

BOARD OF TRUSTEES INVESTMENT SUBCOMMITTEE Allen L. Ryan, Jr., Chair Charles T. George, Vice Chair Joseph J. Kerola Galatiani G. Lopuchovsky

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Wednesday, March 2, 2022 10:00 a.m. Presidents' Suites Kilcawley Center

AGENDA

А.	Disposition of Minutes for Meeting Held December 1, 2021
В.	Old Business
C.	Committee Items
	1. Discussion Items
C.1.a. = Tab 1	 Annual Disclosure of Trustee Relationships with University-Affiliated Financial Institutions Neal McNally, Vice President for Finance and Business Operations, will report.
C.1.b. = Tab 2	 March 2, 2022 Quarterly Portfolio Asset Allocation and Investment Performance Review Sarah Parker and John Colla, will report.
	2. Action Items
C.2.a. = Tab 3	 Resolution to Approved Clearstead's Recommendation to Rebalance the Non-Endowment Long-Term Investment Pool Sarah Parker and John Colla, will report.
C.2.b. = Tab 4	 Resolution to Amend the Youngstown State University Non-Endowment Asset Allocation Guidelines Sarah Parker and John Colla, will report.
D.	New Business
E.	Adjournment



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Disclosure of Relationships with University-Affiliated Financial Institutions

(Reviewed for updates February 2022)

In accordance with Youngstown State University policy 3356-3-10, Investment of the University's Non-Endowment and Endowment Funds, members of the Board of Trustees are required to disclose relationships, beyond the ordinary customer relationships, with the financial institutions involved with the University's non-endowment and endowment funds. Please disclose the nature of any relationships with the institutions listed below.

The financial institutions involved with the Non-Endowment Funds are as follows:

	Clearstead
	Diamond Hill
	Dimensional Fund Advisors (DFA)
	Dodge & Cox
	Evanston Capital
	J.P. Morgan
	Loomis Sayles
	Lord Abbett
	PNC
	Prudential
	State Treasury Asset Reserve of Ohio (STAR Ohio)
	Vanguard
	Victory
	Wells Fargo
	William Blair
	I have no business or familial relationship with the above institutions that require disclosure
The Fi	nancial Institutions involved with the Endowment Funds are as follows:
	Clearstead
	Huntington National Bank
	DNC

- □ PNC_
- □ Vanguard
- □ I have no business or familial relationship with the above institutions that require disclosure

SIGNED:	DATED:

For audit and compliance purposes, please return completed form to YSU, Tod Hall 223, Office of the Vice President for Finance & Business Operations by June 30, 2022.



March 2, 2022

YOUNGSTOWN STATE UNIVERSITY

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- 1. Initiatives
- 2. Capital Markets Update
- 3. Non-Endowment Assets: Performance & Asset Allocation Review
 - Asset Allocation Guidelines Edit (ACTION)
 - o Private Credit Investment Manager Recommendation: H.I.G. Principal Lending Fund
 - Portfolio Recommendations (ACTION)

APPENDIX

Endowment Assets: Performance & Asset Allocation Review Supporting Information

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CLEARSTEAD OVERVIEW

110 +\$29+ BILLION* 5.5x** 1989 NUMBER OF ASSETS UNDER YEAR COMPANY WAS **INCREASE IN INSTITUTIONAL EMPLOYEES ESTABLISHED** OCIO ASSETS ADVISEMENT INVESTMENT OFFICE INSTITUTIONAL INVESTMENT CONSULTING PRIVATE WEALTH MANAGEMENT **Customized Services:** Thought Leadership: **Comprehensive Services: Research** Corner Financial & Estate Planning Investment Advisory **Fiduciary Services** ClearPoint Tax Strategy & Compliance Governance & Oversight Market Minute Investment Advisory Retirement Plan Consulting **Clearstead Investment Forum Podcast** Family Office Administration **clear**sight clear access. PRISM SUSTAINABLE CLEARSTEAD clearstead FMPOWHER clearstead foundation < clearstead *Approximate as of 12/31/2021 **From 12/31/2016 - 9/30/2021: Includes non-discretionary with trade execution AUM SUBSCRIBE TO RESEARCH CORNER . FOLLOW US ON:



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Clearstead INITIATIVES

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2022 OVERSIGHT DASHBOARD

		1Q	2Q	3Q	4Q	COMMENTS:	LAST REVIEWED
	Investment Policy Review	~				Asset Allocation Guidelines Edit	Investment Policy: 09/01/2021 Strategic Asset Allocation: 09/01/2021
	Strategic Asset Allocation Review						Fee Review: 09/01/2021
STRATEGIC /	Peer Review						MEETING SCHEDULE
ADMINISTRATIVE	2023 Oversight Dashboard						1Q: March 2, 2022
	STAR Ohio/Plus Annual Review						2Q: June 22, 2022 3Q: September 7, 2022 4Q: December 7, 2022
	Fixed Income Review						
	Alternative Investments Review	\checkmark				Private Credit Asset Class	
DODTEOLIO	Global Equity Review						
PORTFOLIO	Invt Manager Recommendation	~				H.I.G. WhiteHorse Principal Lending Fund	
	Capital Markets Review	\checkmark					
PERFORMANCE	Quarterly Performance Review	\checkmark					
	Endowed Account Review / Oversight	~					
	Fee Review						
	ORC Compliance Review						
OTHER	Clearstead Firm Update	~					*



Capital MARKETS UPDATE

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QUARTERLY THEMES

WHAT HAPPENED LAST QUARTER?

- After a volatile third quarter, U.S. equities rebounded in the fourth quarter, led by large caps
 - o S&P 500 +11.0%, Russell 2000 +2.1%, MSCI EAFE -2.7%, MSCI Emerging Markets -1.3%
- Global economy shook off COVID-19 variant concerns and supply chain disruptions
 - Consumer spending remained robust during the quarter
 - o Both services and manufacturing sectors softened, but remain strong
 - U.S. GDP growth forecasts for Q4-2021 are > 7%
- · China economy slows due to COVID-19 lockdowns and property-sector deleveraging

WHAT WE ARE FOCUSING ON:

- COVID-19 cases and potential impact on global economy
- Core inflation and its trend in the months ahead
 - Long-term inflation expectations remain modest, while inflation in the short-run remains elevated vs. long-term averages
- Fiscal and monetary policy
 - o Uncertainty in the passage of Build Back Better plan
 - o Interest rates remain low but face the prospects of a global tightening cycle
- Earnings to support markets and expectations for CY 2022 expected YoY growth is in the high single digits
- A potential rising interest rate environment and the challenges it may present to fixed income investments

Source: Clearstead, Bloomberg LP. As of 12/31/2021. Past performance is not an indicator of future results.



HISTORICAL ASSET CLASS RETURNS

2013	2014	2015	2016	2017	2018	2019	2020	<u>Q1 2021</u>	<u>Q2 2021</u>	<u>Q3 2021</u>	<u>Q4 2021</u>	2021
Sm/Mid	Large Cap	Large Cap	Sm/Mid	Em Mkt	Cash	Large Cap	Sm/Mid	Sm/Mid	Large Cap	Hdg Fnds	Large Cap	Large Cap
36.8%	13.7%	1.4%	17.6%	37.3%	1.9%	31.5%	20.0%	10.9%	8.6%	1.3%	11.0%	28.7%
Large Cap	Sm/Mid	US Bonds	Hi Yld	Dev Intl	US Bonds	Sm/Mid	Large Cap	Large Cap	Sm/Mid	Hi Yld	Sm/Mid	Sm/Mid
32,4%	7.1%	0.6%	17.5%	25.0%	0.0%	27.8%	18.4%	6.2%	5.4%	0.9%	3.8%	18.2%
Dev Intl	US Bonds	Cash	Large Cap	Large Cap	Glb Bond	Dev Intl	Em Mkt	Dev Intl	Dev Intl	Large Cap	Dev Intl	Dev Intl
22.8%	6.0%	0.1%	12.0%	21.8%	-0.9%	22.0%	18.3%	3.5%	5.2%	0.6%	2.7%	11.3%
Hdg Fnds	Hdg Fnds	Hdg Fnds	Em Mkt	Sm/Mid	Hi Yld	Em Mkt	Hdg Fnds	Hdg Fnds	Em Mkt	US Bonds	Hdg Fnds	Hdg Fnds
9.0%	3.4%	-0.3%	11.2%	16.8%	-2.3%	18.4%	10.9%	2.5%	5.1%	0.1%	0.8%	6.5%
Hi Yld	Hi Yld	Dev intl	US Bonds	Glb Bond	Hdg Fnds	Hi Yld	Glb Bond	Em Mkt	Hi Yld	Cash	Hi Yld	Hi Yld
7.4%	2.5%	-0.8%	2.7%	9.3%	-4.0%	14.4%	9.5%	2.3%	2.8%	0.0%	0.7%	5.4%
Cash	Cash	Sm/Mid	Glb Bond	Hdg Fnds	Large Cap	US Bonds	Dev Intl	Hi Yld	Hdg Fnds	Dev Intl	Cash	Cash
0.1%	0.0%	-2.9%	1.9%	7.8%	-4.4%	8.8%	7.8%	0.9%	2.7%	-0.5%	0.0%	0.1%
US Bonds	Em Mkt	Hi Yld	Dev Intl	Hi Yld	Sm/Mid	Hdg Fnds	US Bonds	Cash	US Bonds	Glb Bond	US Bonds	US Bonds
-2.0%	-2.2%	-4.6%	1.0%	7.5%	-10.0%	8.4%	7.5%	0.0%	1.8%	-1.6%	0.0%	-1.5%
Em Mkt	Glb Bond	Glb Bond	Hdg Fnds	US Bonds	Dev Intl	Glb Bond	Hi Yld	US Bonds	Glb Bond	Sm/Mid	Em Mkt	Em Mkt
-2.6%	-2.8%	-4.8%	0.5%	3.5%	-13.8%	5.0%	6.2%	-3.4%	0.6%	-2.7%	-1.3%	-2.5%
Glb Bond	Dev Intl	Em Mkt	Cash	Cash	Em Mkt	Cash	Cash	Glb Bond	Cash	Em Mkt	Glb Bond	Glb Bond
-4.9%	-4.5%	-14.9%	0.3%	0.9%	-14.6%	2.3%	0.5%	-5.9%	0.0%	-8.1%	-1.5%	-8.2%

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; U.S. Bonds – Barclays Capital U.S. Aggregate; Glb Bond – Barclays Capital Global Treasury ex U.S.; REITs – NAREIT ALL REITs; Hdg Fnds – HFRI FOF: Diversified Index; Cash – Merrill Lynch 91-day Tbill. Data as of 12/31/2021, Source: Morningstar Direct.



U.S. ECONOMIC PROJECTIONS

FEDEI	FEDERAL RESERVE BOARD MEMBERS & BANK PRESIDENTS								
		2021	2022	2023	2024	LONGER RUN*			
GDP	December 2021 September 2021 June 2021	5.5% 5.5% 7.0%	4.0% 3.8% 3.3%	2.2% 2.5% 2.4%	2.0% 2.0%	1.8% 1.8% 1.8%			
Unemployment Rate	December 2021 September 2021 June 2021	4.3% 4.8% 4.5%	3.5% 3.8% 3.8%	3.5% 3.5% 3.5%	3.5% 3.5%	4.0% 4.0%			
Core PCE Inflation	December 2021 September 2021 June 2021	4.4% 3.7% 3.0%	2.7% 2,3% 2.1%	2.3% 2,2% 2.1%	2.1% 2.1%				
Federal Funds Rate	December 2021 September 2021 June 2021	0.1% 0.1% 0.1%	0.9% 0.3% 0.1%	1.6% 1.0% 0.6%	2.1% - 1.8%	2.5% 2.5% 2.5%			
# of implied 25 bps rate changes year	December 2021 September 2021 June 2021	0 0 0	3 1 0	3 3 2	2				

*Longer-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: Federal Reserve.

Data as of 9/22/2021. Past performance is not an indicator of future results.



LOWER EXPECTED RETURNS FOR EQUITIES IN 2022

2021 market growth was mainly attributable to earnings growth. Valuations contracted over the course of the year, though they remain elevated by most valuation measures.

Our expectations for 2022 are lower returns compared to 2021, though still respectable; primary risks stem from a further contraction in the P/E multiple due to inflationary and profit margins.

Dividends accounted for only 7% of total return in 2021, and we expect they will account for a larger percentage of returns for 2022.



Source: Clearstead, Bloomberg LP, Factset Earnings Insight, 2022 Consensus EPS growth, forecasted dividend yield for S&P 500, Past performance is not an indicator of future results. Current performance data may be lower or higher than the performance data



FIXED INCOME: LOW YIELD ENVIRONMENT PERSISTS





NON-ENDOWMENT ASSETS: PERFORMANCE & ASSET ALLOCATION REVIEW

NON-ENDOWMENT PERFORMANCE REVIEW (AS OF 12/31/2021)

NON-ENDOWMENT ASSETS (\$MM	E QTD	YTD	1 YR	2 YR	3 YR	5 YR	7 YR	10 YR	2020	2019	2018	SINCE
Total Non-Endowment Assets \$87.27	4 2.4%	7.8%	7.8%	8.7%	9.6%	6.9%	5.4%	5.0%	9.5%	11.5%	-1.5%	4.5%
Benchmar	k ¹ 1.4%	4.3%	4.3%	5.1%	6.3%	4.7%	3.8%	3.5%	5.9%	8.7%	-0.4%	3.4%
Operating & Short-Term Pool \$20.23	1 0.1%	0.1%	0.1%	0.6%	1.2%	1.2%	0.9%	0.6%	1.1%	2.4%	1.7%	0.6%
Benchmar	k ² 0.0%	0.0%	0.0%	0.4%	1.0%	1.2%	0.9%	0.6%	0.8%	2.3%	1.9%	0.6%
Long-Term Pool \$67.04	3 2.9%	9.5%	9.5%	9.1%	11.1%	7.9%	6.3%	6.3%	8.8%	15.3%	-3.4%	6.0%
Benchmar	k ³ 2.5%	7.9%	7.9%	8.9%	10.7%	7.7%	6.2%	6.0%	10.0%	14.2%	-2.4%	5.6%

Strong absolute and relative calendar year results.

A majority of active managers outpaced their respective benchmarks or performed in-line.

U.S. equity was the been the best performing asset class within the pool, returning +26.9% (vs. Russell 3000 +25.7%) in CY21.

Fixed Income positioning protected against rising interest rates returning a modest positive result (+0.1%) while core fixed income (Bloomberg Aggregate Index) was down -1.5%.

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.



ATTRIBUTION OF MARKET VALUE CHANGE: LONG-TERM POOL

LONG-TERM POOL MARKET VALUE CHANGE (07/01/2010 - 12/31/2021)



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Clearstead ASSET ALLOCATION GUIDELINES EDIT

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EXECUTIVE SUMMARY (ACTION)

YSU's Non-Endowment Asset Allocation Guidelines outlines the investment strategy for the operating/short-term pool and longterm / reserve pool funds.

With significant growth in long-term pool assets over the past decade coupled with today's capital markets environment, it is prudent to evolve the guidelines to today's investment strategy and opportunity set.

Below summarizes the changes to the guidelines that Clearstead recommends:

TOPIC	CHANGE / REASONING
& recorden	Aligns with growth of long-term pool and its proportion of total Non-Endowed investment assets;
Total asset ranges of operating / short- term pool vs. long-term pool	Factors into account current operational cash flow quarter-over-quarter and its effects on total assets;
	ORC compliance of an average of 25% in cash / govt securities is monitored and has been maintained, though operational cash flows have led to pool allocations outside of ranges periodically
Update equity / alternative guidelines for current investment opportunities	Allow for consideration of different investment opportunities that fit the non-endowment investment strategy in today's world (e.g., floating rate private debt investment strategy)
Update to benchmarking	Updates benchmarking language to current indices that have been acquired or formally retitled
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PRIVATE CREDIT INVESTMENT MANAGER RECOMMENDATION: H.I.G. PRINCIPAL LENDING FUND

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PRIVATE DEBT AS AN ASSET CLASS

Private Debt Opportunity Set¹



Corporate Direct Lending serves as a core allocation in institutional portfolios:

- Largest sector (~\$800 billion)
- 2. Broad diversification across borrowers and industries
- Floating rate loans help to avoid interest rate risk²
- Principal security, with covenant protections, may limit risk³
- Short effective loan life of three years offers opportunity for liquidity (33% of principal has been returned annually)⁴

Source: Cliffwater, March 2021



Direct Lending has continued to provide attractive floating rate, loss adjusted yields for investors.



Realized Loss Rate (2018-2020)

Provided for informational purposes only and should not be construed as a recommendation or advertisement. The Yield-to-Maturity and Realized Loss Rate is being provided by Cliffwater as an estimate and Clearstead is not representing that these results will or can be achieved. Actual results may be less or greater than information shown. Past performance is not an indicator of future results. The Cliffwater Direct Lending Index ("CDLI") and the Cliffwater Direct Lending Index - Senior ("CDLI-S") seek to measure the unlevered, gross of fees performance of U.S. middle market corporate loans, as represented by the underlying assets of public and private Business Development Companies ("BDCs"), subject to certain eligibility requirements. Please see disclosures at the end of this presentation.



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PRIVATE CREDIT RECOMMENDATION

RECOMMENDATION: Clearstead recommends a \$2.6 million investment in the H.I.G. WhiteHorse Principal Lending strategy for the University. This represents a 4% allocation of the University's Long-Term investment portfolio.

WHY INVEST IN H.I.G. WHITEHORSE?

- Established Market Leader: One of the largest dedicated lower to middle market platforms
- **Deep Team & Resources:** 60+ dedicated WhiteHorse professionals across 12 offices, with access to broader H.I.G. team and investment professionals in 9 countries (400+ individuals)
- **Disciplined Process and Robust Platform:** Extensive due diligence and monitoring process; Over \$31 billion deployed through 2,600+ transactions in credit markets since 2004
- **Track Record of Results:** 25+ year track record with lower to middle market companies and sponsors; Annualized, double digit net returns with minimal realized losses within their direct lending portfolio.



EXECUTIVE SUMMARY: H.I.G. WHITEHORSE PRINCIPAL LENDING FUND

	H.I.G. is reopening its Principal Lending Fund
Overview	 Investors will buy into a pre-existing diversified pool of 58 unrealized loans, currently generating fund net IRR of 20.2%
	 H.I.G. WhiteHorse Principal Lending Fund seeks to provide senior secured loans to performing U.S. lower to middle market borrowers with \$8-\$40 million of EBITDA
Investment Strategy	• Provide customized credit solutions to larger non-sponsor and off-the-run / less prolific sponsor owned companies
	 Structure strong downside protection to deliver consistent returns throughout credit cycles
	 Originations team focused on sourcing both non-sponsor companies and private equity firms that are sub \$500 million in fund size (400+ smaller private equity firms)
	 Fund anticipates using 1.5x leverage for direct lending deals
	Investment Target: net return 11%–13%
	Leverage H.I.G. Capital's platform, scale, and established market presence with lower to middle market companies
	 Invested \$31 billion in credit assets across direct lending, broadly syndicated loans, and stressed /distressed
Attractive Track Record	H.I.G. WhiteHorse U.S. Portfolio low annual default rate of 1.44% with 0.0% realized loss ratio based on 119% recovery rate on defaulted loans
	 Principal Lending Fund has invested in 69 transactions, including realized loans, generating a net IRR of 20.2% Average leverage of 4.4x and loan-to-value (LTV) of 49.8%
	Dedicated U.S. team of 60+ seasoned investment and origination professionals
	Highly experienced senior team, averaging 24 years of credit experience
Deep Team	Capitalize on resources and expertise of the H.I.G. platform, including global private equity and distressed teams
	 Complete market coverage, with market professionals in Miami, Atlanta, Boston, Chicago, Cleveland, Dallas, New York Los Angeles, San Francisco, Stamford, Toronto and Washington D.C.
	 Supply/Demand imbalances and market/informational inefficiencies create consistent opportunity in lower to middle market direct lending
Market Opportunity	Non-sponsor and off-the-run sponsor segments are relatively underserved, making them comparatively attractive
	Less covered than the overcrowded larger middle market issuers



H.I.G. WHITEHORSE: PRIVATE CREDIT MARKET SEGMENTATION



Source: H.I.G. Capital.



H.I.G. WHITEHORSE: EXPERTISE IN PRIVATE LENDING

Access to the full spectrum of lower middle market lending opportunities provides compelling risk-adjusted returns.

SIGNIFICANT TRACK F MIDDLE MARKET DIRE	RECORD IN CT LENDING
# of Transactions	157
Levered Net IRR	12.8%
Secured Debt	99%
Loan-to-Value	49%

Disciplined process: Identified over 3,000 and evaluated over 1,900 potential investment opportunities, demonstrating the strength of H.I.G.'s origination

infrastructure. Underwriting discipline, with closed deals representing

SIGNIFICANT SCA SECURED LOANS (SI	LE IN NCE '04)
Capital Invested	\$31 billion
# of Transactions	2,600+
Dedicated Investment Professionals	60+
# of Offices	12 WhiteHorse Offices

Typical Underwriting Process: 1-3 months

Total Sourced Opportunities: >3,000

Qualified Opportunities: 1,918

Term Sheet / IOI Issued: 271

Deals Closed:

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Source: H.I.G. Capital. As of 12/31/2020. Past performance is not a guarantee of future results.

approximately 2% of opportunities sources

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<2% of opportunities

sourced become closed deals

H.I.G. WHITEHORSE: PERFORMANCE TRACK RECORD

Fund	Vintage	Total Cmnt Amount	Permanent Capital Invested	Realized Value	Unrealized Value	Total Value	Net IRR
H.I.G. WhiteHorse U.S. Portfolio	2010-Present	\$6,154	\$8,175	\$6,020	\$4,594	\$9,614	12.5%
H.I.G. WhiteHorse Direct Lending Fund (Non-Sponsor – Unlevered)	2016	\$862	\$1,079	\$905	\$424	\$1,329	9.3%
H.I.G. WhiteHorse Principal Lending Fund (Sponsor – Levered)	2018	\$925	\$1,408	\$350	\$1,177	\$1,527	20.2%
H.I.G. WhiteHorse Direct Lending Fund (Non-Sponsor – Unlevered)	2020	\$1,656	\$238	\$56	\$201	\$257	n/a

Source: H.I.G. Capital.

Net returns shown for the H.I.G. WhiteHorse U.S. pontfolio are pro forma to reflect the fee structure that is charged by H.I.G. WhiteHorse Principal Lending Fund. Please refer to Endnote 3 for additional information.

Net returns shown for H.I.G. WhiteHorse Lending reflect the actual fee structures charged. See Endnote 9 for additional information.

Principal lending commitment amount includes commitments to H.I.G. WhiteHorse Equity Side-Car, L.P., an H.I.G. WhiteHorse Principal Lending Fund Parallel Investment Entity established primarily to make equity and equity-related co-investments in middle market companies alongside other pooled investment vehicles controlled by H.I.G.

Direct lending fund total commitments includes affiliated SMAs.





REPRESENTATIVE TERMS FOR THE FUND						
Fund	H.I.G. WhiteHorse Principal Lending Fund					
Commitment Period	Evergreen structure with an initial three year commitment period					
Harvest Period	Evergreen structure with a harvest period, if triggered, of three years after the end of the Commitment Period (subject to two one-year extensions at the GP's discretion)					
Management Fee	1.25% per annum on invested capital in the Fund					
Preferred Return	7% per annum (compounded quarterly)					
Carried Interest	15% in the Fund					
Distributions	Distribution of net cash proceeds quarterly (Fund only)					
Catch Up	100% for credit fund					
Fund Leverage	1.5x					
GP Commitment	2.0%					
Legal Counsel	McDermott, Will & Emery					
Auditor	Deloitte & Touche					



Clearstead PORTFOLIO RECOMMENDATIONS

PORTFOLIO RECOMMENDATIONS (ACTION)

YOUNGSTOWN STATE UNIVERSITY AS OF JANUARY 31, 2022									
		MARKET	% OF		MARKET	%OF	POLICY	POLICY	TACTICAL
	TICKER	VALUE	PORTFOLIO	CHANGES	VALUE	PORTFOLIO	TARGET	RANGE	+/-
		(CURRENT)			(POST CHANGES)				Collins states
Total Operating & Short Term		\$20,212,390	100.0%	\$0	\$20,212,390	100.0%	100.0%		1. Com 10
Operating Assets		\$20,211,466	100.0%		\$20,211,466	100.0%		60-100%	
JPMorgan MM / Fed Hermes Gov Ob	JTSXX	\$20,120,278	99.5%		\$20,120,278	99.5%			
Star Plus*	2	\$0	0.0%		\$0	0.0%			
Star Ohio*	-	\$91,188	0.5%		\$91,188	0.5%			
Short-Term Assets		\$924	0.0%		\$924	0.0%		0-40%	
Vanguard Short-Term Federal Adm	VSGDX	\$924	0.0%		\$924	0.0%			
Total Long Term Reserves Pool	in the second	\$64,982,203	100.0%	\$0	\$64,982,203	100.0%	100.0%		
Domestic Equity		\$20,372,112	31.4%		\$20,372,112	31.4%	27.0%	20-35%	
Large Cap		\$13,637,463	21.0%		\$13,637,463	21.0%			
Vanguard Instl Index	VINIX	\$13,637,463	21.0%		\$13,637,463	21.0%			[
Small/Mid Cap		\$6,734,649	10.4%		\$6,734,649	10.4%			SUMMARY OF
Vanguard Mid Cap Index Adm	VIMAX	\$3,431,234	5.3%		\$3,431,234	5.3%			RECOMMENDATIONS
Loomis Sayles Small Growth N2	LSSNX	\$1,523,889	2.3%		\$1,523,889	2.3%			
Victory Integrity Small Cap Value Y	VSVIX	\$1,779,526	2.7%		\$1,779,526	2.7%			- Invest \$2.6 million in
International Equity		\$5,679,860	8.7%		\$5,679,860	8.7%	8.0%	0-15%	• Invest \$2.6 minor in
William Blair International Growth I	BIGIX	\$2,647,761	4.1%		\$2,647,761	4.1%			the H.I.G. Principal
Dodge & Cox International Stock	DODFX	\$3,032,098	4.7%		\$3,032,098	4.7%			Lending Fund, which
Total Equity		\$26,051,972	40.1%		\$26,051,972	40.1%	35.0%	25-45%	will be invested over
Alternatives		\$7,019,133	10.8%		\$7,511,500	11.6%	15.0%	0-20%	the payt 12,15
JPMorgan Strategic Income Opps Fd	JSOSX	\$1,043,493	1.6%	-\$1,043,493	\$0	0.0%			the next 12-15
Allspring Adv Absolute Return	WABIX	\$1,064,140	1.6%	-\$1,064,140	\$0	0.0%			months
H.I.G. Principal Lending Fund	7	\$0	0.0%	\$2,600,000	\$2,600,000	4.0%			
Weatherlow Fund*	-	\$4,911,500	7.6%		\$4,911,500	7.6%			Fund new
Fixed Income		\$31,892,504	49.1%		\$31,400,137	48,3%	50.0%	35-75%	investment strategy
Short Term Fixed Income		\$18,616,092	28.6%		\$18,616,092	28.6%	30.0%	25-45%	investment strategy
YSU Short Term Bond	-	\$12,066,972	18.6%		\$12,066,972	18.6%			from current liquid
Lord Abbett Short Duration	LLDYX	\$4,632,488	7.1%		\$4,632,488	7.1%			alternatives and
DFA Five-Year Global	DFGBX	\$1,916,632	2.9%		\$1,916,632	2.9%			core fixed income
Intermediate Fixed Income		\$13,276,412	20.4%		\$12,784,045	19.7%	20.0%	10-30%	core integ income
JPMorgan Core Bond Fund R6**	JCBUX	\$5,545,828	8.5%	-\$492,367	\$5,053,461	7.8%			
YSU Intermediate Term Fixed		\$4,495,630	6.9%		\$4,495,630	6.9%			Secure and the second
Prudential High Yield Bond R6	PHYQX	\$3,234,954	5.0%		\$3,234,954	5.0%			
Cash & Cash Equivalents		\$18,593	0.0%		\$18,593	0.0%	0.0%	0-5%	
Equity Account Cash	5	\$18,593	0.0%		\$18,593	0.0%			
Total University Assets	CERTIFICATION .	\$85,194,593		and the second second	\$85,194,593				





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ENDOWMENT ASSETS: PERFORMANCE & ASSET ALLOCATION REVIEW

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ENDOWMENT HOLDINGS

YSU ENDOWMENT (HUNTINGTON)

- Equity Mutual Funds 14% (4-6 Mutual Funds & ETFs)
- Stocks 62% (40-60 U.S. Large/Mid-Cap Stocks)
- Alternatives 3% (Real Estate Mutual Fund)
- **Fixed Income Mutual Funds** 5% (Federated Total High Yield, Invesco Preferred Portfolio, Vanguard Inflation Pro Sec)
- o Individual Bonds 13% (8-12 Individual Bonds: U.S. Corporate / Gov't / Asset Backed Debt)
- Cash 3%

ENDOWMENT AND STREET ALLOCATIONS RENEORMANIEM AND STREET ALLOCATIONS



ENDOWMENT ASSETS: PERFORMANCE & ASSET ALLOCATION (AS OF 12/31/2021)

ENDOWMENT ASSETS	MARKET VALUE (\$MM)	ASSET ALLOCATION	COMPOSITION	QTD	YTD	1 YR	2 YR	3 YR	5 YR	7 YR	2020	2019	2018	SINCE INCEPTION ³
YSU Endowment Fund	\$15.852	76% Equity / 3% Alts / 21% Fixed Income & Cash	Stocks, Bonds, Mutual Funds	9.2%	20.9%	20.9%	18.6%	20.3%	13.6%	10.8%	16.3%	23.8%	-4.8%	11.1%
			Benchmark '	8.2%	20.6%	18.4%	20.7%	14.8%	12.1%	13.2%	16.2%	25.6%	-3.1%	12.8%
			Benchmark ²	6.6%	15.9%	15.9%	15.3%	17.5%	12.6%	10.3%	16.2%	22.2%	-2.3%	10.9%

COMPLIANCE

- Asset Allocation Guidelines: 70% Equities (60-80%) / 30% Cash & Fixed Income (20-40%)
 - YSU Endowment (In Compliance at Quarter End)

1) Benchmark: 70% S&P 500 / 25% BBg US Aggregate. 2) Benchmark: 60% S&P 500 / 40% BBg US Aggregate. 3) Inception date: 06/2013.



< clearstead supporting information</pre>

2021 WINNERS AND LOSERS



Source: Clearstead, Bloomberg LP, as of 12/31/2021, All returns in US Dollar terms, Past performance is not an indicator of future results. US Small Value=Russell 2000 Value, India=MSCI India, US Large Growth=Russell 1000 Growth, Europe=MSCI Europe, US Large Core=Russell 1000, US Large Value=Russell 1000 Value, US Small Core=Russell 2000, Japan=MSCI Japan, Developed Int1=MSCI EAFE, US Small Growth=Russell 2000 Growth, US High Yield Bond=Bloomberg High Yield, Emerging Market=MSCI Emerging Market=MSCI Energing Market=MSCI EAFE, US Small Growth=Russell 2000 Growth, US High Yield Bond=Bloomberg High Yield, Emerging Market=MSCI Emerging Market=MSCI Energing Energing Market=MSCI Energing Engilemet=MSCI Energing Market=MSCI Energing Engileme



2022 ECONOMIC OUTLOOK

	AREA	EXPECTATIONS					
	Labor Markets	U.S. to average 250k-500k jobs per month in 2022; unemployment rate of 4.2% likely to be below 4% by year-end					
	Manufacturing	Manufacturing remains in economic expansion; rate of change may slow as economy normalizes away from goods and towards services					
	Services	Services industry remains solidly in economic expansion					
Ś	Inflation	Core CPI remains elevated in the first half of the year, but is likely to move lower throughout 2022					
	Fixed Income Markets	Rates likely to move higher as Fed begins to unwind QE and start lifting Fed Funds rate					
卻	Equity Markets	Positive momentum likely to carry forward though volatility should be more of a fixture in markets as compared to 2021					
Source: Clearstead	Source: Clearstead, as of 12/31/2021.						


GLOBAL EARNINGS OUTLOOK



EARNINGS OUTLOOK BY YEAR

- Earnings expectations edged up in the final months of the calendar year for 2021 EPS
- Earnings for CY2022 are "in-line" with longer-run (pre-pandemic) trends and are largely predicated on above-trend global GDP growth, stable profit margins, and gradual normalization of activity despite the persistence of COVID-19



GLOBAL EQUITY VALUATIONS



Source: Bloomberg as of 12/31/2021. 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 Small-1994 - Current; MSCI EM- 2003 - Current;



GLOBAL ECONOMY OUTLOOK: 2022-2023 FORECASTS

	2021		20 GROV	22 REAL	GDP IMATES			20 GROV	23 REAL	GDP MATES	
	BBG EST.	IMF	OECD	BBG	GOLDMAN	AVG.	IMF	OECD	BBC	GOLDMAN	AVG.
U.S.	5.6%	5.2%	3.7%	3.9%	3.5%	4.1%	2.2%	2.4%	2.5%	2.2%	2.3%
EU	5.4%	4.4%	4.3%	4.3%	4.3%	4.3%	2.0%	2.5%	2.5%	- 2.5%	2.4%
China	8.0%	5.6%	5.1%	5.1%	4.7%	5.1%	5.3%	5.1%	5.3%	4.6%	5.1%
Japan	1.8%	3.2%	3.4%	3.4%	2.7%	3.2%	1.4%	1.1%	1.4%	1.6%	1.4%
UK	6.9%	5.0%	4.7%	4.7%	4.7%	4.8%	1.9%	2.1%	2.2%	2.4%	2.2%
India	9.5%	8.5%	8.1%	9.3%	9.2%	8.8%	6.6%	5.5%	7.6%	6.4%	6.5%

The global economy saw a robust bounce-back in 2021 and is expected to continue that trend in 2022 in terms of real GDP growth.

Global GDP growth is expected to remain strong in 2022 and continue decelerating back to pre-pandemic levels.

• Average U.S. GDP growth estimates for 2022 and 2023 are 4.1% and 2.3%, respectively

Source: Clearstead, OECD, Goldman Sachs, Bloomberg. 2021 Projections are Bloomberg Consensus figures except India = IMF figure.



GLOBAL ECONOMY: PMI LOWER OFF SUMMER PEAK

		Jan-21	Feb-21	Mar-21	Apr-21	May-21	Jun-21	Jul-21	Aug-21	Sep-21	Oct-21	Nov-21	Dec-21	12M Trend
Clabal	Mfg	53.6	54	55.0	55.9	56.0	55.5	55.4	54.1	54.1	54.2	54.2	54.2	1
Global	Serv	51.6	52.8	54.7	57.0	59.5	57.5	56.3	52.8	53.8	55.6	55.6	54.6	1
110	Mfg	59.2	58.6	59.1	60.5	62.1	62.1	63.4	61.1	60.7	58.4	58.3	57.7	~
US	Serv	58.3	59.8	60.4	64.7	70.4	64.6	59.9	55.1	54.9	58.7	58.0	57.6	~~
Fureness	Mfg	54.8	57.9	62.5	62.9	63.1	63.4	62.8	61.4	58.6	58.3	58.4	58.0	1
Eurozone	Serv	45.4	45.7	49.6	50.5	55.2	58.3	59.8	59.0	56.4	54.6	55.9	53.1	
1.112	Mfg	54.1	55.1	58.9	60.9	65.6	63.9	60.4	60.3	57.1	57.8	58.1	57.9	~
UK	Serv	39.5	49.5	56.3	61.0	62.9	62.4	59.6	55.0	55.4	59.1	58.5	53.6	\sim
lanan	Mfg	49.8	51.4	52.7	53.6	53.0	52.4	53.0	52.7	51.5	53.2	54.5	54.3	~~~
Japan	Serv	46.1	46.3	48.3	49.5	46.5	48.0	47.4	42.9	47.8	50.7	53.0	52.1	~~~
China	Mfg	51.5	50.9	50.6	51.9	52.0	51.3	50.3	49.2	50.0	50.6	49.9	50.9	~~
China	Serv	52.0	51.5	54.3	56.3	55.1	50.3	54.9	46.7	53.4	53.8	52.1	53.1	-~~-
India	Mfg	57.7	57.5	55.4	55.5	50.8	48.1	55.3	52.3	53.7	55.9	57.6	55.5	~~
Inuia	Serv	52.8	55.3	54.6	54.0	46.4	41.2	45.4	56.7	55.2	58.5	58.1	55.5	~
S. Korea	Mfg	53.2	55.3	55.3	54.6	53.7	53.9	53.0	51.2	52.4	50.2	50.9	51.9	~~

Global PMIs softened in Q4 as the Delta and Omicron COVID-19 variants surged and supply chain issues collectively weakened the global economy.

- Global manufacturing is being primarily impacted by supply-chain disruptions: shipping and trucking challenges or delays in raw or intermediate inputs.
- The service sector in most countries remains tied to dynamics related to COVID-19 and varying restrictions designed to curb outbreaks



INFLATION, VALUATIONS, AND EQUITY PERFORMANCE

INFLATION AND VALUATIONS



○ 1954-1972,1984-2021 ○ 1973-1983

Source: Clearstead, Bloomberg LP, as of 11/30/2021 Past performance is not an indicator of future results.



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LONG RUN INFLATION EXPECTATIONS REMAIN CONSISTENT

INFLATION EXPECTATIONS



Source: Clearstead, Cleveland Federal Reserve, as of 12/17/2021.



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EXECUTIVE SUMMARY

	Market Value 10/01/2021	Market Value 12/31/2021	% of Portfolio	4th Quarter 2021 (%)	YTD (%)
otal University Assets	\$75,380,975	\$87,273,442	100.0	2.4	7.8
Total Policy Benchmark ¹				1.4	4.3
Total Operating & Short Term	\$10,210,678	\$20,230,843	23.2	0.1	0.1
Total Operating & Short Term Benchmark ²				0.0	0.0
Total Long Term/ Reserves Pool	\$65,170,297	\$67,042,600	76.8	2.9	9.5
Total Long Term/ Reserves Fund Benchmark ³				2.5	7.9
Total Domestic Equity	\$20,319,021	\$21,708,578	24.9	9.8	26.9
Russell 3000 Index				9.3	25.7
Total International Equity	\$5,828,493	\$5,933,065	6.8	1.8	10.0
MSCI EAFE (Net)				2.7	11.3
Total Alternatives	\$7,135,833	\$6,992,345	8.0	-1.3	5.4
Total Alternatives Benchmark				0.3	6.0
Total Fixed Income	\$31,868,506	\$32,390,166	37.1	-0.3	0.1
Total Fixed Income Benchmark ⁴				-0.6	-0.8
Total Cash & Cash Equivalents	\$18,444	\$18,445	0.0	0.0	0.0
90 Day U.S. Treasury Bill				0.0	0.0

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.

a) Total Long-Term / Reserves Fund Benchmark: 27% Russell 3000 / 3% 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.

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	25% - 50%	23%
Long Term/ Reserves Pool	50% - 75%	77%

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%	32%
International Equity	8%	0% - 15%	9%
Total Equity	35%	25% - 45%	41%
Alternatives	15%	0%-20%	10%
Short-Term Fixed Income	30%	25% - 45%	28%
Intermediate Fixed Income	20%	10% - 30%	20%
Cash & Cash Equivalents	0%	0% - 5%	0%

In Line Within Tolerance Review

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SCHEDULE OF ASSETS

	Ticker	Account Type	Begin Market Value S	Market Value 12/31/2021	% of Portfolio
otal University Assets			\$75,380,975	\$87,273,442	100.0
Total Operating & Short Term			\$10,210,678	\$20,230,843	23.2
Federated Hermes Government Obligations Fund		Cash		\$20,056,925	23.0
JPMorgan 100% U.S. Tr Sec MM Inst	JTSXX	Cash	\$10,094,323	\$81,798	0.1
Vanguard Short-Term Federal Adm	VSGDX	US Fixed Income Short Term	\$25,186	\$932	0.0
STAR Ohio		Cash	\$91,169	\$91,188	0.1
otal Long Term/ Reserves Pool			\$65,170,297	\$67,042,600	76.8
Total Domestic Equity			\$20,319,021	\$21,708,578	24.9
Vanguard Institutional Index	VINIX	US Stock Large Cap Core	\$13,482,450	\$14,382,478	16.5
Vanguard Mid Cap Index Adm	VIMAX	US Stock Mid Cap Core	\$3,449,057	\$3,723,998	4.3
Loomis Sayles Sm Growth N	LSSNX	US Stock Small Cap Growth	\$1,666,281	\$1,755,632	2.0
Victory Integrity Small Value Y	VSVIX	US Stock Small Cap Value	\$1,721,232	\$1,846,470	2.1
Total International Equity			\$5,828,493	\$5,933,065	6.8
William Blair International Growth I	BIGIX	International	\$2,953,858	\$2,989,358	3.4
Dodge & Cox Internat'l Stock	DODFX	International	\$2,874,635	\$2,943,706	3.4
Total Alternatives			\$7,135,833	\$6,992,345	8.0
JPMorgan Strategic Income Opps Sel	JSOSX	Absolute Return	\$1,595,931	\$1,043,408	1.2
Allspring Adv Absolute Return Instl	WABIX	All Assets	\$1,547,826	\$1,037,437	1.2
Weatherlow Fund Offshore Fund I Ltd		Hedge Fund	\$3,992,075	\$4,911,500	5.6
Total Fixed Income			\$31,868,506	\$32,390,166	37.1
JPMorgan Core Bond	WOBDX	US Fixed Income Core	\$5,651,052	\$5,646,341	6.5
YSU Intermediate Term Bond		US Fixed Income Core	\$4,616,206	\$4,587,827	5.3
PGIM High Yield R6	PHYQX	US Fixed Income High Yield	\$3,085,711	\$3,332,105	3.8
YSU Short Term Bond		US Fixed Income Short Term	\$12,278,748	\$12,211,944	14.0
Lord Abbett Short Duration Income I	LLDYX	US Fixed Income Short Term	\$4,270,851	\$4,666,220	5.3
DFA Five-Yr Global Fxd-Inc I	DFGBX	Global Fixed Income	\$1,965,939	\$1,945,729	2.2
Total Cash & Cash Equivalents			\$18,444	\$18,445	0.0
PNC Govt MMkt	PKIXX	Cash	\$18,444	\$18,445	0.0



ATTRIBUTION OF MARKET VALUE

TOTAL UNIVERSITY ASSETS

	Q1-2021	Q2-2021	Q3-2021	Q4-2021	One Year
Total University Assets					
Beginning Market Value	\$66,471,553	\$73,087,043	\$75,443,318	\$75,380,975	\$66,471,553
Contributions	\$18,009,372	\$54,212		\$30,000,000	\$48,063,584
Distributions	-\$13,063,584			-\$20,000,000	-\$33,063,584
Net Cash Flows	\$4,945,788	\$54,212		\$10,000,000	\$15,000,000
Net Investment Change	\$1,669,702	\$2,302,063	-\$62,342	\$1,892,467	\$5,801,890
Ending Market Value	\$73,087,043	\$75,443,318	\$75,380,975	\$87.273,442	\$87,273,442
Change \$	\$6,615,490	\$2,356,275	-\$62,342	\$11,892,467	\$20,801,890

LONG-TERM POOL

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	Q1-2021	Q2-2021	Q3-2021	Q4-2021	One Year
otal Long Term/ Reserves Pool					
Beginning Market Value	\$61,263,903	\$62,931,975	\$65,233,293	\$65,170,297	\$61,263,903
Contributions	\$9,163		-		\$9,163
Distributions	-\$9,163				-\$9,163
Net Cash Flows	-	-	-	-	
Net Investment Change	\$1,668,072	\$2,301,319	-\$62,996	\$1,872,302	\$5,778,697
Ending Market Value	\$62,931,975	\$65,233,293	\$65,170,297	\$67,042,600	\$67,042,600
Change \$	\$1,668,072	\$2,301,319	-\$62,996	\$1,872,302	\$5,778,697



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PERFORMANCE SUMMARY

	QTD (%)	1 Yr (%)	2 Yr (%)	3 Yr (%)	5 Yr (%)	7 Yr (%)	10 Yr (%)	2020 (%)	2019 (%)	2018 (%)	Inception (%)	Inception Date
Total University Assets	2.4	7.8	8.7	9.6	6.9	5.4	5.0	9.5	11.5	-1.5	4.5	Apr- 04
Total Policy Benchmark ¹	1.4	4.3	5.1	6.3	4.7	3.8	3.5	5.9	8.7	-0.4	3.4	
Total Operating & Short Term	0.1	0.1	0.6	1.2	1.2	0.9	0.6	1.1	2.4	1.7	0.6	Jul-10
Total Operating & Short Term Benchmark ²	0.0	0.0	0.4	1.0	1.2	0.9	0.6	0.8	2.3	1.9	0.6	
Total Long Term/ Reserves Pool	2.9	9.5	9.1	11.1	7.9	6.3	6.3	8.8	15.3	-3.4	6.0	Jul-10
Total Long Term/ Reserves Fund Benchmark ³	2.5	7.9	8.9	10.7	7.7	6.2	6.0	10.0	14.2	-2.4	5.6	
Total Domestic Equity	9.8	26.9	22.6	25.2	17.6	14.2	16.0	18.5	30.4	-5.7	16.1	Jul-10
Russell 3000 Index	9.3	25.7	23.3	25.8	18.0	14.5	16.3	20.9	31.0	-5.2	16.3	
Total International Equity	1.8	10.0	13.3	17.6	11.1	7.3	9.1	16.7	26.7	-17.8	6.7	Oct- 10
MSCI EAFE (Net)	2.7	11.3	9.5	13.5	9.5	6.8	8.0	7.8	22.0	-13.8	6.5	
Total Alternatives	-1.3	5.4	0.7	5.1	3.3			-3.7	14.3	-6.0	2.1	Mar-15
Total Alternatives Benchmark*	0.3	6.0	5.7	7.7	5.3	-	-	5.4	11.7	-4.3	3.6	
Total Fixed Income	-0.3	0.1	2.6	3.9	3.0	2.5	2.3	5.2	6.6	0.9	2.4	Jul-10
Total Fixed Income Benchmark⁵	-0.6	-0.8	1.8	2.9	2.3	2.0	1.8	4.5	5.0	1.4	1.9	
Total Cash & Cash Equivalents	0.0	0.0	0.2	0.6	137.	-	-	0.4	1.5	-	0.7	Apr-18
90 Day U.S. Treasury Bill	0.0	0.0	0.4	1.0	1.1	0.9	0.6	0.7	2.3	1.9	1.2	

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.



PERFORMANCE REPORT CARD

	% of Portfolio	QTD (%)	1 Yr (%)	2 Yr (%)	3 Yr (%)	5 Yr (%)	7 Yr (%)	10 Yr (%)	2020 (%)	2019 (%)	2018 (%)	Inception (%)	Inception Date
Total University Assets	100.0	2.4	7.8	8.7	9.6	6.9	5.4	5.0	9.5	11.5	-1.5	4.5	Apr-04
Total Policy Benchmark		1.4	4.3	5.1	6.3	4.7	3.8	3.5	5.9	8.7	-0.4	3.4	
Total Operating & Short Term	23.2	0.1	0.1	0.6	1.2	1.2	0.9	0.6	1.1	2.4	1.7	0.6	Jul-10
Total Operating & Short Term Benchmark		0.0	0.0	0.4	1.0	1.2	0.9	0.6	0.8	2.3	1.9	0.6	
Federated Hermes Government Obligations Fund	23.0	0.0	0.0	0.1	0.7	0.8	0.6	0.4	0.3	1.8	1.5	0.0	Nov-21
90 Day U.S. Treasury Bill		0.0	0.0	0.4	1.0	1.1	0.9	0.6	0.7	2.3	1.9	0.0	
JPMorgan 100% U.S. Tr Sec MM Inst	0.1	0.0	0.0	0.2	0.8	0.9	0.7	0.5	0.3	2.0	1.7	0.5	Oct-11
90 Day U.S. Treasury Bill		0.0	0.0	0.4	1.0	1.1	0.9	0.6	0.7	2.3	1.9	0.6	
Vanguard Short-Term Federal Adm	0.0	-0.6	-0.5	2.0	2.7	2.0	1.8	1.5	4.5	4.2	1.4	1.5	Oct-10
Blmbg. 1-5 Year Government		-0.7	-1.2	1.5	2.4	1.9	1.6	1.3	4.3	4.2	1.5	1.4	
STAR Ohio	0.1	0.0	0.1	0.4	1.0	- 11	-	-	0.7	2.3	-	1.2	Jul-18
90 Day U.S. Treasury Bill	1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	0.0	0.0	0.4	1.0	1.1	0.9	0.6	0.7	2.3	1.9	1.2	
Total Long Term/ Reserves Pool	76.8	2.9	9.5	9.1	11.1	7.9	6.3	6.3	8.8	15.3	-3.4	6.0	Jul-10
Total Long Term/ Reserves Fund Benchmark	And the second second	2.5	7.9	8.9	10.7	7.7	6.2	6.0	10.0	14.2	-2.4	5.6	
Total Domestic Equity	24.9	9.8	26.9	22.6	25.2	17.6	14.2	16.0	18.5	30.4	-5.7	16.1	Jul-10
Russell 3000 Index	12.8	9.3	25.7	23.3	25.8	18.0	14.5	16.3	20.9	31.0	-5.2	16.3	
Vanguard Institutional Index	16.5	11.0	28.7	23.4	26.0	18.4	14.9	16.5	18.4	31.5	-4.4	16.5	Jul-10
S&P 500 Index		11.0	28.7	23.4	26.1	18.5	14.9	16.6	18.4	31.5	-4.4	16.5	
Vanguard Mid Cap Index Adm	4.3	8.0	24.5	21.3	24.5	15.9	12.6	15.1	18.2	31.0	-9.2	14.4	Oct-10
Vanguard Mid Cap Index Benchmark		8.0	24.5	21.3	24.5	15.9	12.6	15.2	18.2	31.1	-9.2	14.5	
Loomis Sayles Sm Growth N	2.0	5.4	10.2	21.6	23.3	19.1	14.4	15.5	34.3	26.7	0.6	21.1	Sep-19
Russell 2000 Growth Index		0.0	2.8	17.7	21.2	14.5	11.7	14.1	34.6	28.5	-9.3	19.9	
Victory Integrity Small Value Y	2.1	7.3	33.6	16.3	18.5	8.8	8.5	11.8	1.2	23.1	-18.6	11.7	Oct-10
Russell 2000 Value Index		4.4	28.3	15.9	18.0	9.1	9.5	12.0	4.6	22.4	-12.9	11.5	
Total International Equity	6.8	1.8	10.0	13.3	17.6	11.1	7.3	9.1	16.7	26.7	-17.8	6.7	Oct-10
MSCI EAFE (Net)		2.7	11.3	9.5	13.5	9.5	6.8	8.0	7.8	22.0	-13.8	6.5	
MSCI AC World ex USA (Net)		1.8	7.8	9.2	13.2	9.6	6.6	7.3	10.7	21.5	-14.2	5.7	
William Blair International Growth I	3.4	1.2	9.0	20.0	23.4	14.9	10.0	10.8	32.0	30.7	-17.7	10.5	Jul-12
MSCI AC World ex USA (Net)		1.8	7.8	9.2	13.2	9.6	6.6	7.3	10.7	21.5	-14.2	7.4	
Dodge & Cox Internat'l Stock	3.4	2.4	11.0	6.5	11.6	7.2	4.5	7.6	2.1	22.8	-18.0	5.8	Oct-10
MSCI EAFE (Net)		2.7	11.3	9.5	13.5	9.5	6.8	8.0	7.8	22.0	-13.8	6.5	



PERFORMANCE REPORT CARD

	% of Portfolio	QTD (%)	1 Yr (%)	2 Yr (%)	3 Yr (%)	5 Yr (%)	7 Yr (%)	10 Yr (%)	2020 (%)	2019 (%)	2018 (%)	Inception (%)	Inception Date
Total Alternatives	8.0	-1.4	5.3	0.7	5.0	3.3	-		-3.7	14.3	-6.0	2.1	Mar-15
Total Alternatives Benchmark		0.3	6.0	5.7	7.7	5.3	-	-	5.4	11.7	-4.3	3.6	
JPMorgan Strategic Income Opps Sel	1.2	-0.2	0.6	1.1	2.0	2.0	2.4	2.8	1.6	4.0	0.8	1.5	Oct-18
Blmbg. U.S. Universal Index		0.0	-1.1	3.1	5.2	3.8	3.4	3.3	7.6	9.3	-0.3	5.1	
Allspring Adv Absolute Return Instl	1.2	-0.5	2.6	-0.2	3.5	3.3	2.1	3.5	-2.9	11.2	-5.6	1.6	Mar-15
HFRI Fund of Funds Composite Index		0.3	6.0	8.4	8.4	5.7	4.1	4.5	10.9	8.4	-4.0	3.9	
Weatherlow Fund Offshore Fund I Ltd	5.6	-1.7	5.7	14.8	14.4	8.9	6.7	7.3	24.7	13.6	-3.1	-1.7	Jul-21
HFRI Fund of Funds Composite Index		0.3	6.0	8.4	8.4	5.7	4.1	4.5	10.9	8.4	-4.0	1.0	
Total Fixed Income	37.1	-0,3	0.1	2.6	3.9	3.0	2.5	2.3	5.2	6.6	0.9	2.4	Jul-10
Total Fixed Income Benchmark		-0.6	-0.8	1.8	2.9	2.3	2.0	1.8	4.5	5.0	1.4	1.9	
JPMorgan Core Bond	6.5	-0.1	-1.1	3.4	5.0	3.8	3.1	3.0	8.1	8.3	0.2	3.5	Sep-17
Bimbg. U.S. Aggregate Index		0.0	-1.5	2.9	4.8	3.6	3.0	2.9	7.5	8.7	0.0	3.3	
YSU Intermediate Term Bond	5.3	-0.6	-1.3	3.0	4.4	3.3	2.7	2.6	7.5	7.2	0.8	3.6	Apr-04
Blmbg. Intermed. U.S. Government/Credit		-0.6	-1.4	2.4	3.9	2.9	2.5	2.4	6.4	6.8	0.9	3.3	
PGIM High Yield R6	3.8	0.6	6.5	6.1	9.4	6.9	6.6	7.1	5.7	16.3	-1.2	6.9	Jan-17
Bimbg. U.S. Corp: High Yield Index		0.7	5.3	6.2	8.8	6.3	6.1	6.8	7.1	14.3	-2.1	6.3	
YSU Short Term Bond	14.0	-0.5	-0.4	1.6	2.5	2.0	1.7	1.5	3.7	4.3	1.6	2.4	Apr-04
ICE BofA 1-3 Yr. Gov/Corp		-0.5	-0.4	1.4	2.3	1.9	1.6	1.4	3.3	4.1	1.6	2.3	
Lord Abbett Short Duration Income I	5.3	-0.1	1.1	2.1	3.3	2.8	2.7	2.9	3.2	5.6	1.4	3.1	Apr-18
ICE BofA 1-3 Yr. Gov/Corp		-0.5	-0.4	1.4	2.3	1.9	1.6	1.4	3.3	4.1	1.6	2.3	
DFA Five-Yr Global Fxd-Inc I	2.2	-1.0	-1.0	0.2	1.5	1.6	1.6	1.9	1.5	4.0	1.7	1.8	Jul-13
FTSE World Government Bond Index 1-5 (Hedged)		-0.5	-0.8	1.2	2.1	1.9	1.7	1.7	3.2	3.9	2.1	- 1.7	
Total Cash & Cash Equivalents	0.0	0.0	0.0	0.2	0.6	-	-	12.24	0.4	1.5		0.7	Apr-18
90 Day U.S. Treasury Bill		0.0	0.0	0.4	1.0	1.1	0.9	0.6	0.7	2.3	1.9	1.2	
PNC Govt MMkt	0.0	0.0	0.0	0.2	0.8	-	- 12	-	0.4	2.0	-		Apr-18
90 Day U.S. Treasury Bill		0.0	0.0	0.4	1.0	1.1	0.9	0.6	0.7	2.3	1.9	1.2	

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.

Total Operating & Short-Term Benchmark: 95% ICE BofA 91 Days T-Bills / 5% BBgBarc US Govt 1-3 Yr.
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.



WHY MIDDLE MARKET DIRECT LENDING

MARKET OPPORTUNITY AND INDUSTRY SHIFT HAS DRIVEN THE DEMAND AND GROWTH OF MIDDLE MARKET LENDING

BANKS HAVE RETRENCHED FROM MIDDLE MARKET LENDING



LIQUID MARKETS HAVE SHIFTED TO MEGADEALS

-\$2.0 Trillion High Yield Market⁵ % of deals with less than \$300 mm tranche size 37% 2% 2004 2020 ~\$1.6 Trillion Leveraged Loan Market⁶

% of loans with less than \$300 mm tranche size



Source: Ares Investor Presentation May 2021



H.I.G. WHITEHORSE BACKGROUND

H.I.G. is an established lower middle market alternative investment manager with roughly \$46 billion (as of 9/30/2021) in assets under management. The firm has 500+ investments professionals, including 105 focused on credit. H.I.G.'s WhiteHorse Lending Funds – 2020 seeks to generate attractive risk-adjusted returns from the lower middle market credit spaces it focuses on by lending to well-established, performing companies with proven cash flow generating capabilities and experienced management teams that lack access to traditional sources of financing. Clearstead believes H.I.G.'s deal sourcing platform and experience in the lower middle market are competitive advantages in the space. The fund's process emphasizes downside protection and Clearstead believes H.I.G. can add value through quarterly income generation and creation of attractive risk-adjusted returns in a low interest rate environment.

Parent

Sami Mnaymneh and Tony Tamer founded H.I.G. in 1993. Mnaymneh and Tamer were former managing directors at Blackstone and Bain, respectively. H.I.G. launched its first fund in 1993 with a focus on small to midsize investments and a strong emphasis on in-house operating expertise. The firm now offers multiple strategies across credit, private equity, growth equity, and real estate strategies, all with a focus on the lower middle market. The firm has approximately 800 employees, ~500 of them investment professionals spread across 18 offices in 9 different countries and on 3 different continents. As of September 2021, H.I.G. manages roughly \$46B across 3 asset pools. It's credit platform is ~\$31B in size, while it also has private equity and real estate platforms.

People

The firm currently employs 800+ individuals, including over 500 investment professionals that work across the private market spectrum. The global credit platform includes 105 individuals in 14 offices globally. More specifically, the direct lending strategy team includes both co-CEOs, 9 managing directors, 41 other investment professionals, 25 business development professionals, and robust back-office support.



PRINCIPAL LENDING FUND: PERFORMANCE SUMMARY

RETURN SUMMARY	
Permanent Capital Invested:	\$1,408 million
Net IRR %:	20.2%
PORTFOLIO STATISTICS SUMMARY	
Number of Investments:	69
Average EBITDA*:	\$35 million
Net Debt / EBITDA:	4.4x
Loan-to-Value (LTV):	50%
% First Lien:	96%

Source: H.I.G. Capital *Excludes syndicated loans. Past performance is not a guarantee of future results.

Clearstead 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. Clearistead distants any liability for any direct or incidential loss incurred by intomnation provided is general in nature, is provided for imminute procession, and should not be construent as westment advice. Any west sepressed are based upon the data available at the time time intornation was produced and are subject to change at any time based on market or other conditions. Clearistead distants any lability for any direct or incidential loss incurred applying, any other information in this presentation. All investment advices we whated at a to the truth their mestiment advice, and financial students. Past performance is no guarantee of future results. Investing involves risk, induling risk of loss. Deversification does not struine a protein on tensive a prote or guarantee agains loss. All indices are unmanaged and performance of the indices includes includes includes tensestment of datvices includes retensions to enable and investment cannot be made in any index. All indices are unmanaged and performance loss bort term in k and volution (interest none), unless structures income, unless structures income, unless structures income, unless structures income and in networks includes income or principal payments. Additionally, bonds and short term investments entition risk, or the risk that the return of an Altivouch bonds generally present less bond term in k and volution (interest rates risk, bonds do contain interest rates risk, bonds the risk that the return of an and the risk of default, or the risk that an issuer will be unable to make income or principal payments. Additionally, bonds and short term investment end and interest rates risk that the return of an any other income or principal payments. Additionally, bonds and short term investment end and interest rates risk that the return of an any direction of the risk that the return of an additional term investment and structures and short term investment end and the risk of default, or the risk that an issuer will be unable to make income or principal payments. Additionally, bonds and short term investment end and the risk of de

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The commodities industry can be significantly affected by commodity prices, world events, import controls, worldwide competition, government regulations, and economic conditions

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

Index Definitions:

The SLP 500 Index is a broad based market index, comprised of 500 large cap companies, generally considered representative of third sized U.S. storage index is an unmanaged index is an unmanaged index is a market value weighted index is a market index, comprised of 500 large cap companies, generally considered representative of third size (adudty and

The Russell 1000 Value Index, Russell 1000 Value Index, and Russell 1000 Growth Index and Russell 1000 Growth Index are indices that measure the performance of large-capitalization stocks, respectively. The Russell 2000 Value Index, Russell 2000 Index and Russell 2000 Growth Index are indices that measure the performance of small-capitalization stocks, respectively. value stocks, small-capitalization stocks and small-capitalization growth stocks, respectively. The Russell Midcap Index and Russell Midcap Index and Russell Midcap Growth Index and Russell S00 Index and Russell S00 Index and Russell Midcap Growth Index and Russell S00 Index and Russell S00 Index and Russell Midcap Growth Index and Russell Midcap Growth Index and Russell Midcap Growth Index and Russell S00 Index An largest U.S. growth stocks, respectively, based on total market capitalization.

able price data. The Wilshire Micro Cap Index is a market capitalization-weighted index comprised of all stocks in the Wilshire 5000 Index represents th e broadest makes for the U.S. eputy market, measuring the performance of all U.S. equity securities with readily avail The MSCI LAFE (Europe, Australasia, Far East) Index is designed to measure developed market equity performance, excluding the U.S. and Canada. The MSCI Emerging Markets (EM) Index is designed to measure global energing market equity performance. The MSCI Vorid Index is designed to measure global developed market equity performance. The MSCI Emerging market equity performance of developed market is an unmanaged index is an unmanaged index is an unmanaged index is an unmanaged index considered representative of developed European countries. The MSCI Japan Index is an unmanaged index considered representative of developed market sent is an unmanaged index considered index considered index considered index is an unmanaged index is an unmanaged index considered.

representative of stocks of Asia Pacific countries excluding Japan.

The U.S. 10-Year treasury Yield is generally considered to be a barometer for long-term interest rates. Merrill Lynch 91-day T-bill Index includes U.S. Treasury tills with a remaining marunity from 1 up to 3 in

The U.S. 10 Year treasury Yield is generally considered to be a barometer for long-term interstates and months. The Barclays Capitalia (BC U.S. Treasury Index in designed to cover public objections of the U.S. Treasury Index in designed to cover public objections of the U.S. Treasury Win L us of the Strengther and secured notes in an unmanaged, market Value weighted performance benchmark for investment-grade field issues, including government, corporate, asset backed, and mortgage backed securities with maturicies of a larger to cover public objections of the U.S. Treasury Win L us of the Strengther and the U.S. Treasury Index in designed to cover public objections of the U.S. Treasury Index in designed to cover public objections of the U.S. Treasury Index in designed to cover public objections of the U.S. Treasury Index in designed to cover public objections of the U.S. Treasury Index in designed to cover public objections of the U.S. Treasury Index in designed to cover public objections of the U.S. Treasury Index in designed to cover public objections of the U.S. Treasury Index in designed to cover public objections of the U.S. Treasury Index in designed to cover public objections of the U.S. Treasury Index in designed to cover public objections of the U.S. Treasury Index in designed to cover public objections of the U.S. Treasury Index in designed to cover public objections of the U.S. Treasury Index in designed to cover public objections of the U.S. Treasury Index in designed to cover public objections of the U.S. Treasury Index in designed to cover public objections of the U.S. Treasury Index in designed to cover public objections of the U.S. Treasury Index in designed to cover public objections of the U.S. Treasury Index in designed to cover public objections of the U.S. Treasury Index in designed to cover public objections of the U.S. Treasury Index in designed to cover public objections of the U.S. Treasury Index in designed to cover public objections of the U.S. Treasury Index in designed to cover pub

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reported in USU. The EXAMP FORMS Interaction of the Second Se

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VIX - The CBOE Volatility Index (VIX) is based on the prices of eight S&P 500 index put and call options. Gold - represented by the dollar spot price of one troy ounce

WTI Crude - West Texas Intermediate is a grade of crude oil used as a benchmark in oil pricing.

WT Crude - West Treas Interneduels is grade of crude oil sued as a benchmark in oil prome; The Afford billy indice measures of a population's phylot particular item; such as a house, indexed to the population's income The Afford billy indice measures of a population's phylot particular item; such as a house, indexed to the population's income The Homeownership % is computed by dviding the number of owner orcuped housing units or households. Hifl to merging Markets: Aila explan, discal tindex, Latin Amenora, Africa or the Madde Tax: Hifle the engry Basic Materials studieges which employ investment focus only. There is no investment Strategy criteria for inclusion in these indices. Funds classified as Emerging Market: All as a test for Market in the engry Basic Materials studieges which employ investment processes bettyping to be at a do as used that infinition about the market in wrant the Manger maintains a level of exercise which exceeds that is a interest of a market processes bettyping to be at a do as used that infinition about the market in wrant the Manger maintains a level of exercise which exceeds that is a interest of the wrant engines in the infinition about the market in wrant the Manger maintains a level of exercise which exceeds that is a interest of market processes bettyping on the assess of the wrant wrant the Manger maintain about the avertain infinition about the avertain infinition about the avertain infinition about the avertain infinition about the market in wrant the Manger maintain a level of exercise process and expendition of the avertain infinition about the avertain information about the avertain information about the avertain information about the avertain infinition about the avertain f a spread eared instruments in which one or multiple comparents of the spread contains a derivative, reasy, real estate, MLP or combination of these or other instruments. Strategies are typically quantitatively driven to measure the existing minimistra between instruments and, in some cases, identify attractive postors in which the risk adjusted spread terween these instruments.

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, housing, electricity, food, and transportation. The CPI is published monthly. Unless otherwise noted, the CPI figure is as of the date this report is created

The Consumer Price Index (2P) is an inflationary indicator that interaves in the charge in the cost of a fixed base of a products and services, including housing, electricity, food, and transportation. The CPI is guided and that is report is (Feated The Charge is as of the date this report is (Feated The Charge is as of the date this report is (Feated The Charge is as of the date this report is (Feated The Charge is as of the date this report is (Feated The Charge is as of the date this report is (Feated The Charge is as of the date this report is (Feated The Charge is as of the date this report is (Feated The Charge is as of the date this report is (Feated The Charge is as of the date this report is (Feated The Charge is as of the date this report is (Feated The Charge is as of the date this report is (Feated The Charge is as of the date this report is (Feated The Charge is as of the date this report is (Feated The Charge is as of the date this report is (Feated The Charge is as of the date this report is (Feated The Charge is as of the date this report is (Feated The Charge is as of the date this report is (Feated The Charge is and record is an of the date that interview in the AP 400 hids as of the date (The date is an other of value weighted index that interview in the date weighted index that interview in the date this report is (Feated The date weighted index that interview in the date weighted index that interview int

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 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 U.S. equity securities with readily available price data. The Wilshire Solo Index is a market capitalization-weighted index comprised of all stocks in the U.S. equity securities undex (RESI) is comprised of publically traded real estate equity securities.

minus the stock in the 584 500. The Wilkhire keal Estate Securities index (RED) is compared of pairing markets index is designed to measure of pairing markets (RED) is compared of pairing markets (RED) is compared of pairing markets (RED) is compared of pairing market (RED) is compared of pairing markets (RED) is compared of pairing market (RED) is compared of pairing market equity performance, excluding the US. and Canada. The MSCI EAFE (Europe, Australia, Far Est) Gross Index is designed to measure global emerging market equity performance, excluding the US. The MSCI EAFE (Europe, Canada Canada Che equity market performance). The MSCI and Canada Che equity market performance of eveloped in average distributed to measure diveloped in average distributed to measure diveloped markets (RED) is an Canada. The MSCI excepted to measure diveloped in average diveloped market average of the compared of th

Index repeates the universe of large and mediation companies on the US and table to be pairy matter. The MSL US hind capitalization companies on the US and table to be pair matter and table to be pa

The **Cambridge U.S. Private Equity Index** is a representation of returns for over 70% of the total dollars raised by U.S. leveraged buyout, subordinated deta and special situation managers from 1996 to December 2007. Returns are calculated tassed on the powled time weighted return and are net of all fees. These pooled means represent the end to end rate of return calculated on the aggregate of all cash flows and market values reported by the general partners of the underlying constituents in the quanterly and annual reports. Please Note the performance of this index lag: by 1 quarter.

aggregate of all cash flows and market values reported by the general partners of the underlying construents in the quarterly and annual reports. Please Note: the performance of this values is by Liguine. The Bank of America (Boh) Merrica (Boh) Merrica (Bus) Please Note: the performance of the performance of the performance of below investment grade US baiar Denominated corporate bonds bine (US, High Yield Master Hundless Last the performance of below investment grade US baiar Denominated corporate bonds publicly issued in the US, market July High Yield Master Hundless Last the performance of below investment grade US baiar Denominated corporate bonds bine (US, High Yield Master Hundless Last the performance). Corp 4 S dot 17 yrs Index reacts the performance of US, dotaid-enominated investment grade corventible socurates bonds in the US. donaret the use of the US. Subject Please National and Corporate bonds by Baiar Denominated investment grade corventible socurates bonds in the US. donaret the use of US. dotaid-enominated investment grade corventible socurates and the US. The Boh AM LIU S. High Yield Master Hundless LS. High Y

with maturities ranging from one to the years. The Citigroup WGBI Index is a market capitalization weighted bond index consisting of the government band markets of the multiple countries. The Citigroup WGBI ex US Index is a market capitalization weighted bond index consisting of the government band markets of the multiple countries. The Citigroup 3-Month U.S. Treasury Bill Index performance is an average of the last 3-Month Treasury Bill issues.

The NCREF Property index (NPI) represents quarterly time series composite total time of return measure of a very large pool of individual commercial real estate properties acquired in the private market. The index represents quarterly time series composite total time returns and index of the private market. The index represents quarterly time series composite total time at least 60% occupied and worked or controlled, at least in part by tat-returns informations and an excluded. The international time returns grade non-agencial return requires acquired in the private market. The index represents quarterly market market to international returns and an excluded. Construents included in the HPT be valued at attempts, either internativ or externally using standard commercial real estate apartage market to integrate and and excluded. Construents included in the HPT be valued at the standard time returns and and excluded. Construents included in the HPT be valued at the standard time returns and and excluded. Construents included in the HPT be valued at the standard time returns acquired in the private market. The internative of time returns acquired in the private market to internative market to 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 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 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 returns for traded external debt instruments (external meaning foreign currency denominated fixed income) in the emerging markets.

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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 housing, electricity, food, and transportation. The CPI is published monthly. Please Note: the performance of this index lags by 1 month.

The **Credit Suisse Leveraged Loan index** is a market value-weighted index designed to represent the mestable universe of the U.S. dolar-denominated leveraged loan market. The **Dow Jones (D) UBS Complexion** (The **Dow Jones (D) UBS Complexion** (The **Dow Jones (D) UBS Complexion**) (The **Dow Jones (D) USS Complexion**) (The **Dow Jones (D) USS Complexion**) (The **Dow Jones USS Select Real Estate**) (The **Dow Jones**

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

Inter Use (1002), 2010, 2015, 2020, 2015, 2020, 2015, 2020, 2015, 2020, 2015, 2020, 2015, 2020, 2015, 2020, 2015, 2020, 2015, 2020, 2015,

These reports are not to be constructed as an offer or the solidization of an offer to tay or sel securities interactional purposes only and are not are toget on these reports are not are toget on the solidization of an offer to tay or sel securities interactional purposes only and are not internet on the solidization of an offer to tay or sel securities interactional purposes only and are not internet on the solidization of an offer to tay or sel securities interactional purposes only and are not internet on the solidization of an offer to tay or sel securities interactional purposes only and are not internet on the solidization of an offer to tay or sel securities interactional purposes only and are not internet on the solidization of the solidization of the solidization of the solidization of the solidization offer to tay or sel securities internet on the solidization of This evaluation report has been prepared for the exclusive use of a specific client and no part of it may be used by any investment manager without permission of that client and Clearstead.

Evaluation of investment managers covers both quantitative and qualitative acpects. In addition to the investment performance evaluation, we monitor ownership structure, track key employee information, and hold regular meetings with each investment management organization employed by our clients.

The data presented in this report have been calculated on a time-weighted rate of return basis. All returns are net of investment advisory fees, but gooss of Clearstead advisory fees, unless otherwise labeled. The deduction of Clearstead advisory fees and custodian fees would have the effect of decreasing the indicated investment gentarmance.

The performance data shown represent past performance. Past performance is not indicative of future results. Current performance data may be lower or higher than the performance data preserved

Returns for periods longer than one year are annualized. Each number is independently jounded

A current copy of Hartland & Co.'s ADV-Part 2 is available to all clients upon request.





RESOLUTION TO APPROVE CLEARSTEAD'S RECOMMENDATION TO REBALANCE THE NON-ENDOWMENT LONG-TERM INVESTMENT POOL

WHEREAS, the Investment Subcommittee of the Board of Trustees of Youngstown State University is responsible for identification of asset classes, strategic asset allocation, acceptable asset ranges above and below the strategic asset allocation, and selecting investment managers, pursuant to University policy 3356-3-10; and

WHEREAS, the Investment Subcommittee has consulted with the University's investment advisors and recommends rebalancing the Non-Endowment Long-Term Investment Pool.

NOW, THEREFORE, BE IT RESOLVED, that the Investment Subcommittee of the Board of Trustees of Youngstown State University does hereby approve the rebalance, attached hereto.

Board of Trustees Meeting March 3, 2022 YR 2022-

PORTFOLIO RECOMMENDATIONS (ACTION)

YOUNGSTOWN STATE UNIVERSITY							j.	AS OF JANU	ARY 31, 2022
	TICKER	MARKET VALUE (CURRENT)	% OF PORTFOLIO	CHANGES	MARKET VALUE (POST CHANGES)	% OF PORTFOLIO	POLICY TARGET	POLICY RANGE	TACTICAL +/-
Total Operating & Short Term		\$20,212,390	100.0%	\$0	\$20,212,390	100.0%	100.0%		
Operating Assets JPMorgan MM / Fed Hermes Gov Ob Star Plus*	JTSXX	\$20,211,466 \$20,120,278 \$0	<u>100.0%</u> 99.5% 0.0%		\$20,211,466 \$20,120,278 \$0	<u>100.0%</u> 99.5% 0.0%		60-100%	
Star Onio* <u>Short-Term Assets</u> Vanguard Short-Term Federal Adm	VSGDX	\$91,188 \$924 \$924	0.5% 0.0% 0.0%		\$91,188 <u>\$924</u> \$924	0.5% <u>0.0%</u> 0.0%		0-40%	
Domostic Equity		\$64,982,203	100.0%	\$0	\$64,982,203	100.0%	100.0%	20.250	
Large Cap Vanguard Instl Index	VINIX	\$20,372,112 \$13,637,463 \$13,637,463	<u>31.4%</u> 21.0% 21.0%		\$20,372,112 \$13,637,463 \$13,637,463	31.4% 21.0% 21.0%	<u>27.0%</u>	20-35%	
Small/Mid Cap Vanguard Mid Cap Index Adm Loomis Sayles Small Growth N2	VIMAX LSSNX	\$6,734,649 \$3,431,234 \$1,523,889	10.4% 5.3% 2.3%		\$6,734,649 \$3,431,234 \$1,523,889	10.4% 5.3% 2.3%			SUMMARY OF RECOMMENDATIONS
Victory Integrity Small Cap Value Y International Equity William Blair International Growth I	VSVIX BIGIX	\$1,779,526 \$5,679,860 \$2,647,761	2.7% 8.7% 4.1%		\$1,779,526 \$5,679,860 \$2,647,761	2.7% 8.7% 4.1%	8.0%	0-15%	Invest \$2.6 million in the H.I.G. Principal
Dodge & Cox International Stock <u>Total Equity</u> <u>Alternatives</u>	DODFX	\$3,032,098 \$26,051,972 \$7,019,133	4.7% 40.1% 10.8%		\$3,032,098 \$26,051,972 \$7,511,500	4.7% <u>40.1%</u> 11.6%	<u>35.0%</u> 15.0%	<u>25-45%</u> 0-20%	Lending Fund, which will be invested over
JPMorgan Strategic Income Opps Fd Allspring Adv Absolute Return H.I.G. Principal Lending Fund	JSOSX WABIX	\$1,043,493 \$1,064,140 \$0	1.6% 1.6% 0.0%	-\$1,043,493 -\$1,064,140 \$2,600,000	\$0 \$0 \$2,600,000	0.0% 0.0% 4.0%			months
Weatherlow Fund* Fixed Income	-	\$4,911,500 <u>\$31,892,504</u>	7.6% 49.1%		\$4,911,500 \$31,400,137	7.6% 48.3%	50.0%	35-75%	Fund new investment strategy
YSU Short Term Bond Lord Abbett Short Duration	LLDYX	\$18,616,092 \$12,066,972 \$4,632,488	28.6% 18.6% 7.1%		\$18,616,092 \$12,066,972 \$4,632,488	28.6% 18.6% 7.1%	30.0%	25-45%	from current liquid alternatives and
DFA Five-Year Global Intermediate Fixed Income	DFGBX	\$1,916,632 \$13,276,412 \$5,545,828	2.9% 20.4%	\$402.267	\$1,916,632 \$12,784,045	2.9% 19.7%	20.0%	10-30%	core fixed income
YSU Intermediate Term Fixed Prudential High Yield Bond R6	PHYQX	\$4,495,630 \$3,234,954	6.9% 5.0%	-\$432,307	\$4,495,630 \$3,234,954	7.8% 6.9% 5.0%			
Cash & Cash Equivalents Equity Account Cash Total University Assets	-	\$18,593 \$18,593 \$85,194,593	<u>0.0%</u> 0.0%		\$18,593 \$18,593 \$85,194,593	<u>0.0%</u> 0.0%	0.0%	<u>0-5%</u>	



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RESOLUTION TO AMEND THE YOUNGSTOWN STATE UNIVERSITY NON-ENDOWMENT ASSET ALLOCATION GUIDELINES

WHEREAS, the Investment Subcommittee of the Board of Trustees of Youngstown State University is responsible for developing sound and consistent asset allocation guidelines and setting forth an investment structure for managing the University's assets pursuant to University policy 3356-3-10; and

WHEREAS, the Investment Subcommittee has consulted with the University's Investment advisors and recommends edits to the Non-Endowment Asset Allocation Guidelines.

NOW, THEREFORE, BE IT RESOLVED, that the Investment Subcommittee of the Board of Trustees of Youngstown State University does hereby approve the changes to the Non-Endowment Asset Allocation Guidelines, attached hereto.

Board of Trustees Meeting March 3, 2022 YR 2022-

YOUNGSTOWN STATE UNIVERSITY Asset Allocation and Other Investment Guidelines Investment of Non-Endowment University Funds

ASSET ALLOCATION GUIDELINES

The Assets of the University are to be allocated between short-term assets and long-term assets. The Asset Allocation section of the Policy is specifically intended to address short-term assets and long-term assets as two distinct asset pools of the University's balance sheet assets.

The objectives that the University has established in conjunction with a comprehensive review of the current and projected financial requirements are as follows:

- 1. The strict adherence to the Ohio Revised Code and the authority granted under Ohio Revised Code §3345.05. Specifically:
 - a. <u>ORC 3345.05 (C)(1)</u>: A minimum of 25% of the average amount of the University's investment portfolio over the course of the previous fiscal year must be invested in securities of the United States government or of its agencies or instrumentalities, the treasurer of state's pooled investment program, obligations of this state or any political subdivision of this state, certificates of deposit of any national bank located in this state, written repurchase agreements with any eligible Ohio financial institution that is a member of the federal reserve system or federal home loan bank, money market funds, or bankers acceptances maturing in two hundred seventy days or less which are eligible for purchase by the federal reserve system, as a reserve.
 - b. <u>ORC 3345.05 (C)(2)</u>: Eligible funds above those that meet the conditions described in ORC 3345.05 (C)(1) may be pooled with other institutional funds and invested in accordance with section 1715.52 of the Revised Code.

The Operating and Short-Term Pool will be comprised of cash and short-term assets required for working capital, liquidity purposes, and other short-term needs. It is understood that assets classified as short-term are to be maintained primarily in cash and cash equivalents, and may also invest partially in short term fixed income (guidelines defined within), in order to meet the daily liquidity needs of the University. The asset allocation guidelines of the Operating and Short-Term Pool are outlined in the table below.

The Long-Term / Reserves Pool are investments with a time horizon in excess of one year. It is assumed that financial needs of the University ranging from one to five years will be maintained in fixed income investments. It is further assumed that any equity or alternative investments will have a time horizon greater than five years. As shown in the

table below, short-term and intermediate-term fixed income, alternative investments, and equity are classified as long-term assets.

Based on the investment objectives and risk tolerances stated in these guidelines, the following asset allocation strategy is considered appropriate for the University's investment Assets:

Operating & Short Term Pool		Allocation	l
Asset Class/Investment Strategy	Pool Target	Pool Range	Total Range
Total Cash/Operating Assets	n/a	60-100%	
Total Short-Term Fixed Income	n.a	0-40%	
			0-50%
Long Term/Reserves Pool			
Total Domestic Equity	27%	20-35%	
Total International Equity	8%	0-15%	
Total Equity	35%	25-45%	
Total Alternatives	15%	0-20%	
Total Short-Term Fixed Income	30%	25-45%	
Total Intermediate-Term Fixed	20%	10-30%	
Income			
Cash	0%	0-5%	
	100%		50-100%

According to the University's Policy, the operating and short-term funds of the nonendowment funds are allocated to the Operating and Short-Term Pool of the asset allocation guidelines. Adequate balance of 60 to 100% of the pool will be invested in cash and cash equivalents in order to provide the University with liquidity to meet its operational needs. The Pool may also invest 0-40% in 1-3 year average maturity U.S. Government fixed income investments. The Operating and Short Term Pool should represent 0-50% of the total market value of the Investments. Although the actual percentage will fluctuate with market conditions, levels in excess of 50% will result in rebalancing the Investments to target levels. The Subcommittee will review the pool level allocations on a quarterly basis.

According to the University's Policy, funds with a longer time horizon are allocated to the Long-Term / Reserves Pool. This Pool will be comprised of short-term fixed income, intermediate-term fixed income, alternative investments, and equity.

Short-term fixed income should normally represent 30% of the total market value of the Pool. Although the actual percentage will fluctuate with market conditions, short-term fixed income levels in excess of 45% or below 25% will result in rebalancing the short-term fixed income component of the pool to its target level. The Subcommittee will review the short-term fixed income allocation on a quarterly basis.

Intermediate-term fixed income should normally represent 20% of the total market value of the pool. Although the actual percentage will fluctuate with market conditions, short-term fixed income levels in excess of 30% or below 10% will result in rebalancing the intermediate-term fixed income component of the pool to its fixed income target level. The Subcommittee will review the intermediate-term fixed income allocation on a

quarterly basis. Up to 10% of the fixed income investments in the Long Term Pool may be made in below investment grade debt (high yield).

The equity component should normally represent 35% of the total market value of the long-term pool. Although the actual percentage of equities will vary with market conditions, equity levels in excess of 45% or below 25% will result in rebalancing the equity component of the fund to its equity target level. The Subcommittee will review the equity allocation on a quarterly basis.

The alternative investments component should normally represent 15% of the total market value of the long-term pool. Although the actual percentage will vary with market conditions, levels in excess of 20% will result in rebalancing the alternatives component of the fund to its target level. The Subcommittee will review the alternative allocation on a quarterly basis.

Depending upon market conditions, the percentage allocation to each asset class may fluctuate within the above policy ranges. Such strategic allocations should be reviewed and approved by the Investment Subcommittee on an ongoing basis. In the event that the allocation to a certain investment Pool and asset class falls above or below the above established ranges, the Consultant should make a recommendation to the Investment Subcommittee to rebalance the portfolio.

Investment objectives and guidelines will be established for each separate account investment manager. Mutual funds are not subject to the Guidelines set forth below. As it relates to the selection and retention decisions regarding mutual funds, the stated Guidelines should be used as references.

CASH AND CASH EQUIVALENTS GUIDELINES

Such investments should be prudently diversified and would include:

- any instrument issued by, guaranteed by, or insured by the U.S. Government, agencies, or other full faith instruments;
- commercial paper issued by domestic corporations which is rated both "P-1" and "A-1" by Moody's and Standard & Poor's, respectively;
- certificates of deposit, bankers acceptances, or other such irrevocable primary obligations from a list of approved banks provided by the managers; and
- commingled, short-term cash reserve funds managed generally in accordance with the principles set forth above.

FIXED INCOME GUIDELINES

The objective of the fixed-income portion of the Assets shall be both to provide a secure, above-average stream of income (i.e., income in excess of U.S. Treasury Bill rates) and

to provide a relatively stable market value base. The following directions are intended to apply to all fixed-income investment managers:

- Within the Operating and Short Term Pool, non-cash investments are limited to U.S. government only fixed income securities with a 1 to 3 year average maturity and duration +/- 20% of the stated benchmark.
- Fixed-income investments may include U.S. and Non-U.S. issues of Government and Agency obligations, marketable corporate bonds, mortgage or asset-backed bonds, and preferred stocks with sinking funds as deemed prudent by the investment managers.
- Fixed income investments are to be prudently diversified by security type, with an emphasis toward avoiding concentrated positions in any one fixed income sector or security type.
- Fixed-income portfolio maturity, as measured by portfolio duration, should be in the range of 80% to 120% of the applicable benchmark.
- Below investment grade fixed income investments are permissible up to 10% of the total fixed income allocation; however, the total portfolio will seek an average weighted credit quality of "A" or better by Standard & Poor's
- No more than 5% of the fixed income investments, at market, shall be invested in securities of any one issuer, except Government and Agency obligations, without the Subcommittee's prior approval.
- Cash equivalent investments (maturities less than one year) are permitted, up to 10% of the total market value of the account, when the managers' investment policies discourage longer-term commitments. However, the Subcommittee must be consulted in the event that the manager chooses to increase its cash equivalent position beyond 10% of the assets under its supervision.
- Investment assets allocated to fixed income investment management firms and institutions shall be properly diversified so as to avoid over concentration with any one investment manager or institution.

EQUITY GUIDELINES

The objective of the equity portion of the Assets shall be to provide for potential growth of principal with a long-term time horizon. The use of both passively managed equity index strategies and actively managed mutual funds, collective trusts, separate accounts, and comingled funds are permitted. The following acceptable sub asset classes will serve as a guideline for equity investments:

A. <u>Large Cap Domestic</u> - common stocks or equivalents listed on an established stock market (e.g., NYSE, AMEX, NASDAQ) and readily

marketable with market capitalization generally exceeding \$5 billion. Non-marketable securities may not be purchased or held without prior approval from the Subcommittee. As used herein, "generally exceeding \$5 billion" means that greater than 67% of the value of the portfolio is invested in securities when the market capitalization of which exceeds \$5 billion.

- B. <u>Small/Mid Cap Domestic</u> common stocks or equivalents listed on an established stock market (e.g., NYSE, AMEX, NASDAQ) and readily marketable with market capitalization generally exceeding \$500 million. Non-marketable securities may not be purchased or held without prior approval from the Subcommittee. As used herein, "generally exceeding \$500 million" means that greater than 67% of the value of the portfolio is invested in securities when the market capitalization of which exceeds \$500 million.
- C. <u>International</u> common stocks or equivalents listed on an established stock market (e.g., NYSE, AMEX, NASDAQ, FTSE, NIKKEI, DAX) and readily marketable with market capitalization generally exceeding \$1 billion. Non-marketable securities may not be purchased or held without prior approval from the Subcommittee. As used herein, "generally exceeding \$1 billion" means that greater than 50% of the value of the portfolio is invested in securities when the market capitalization of which exceeds \$1 billion.

Equity Diversification

Each investment manager should diversify the portfolio in an attempt to minimize the impact of substantial losses in any specific industry or issue. Therefore, each equity account:

- May not invest more than approximately 5% of the account valued at cost in a given issuer, unless its prospective benchmark / index has greater than a 5% allocation to a specific issuer; In this case, the manager must not exceed an allocation 5% of the account higher than the index weighting
- May not invest more than approximately 10% of the account valued at market in a given issuer
- <u>Large Cap, Mid Cap and Small Cap Domestic</u> Shall be broadly diversified by industry or sector groups and not represent over concentration relative to the mandate's relevant benchmark. Additionally, domestic equity managers shall limit international-domiciled securities to 10% of their portfolio value, absent Subcommittee approval.
- <u>International</u> Shall be broadly diversified by country, industry or sector groups and not represent over concentration relative to the mandate's relevant benchmark; and limit emerging market exposure to 25% of total international exposure.
- <u>Global</u> Shall be diversified between domestic and international equities and follow an investment strategy consistent with its mandate's benchmark

that it is seeking to outperform; global equity managers may invest in both developed and developing markets and must ensure ample diversification across industry and sector groups.

ALTERNATIVE INVESTMENT GUIDELINES

Alternative investments are investments that are not included in the traditional assets of cash, equities, and fixed income. Alternative investments include categories such as hedge funds, private equity, private debt, real estate, commodities, tactical asset allocation strategies, etc.

The objective of the alternative investments shall be to promote diversification and provide risk-limiting characteristics with the goal of long-term return potential and lower overall portfolio volatility.

With the assistance of its investment consultant, it is the responsibility of the Subcommittee to conduct acceptable levels of due diligence on any investment categorized as an alternative investment. The due diligence process will include obtaining proper education on the risks and rewards of the alternative asset class, as well as the underlying risks and characteristics of the alternative investment vehicle. This due diligence process must be properly documented and retained.

Investments in private strategies, hedge funds and fund-of-funds, real estate, real assets, and commodities, among other types of alternative strategies, are permissible to the extent that they are established within the asset allocation guidelines. Alternative investments may be accessed through mutual funds, comingled funds, and partnerships, among other types of institutional investment vehicles that offer proper diversification and prudent risk levels.

PROHIBITED INVESTMENTS

The following categories of securities and strategies are not considered appropriate at the present time:

- Private Placements
- Unregistered or Restricted Stock
- Margin Trading/Short Sales
- Commodities, Commodity Contracts, Precious Metals, or Gems (excluding liquid mutual funds)
- Real Estate Property (excluding REITs and other comingled Real Estate strategies)
- Guaranteed Insurance Contacts
- Securities Lending; pledging or hypothecating securities

VOTING OF PROXIES AND TRADE EXECUTION

The investment manager shall vote proxies for separately managed accounts on behalf of the University. The Investment Subcommittee will vote all mutual fund proxies.

The Subcommittee expects the purchase and sale of its securities to be made in a manner designed to receive the combination of best price and execution.

RESPONSIBILITIES OF THE INVESTMENT MANAGERS FOR SEPARATELY MANAGED ACCOUNTS

The guidelines below are applicable to all investment managers that manage money for the University on a separate account basis. However, any mutual or commingled fund retained by the University will not be expected to adhere to these responsibilities.

Adherence to Policy Guidelines

The Assets are to be managed in accordance with the Policy guidelines herein or expressed by separate written instructions when deviation is deemed prudent and desirable. Written instructions amending this Policy document must be authorized by the Subcommittee and will be communicated through the University's Vice President for Finance and Administration or the investment consultant.

Discretionary Authority

The investment managers are expected to exercise complete investment discretion within the boundaries of the restrictions outlined in these guidelines. Such discretion includes decisions to buy, hold, or sell equity or fixed-income securities (including cash equivalents) in amounts and proportions reflective of each manager's current investment strategy.

Communication

The Subcommittee encourages, and the investment managers are responsible for, frequent and open communication with the Subcommittee and the investment consultant on all significant matters pertaining to the investment of the Assets. These communications would generally be addressed to the University's Vice President for Finance and Administration or investment consultant. In this manner, the Subcommittee expects to be advised of any major changes in investment outlook, investment strategy, asset allocation, portfolio structure, market value of the Assets, and other substantive matters affecting the Assets. The Subcommittee also expects to be informed of any significant changes in ownership, organizational structure, financial condition, and/or senior personnel staffing of the investment management organizations.

All investment managers will be required to meet with the University's Investment Subcommittee at the discretion of the Subcommittee.

The Subcommittee recognizes that the Policy requires periodic re-examination and, perhaps, revision if it is to continue to serve as a working document to encourage effective investment management. Whenever an investment manager believes that the Policy should be altered, it is the responsibility of the manager to initiate written communication with the Subcommittee.

Reporting

The Subcommittee expects each investment manager to forward, on a timely basis, quarterly reports containing portfolio activity, valuations at market, and quarterly strategy updates.

Compliance with Prudency and Diversification Measures

As fiduciaries, the investment managers are expected to diversify the portfolio to minimize the risk of large losses. The managers are expected to invest the Assets with care, skill, prudence, and diligence under the circumstances then prevailing that a prudent person acting in a like capacity and familiar with such matters would use in the conduct of an enterprise of a like character and with such aims. Furthermore, the investment managers are expected to acknowledge in writing their intentions to comply with the Policy as it currently exists or as modified by the Subcommittee from time to time.

RESPONSIBILITIES OF THE INVESTMENT CONSULTANT

The investment consultant is responsible for providing information and analysis to assist the University with the following:

- reviewing asset allocation and investment strategy on an annual basis to determine if the current strategy meets the cash flow needs of the University and is maximizing the long-term total return of the Assets;
- reviewing all separately managed accounts to ensure that each investment manager is adhering to the issued Policy guidelines;
- communicating with all investment management organizations on a quarterly basis to determine portfolio composition and to ascertain information concerning organizational change. (Each portfolio is to be reviewed for style drift through portfolio holdings and returns-based style analysis. Additionally, each portfolio is to be reviewed for prohibited investments on an ongoing basis);
- providing a quarterly performance evaluation report and assessment of the University's Assets;
- monitoring the equity holdings of the total portfolio to determine if any one holding represents a percentage weighting that exceeds 10% of the total portfolio and alerting the Subcommittee when the portfolio violates this Policy;
- reviewing asset allocation on a quarterly basis to determine if the current levels are consistent with the asset allocation guidelines stated in this document;
- monitoring the performance of each investment manager retained by the University to determine if the investment product is out-performing the appropriate benchmark over rolling 3 and 5-year time periods; and

monitoring the performance of the total portfolio to determine if the collective investment strategy is outperforming the appropriate benchmarks over rolling 3 and 5-year time periods.

EVALUATION AND REVIEW

The objective of the evaluation and review process is to monitor the progress of the Assets in achieving the overall investment objectives. Performance will be measured and reviewed periodically by the Subcommittee and their consultants. Particular attention will be directed toward:

- determining whether the total funds are achieving their stated objectives;
- determining whether the investment managers are performing satisfactorily in relation to both the objectives set forth in this Policy, as a primary consideration, and to other investment organizations managing similar pools of capital and the recognized market indices;
- determining whether the investment managers are adhering to the guidelines set forth herein;
- the relative total portfolio return and volatility versus established benchmarks and peers;
- any issue involving the management of the investment assets;
- asset allocation structure in light of evolving markets, strategies, and fund requirements;
- reviewing benchmarks at least annually to determine appropriateness;
- determining whether the investment managers are adhering to their stated philosophy and style; and
- determining whether the overall policies and objectives continue to be appropriate, reasonable, and achievable.

REVIEW OF INVESTMENT RESULTS

On a regular basis, but not less than once annually, the Subcommittee will review actual progress of the funds versus the investment environment. The regular review will include:

- absolute market and total portfolio returns;
- relative total portfolio return and volatility versus established benchmarks and peers;

- asset allocation structure in light of evolving markets, strategies, and fund requirements;
- adherence to guidelines;
- individual manager performance versus established benchmarks and peers;
- the continuing appropriateness of this Policy; and
- any issue involving the management of the funds' assets.

The performance of each individual investment manager will be reviewed on a quarterly basis with appropriate benchmarks as agreed upon from time to time by the Investment Subcommittee.

Total Fund, Pool level, and asset class returns will be measured as follows:

Total Fund: Weighted average benchmark based on the asset allocation targets identified with these guidelines using the below referenced market indices.

Pool level: Weighted average benchmark based on the asset allocation targets identified with these guidelines using the below referenced market indices.

<u> </u>	
Operating / Short Term Pool	
Cash	90-Day U.S. T-Bill
Short Term Fixed Income	Bloomberg 1-3 Year Government Index / Bloomberg 1-5 Year Government Index
Long Term / Reserves Pool	
Domestic Equity	Russell 3000 Index
International Equity	MSCI EAFE Index, MSCI ACWI ex US Index
Global Equity	MSCI ACWI Index
Intermediate Fixed Income	Bloomberg Aggregate Index, Bloomberg Intermediate
	Govt./Credit Index
Short Term Fixed Income	ICE BofA 1-3 Year US Corp & Govt Index, Bloomberg 1-5
	Year US Corp & Govt Index
Alternative Investments	CPI+3%, HFRI Fund-of-Funds Index, HFRI Equity Hedge
	Index, Other Applicable Alternative Benchmarks, FTSE
	NAREIT Developed Index
Cash	90-Day U.S. T-Bill

Asset Class

Benchmark

YOUNGSTOWN STATE UNIVERSITY Asset Allocation and Other Investment Guidelines Investment of Non-Endowment University Funds

ASSET ALLOCATION GUIDELINES

The Assets of the University are to be allocated between short-term assets and long-term assets. The Asset Allocation section of the Policy is specifically intended to address short-term assets and long-term assets as two distinct asset pools of the University's balance sheet assets.

The objectives that the University has established in conjunction with a comprehensive review of the current and projected financial requirements are as follows:

- 1. The strict adherence to the Ohio Revised Code and the authority granted under Ohio Revised Code §3345.05. Specifically:
 - a. <u>ORC 3345.05 (C)(1)</u>: A minimum of 25% of the average amount of the University's investment portfolio over the course of the previous fiscal year must be invested in securities of the United States government or of its agencies or instrumentalities, the treasurer of state's pooled investment program, obligations of this state or any political subdivision of this state, certificates of deposit of any national bank located in this state, written repurchase agreements with any eligible Ohio financial institution that is a member of the federal reserve system or federal home loan bank, money market funds, or bankers acceptances maturing in two hundred seventy days or less which are eligible for purchase by the federal reserve system, as a reserve.
 - b. <u>ORC 3345.05 (C)(2)</u>: Eligible funds above those that meet the conditions described in ORC 3345.05 (C)(1) may be pooled with other institutional funds and invested in accordance with section 1715.52 of the Revised Code.

The Operating and Short-Term Pool will be comprised of cash and short-term assets required for working capital, liquidity purposes, and other short-term needs. It is understood that assets classified as short-term are to be maintained primarily in cash and cash equivalents, and may also invest partially in short term fixed income (guidelines defined within), in order to meet the daily liquidity needs of the University. The asset allocation guidelines of the Operating and Short-Term Pool are outlined in the table below.

The Long-Term / Reserves Pool are investments with a time horizon in excess of one year. It is assumed that financial needs of the University ranging from one to five years will be maintained in fixed income investments. It is further assumed that any equity or alternative investments will have a time horizon greater than five years. As shown in the table below, short-term and intermediate-term fixed income, alternative investments, and equity are classified as long-term assets.

Operating & Short Term Pool		Allocation	
Asset Class/Investment Strategy	Pool Target	Pool Range	Total Range
Total Cash/Operating Assets	n/a	60-100%	
Total Short-Term Fixed Income	n.a	0-40%	
	and the second second		0-50% 25-50%
Long Term/Reserves Pool			
Total Domestic Equity	27%	20-35%	
Total International Equity	8%	0-15%	
Total Equity	35%	25-45%	
Total Alternatives	15%	0-20%	
Total Short-Term Fixed Income	30%	25-45%	
Total Intermediate-Term Fixed Income	20%	10-30%	
Cash	0%	0-5%	China Changel
	100%	THE REAL PROPERTY	50-100%50-75%

Based on the investment objectives and risk tolerances stated in these guidelines, the following asset allocation strategy is considered appropriate for the University's investment Assets:

According to the University's Policy, the operating and short term funds of the nonendowment funds are allocated to the Operating and Short-Term Pool of the asset allocation guidelines. Adequate balance of 60 to 100% of the pool will be invested in cash and cash equivalents in order to provide the University with liquidity to meet its operational needs. The Pool may also invest 0-40% in 1-3 year average maturity U.S. Government fixed income investments. The Operating and Short Term Pool should represent <u>0-50%no</u> less than 25% of the total market value of the Investments. Although the actual percentage will fluctuate with market conditions, levels in excess of 50% or below 25%-will result in rebalancing the Investments to target levels. The Subcommittee will review the pool level allocations on a quarterly basis.

According to the University's Policy, funds with a longer time horizon are allocated to the Long-Term / Reserves Pool. This Pool will be comprised of short-term fixed income, intermediate-term fixed income, alternative investments, and equity.

Short-term fixed income should normally represent 30% of the total market value of the Pool. Although the actual percentage will fluctuate with market conditions, short-term fixed income levels in excess of 45% or below 25% will result in rebalancing the short-term fixed income component of the pool to its target level. The Subcommittee will review the short-term fixed income allocation on a quarterly basis.

Intermediate-term fixed income should normally represent 20% of the total market value of the pool. Although the actual percentage will fluctuate with market conditions, short-term fixed income levels in excess of 30% or below 10% will result in rebalancing the intermediate-term fixed income component of the pool to its fixed income target level. The Subcommittee will review the intermediate-term fixed income allocation on a quarterly basis. Up to 10% of the fixed income investments in the Long Term Pool may be made in below investment grade debt (high yield).

The equity component should normally represent 35% of the total market value of the longterm pool. Although the actual percentage of equities will vary with market conditions, equity levels in excess of 45% or below 25% will result in rebalancing the equity component of the fund to its equity target level. The Subcommittee will review the equity allocation on a quarterly basis.

The alternative investments component should normally represent 15% of the total market value of the long-term pool. Although the actual percentage will vary with market conditions, levels in excess of 20% will result in rebalancing the alternatives component of the fund to its target level. The Subcommittee will review the alternative allocation on a quarterly basis.

Depending upon market conditions, the percentage allocation to each asset class may fluctuate within the above policy ranges. Such strategic allocations should be reviewed and approved by the Investment Subcommittee on an ongoing basis. In the event that the allocation to a certain investment Pool and asset class falls above or below the above established ranges, the Consultant should make a recommendation to the Investment Subcommittee to rebalance the portfolio.

Investment objectives and guidelines will be established for each separate account investment manager. Mutual funds are not subject to the Guidelines set forth below. As it relates to the selection and retention decisions regarding mutual funds, the stated Guidelines should be used as references.

CASH AND CASH EQUIVALENTS GUIDELINES

Such investments should be prudently diversified and would include:

- any instrument issued by, guaranteed by, or insured by the U.S. Government, agencies, or other full faith instruments;
- commercial paper issued by domestic corporations which is rated both "P-1" and "A-1" by Moody's and Standard & Poor's, respectively;
- certificates of deposit, bankers acceptances, or other such irrevocable primary obligations from a list of approved banks provided by the managers; and
- commingled, short-term cash reserve funds managed generally in accordance with the principles set forth above.

FIXED INCOME GUIDELINES

The objective of the fixed-income portion of the Assets shall be both to provide a secure, above-average stream of income (i.e., income in excess of U.S. Treasury Bill rates) and to provide a relatively stable market value base. The following directions are intended to apply to all fixed-income investment managers:

- Within the Operating and Short Term Pool, non-cash investments are limited to U.S. government only fixed income securities with a 1 to 3 year average maturity and duration +/- 20% of the stated benchmark.
- Fixed-income investments may include U.S. and Non-U.S. issues of Government and Agency obligations, marketable corporate bonds, mortgage or asset-backed bonds, and preferred stocks with sinking funds as deemed prudent by the investment managers.
- Fixed income investments are to be prudently diversified by security type, with an emphasis toward avoiding concentrated positions in any one fixed income sector or security type.
- Fixed-income portfolio maturity, as measured by portfolio duration, should be in the range of 80% to 120% of the applicable benchmark.
- Below investment grade fixed income investments are permissible up to 10% of the total fixed income allocation; however, the total portfolio will seek an average weighted credit quality of "AA" or better by Standard & Poor's
- No more than 5% of the fixed income investments, at market, shall be invested in securities of any one issuer, except Government and Agency obligations, without the Subcommittee's prior approval.
- Cash equivalent investments (maturities less than one year) are permitted, up to 10% of the total market value of the account, when the managers' investment policies discourage longer-term commitments. However, the Subcommittee must be consulted in the event that the manager chooses to increase its cash equivalent position beyond 10% of the assets under its supervision.
- Investment assets allocated to fixed income investment management firms and institutions shall be properly diversified so as to avoid over concentration with any one investment manager or institution.

EQUITY GUIDELINES
The objective of the equity portion of the Assets shall be to provide for potential growth of principal with a long term time horizon. The use of both passively managed equity index strategies and actively managed <u>mutual funds</u>, <u>collective trusts</u>, <u>separate accounts</u>, and <u>comingled</u> funds <u>are is permitted</u>. The following acceptable sub asset classes will serve as a guideline for equity investments:

- A. <u>Large Cap Domestic</u> common stocks or equivalents listed on an established stock market (e.g., NYSE, AMEX, NASDAQ) and readily marketable with market capitalization generally exceeding \$5 billion. Non-marketable securities may not be purchased or held without prior approval from the Subcommittee. As used herein, "generally exceeding \$5 billion" means that greater than 67% of the value of the portfolio is invested in securities when the market capitalization of which exceeds \$5 billion.
- B. <u>Small/Mid Cap Domestic</u> common stocks or equivalents listed on an established stock market (e.g., NYSE, AMEX, NASDAQ) and readily marketable with market capitalization generally exceeding \$500 million. Non-marketable securities may not be purchased or held without prior approval from the Subcommittee. As used herein, "generally exceeding \$500 million" means that greater than 67% of the value of the portfolio is invested in securities when the market capitalization of which exceeds \$500 million.
- C. International common stocks or equivalents listed on an established stock market (e.g., NYSE, AMEX, NASDAQ, FTSE, NIKKEI, DAX) and readily marketable with market capitalization generally exceeding \$1 billion. Nonmarketable securities may not be purchased or held without prior approval from the Subcommittee. As used herein, "generally exceeding \$1 billion" means that greater than 50% of the value of the portfolio is invested in securities when the market capitalization of which exceeds \$1 billion.

Equity Diversification

Each investment manager should diversify the portfolio in an attempt to minimize the impact of substantial losses in any specific industry or issue. Therefore, each equity account:

- May not invest more than approximately 5% of the account valued at cost in a given issuer, unless its prospective benchmark / index has greater than a 5% allocation to a specific issuer: In this case, the manager must not exceed an allocation 5% of the account higher than the index weighting
- May not invest more than approximately 10% of the account valued at market in a given issuer
- <u>Large Cap, Mid Cap and Small Cap Domestic</u> Shall be broadly diversified by industry or sector groups and not represent over concentration relative to the mandate's relevant benchmark. Additionally, domestic equity managers shall limit international-domiciled securities to 10% of their portfolio value, absent Subcommittee approval.

- International Shall be broadly diversified by country, industry or sector groups and not represent over concentration relative to the mandate's relevant benchmark; and limit emerging market exposure to 25% of total international exposure.
- <u>Global Shall be diversified between domestic and international equities and</u> <u>follow an investment strategy consistent with its mandate's benchmark that it</u> <u>is seeking to outperform; global equity managers may invest in both</u> <u>developed and developing markets and must ensure ample diversification</u> <u>across industry and sector groups.</u>

ALTERNATIVE INVESTMENT GUIDELINES

Alternative investments are investments that are not included in the traditional assets of cash, equities, and fixed income. Alternative investments include categories such as hedge funds, private equity, <u>private debt</u>, real estate, commodities, tactical asset allocation strategies, etc.

The objective of the alternative investments shall be to promote diversification and provide risk-limiting characteristics with the goal of long-term return potential and lower overall portfolio volatility.

With the assistance of its investment consultant, it is the responsibility of the Subcommittee to conduct acceptable levels of due diligence on any investment categorized as an alternative investment. The due diligence process will include obtaining proper education on the risks and rewards of the alternative asset class, as well as the underlying risks and characteristics of the alternative investment vehicle. This due diligence process must be properly documented and retained.

Investments in private strategies, hedge funds and fund-of-funds, real estate, real assets, and commodities, tactical asset allocation, equity long/shorts, and absolute return among other types of alternative strategies, are permissible to the extent that they are established within the asset allocation guidelines. Alternative and are investments may be accessed through mutual funds, comingled funds, and partnerships, among other types of institutional investment vehicles that offer proper diversification and prudent risk levels as part of the underlying investment strategy of a well-diversified, highly liquid mutual fund, whose shares are publicly traded on major U.S. exchanges.

Other alternative investment asset classes including but not limited to individual hedge funds and private strategies, such as private equity, venture capital and levered buyouts, are not permitted at this time.

PROHIBITED INVESTMENTS

The following categories of securities and strategies are not considered appropriate at the present time:

- Private Placements
- Unregistered or Restricted Stock
- Margin Trading/Short Sales
- Commodities, Commodity Contracts, Precious Metals, or Gems (excluding liquid mutual funds)
- Real Estate Property (excluding REITs and other comingled Real Estate strategies)
- Guaranteed Insurance Contacts
- Securities Lending; pledging or hypothecating securities

VOTING OF PROXIES AND TRADE EXECUTION

The investment manager shall vote proxies for separately managed accounts on behalf of the University. The Investment Subcommittee will vote all mutual fund proxies.

The Subcommittee expects the purchase and sale of its securities to be made in a manner designed to receive the combination of best price and execution.

<u>RESPONSIBILITIES OF THE INVESTMENT MANAGERS FOR SEPARATELY</u> <u>MANAGED ACCOUNTS</u>

The guidelines below are applicable to all investment managers that manage money for the University on a separate account basis. However, any mutual or commingled fund retained by the University will not be expected to adhere to these responsibilities.

Adherence to Policy Guidelines

The Assets are to be managed in accordance with the Policy guidelines herein or expressed by separate written instructions when deviation is deemed prudent and desirable. Written instructions amending this Policy document must be authorized by the Subcommittee and will be communicated through the University's Vice President for Finance and Administration or the investment consultant.

Discretionary Authority

The investment managers are expected to exercise complete investment discretion within the boundaries of the restrictions outlined in these guidelines. Such discretion includes decisions to buy, hold, or sell equity or fixed-income securities (including cash equivalents) in amounts and proportions reflective of each manager's current investment strategy.

Communication

The Subcommittee encourages, and the investment managers are responsible for, frequent and open communication with the Subcommittee and the investment consultant on all significant matters pertaining to the investment of the Assets. These communications would generally be addressed to the University's Vice President for Finance and Administration or investment consultant. In this manner, the Subcommittee expects to be advised of any major changes in investment outlook, investment strategy, asset allocation, portfolio structure, market value of the Assets, and other substantive matters affecting the Assets. The Subcommittee also expects to be informed of any significant changes in ownership, organizational structure, financial condition, and/or senior personnel staffing of the investment management organizations.

All investment managers will be required to meet with the University's Investment Subcommittee at the discretion of the Subcommittee.

The Subcommittee recognizes that the Policy requires periodic re-examination and, perhaps, revision if it is to continue to serve as a working document to encourage effective investment management. Whenever an investment manager believes that the Policy should be altered, it is the responsibility of the manager to initiate written communication with the Subcommittee.

Reporting

The Subcommittee expects each investment manager to forward, on a timely basis, quarterly reports containing portfolio activity, valuations at market, and quarterly strategy updates.

Compliance with Prudency and Diversification Measures

As fiduciaries, the investment managers are expected to diversify the portfolio to minimize the risk of large losses. The managers are expected to invest the Assets with care, skill, prudence, and diligence under the circumstances then prevailing that a prudent person acting in a like capacity and familiar with such matters would use in the conduct of an enterprise of a like character and with such aims. Furthermore, the investment managers are expected to acknowledge in writing their intentions to comply with the Policy as it currently exists or as modified by the Subcommittee from time to time.

RESPONSIBILITIES OF THE INVESTMENT CONSULTANT

The investment consultant is responsible for providing information and analysis to assist the University with the following:

- reviewing asset allocation and investment strategy on an annual basis to determine if the current strategy meets the cash flow needs of the University and is maximizing the long-term total return of the Assets;
- reviewing all separately managed accounts to ensure that each investment manager is adhering to the issued Policy guidelines;
- communicating with all investment management organizations on a quarterly basis to determine portfolio composition and to ascertain information concerning organizational change. (Each portfolio is to be reviewed for style drift through portfolio holdings and returns-based style analysis. Additionally, each portfolio is to be reviewed for prohibited investments on an ongoing basis);
- providing a quarterly performance evaluation report and assessment of the University's Assets;

- monitoring the equity holdings of the total portfolio to determine if any one holding represents a percentage weighting that exceeds 10% of the total portfolio and alerting the Subcommittee when the portfolio violates this Policy;
- reviewing asset allocation on a quarterly basis to determine if the current levels are consistent with the asset allocation guidelines stated in this document;
- monitoring the performance of each investment manager retained by the University to determine if the investment product is out-performing the appropriate benchmark over rolling 3 and 5-year time periods; and

monitoring the performance of the total portfolio to determine if the collective investment strategy is outperforming the appropriate benchmarks over rolling 3 and 5-year time periods.

EVALUATION AND REVIEW

The objective of the evaluation and review process is to monitor the progress of the Assets in achieving the overall investment objectives. Performance will be measured and reviewed periodically by the Subcommittee and their consultants. Particular attention will be directed toward:

- determining whether the total funds are achieving their stated objectives;
- determining whether the investment managers are performing satisfactorily in relation to both the objectives set forth in this Policy, as a primary consideration, and to other investment organizations managing similar pools of capital and the recognized market indices;
- determining whether the investment managers are adhering to the guidelines set forth herein;
- the relative total portfolio return and volatility versus established benchmarks and peers;
- any issue involving the management of the investment assets;
- asset allocation structure in light of evolving markets, strategies, and fund requirements;
- reviewing benchmarks at least annually to determine appropriateness;
- determining whether the investment managers are adhering to their stated philosophy and style; and

• determining whether the overall policies and objectives continue to be appropriate, reasonable, and achievable.

REVIEW OF INVESTMENT RESULTS

On a regular basis, but not less than once annually, the Subcommittee will review actual progress of the funds versus the investment environment. The regular review will include:

- absolute market and total portfolio returns;
- relative total portfolio return and volatility versus established benchmarks and peers;
- asset allocation structure in light of evolving markets, strategies, and fund requirements;
- adherence to guidelines;
- individual manager performance versus established benchmarks and peers;
- the continuing appropriateness of this Policy; and
- any issue involving the management of the funds' assets.

The performance of each individual investment manager will be reviewed on a quarterly basis with appropriate benchmarks as agreed upon from time to time by the Investment Subcommittee.

Total Fund, Pool level, and asset class returns will be measured as follows:

Total Fund: Weighted average benchmark based on the asset allocation targets identified with these guidelines using the below referenced market indices.

Pool level: Weighted average benchmark based on the asset allocation targets identified with these guidelines using the below referenced market indices.

Asset Class	Benchmark
Operating / Short Term Pool	
Cash	91-Day T-Bill
Short Term Fixed Income	Barclay's Capital 1-3 Year Government Index

Long Term / Reserves Pool

Domestic Equity	Russell 3000 Index
International Equity	MSCI EAFE Index
Intermediate Fixed Income	Barclay's Capital Intermediate Govt. / Credit Index
Short Term Fixed Income	Barclay's Capital 1-5 Year Govt. / Credit Index and

Alternative Investments	
Operating / Short Term Pool	
Cash	90-Day U.S. T-Bill
Short Term Fixed Income	Bloomberg 1-3 Year Government Index / Bloomberg 1-5 Year Government Index
Long Term / Reserves Pool	
Domestic Equity	Russell 3000 Index
International Equity	MSCI EAFE Index, MSCI ACWI ex US Index
Global Equity	MSCI ACWI Index
Intermediate Fixed Income	Bloomberg Aggregate Index, Bloomberg Intermediate Govt./Credit Index
Short Term Fixed Income	ICE BofA 1-3 Year US Corp & Govt Index, Bloomberg 1-5 Year US Corp & Govt Index
Alternative Investments	<u>CPI+3%, HFRI Fund-of-Funds Index. HFRI Equity Hedge</u> Index, Other Applicable Alternative Benchmarks, FTSE NAREIT Developed Index
Cash	90-Day U.S. T-Bill