slowing, debt building, defaults rising in riskier cohorts (corporate and consumer)
- Manufacturing still in contraction
- Treasury supply surging; rates moving higher





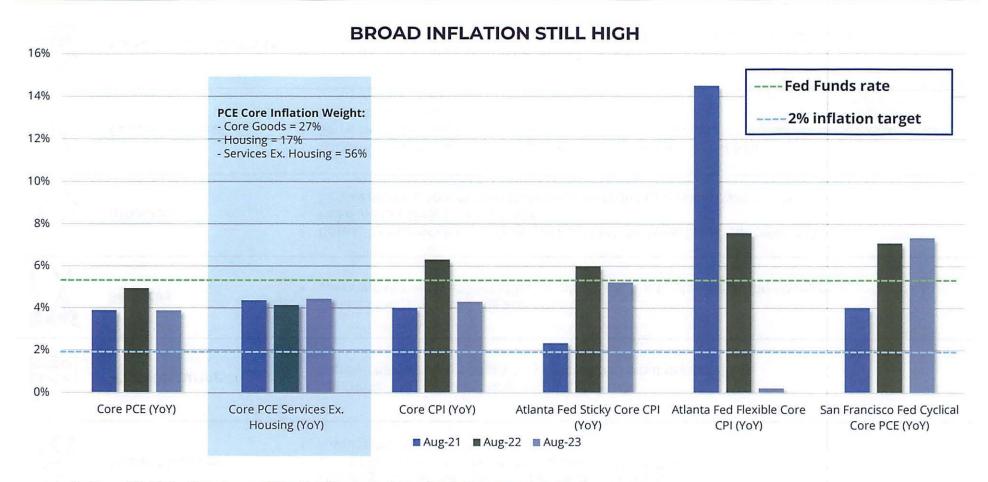
ECONOMIC OUTLOOK: 4Q 2023

AREA	EXPECTATIONS
Labor Markets	 U.S. may track to 75k-175k jobs per month in Q4-2023 Unemployment rate may rise but remain <4.0% by Dec-2023 Average hourly wages remain ≈4% YoY
Manufacturing	 Contraction in manufacturing activity continues Supply-chain backlogs nearly fully normalized; input prices falling
Services	 Services industry stabilizing and positive Spending remains resilient at full employment, but tighter credit conditions pose some risks
Inflation	 Core CPI remains elevated (>4% YoY) but likely to move lower throughout Q4-2023 Headline CPI likely to remain ≈3% Service sector prices remain stubbornly high due to elevated wage costs
Equity Markets	 Volatility may increase in Q4-2023; new S&P range ≈ 4,200 to 4,600 Some technical support at the lower-end; market's assumption for a soft-landing scenario has become consensus.
Fixed Income Markets	 10-Yr UST likely range bound between 3.5% and 4.5% this Fall Uncertainty around Fed policy in Q4-2023, quantitative tightening continues unabated

Source: Clearstead. as of 9/30/2023. Expectations for 4th quarter of calendar year 2023.



HIGHER FOR LONGER



- · Inflation still high; Goods and "flexible" categories of inflation are decreasing
- Focus remains on Core Personal Consumption Expenditures price index (Example Housing)
- Inflation expected to trend down but will remain above Fed's target

Source: Clearstead, Bloomberg LP, PGIM Fixed Income, Federal Reserve Bank of Atlanta, Year-over-Year change for most recently available inflation statistics, as of 9/30/2023



GLOBAL ECONOMY

		Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23	Sep-23	12M Trend
Clobal	Mfg	49.4	48.8	48.7	49.1	49.9	49.6	49.6	49.5	48.7	48.6	49.0	49.1	~
Global	Serv	49.2	48.0	48.0	50.1	52.6	54.4	55.4	55.5	53.9	52.7	51.1	51.1	
US	Mfg	50.4	47.7	46.2	46.9	47.3	49.2	50.2	48.4	46.3	49.0	47.9	49.8	
US	Serv	47.8	46.2	44.7	46.8	50.6	52.6	53.6	54.9	54.4	52.3	50.5	50.2	
Furnzono	Mfg	46.4	47.1	47.8	48.8	48.5	47.3	45.8	44.8	43.4	42.7	43.5	43.4	
Eurozone	Serv	48.6	48.5	49.8	50.8	52.7	55.0	56.2	55.1	52.0	50.9	47.9	48.4	
UK	Mfg	46.2	46.5	45.3	47.0	49.3	47.9	47.8	47.1	46.5	45.3	43.0	44.3	~~~
UK	Serv	48.8	48.8	49.9	48.7	53.5	52.9	55.9	55.2	53.7	51.5	49.5	47.2	~~
lanan	Mfg	50.7	49.0	48.9	48.9	47.7	49.2	49.5	50.6	49.8	49.6	49.6	48.5	~~
Japan	Serv	53.2	50.3	51.1	52.3	54.0	55.0	55.4	55.9	54.0	53.8	54.3	53.3	~~
China	Mfg	49.2	49.4	49.0	49.2	51.6	50.0	49.5	50.9	50.5	49.2	51.0	50.6	-VV
Cillia	Serv	48.4	46.7	48.0	52.9	55.0	57.8	56.4	57.1	53.9	54.1	51.8	50.2	
India	Mfg	55.3	55.7	57.8	55.4	55.3	56.4	57.2	58.7	57.8	57.7	58.6	57.5	~~~
IIIuid	Serv	55.1	56.4	58.5	57.2	59.4	57.8	62.0	61.2	58.5	62.3	60.1	60.1	~~~
S. Korea	Mfg	48.2	49.0	48.2	48.5	48.5	47.6	48.1	48.4	47.8	49.4	48.9	48.9	~~~

- Global manufacturing and service PMIs have converged many major economies in Q3-2023
 - o Manufacturing and services PMIs are still signaling stagnation economic activity
 - Global services PMIs are mildly positive in select economies (US, Japan, and China);
- Whereas global manufacturing PMIs are consistent with a mild contraction in the manufacturing sector and slowing global trade
- China's services PMI had been robust at its re-opening post-Covid, have shifted quickly to neutral; India's PMIs show universal strength.



Source: Bloomberg, Markit/HIS.

GLOBAL INFLATION MIXED

									GLC	BAI	_ HE	ADL	INE	CPI										
	Sep-21	Oct-21	Nov-21	Dec-21	Jan-22	Feb-22	Mar-22	Apr-22	May-22	Jun-22	Jul-22	Aug-22	Sep-22	Oct-22	Nov-22	Dec-22	Jan-23	Feb-23	Mar-23	Apr-23	May-23	Jun-23	Jul-23	Aug-23
Dev. Markets																								
US	5.4	6.2	6.8	7.0	7.5	7.9	8.5	8.3	8.6	9.1	8.5	8.3	8.2	7.7	7.1	6.5	6.4	6.0	5.0	4.9	4.0	3.0	3.2	3.7
EU	3.4	4.1	4.9	5.0	5.1	5.9	7.5	7.5	8.1	8.6	8.9	9.1	10.0	10.7	10.0	9.2	8.5	8.5	6.9	7.0	6.1	5.5	5.3	5.3
Japan	0.2	0.1	0.6	0.8	0.5	0.9	1.2	2.5	2.5	2.4	2.6	3.0	3.0	3.7	3.8	4.0	4.3	3.3	3.2	3.5	3.2	3.3	3,3	3.2
UK	3.1	4.2	5.1	5.4	5.5	6.2	7.0	9.0	9.1	9.4	10.1	9.9	10.1	11.1	10.7	10.5	10.1	10.4	10.1	8.7	8.7	7.9	6.8	6.7
Canada	4.4	4.7	4.7	4.8	5.1	5.7	6.7	6.8	7.7	8.1	7.6	7.0	6.9	6.9	6.8	6.3	5.9	5.2	4.3	4.4	3.4	2.8	3.3	4.0
Australia	3.0	3.0	3.0	3.5	3.5	3.5	5.1	5.1	5.1	6.1	6.1	6.1	7.3	7.3	7.3	7.8	7.8	7.8	7.0	7.0	7.0	6.0	6.0	6.0
Switzerland	0.9	1.2	1.5	1.5	1.6	2.2	2.4	2.5	2.9	3.4	3.4	7.3	7.2	7.2	7.2	7.2	7.2	3.4	2.9	2.6	2.2	1.7	1.6	1.6
Norway	4.1	3.5	5.1	5.3	3.2	3.7	4.5	5.4	5.7	6.3	6.8	6.5	6.9	7.5	6.5	5.9	7.0	6.3	6.5	6.4	6.7	6.4	5.4	4.8
Sweden	2.5	2.8	3.3	3.9	3.7	4.3	6.0	6.4	7.3	8.7	8.5	8.9	10.8	10.9	11.5	12.3	11.7	12.0	10.6	10.5	9.7	9.3	9.3	7.5
Asia																								
China	0.7	1.5	2.3	1.5	0.9	0.9	1.5	2.1	2.1	2.5	2.7	2.5	2.8	2.1	1.6	1.8	2.1	1.0	0.7	0.1	0.2	0.0	-0.3	0.1
India	4.4	4.5	4.8	5.6	5.8	5.0	5.4	6.3	7.0	6.2	5.8	5.9	6.5	6.1	5.4	5.8	6.2	6.2	5.8	5.1	4.4	5.6	7.5	6.9
Indonesia	1.6	1.7	1.7	1.9	2.2	2.1	2.6	3.5	3.6	4.4	4.9	4.7	6.0	5.7	5.4	5.5	5.3	5.5	5.0	4.3	4.0	3.5	3.1	3.3
Malaysia	2.2	2.9	3.3	3.2	2.3	2.2	2.2	2.3	2.8	3.4	4.4	4.7	4.5	4.0	4.0	3.8	3.7	3.7	3.4	3.3	2.8	2.4	2.0	2.0
S Koreas	2.4	3.2	3.8	3.7	3.6	3.7	4.1	4.8	5.4	6.0	6.3	5.7	5.6	5.7	5.0	5.0	5.2	4.8	4.2	3.7	3.3	2.7	2.3	3.4
Taiwan	2.6	2.6	2.9	2.6	2.8	2.3	3.3	3.4	3.4	3.6	3.4	2.7	2.8	2.7	2.4	2.7	3.1	2.4	2.4	2.4	2.0	1.8	1.9	2.5
Latin America																								
Brazil	10.3	10.7	10.7	10.1	10.4	10.5	11.3	12.1	11.7	11.9	10.1	8.7	7.2	6.5	5.9	5.8	5.8	5.6	4.7	4.2	3.9	3.2	4.0	4.6
Chile	5.3	6.0	6.7	7.2	7.7	7.8	9.4	10.5	11.5	12.5	13.1	14.1	13.7	12.8	13.3	12.8	12.3	11.9	11.1	9.9	8.7	7.6	6.5	5.3
Colombia	4.5	4.6	5.3	5.6	6.9	8.0	8.5	9.2	9.1	9.7	10.2	10.8	11.4	12.2	12.5	13.1	13.3	13.3	13.3	12.8	12.4	12.1	11.8	11.4
Mexico	6.0	6.2	7.4	7.4	7.1	7.3	7.5	7.7	7.7	8.0	8.2	8.7	8.7	8.4	7.8	7.8	7.9	7.6	6.9	6.3	5.8	5.1	4.8	4.6

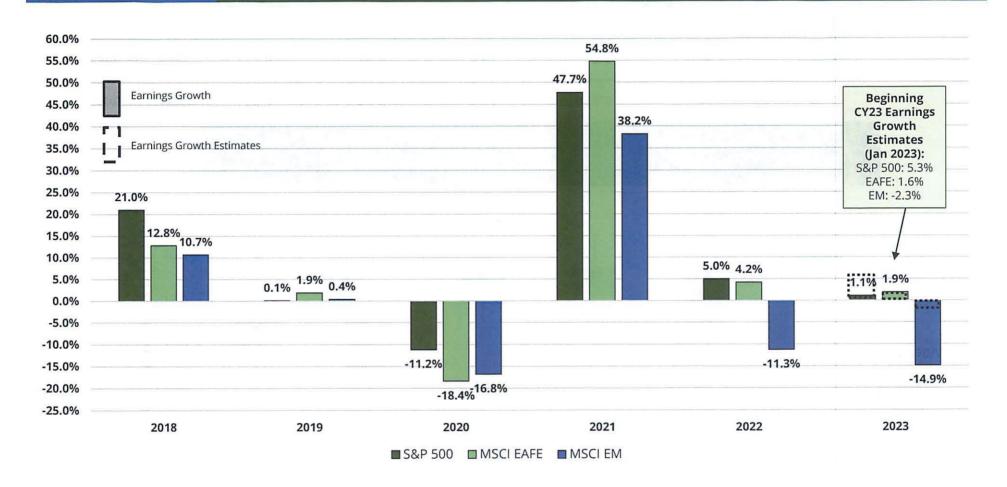
Inflation has started to ease in select markets but remains uncomfortably high in most countries.

- o Only China and Taiwan have seen negligible rises in inflation
- o The U.S., Brazil, and most of Europe have started to see declines in inflation

Bloomberg Inflation Monitor as of 9/1/2023.



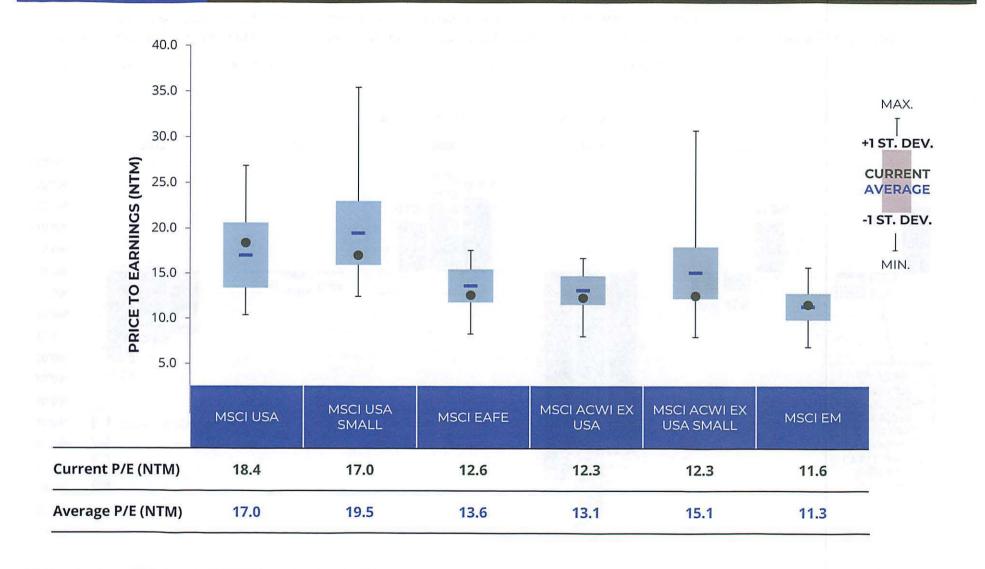
GLOBAL EARNINGS OUTLOOK



- Earnings expectations have been revised lower again as analysts downgrade their expectations
- Expectations for EM markets have eroded the most in the face of heightened energy costs, global monetary tightening, and the slowdown in the Chinese economy (CY2022 EM earnings ex Russia would be approximately -3%)







Source; Bloomberg as of 09/30/2023. Average taken over full index history. MSCI USA- 1994 - Current; MSCI USA Small- 1994 - Current; MSCI EAFE- 2003 - Current; MSCI ACWI ex USA- 2003 - Current; MSCI ACWI ex USA



GLOBAL EQUITY VALUATIONS



Forward 12M P/E 19 17 13 13 13 7

11/1/2003

1/1/2005

3/1/2006

5/1/2007

7/1/2008

9/1/2009

11/1/2010

1/1/2012

3/1/2013

5/1/2014

7/1/2015

9/1/2016

11/1/2017

1/1/2019

3/1/2020

5/1/2021

7/1/2022

9/1/2023

MSCI ACWIEXUS Fwd12M P/E

20-Year Average Fwd12M P/E



Forward 12M P/E





Source: Bloomberg as of 09/30/2023. Average taken over full index history. MSCI USA-1994 - Current; MSCI USA Small-1994 - Current; MSCI EAFE-2003 - Current; MSCI ACWI ex USA-2003 - Current; MSCI ACW

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MSCI ACWI ex US Index Fwd12M P/E

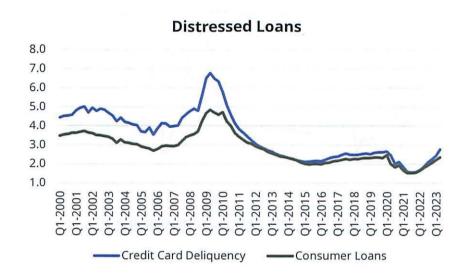


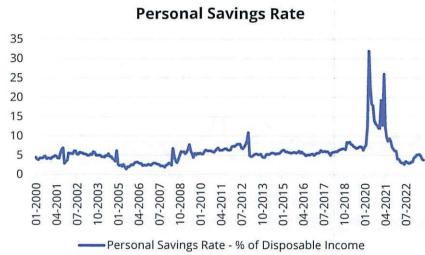
20-Year Average Fwd12M P/E

MSCI US Small Cap Index Fwd12M P/E

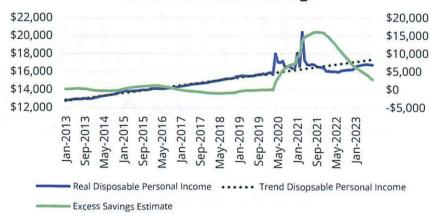


CONSUMER HEADWINDS





Excess Consumer Savings

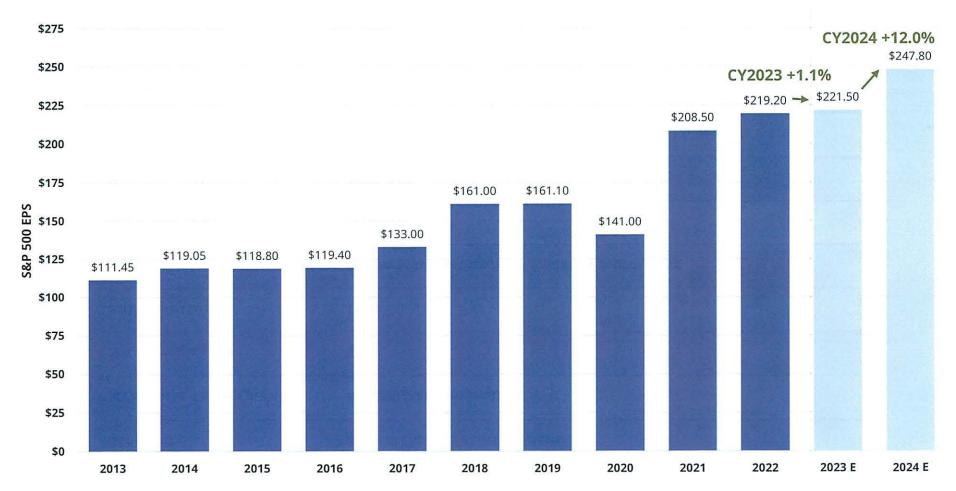


- Consumers are being stretched despite strong employment numbers as inflation bites into real spending.
- Delinquencies are on the rise, savings are falling, and household spending cushions are set to be exhausted by Dec-2023.

Source: Clearstead, St. Louis Federal Reserve Data as of 9/30/2023.



CORPORATE EARNINGS



- Bottoms up earnings estimates for CY2023 may still be too optimistic.
 - o Margin compression and Q1 downgrades has pushed CY2023 EPS towards ≈\$220.
 - Expectations for CY2023 could erode to zero; CY2024 estimates currently suggest +11.7% EPS growth.

Source: Factset, Clearstead, data as of 9/29/2023, Past performance is not an indicator of future results



CLIFFWATER CORPORATE LENDING FUND TERMS

Symbol / Ticker	CCLFX
Structure	Interval Fund (1940 Act-registered)
Minimum Investment	\$10,000,000 (firm level)
NAV Frequency	Daily
Subscriptions	Daily
Liquidity	Quarterly, no less than 5% of fund shares outstanding
Distributions	Quarterly ¹
Tax Reporting	1099-DIV
Expenses	Total Fees & Expenses (excluding borrowing costs): 1.63% ²
Investor Requirements	None
Net Assets	\$12.0B

¹ As a RIC, the Fund must distribute an amount equal to at least 90% of its taxable investment income, annually. There is no assurance a change in market conditions or other factors will not result in a change in future distributions.



² Fees shown exclude interest payments and expenses on borrowed funds of 1.69%, See disclosures at the end of this presentation.

CLIFFWATER DIRECT LENDING FUND

- Structure: '40 act interval fund with quarterly liquidity and the ability to limit withdrawals
- 350 firms comprise of the investor base (firms such as Clearstead that have directed client assets into the fund)
 - Cliffwater conducts due diligence on investors
 - Largest investment firm accounts for 7% of investor base
 - No broker share class
- 98% of underlying loans are PE (private equity) sponsored
- 73% of assets are direct loans (co-investments)
- Non-accrual rate is 0.07%
- Credit is getting tighter. However, we do not expect direct lending to lock up
 - · Banks are going to have a hard time getting deals done
 - Broad syndicated market is widely closed
 - Larger borrowers are approaching middle market private lenders





DEFINITIONS & DISCLOSURES

DEFINITIONS & DISCLOSURES

Information provided is general in nature, is provided for informational purposes only, and should not be construed as investment advice. Any views expressed are based upon the data available at the time the information was produced and are subject to change at any time based on market or other conditions. Clearstead disclaims any liability for any direct or incidental loss incurred by applying any of the information in this presentation. All investment decisions must be evaluated as to whether it is consistent with their investment objectives, risk tolerance, and financial situation.

The part of the properties of future results. Investing involves risk, including risk of loss. Diversification does not ensure a profit or guarantee against loss.

All inhough bonds generally present personal generally present personal general personal general g

investment will not keep up with increases in the prices of goods and services, than stocks.

tower-quality deltx securities generally offer higher yeals, but also involve greater risk of default or price changes due to potential changes in the credit quality of the issuer. Any fixed income security sold or redeemed prior to maturity may be subject to loss.

The municipal market as volaille and can be significantly affected by adverse tax, legislative, or policial changes and by the financial control for the issuers of municipal securities. Interest rate increases can cause the price of a debt security to decrease. A portion of the dividends you receive may be subject to federal, state, or local income tax or may be subject to the federal afternative minimum tax. Generally, tax executives are not appropriate holdings for tax advantaged accounts such as IRAs and 401(b).

minimum was, secretary, interactions are not appropriate not independent on appropriate notatings in the automatogue accounts such as into some or interest. Sock markets, specially foreign markets, are violatic and can decine significantly in response to adverse; issuer, political, or increase issuer, politi

Changes in real estate values or economic conditions can have a positive or negative effect on issuers in the real estate industry, which may affect your investment.

The SAP 500 Index is a broad-based market index, comprised of 500 large-cap companies, generally considered representative of the stock market as a whole. The SAP 400 Index is an unmanaged index considered representative of mid-sized U.S. companies. The SAP 600 Index is a market-value weighted index that consists of 600 small-cap U.S. stocks chosen for market size, liquidity and

industry group representations. Russell 1000 Growth Index are indices that measure the performance of large-capitalization value stocks, large-capitalization growth stocks, respectively. The Russell 2000 Value Index, Russell 2000 Index and Russell 2000 Growth Index are indices that measure the performance of small-capitalization growth stocks, and large-capitalization stocks and large-capitalization growth stocks, small-capitalization growth stocks, small-ca

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The U.S. 10-Year treasury Yield is generally considered to be a barrowness maturity from 1 up to 3 moints.

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The NCREF Property Index (NPI) represents quarterly time series composite total rate of return measure of a very large pool of individual commercial real estate properties acquired in the private market. The index represents apartments, hotels, industrial properties, office buildings and retail properties which are at least 60% occupied and owned or controlled, at least in part by tax-exempt institutional investions or its designated agent. In addition these properties that are included must be investment grade, non-agricultural and income producing and all development projects are excluded. Constituents included in the NPI be valued at least quarterly, either internally, using standard commercial real estate appraisal methodology. Each property must be independently appraised arminimum of none every littree years.

The FTSE NAREIT All REITs Index is a market capitalization-weighted index that is designed to measure the performance of all tax-qualified Real Estate Investment Trusts (REITs) that are listed on the New York Stock Exchange, the American Stock Exchange, or the NASDAO National Market List.

The Dow Jones US. Select Real Estate Securities index a manage taggle control of the Control of

The Affordability Index measures of a population's ability to purchase a particular item, such as a house, indexed to the population's income.

The Homeownership % is computed by dividing the number of occupied housing units by the number of occupied housing units or households.

HERI Emerging Markets: Nata exclapan, Global Index, Latin America Index, Russia/Eastern Europe Index: The constituents of the HERI Emerging Markets indices are selected according to their Regional Investment Focus only. There is no Investment Strategy criteria for inclusion in these indices. Funds classified as Emerging Markets have a regional investment focus in our properties. HRI Imenging Markets: Ala ex-Japan, (solidal Index, Latin America Index, Russia/Eastern Europe Index: The constituents of the HRID Energing Markets (as ex-Japan, Russia/Eastern Europe, Latin America Index, ex-Japan, Index Index ex-Japan, Russia/Eastern Europe Index: The constituents of the Index ex-Japan, Russia/Eastern Europe, Latin America, Affect and the Market Reutral strategies employ sophisticated quantitative breedings as evel of expertise which exceeds the market in which the Manager market in which the Manager market in the processes designed to identify opportunities in specific necessary and seals. HRI Eth. Energy Market Neutral strategies employ sophisticated quantitative techniques of analyzing price data to ascertain information about future price movement and relationships between securities, select securities for purchase and sale. HRI Eth. Energy Individual companies with the goal of identifying opportunities in securities on a positive price of the valuation for the valuation of the valuation for the valuation of the valuation for the valuation for the valuation of the valuation for the valuation of the valuation for the valuation of the valuati

The Crash Surse Perice Index (CPI) is an inflationary indicator that measures the change in the cost of a fixed basket of products and services, including housing, electricity, food, and transportation. The CPIs published monthly, Unless otherwise noted, the CPI for published monthly, Unless otherwise noted, the CPI is published monthly, Unless otherwise noted in the CPI is published monthly, Unless otherwise noted in the CPI is published monthly, Unless otherwise noted in the CPI is published monthly, Unless otherwise noted in the CPI is published monthly, Unless otherwise noted in the CPI is published monthly, Unless otherwise noted in the CPI is published monthly, Unless of the CPI is published monthly, Unless otherwise noted in the CPI is published monthly, Unless otherwise noted in the CPI is published monthly, Unless otherwise noted in the CPI is published monthly, Unless otherwise noted in the CPI is published monthly, Unless otherwise noted in the CPI is published monthly, Unless of the CPI is published monthly, Unless otherwise noted in the CPI is published monthly, Unless of the CPI is published monthly in the CPI is publi characteristics. The Russell Developed ex-US Large Cap Index measures the performance of the largest investable securities in developed countries globally, excluding companies assigned to the United States



DEFINITIONS & DISCLOSURES

The Wilshire 5000 Index represents the broadest index for the U.S. equity market, measuring the performance of all U.S. equity securities with readily available price data. The Wilshire Micro Cap Index is a market capitalization-weighted index comprised of all stocks in the Wilshire 5000 Index below the 2,501st rank. The Wilshire 4500 Index is comprised of publically traded real estate equity securities.

The Wilshire 5000 index represents the broadest index for the U.S. equity yearsize, measuring the performance of all U.S. equity yearsize, and in the Wilshire deal States Securities Index (ESS) is comprised of platsods; in the Wilshire deal States Securities Index (ESS) is comprised of platsods; in the Wilshire deal States Securities Index (ESS) is comprised of platsods; in the Wilshire deal States of AMA Modification of the State of the State

Index measures the performance of U.S., overfriment and or corporate bornes are derivestment grade de text. pays-in-indic flight boans, Europhora, board as non-performance of U.S., overfriment and original issue zeroes, step-up coupon structures, and 144-bits are also included. In the EC High Yield Index covers the universe of Informatic Intermediate Government/Credit Bild Index measures the performance of Index Bild Index Measures the Performance of Index Bild Index Bild

The Bank of America (BofA) Merrill Lynch (ML) 91-day T-bill Index includes (U.S. Treasury bills with a remaining a manufity from 1 up to 3 months. The BOfA ML U.S. High Yield Master Index & Bank of America (ML U.S. High Yield Master Index & Bank of America (BufA) Merrill Lynch (ML) 95 months are a license in the U.S. collar denominating a manufity, are fixed coupon schedule and minimum outside in the United States. The BOfA ML U.S. Comptended on the Investment grade on non-investment grade commercible securities sold into the U.S. Collar denomination of the U.S. collar denomination of the U.S. collar denomination of U.S. dollar denomination and corporate securities. The BOfA ML U.S. denomination after the U.S. domestic market and public better in superantic or the U.S. domestic market and public with the U.S. domestic market and public with the U.S. domestic market capital lation investment grade compared every investment grade grade

The NCREF Property Index (NPI) represents quarterly time series composite total rate of return measure of a very large pool of Individual commercial real estate properties acquired in the private market. The index represents apartments, hones in addition these properties which are at least 60% occupied and owned or controlled, at least in part by tax-exempt institutional investors or its designated agent, in addition these properties that are included must be investment grade, non-agricultural and income producing and all development projects are excluded. Constituents included in the project of the properties acquired in the project of the pr The Ibbotson Intermediate Government Bond Index is measured using a one-bond portfolio with a maturity near 5 years.

The JP Morgan Emerging Markets Bond Index Plus (EMBI+) Index tracks total returns for traded external debt instruments (external meaning foreign currency denominated fixed income) in the emerging markets. The JPMorgan GBI Global ex-US Index represents the total return performance of major non-U.S. bond markets.

The FRFI tunds of Funds Index (HFRI FOF) is a new season which the first funds of Funds Index (HFRI FOF) is a new season which the first funds of Funds Index (HFRI FOF) is a new season which the first funds of Funds Index (HFRI FOF) is a new season which the first funds of Funds Index (HFRI FOF) is a new season which the first funds of Funds Index (HFRI FOF) is a new season which the first funds of Funds Index (HFRI FOF) is a new season which the first funds of Funds Index (HFRI FOF) is a new season which the first funds of Funds Index (HFRI FOF) is a new season which the first funds of Funds Index (HFRI FOF) is a new season which the first funds of Funds Index (HFRI FOF) is a new season which the first funds of Funds Index (HFRI FOF) is a new season which the first funds of Funds Index (HFRI FOF) is a new season which the first funds of Funds Index (HFRI FOF) is a new season which the first funds of Funds Index (HFRI FOF) is a new season which the first funds of Funds Index (HFRI FOF) is a new season which the first funds of Funds Index (HFRI FOF) is a new season which the first funds of Funds Index (HFRI FOF) is a new season which the funds Index (HFRI FOF) is a new season which the funds Index (HFRI FOF) is a new season which the funds Index (HFRI FOF) is a new season which the funds Index (HFRI FOF) is a new season which the funds Index (HFRI FOF) is a new season which the funds Index (HFRI FOF) is a new season which the funds Index (HFRI FOF) is a new season which the funds Index (HFRI FOF) is a new season which the funds Index (HFRI FOF) is a new season which the funds Index (HFRI FOF) is a new season which the funds Index (HFRI FOF) is a new season which the funds Index (HFRI FOF) is a new season which the funds Index (HFRI FOF) is a new season which the funds Index (HFRI FOF) is a new season which the funds Index (HFRI FOF) is a new season which the funds Index (HFRI FOF) is a new season which the funds Index (HFRI FOF) is a new season which the funds Index (HFRI FOF) is a new season which the funds Ind absolute strategies. HERL ID: Merger Arbitrage strategies which employ an investment process primarily focused on opportunities in equity related instruments of companies, which are currently engaged in a corporate transaction.

The FTSE AII-World ex US Index comprises large and midcap stocks providing coverage of developed and emerging markets, excluding the US. The FTSE NAREIT Developed Index is a global market capitalization weighted index composed of fisted real estate securities from developed and emerging market, excluding the US. Index is a

global market capitalization weighted index composed of listed real estate securities from developed market countries. From developed market countries from developed market countries for meter than average dividend yields, and is based on the US component of the FTSE. ARRIT ARRIT and ARRIT and average dividend yields, and is based on the US component of the FTSE. ARRIT are characteristics for the second yields, and is based on the US component of the FTSE. ARRIT are listed on the New York Stock Exhaurs are the Arrit and the State Investment of the State Investment of the New York Stock Exhaurs, etc. the Arrit State Investment of the New York Stock Exhaurs, etc. Arrit Arrit State Investment of the State Investment of

The Consumer Price Index (CPI) is an inflationary indicator that measures the change in the cost of a fixed basket of products and services, including bousing, electricity, food, and transportation. The CPI is published monthly. Please Note: the performance of this index lags by I month.

The Credit Suisse Leveraged Loan Index is a market value-weighted index designed to represent the investable universe of the U.S. dollar-chrominated leveraged loan market. The Dow Jones (DJ) USE Commodity Index measures the performance of the commodities market. It consists of exchange-traded futures centracts on physical commodities that are weighted to account for the economic significance and market liquidity of each commodities market, it consists of exchange-traded futures centracts on physical commodities market. It consists of exchange trade in the commodities market. It consists of exchange-traded futures centracts on physical commodities that are weighted to account for the economic significance and market trade in the commodities market. It consists of exchange trade in the commodities market trade in the commodities market. It consists of exchange trade in the commodities market trade in the commodities market. It consists of exchange trade in the commodities market trade in the commodities market. It consists of exchange trade in the commodities market trade in the commodities market. It consists of exchange trade in the commodities market trade in the commodities market. It consists of exchange trade in the commodities market trade in the commodities market. It consists of exchange trade in the commodities market trade in the commodities market. It consists of exchange trade in the commodities market trade in the commodities market. It consists of exchange trade in the commodities market trade in the commodities market. It consists of exchange trade in the commodities market trade in the commodities market. It consists of exchange trade in the commodities market trade in the commoditi

The Dow Jones Target Date (Today, 2010, 2015, 2020, 2025, 2030, 2035, 2040, 2045, 2050, 2055) indices were created to benchmark portfolios of stocks, bonds and cash. Each index is made up of composite indices representing these three asset classes. The asset class indices are weighted differently within each target date index depending on the time horizon. Each month, the

allocations among the asset class indices are rebulanced to reflect an increasingly conservative asset mix.

The Momingstar Lifetime Allocation Index series consists of 13 indexes (income, 2000, 2005, 2010, 2015, 2020, 2025, 2030, 2035, 2040, 2045, 2050, 2055) available in three risk profiles: aggressive, moderate, and conservative. The indexes are built on asset allocation methodologies developed by lobotson Associates, a leader in asset allocation research and a Morningstar company since 2006. The Indexes provide pure asset-class exposure to global equaties, global fixed-income, commodities, and Treasury Inflation-Protected Securities (TIPS) by using existing Morningstar indexes as allocation building blocks. The portfolio allocations are held in proportions appropriate to the U.S. investor's number of years until retirement. The Conservative, Moderate and Aggressive risk profiles are for investors who are comfortable with above average exposure to equity market volatility, investors who are comfortable with above average exposure to equity market volatility, respectively.

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