

BOARD OF TRUSTEES
INVESTMENT SUBCOMMITTEE
James B. Greene, Chair
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Carole S. Weimer, Ex-Officio
James P. Tressel, Ex-Officio

Tuesday, June 2, 2015 1:00 p.m.

Tod Hall Board Meeting Room

AGENDA

- A. Disposition of Minutes for Meeting Held February 24, 2015
- B. Old Business
- C. Subcommittee Item
 - 1. Discussion Items
 - a. March 31, 2015 Quarterly Investment Performance Review Mike Shebak and Sarah Parker will report.

Tab 1

- b. Update Regarding PNC Fixed Income Portfolio Management Team Changes Mike Shebak and Sarah Parker will report.
- D. New Business
- E. Adjournment

AGENDA TOPIC: March 31, 2015 Quarterly Investment Performance Review

CONTACT(S): Mike Shebak and Sarah Parker from Hartland

BACKGROUND: Investment review of the YSU Non-Endowment Assets.

SUMMARY AND ANALYSIS:

- I. Market Update
 - o International markets led the way rebounding +5.0% in the quarter (MSCI EAFE Index); S&P 500 +1.0%, Barclays Aggregate +1.6%
- II. Non-Endowment 1Q15 Performance and Asset Allocation Review
 - o Performance
 - Long-Term Pool Market Value = \$53.289 million, Short-Term Pool = \$28.936 million
 - I. Total Non-Endowment Market Value = \$82.225 million
 - Long-Term Pool returned +1.6% in the quarter, Short-Term Pool returned +0.0%
 - I. Total Non-Endowment assets return = +0.9%
 - Asset Allocation
 - Long-Term Pool: 38% stocks/10% alternatives/52% bonds
 - Short-Term Pool: 96% cash/4% bonds
 - In-compliance with Investment Policy
- III. PNC Update
 - o The Long-Term Pool is invested in bond portfolios managed by PNC (\$17.5 million or 21% of total Non-Endowment assets)
 - o PNC has experienced recent team changes (Andrew Harding, CIO, has departed)
 - Recommendation: PNC's Taxable Fixed Income products are on "watch" as Hartland observes and tracks the developments at PNC Capital Advisors

RESOLUTION: N/A - DISCUSSION ITEM ONLY

REVIEWED AS TO FORM AND CONTENT:

James P. Tressel, President



June 2, 2015

YOUNGSTOWN STATE UNIVERSITY

NON-ENDOWMENT & ENDOWMENT ASSETS



CONTENTS

- I. Market Update
- II. Non-Endowment 1Q15 Performance & Asset Allocation Review
- III. PNC Update
- IV. Endowment 1Q15 Performance & Asset Allocation Review



HISTORICAL ASSET CLASS PERFORMANCE

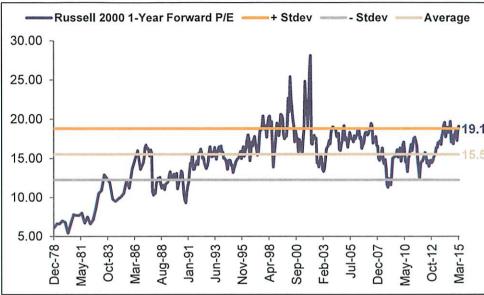
2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	<u>2014</u>	Q1 2015
REITs 30.4%	Em Mkt 34.5%	REITs 34.3%	Em Mkt 39.8%	Glb Bond 9.4%	Em Mkt 79.0%	REITs 27.6%	US Bonds 7.8%	REITs 20.1%	Sm/Mid 36.8%	REITs 27.2%	Sm/Mid 5.2%
Em Mkt	Dev Intl	Em Mkt	Dev Intl	US Bonds	Hi Yld	Sm/Mid	REITs	Em Mkt	Large Cap	Large Cap	Dev Intl
26.0%	14.0%	32.6%	11.6%	5.2%	57.5%	26.7%	7.3%	18.6%	32.4%	13.7%	5.0%
Dev Intl	REITs	Dev Intl	Glb Bond	Cash	Sm/Mid	Em Mkt	Glb Bond	Dev Intl	Dev Intl	Sm/Mid	REITs
20.7%	8.3%	26.9%	10.9%	2.1%	34.4%	19.2%	5.2%	17.9%	23.3%	7.1%	4.1%
Sm/Mid	Sm/Mid	Sm/Mid	Hdg Fnds	Hdg Fnds	Dev Intl	Hi Yld	Hi Yld	Sm/Mid	Hdg Fnds	US Bonds	Hdg Fnds
18.3%	8.1%	16.2%	9.7%	-20.8%	32.5%	15.2%	4.4%	17.9%	9.0%	6.0%	2.6%
Glb Bond	Hdg Fnds	Large Cap	US Bonds	Hi Yld	REITs 27.5%	Large Cap	Large Cap	Large Cap	Hi Yld	Hdg Fnds	Hi Yld
12.1%	7.5%	15.8%	7.0%	-26.4%		15.1%	2.1%	16.0%	7.4%	3.4%	2.6%
Large Cap	Large Cap	Hi Yld	Large Cap	Sm/Mid	Large Cap	Hdg Fnds	Cash	Hi Yld	REITs	Hi Yld	Em Mkt
10.9%	4.9%	11.8%	5.5%	-36.8%	26.5%	10.6%	0.1%	15.6%	3.2%	2.5%	2.3%
Hi Yld	Cash	Hdg Fnds	Cash	Large Cap	Hdg Fnds	Dev Intl	Sm/Mid	Hdg Fnds	Cash	Cash	US Bonds
10.9%	3.1%	10.2%	5.0%	-37.0%	11.5%	8.2%	-2.5%	5.4%	0.1%	0.0%	1.6%
Hdg Fnds	Hi Yld	Glb Bond	Hi Yld	REITs -37.3%	US Bonds	US Bonds	Hdg Fnds	US Bonds	US Bonds	Em Mkt	Large Cap
7.2%	2.7%	7.3%	2.2%		5.9%	6.6%	-4.9%	4.2%	-2.0%	-1.8%	1.0%
US Bonds	US Bonds	Cash	Sm/Mid	Dev Intl	Glb Bond	Glb Bond	Dev Intl	Glb Bond	Em Mkt	Glb Bond	Cash
4.3%	2.4%	4.9%	1.4%	-43.1%	4.4%	6.1%	-11.7%	1.8%	-2.3%	-2.8%	0.0%
Cash	Glb Bond	US Bonds	REITs	Em Mkt	Cash	Cash	Em Mkt	Cash	Glb Bond	Dev Intl	Glb Bond
1.3%	-8.8%	4.3%	-17.8%	-53.2%	0.2%	0.1%	-18.2%	0.1%	-4.9%	-4.5%	-3.7%

Past performance is no guarantee of future results. Asset classes represented by: Large Cap – S&P 500 Index; Sm/Mid – Russell 2500 Index; Dev Intl – MSCI EAFE Index; Em Mkt – MSCI Emerging Markets Index; Hi Yld – Bank of America Merrill Lynch U.S. High Yield Master II; US Bonds – Barclays Capital U.S. Aggregate; Glb Bond – Barclays Capital Global Treasury ex US; REITs – NAREIT ALL REITs; Hdg Fnds – HFRI FOF: Diversified Index; Cash – Merrill Lynch 91-day Tbill . Data as of 3/31/2015 Source: Zephyr Associates.

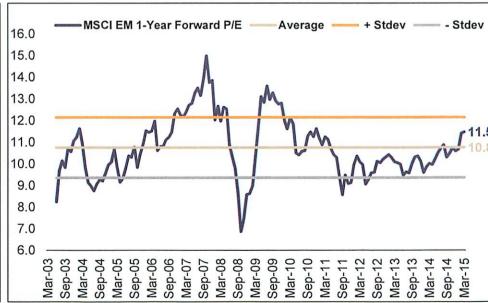


GLOBAL EQUITY VALUATIONS





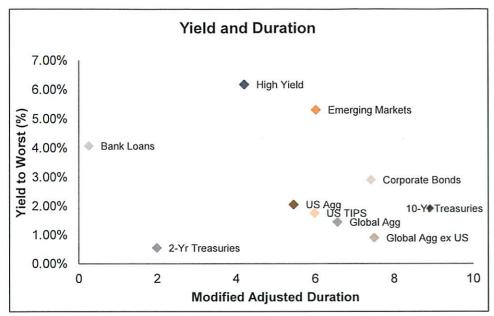


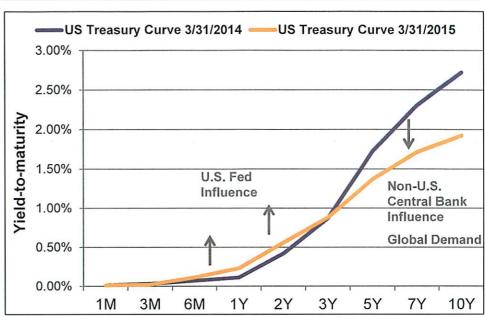


Source: MSCI, Russell, as of 3/31/2015



FIXED INCOME CHARACTERISTICS





One Year Change in Nominal Interest Rates

		nange in Heriiin			
	Down 25 bps	No Change	Up 25 bps	Up 50 bps	Up 100 bps
High Yield Corp.	7.25%	6.20%	5.14%	4.09%	1.99%
Aggregate	3.43%	2.07%	0.70%	-0.66%	-3.38%
Global Aggregate	3.08%	1.44%	-0.20%	-1.84%	-5.12%
EM Aggregate	6.83%	5.32%	3.82%	2.31%	-0.70%
3-YR TSY	1.61%	0.88%	0.16%	-0.57%	-2.02%
10-Yr TSY	4.16%	1.93%	-0.30%	-2.53%	-6.98%

Past performance is no guarantee of future results. High Yield – Barclay's High Yield Corporate Index; Emerging Market – Barclay's Emerging Market Aggregate Index; U.S. Aggregate – Barclay's U.S. Aggregate Index; 3-Yr & 10-Yr TSY represent constant maturity treasuries. Source: Barclays Live and Bloomberg (Treasuries). Data as of 3/31/15.



NON-ENDOWMENT 1Q15 PERFORMANCE & ASSET ALLOCATION REVIEW



EXECUTIVE SUMMARY (AS OF 3/31/15)

Non-Endowment Assets	Market Value	%	1Q2015	1 Yr	2 Yrs	3 Yrs	Since Inception****
Operating &Short-Term Pool	\$28.936 Million	96% cash/ 4% short-term fixed income	0.0%	0.1%	0.1%	0.0%	0.1%
		Benchmark*	0.0%	0.1%	0.1%	0.1%	0.1%
Long-Term Pool	\$53.289 Million	38% equities/ 10% alternatives/ 52% fixed income	1.6%	4.9%	5.9%	5.7%	5.7%
		Benchmark**	1.5%	4.6%	5.0%	5.0%	4.8%
Total Non- Endowment Assets	\$82.225 Million	25% equities/ 7% alternatives/ 34%cash/ 34% fixed income	0.9%	3.2%	3.8%	3.7%	3.9%
		Benchmark***	0.8%	2.6%	2.7%	2.6%	3.2%

1-year net-investment change: \$2.486 million

^{*95%} BofA Merrill Lynch 91-Day T-Bill / 5% Barclays 1-3 Yr. Govt

^{**27%} Russell 3000 / 8% MSCI EAFE Gross / 10% YSU Alternative Benchmark / 35% BofA Merrill Lynch US Corp & Gov 1-3 Yrs / 20% Barclays nt Govt/Credit

^{***45%} BofA Merrill Lynch 91-Day T-Bill / 19% BofA Merrill Lynch US Corp & Gov 1-3 Yrs / 11% Barclays Int Govt/Credit / 6% YSU Alternative Benchmark / 15% Russell 3000 / 4% MSCI EAFE Gross

^{****}Inception date for Long-Term and Short-Term Pools: June 2010, Inception Date for Total Non-Endowment Assets: March 2004



NON-ENDOWMENT ASSETS: POLICY COMPLIANCE

Total Plan Asset Allocation Policy	Range	Current
Operating & Short-Term Pool	25% - 50%	36%
Long Term/ Reserves Pool	50% - 75%	64%

Operating & Short-Term Pool	Range	Current
Operating Assets	60% - 100%	96%
Short-Term Assets	0% - 40%	4%

Long Term/ Reserves Pool **Target** Range Current Domestic Equity 20% - 35% 27% 30% 0% - 15% 9% International Equity 8% **Total Equity** 35% 25% - 45% 38% Alternatives 10% 0%-20% 10% Short-Term Fixed Income 40% 25% - 45% 29% Intermediate Fixed Income 20% 10% - 30% 22% 0% 0% - 5% Cash & Cash Equivalents 0%

Long-Term Pool is overweight equities by 3% (no rebalance recommendation).

New asset allocation effective March 1, 2015.





NON-ENDOWMENT ASSETS: REPORT CARD

			End	ding M	arch 31	, <mark>2015</mark>				Calenda	Years		Inception	
	%	2015 Q1 (%)	YTD (%)	1 Yr (%)	2 Yrs (%)	3 Yrs (%)	5 Yrs (%)	7 Yrs (%)	10 Yrs (%)		2013 (%)	2012 (%)	Return (%)	Since
Total University Assets		0.9	0.9	3.2	3.8	3.7	3.8	3.8	4.2	2.9	5.6	4.1	3.9	Mar-04
YSU Policy Benchmark		0.8	0.8	2.6	2.7	2.6	2.6	2.6	3.4	2.3	3.6	2.8	3.2	Mar-04
Total Operating & Short Term		0.0	0.0	0.1	0.1	0.0		-	_	0.1	0.0	0.0	0.1	Jun-10
YSU Total Operating & Short Term Benchmark		0.0	0.0	0.1	0.1	0.1	0.1	0.3	1.5	0.1	0.1	0.1	0.1	Jun-10
JPMorgan 100% U.S. Tr Sec MM Inst	23%	0.0	0.0	0.0	0.0	0.0	0.0	0.1	1.3	0.0	0.0	0.0	0.0	Sep-11
BofA Merrill Lynch 91-Day T-Bill		0.0	0.0	0.0	0.0	0.1	0.1	0.3	1.5	0.0	0.1	0.1	0.1	Sep-11
JPMorgan Sweep Account Vanguard Short-Term Federal Adm	4.7% 1.3%	0.6	0.6	1.6	0.8	1.0	1.7	2.3	3.3	1.3	-0.2	1.5	1.2	Sep-10
Barclays 1-5 Yr. Govt.		0.9	0.9	1.8	0.9	1.0	1.7	2.2	3.3	1.2	-0.1	1.0	1.2	Sep-10
Star Plus	6.1%	0.0	0.0	0.2	-	-	-	-		-		_	0.2	Jan-14
Total Long Term/ Reserves Pool		1.6	1.6	4.9	5.9	5.7		_	_	4.5	8.7	6.4	5.7	Jun-10
YSU Total Long Term/ Reserves Fund Benchmark		1.5	1.5	4.6	5.0	5.0	4.9	4.4	4.8	4.0	7.1	5.5	4.8	Jun-10
Total Domestic Equity		2.3	23	12.1	17.7	16.5	-	96		11.6	35.2	15.3	18.5	Jun-10
Russell 3000		1.8	1.8	12.4	17.4	16.4	14.7	9.4	8.4	12.6	33.6	16.4	18.5	Jun-10
TRP InstI US Structured Rsch	6.3%	1.3	1.3	12.5	17.1	15.7	14.0	9.1	_	12.4	32.9	16.2	17.9	Jun-10
S&P 500		1.0	1.0	12.7	17.2	16.1	14.5	8.9	8.0	13.7	32.4	16.0	18.3	Jun-10
Vanguard 500 Index Adm	6.3%	0.9	0.9	12.7	17.2	16.1	14.4	8.9	8.0	13.6	32.3	16.0	18.2	Jun-10
S&P 500		1.0	1.0	12.7	17.2	16.1	14.5	8.9	8.0	13.7	32.4	16.0	18.3	Jun-10
Vanguard Mid Cap Index Adm	3.3%	4.3	4.3	14.9	19.2	17.9	16.1	11.1	10.0	13.8	35.1	16.0	17.6	Sep-10
Vanguard Mid Cap Index Benchmark		4.3	4.3	15.0	19.3	18.0	16.2	11.2	10.0	13.8	35.3	16.0	17.6	Sep-10
Loomis Sayles Sm Growth Instl	1.6%	6.3	6.3	5.7	18.0	16.2	17.5	12.2	11.8	1.1	47.7	10.3	18.3	Sep-10
Russell 2000 Growth		6.6	6.6	12.1	19.4	17.7	16.6	11.9	10.0	5.6	43.3	14.6	18.0	Sep-10



NON-ENDOWMENT ASSETS: REPORT CARD

			End	ding M	arch 31	, 2015			(Calenda	Years		Incep	otion
	%	2015 Q1 (%)	YTD (%)	1 Yr (%)	2 Yrs (%)	3 Yrs (%)	5 Yrs (%)	7 Yrs (%)	10 Yrs (%)	2014 (%)	2013 (%)	2012 (%)	Return (%)	Since
Victory Integrity Sm-Cap Value Y	1.5%	3.9	3.9	9.6	17.7	17.9	15.2	12.9	_	7.3	41.0	14.0	17.3	Sep-10
Russell 2000 Value		2.0	2.0	4.4	13.2	14.8	12.5	8.9	7.5	4.2	34.5	18.1	14.5	Sep-10
Total International Equity		4.9	4.9	2.4	10.9	10.9	-	-	_	-1.4	23.4	20.1	6.6	Sep-10
MSCI EAFE Gross		5.0	5.0	-0.5	8.4	9.5	6.6	2.0	5.4	-4.5	23.3	17.9	7.3	Sep-10
MSCI ACWI ex USA Gross		3.6	3.6	-0.6	5.9	6.9	5.3	1.7	5.9	-3.4	15.8	17.4	5.3	Sep-10
William Blair Int'l Gr I	2.8%	5.7	5.7	3.4	8.3	9.8	8.6	2.5	6.7	-2.9	19.0	24.0	13.1	Jun-12
MSCI EAFE Gross		5.0	5.0	-0.5	8.4	9.5	6.6	2.0	5.4	-4.5	23.3	17.9	13.3	Jun-12
MSCI ACWI ex USA Gross		3.6	3.6	-0.6	5.9	6.9	5.3	1.7	5.9	-3.4	15.8	17.4	10.6	Jun-12
Dodge & Cox Internat'l Stock	2.9%	4.2	4.2	1.5	12.7	12.2	8.0	4.3	7.0	0.1	26.3	21.0	8.5	Sep-10
MSCI EAFE Gross		5.0	5.0	-0.5	8.4	9.5	6.6	2.0	5.4	-4.5	23.3	17.9	7.3	Sep-10
Total Alternatives		-		-	_	-	-	-	_	_	-	_	-1.2	Mar-15
Wells Fargo Adv Aboslute Return	2.4%	1.3	1.3	1.1	4.3	5.1	-	-	_	0.9	10.2		-2.5	Mar-15
CPI +3%		0.1	0.1	3.0	3.6	4.1	4.7	4.5	5.1	4.4	4.3	4.8	0.7	Mar-15
Diamond Hill Long-Short I	2.4%	-0.2	-0.2	5.5	10.3	10.3	8.5	4.4	6.5	7.5	23.2	8.8	-0.8	Mar-15
HFRI Equity Hedge (Total) Index	2.170	2.1	21	2.8	6.4	6.1	4.7	3.3	4.8	1.8	14.3	7.4	0.3	Mar-15
Voya Global Real Estate I	1.8%	3.9	3.9	14.9	8.4	11.3	10.6	4.7	_	14.0	3.9	25.6	-0.2	Mar-15
FTSE NAREIT Developed		4.0	4.0	15.2	8.1	12.0	11.3	4.2	7.2	15.0	3.7	27.7	-0.3	Mar-15
Total Fixed Income		1.0	1.0	2.3	1.4	1.8		-	_	2.1	-0.1	3.2	2.4	Jun-10
YSU Fixed Income Benchmark		0.9	0.9	2.1	1.2	1.5	2.2	2.7	3.5	1.7	0.1	2.4	2.0	Jun-10
JPMorgan Core Bond Ultra	6.3%	1.7	1.7	5.3	2.6	3.2	4.7	5.3	5.4	5.4	-1.6	5.2	4.1	Apr-11
Barclays Aggregate		1.6	1.6	5.7	2.8	3.1	4.4	4.7	4.9	6.0	-2.0	4.2	4.0	Apr-11

New investments; funded March 2015.



NON-ENDOWMENT REPORT CARD

			End	ding M	arch 31	I, <mark>2015</mark>			C	alenda	r Years		Incep	tion
	%	2015 Q1 (%)	YTD (%)	1 Yr (%)	2 Yrs (%)	3 Yrs (%)	5 Yrs (%)	7 Yrs (%)	10 Yrs (%)	2014 (%)	2013 (%)	2012 (%)	Return (%)	Since
YSU Intermediate Term Bond	6.2%	1.2	1.2	3.0	1.7	2.4	3.6	4.3	4.7	3.0	-0.5	5.2	4.3	Mar-04
Barclays Int Govt/Credit		1.4	1.4	3.6	1.7	2.3	3.5	3.8	4.3	3.1	-0.9	3.9	3.9	Mar-04
YSU Short Term Bond	15%	0.5	0.5	0.9	0.8	1.0	1.4	2.2	3.1	0.7	0.6	1.8	2.9	Mar-04
BofA Merrill Lynch US Corp & Gov 1-3 Yrs		0.6	0.6	1.1	0.9	1.0	1.4	2.0	2.9	0.8	0.7	1.5	2.7	Mar-04
Vanguard Short-Term Bond Instl	3.9%	1.0	1.0	1.9	1.1	1.4	<u> </u>		- I	1.3	0.2	2.1	1.4	Dec-11
Barclays 1-5 Yr. Govt/Credit		1.0	1.0	2.0	1.2	1.5	2.2	2.7	3.5	1.4	0.3	2.2	1.5	Dec-11
DFA Five-Yr Global Fxd-Inc I	1.9%	1.4	1.4	3.5	1.7	2.4	3.3	3.6	3.8	2.9	-0.4	4.8	2.9	Jun-13
Citi WGBI 1-5 Yr Hdg USD		0.6	0.6	2.0	1.4	1.6	1.8	2.3	3.1	1.9	0.6	2.1	1.8	Jun-13

- YSU Policy Benchmark = 45% BofA Merrill Lynch 91-Day T-Bill / 19% BofA Merrill Lynch US Corp & Gov 1-3 Yrs / 11% Barclays Int Govt/Credit / 6% YSU Alternative Benchmark / 15% Russell 3000 / 4% MSCI EAFE Gross
- YSU Total Operating & Short Term Benchmark = 95% BofA Merrill Lynch 91-Day T-Bill / 5% Barclays 1-3 Yr. Govt.
- YSU Total Long Term/ Reserves Fund Benchmark = 27% Russell 3000 / 8% MSCI EAFE Gross / 10% YSU Alternative Benchmark / 35% BofA Merrill Lynch US Corp & Gov 1-3 Yrs / 20% Barclays Int Govt/Credit
- Vanguard Mid Cap Index Benchmark = 100% CRSP US Mid Cap TR USD
- CPI +3% = Consumer Price Index Shifted
- YSU Fixed Income Benchmark = 64% BofA Merrill Lynch US Corp & Gov 1-3 Yrs / 36% Barclays Int Govt/Credit
 - \$17.5 million (21%) of Total Non-Endowment Assets are managed by PNC
 - Managed since 2004
 - Separate Account Structure



PNC UPDATE



PNC ORGANIZATIONAL ANNOUNCEMENT

Andrew Harding, Chief Investment Officer – Taxable Fixed Income, announced on February 17, 2015, his decision to leave PNC Capital Advisors, LLC, to pursue other opportunities. He led the team for PNC Capital Advisors, LLC, and its predecessor firms since 2000.

Sean Rhoderick, CFA, a current member of the Taxable Fixed Income Leadership team, will assume responsibilities for the team and will direct investment management as Chief Investment Officer for Taxable Fixed Income. Mr. Rhoderick has 20 years of investment experience in credit research and portfolio management. He has been the lead portfolio manager on the Intermediate Duration strategies for the past five years and has been a member of the Taxable Fixed Income Leadership team for the past three years. Prior to joining the firm in 2004, Sean held previous credit research positions with Freddie Mac and LACE Financial Corporation. He holds the Chartered Financial Analyst designation and currently serves on the Board of Directors for the Baltimore CFA Society.

PNC's Taxable Fixed Income team has 19 members who average 15+ years of industry experience. 16 of the 19 members have been with PNC and its predecessor firms since 2006. 13 members hold the Chartered Financial Analyst designation.



HARTLAND'S ASSESSMENT

Parent

PNC Capital Advisors is a subsidiary of PNC Financial Services Group, Inc., a publicly traded company – No change

People

- · The Taxable Fixed Income team lost its CIO and key thought leader on economic analysis
- Andy Harding's replacement, Sean Rhoderick, has managed the Intermediate Bond fund for several years
- No additional team members have left PNC

Process

Top down, macroeconomic focused (yield curve, sector rotation, etc.) – No change

Portfolios

- The Intermediate Bond fund invests in US government and investment grade corporate bonds No change
- The Limited Maturity Bond fund invests in a variety of government, corporate and mortgage related bonds, all of which are investment grade – No change

Performance

 Performance of the Intermediate Bond and Limited Maturity Bond funds has been below benchmark over most periods

Recommendation

- PNC's Taxable Fixed Income products are on "watch" as we observe and track the developments at PNC Capital Advisors
- Hartland will be tracking any additional changes to the investment team and will monitor PNC's investment process and assets under management



PNC PERFORMANCE: INTERMEDIATE-TERM BOND

April 2004 - March 2015: Summa	ary Statistics											
	Return			ulative turn		Standard Deviation			harpe Ratio		Maximu Drawdov	
YSU Intermediate	4.30%		58.	98%		2.87%			1.01		-4.38%	
Morningstar Intermediate-Term Bond	4.08%		55.29%			3.59%			0.74		-9.87%	
Barclays U.S. Government/Credit			62.	93%		4.01%			0.78		-5.56%	
Manager vs Benchmark: Re April 2004 - March 2015 (36-Mon		indows,	Computed	d Monthly)					1		
				Ī		Mar 2011	Nov 2011	Jul 2012	Mar 2013	Nov 2013	Jul 2014	Mar 201
	th Moving W			Ī		Mar 2011 5.83%	Nov 2011 7.56%	Jul 2012 5.74%	Mar 2013 4.89%	Nov 2013 2.82%	Jul 2014 2.61%	Mar 201
April 2004 - March 2015 (36-Mon	th Moving W Nov 2007	Jul 2008	Mar 2009	Nov 2009	Jul 2010							



PNC PERFORMANCE: SHORT-TERM BOND

Custom Table April 2004 - March 2015: Sumi	mary Statistics												
	Return			ulative turn		Standard Deviation			harpe Ratio		Maximu Drawdo		
YSU Short Term	2.87%	2.87%		46%		1.25%			1.15		-0.98%		
Morningstar Short-Term Bond	2.32%		28.	68%		1.80%			0.50		-6.909	%	
Barclays 1-3 Yr Govt/Credit	2.65%		33.35%			1.31%		0.93		-1.17%		%	
Manager vs Benchmark: I April 2004 - March 2015 (36-M		/indows,	Computed	d Monthly)								
	Nov 2007	Jul 2008	Mar 2009	Nov 2009	Jul 2010	Mar 2011	Nov 2011	Jul 2012	Mar 2013	Nov 2013	Jul 2014	Mar 2015	
		4	1										
YSU Short Term	4.26%	4.80%	5.21%	5.64%	5.32%	3.64%	3.98%	2.49%	1.85%	1.31%	1.03%	0.97%	
YSU Short Term Morningstar Short-Term Bond	3.33%	4.80% 2.67%	5.21%	5.64% 2.81%	5.32% 3.05%	3.64% 2.85%	3.98% 5.11%	2.49%	1.85% 2.68%	1.31%	1.03%	0.97%	



ENDOWMENT 1Q15 PERFORMANCE & ASSET ALLOCATION REVIEW



STRUCTURE REVIEW

Fund	Custodian	Advisor	Manager	Purpose	Investment Objective	Results
Non-Endowment Assets						
Operating & Short- Term Pool	PNC	Hartland	Various (Mutual Funds/ Separate Accounts)	Support the University's working capital, liquidity purposes, and other short-term needs	ORC Compliance; meet short-term needs	Cash & Short-Term Fixed Income
Long-Term Pool	PNC	Hartland	Various (Mutual Funds/ Separate Accounts)	Buffer to University's near-term financial needs	ORC Compliance; modest capital appreciation	Fixed Income and Equities
Endowment Assets						
YSU Endowment	Huntington	Hartland	Huntington	General scholarships	Long-term capital appreciation	Primarily Equities
Kilcawley Center	Farmers	Hartland	Farmers	Support the costs of the student union center renovation	Long-term capital appreciation	Primarily Equities
Alumni License Plate	Farmers	Hartland	Farmers	General scholarships	Long-term capital appreciation	Primarily Equities

Hartland assumed an advisory relationship with the Endowed Funds on November 1, 2013, when assets were transferred from the Foundation to YSU.



EXECUTIVE SUMMARY (AS OF 3/31/15)

Endowment Assets	Market Value	Asset Allocation	Composition	1Q2015	1-Yr
YSU Endowment	\$9.075 million	73% Equities/ 27% Fixed Income	Stocks, Bonds, Mutual Funds	-0.4%	8.0%
60 S&P 500 Inde	x/40% Barclays Index			1.3%	10.0%
Kilcawley Center	\$93,253	88% Equities/ 12% Cash	Stocks	-3.2%	2.5%
60 S&P 500 Inde	x/40% Barclays Index			1.3%	10.0%
Alumni License Plate	\$427,831	70% Equities/ 12% Fixed Income/19% Cash	Stocks, Mutual Funds	2.3%	6.2%
60 S&P 500 Inde	x/40% Barclays Index			1.3%	10.0%

Compliance

- Asset Allocation Guidelines: 70% Equities (60-80%)/30% Cash & Fixed Income (20-40%)
 - YSU Endowment (In-Line)
 - Kilcawley Center (Out of Line)
 - Alumni (In-Line)
- Equity and Fixed Income Guidelines
 - YSU Endowment (In-Line)
 - Kilcawley Center (Out of Line)
 - Alumni (In-Line)



DEFINITIONS AND 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. Hartland disclaims any liability for any direct or incidental loss incurred by applying any of the information in this presentation. All investment decisions must be evaluated as to whether it is consistent with their investment objectives risk tolerance and financial situation.

Past performance is no guarantee of future results, Investing involves risk, including risk of loss, Diversification does not ensure a profit or guarantee against loss,

All indices are unmanaged and performance of the indices includes reinvestment of dividends and interest income and, unless otherwise noted. An investment cannot be made in any index.

Although bonds generally present less short-term risk and volatility than stocks, bonds do contain interest rate risk (as interest rates rise, bond prices usually fall and vice versa) 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 investments entail greater inflation risk, or the risk that the return of an investment will not keep up with increases in the prices of goods and services, than stocks.

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

The municipal market is volatile and can be significantly affected by adverse tax, legislative, or political changes and by the financial condition of the issuers of municipal securities. Interest rate increases can cause the price of a debt security to decrease. A portion of the dividends you receive may be subject to federal, state, or local income tax or may be subject to the federal alternative minimum tax. Generally, tax-exempt municipal securities are not appropriate holdings for tax advantaged accounts such as IRAs and 401(k)s.

Stock markets, especially foreign markets, are volatile and can decline significantly in response to adverse issuer, political, regulatory, market, or economic developments. Foreign securities are subject to interest-rate, currency-exchange-rate, economic, and political risks, all of which are magnified in emerging markets. The securities of smaller, less well-known companies can be more volatile than those of larger companies. Growth stocks can perform differently from the market as a whole and other types of stocks and can be more volatile than other types of stocks. Value stocks can perform differently than other types of stocks and can continue to be undervalued by the market for long periods of time.

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

The Russell 1000 Value Index, Russell 1000 Index and Russell 1000 Growth Index are indices that measure the performance of large-capitalization value stocks, large-capitalization stocks and large-capitalization growth stocks, respectively. The Russell 2000 Value Index, Russell 2000 Index and Russell 2000 Growth Index are indices that measure the performance of small-capitalization value stocks, small-capitalization growth stocks, respectively. The Russell Midcap Value Index, Russell Midcap Index and Russell Midcap Growth Index are indices that measure the performance of mid-capitalization value stocks, mid-capitalization growth stocks, respectively. The Russell 2500 Value Index, Russell 2500 Index and Russell 2500 Index Growth Index measure the performance of small to mid-cap value stocks, small to mid-cap stocks and small to mid-cap growth stocks, respectively, commonly referred to as "smid" cap. The Russell 3000 Value Index, Russell 3000 Index and Russell 3000 Growth Index measure the performance of the 3,000 largest U.S. value stocks, 3,000 largest U.S. stocks and 3,000 largest U.S. growth stocks, respectively, based on total market capitalization.

The Wilshire 5000 Index represents the broadest index for the U.S. equity market, measuring the performance of all U.S. equity securities with readily available price data. The Wilshire Micro Cap Index is a market capitalization-weighted index comprised of all stocks in the Wilshire 5000 Index below the 2.501st rank.

The MSCI EAFE (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 emerging market equity performance. The MSCI World Index is designed to measure global developed market equity performance. The MSCI Europe Index is an excludes the U.S. The MSCI Europe Index is an excludes the U.S. The MSCI Europe Index is an exclude the equity market performance of developed market equity performance. unmanaged index considered representative of developed European countries. The MSCI Japan Index is an unmanaged index considered representative of stocks of Japan. The MSCI Pacific ex. Japan 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 bills with a remaining maturity from 1 up to 3 months,

The Barclays Capital® (BC) U.S. Treasury Index is designed to cover public obligations of the U.S. Treasury with a remaining maturity of one year or more. The BC Aggregate Bond Index is an unmanaged, market value-weighted performance benchmark for investment-grade fixed-rate debt issues, including government, corporate, asset-backed, and mortgage-backed securities with maturities of at least one year. The BC U.S. Credit Bond Index is designed to cover publicly issued U.S. corporate and specified foreign debentures and secured notes that meet the specified maturity, liquidity, and quality requirements; bonds must be SEC-registered to qualify. The BC U.S. Agency Index is designed to cover publicly issued debt of U.S. Government agencies, quasi-federal corporations, and corporate or foreign debt guaranteed by the U.S. Government. The BC CMBS Index is designed to mirror commercial mortgage-backed securities of investment-grade quality (Baa3/BBB-/BBB- or above) using Moody's, S&P, and Fitch respectively, with maturity of at least one year. The BC MBS Index covers agency mortgage-backed pass-through securities (both fixed-rate and hybrid ARMs) issued by Ginnie Mae (FNMA), Fannie Mae (FNMA), and Freddie Mac (FHLMC). The BC U.S. Municipal Bond Index covers the U.S. dollardenominated, long-term tax-exempt bond market with four main sectors; state and local general obligation bonds, revenue bonds, insured bonds, and pre-refunded bonds. The BC TIPS Index is an unmanaged market index made up of U.S. Treasury Inflation Linked Index securities. The BC U.S. Government Bond Index is a market value-weighted index of U.S. Government fixed-rate debt issues with maturities of one year or more. The BC ABS Index is a market value-weighted index that covers fixed-rate asset-backed securities with average lives greater than or equal to one year and that are part of a public deal; the index covers the following collateral types: credit cards, autos, home equity loans, stranded-cost utility (rate-reduction bonds), and manufactured housing. The BC Global Aggregate Index is composed of three sub-indices; the U.S. Aggregate Index, Pan-European Aggregate Index, and the Asian-Pacific Aggregate Index is created to be a broad-based measure of the performance of investment grade fixed rate debt on a global scale. The BC US Corporate Long Aa Index is an unmanaged index representing public obligations of U.S. corporate and specified foreign debentures and secured notes with a remaining maturity of 10 years or more. The BC U.S. Corporate High-Yield Index measures the market of USD-denominated, non-investment grade, fixed-rate, taxable corporate bonds. The BC Intermediate Corporate Index includes dollar-denominated debt from U.S. and non-U.S. industrial, utility, and financial institutions issuers with a duration of 1-10 years, The BC U.S. Treasury Long Index is an unmanaged index representing public obligations of the U.S. Treasury with a remaining maturity of one year or more. The BC U.S. Government 10 Year Treasury Index measures the performance of U.S. Treasury securities that have a remaining maturity of less than 10 years. The BC BAA Comparate Index measures the performance of the taxable Baa rated fixed-rate U.S. dollar-denominated corporate bond market. The BC Global Treasury ex US Index includes government bonds issued by investment-grade countries outside the United States, in local currencies, that have a remaining maturity of one year or more and are rated investment grade or higher. The BC Emerging Market Bond Index is an unmanaged index that total returns for external-currencydenominated debt instruments of the emerging markets. The BC U.S. Securitized Bond Index is a composite of asset-backed securities (ERISA-eligible) and fixed rate mortgage-backed securities. The BC Quality Distribution AAA, B, and CC-D Indices measure the respective credit qualities of U.S. Corporate and specified foreign debentures and secured notes. The BC Universal Index represents the union of the U.S. Aggregate Index, the U.S. High Yield Corporate Index, the 144A Index, the Eurodollar Index, the Emerging Markets Index, and the non-ERISA portion of the CMBS Index. The BC 1-3 Year Government Credit Index is an unmanaged index considered representative of performance of short-term U.S. corporate bonds and U.S. government bonds with maturities from one to three years. The BC Long-term Government Index is an unmanaged index reflecting performance of the long-term government bond market. The BC Intermediate Aggregate Index measures the performance of intermediate-term investment grade bonds. The BC Intermediate 1-3 Year Government/Credit Index measures the performance of U.S. Dollar denominated U.S. Treasuries, government-related and investment grade U.S. corporate securities that have a remaining maturity of greater than one year

The Bank of America ML U.S. High Yield Index tracks the performance of below investment grade US Dollar Denominated corporate bonds publicly issued in the US market. Qualifying bonds have at least one year remaining term to maturity, are fixed coupon schedule and minimum outstanding of \$100 million.



results

DEFINITIONS AND DISCLOSURES

Signal Identification Model (SIM) - The balance between fixed income and equity securities is guided by a proprietary, quantitative modeling technique we call "SIM". SIM is a four factor model that measures short-term under or over-valuation of equity markets. When SIM is negative, for example, the Investment Review Committee (IRC) may recommend that Consultants reduce equity ratios within prescribed ranges in client portfolios; when positive, that Consultants increase equity ratios within prescribed ranges. Other judgments, such as short-term, relative weights between different asset classes often come from fundamental assessments of IRC members. Unemployment – Total labor force seasonally adjusted (U.S. Bureau of Labor Statistics'); ISM - An index based on surveys of more than 300 manufacturing firms by the Institute of Supply Management; Spread – indicates the difference in yield between Moody's AAA corporate bonds; S&P Earnings Yield – earnings per share for the most recent 12-month period divided by the current market price per share of the stocks in the S&P 500.

Hartland Research Portfolio (HPR) - Our Optimal Long-Term Strategic Asset Allocation, called the Hartland Research Portfolio, sets forth our best thinking on the mix of different asset classes; it is the benchmark we use in considering appropriate asset allocation for all client portfolios. The Hartland Research Portfolio is developed with two major inputs. One is quantitative, based on the Black-Litterman model, and one is qualitative, based on the input of the professionals on our Investment Research Committee (IRC). The Hartland & Co. research learn begins with the Black-Litterman model, a mathematical model that seeks asset allocations that are optimal; those that produce the best results with the lowest level of volatility or risk. Black-Litterman is more dynamic than other models and builds on traditional mean-variance techniques to create stable and consistent return forecasts for a set of assets classes. The IRC assess the quantitative output from Black-Litterman and integrate it with their own fundamental or qualitative judgments. The result is the Hartland Research Portfolio, which combines quantitative and qualitative inputs and our capital market projections.

The HFRI Funds of Funds Index (HFRI FOF) is an equal weighted index designed to measure the performance of hedge fund of fund managers. The more than 800 multi-strategy constituents are required to have at least \$50 million in assets under management and a trading track record spanning at least 12 months. The index includes both on and offshore funds and all returns are reported in USD

The NCREIF Property Index (NPI) represents quarterly time series composite total rate of return measure of a very large pool of individual commercial real estate properties acquired in the private market. The index represents apartments, hotels, industrial properties, office buildings and retail properties which are at least 60% occupied and owned or controlled, at least in part by tax-exempt institutional investors or its designated agent. In addition these properties that are included must be investment grade, non-agricultural and income producing and all development projects are excluded. Constituents included in the NPI be valued at least quarterly, either internally or externally, using standard commercial real estate appraisal methodology. Each property must be independently appraised a minimum of once every three years.

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

The Dow Jones U.S. Select Real Estate Securities Index is a float-adjusted market capitalization—weighted index of publicly traded real estate securities such as real estate investment trusts (REITs) and real estate operating companies (REOCs).

The Cambridge PE Index is a representation of returns for over 70% of the total dollars raised by U.S. leveraged buyout, subordinated debt and special situation managers from 1986 to December 2007. Returns are calculated based on the pooled 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 quarterly and annual reports.

The University of Michigan Consumer Sentiment Index is a consumer confidence index published monthly by the University of Michigan and Thomson Reuters. The index is normalized to have a value of 100 in December 1964.

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.

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

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

HFRI Emerging Markets: Asia ex-Japan, Global Index, Latin America Index, Russia/Eastern Europe Index: The constituents of the HFRI Emerging Markets Indices are selected according to their Regional Investment Focus only. There is no Investment Strategy criteria for inclusion in these indices, Funds classified as Emerging Markets have a regional investment focus in one of the following geographic areas: Asia ex-Japan, Russia/Eastern Europe, Latin America, Africa or the Middle East, HFRI EH: Energy/Basic Materials strategies which employ investment processes designed to identify opportunities in securities in sec employ sophisticated quantitative techniques of analyzing price data to ascertain information about future price movement and relationships between securities for purchase and sale. HFRI EH: Quantitative Directional strategies employ sophisticated quantitative techniques of analyzing price data to ascertain information about future price movement and relationships between securities, select securities for purchase and sale, HFRI EH: Short-Biased strategies employ analytical techniques in which the investment thesis is predicated on assessment of the valuation characteristics on the underlying companies with the goal of identifying overvalued companies. HFRI EH: Technology/Healthcare strategies employ investment processes designed to identify opportunities in securities in specific niche areas of the market in which the Manager maintain a level of expertise which exceeds that of a market generalist in identifying opportunities in companies engaged in all development, production and application of technology, biotechnology and as related to production of pharmaceuticals and healthcare industry. HFRI ED: Distressed Restructuring strategies which employ an investment process focused on corporate fixed income instruments, primarily on corporate credit instruments of companies trading at significant discounts to their value at issuance or obliged (par value) at maturity as a result of either formal bankruptcy proceeding or financial market perception of near term proceedings. HFRI ED: Merger Arbitrage strategies which employ an investment process primarily focused on opportunities in equity related instruments of companies which are currently engaged in a corporate transaction. HFRI ED: Private Issue/Regulation D strategies which employ an investment process primarily focused on opportunities in equity and equity related instruments of companies which are primarily private and illiquid in nature. HFRI Macro: Systematic Diversified strategies have investment processes typically as function of mathematical, algorithmic and technical models, with little or no influence of individuals over the portfolio positioning. HFRI RV: Fixed Income - Asset Backed includes strategies in which the investment thesis is predicated on realization of a spread between related instruments in which one or multiple components of the spread is a fixed income instrument backed physical collateral or other financial obligations (loans, credit cards) other than those of a specific corporation, HFRI RV: Fixed Income - Convertible Arbitrage includes strategies in which the investment thesis is predicated on realization of a specific corporation. related instruments in which one or multiple components of the spread is a convertible fixed income instrument. HFRI RV: Fixed Income - Corporate includes strategies in which the investment thesis is predicated on realization of a spread between related instruments in which one or multiple components of the spread is a corporate fixed income instrument. HFRI RV: Multi-Strategies employ an investment thesis is predicated on realization of a spread between related yield instruments in which one or multiple components of the spread contains a fixed income, derivative, equity, real estate, MLP or combination of these or other instruments. HFRI RV: Yield Alternatives Index strategies employ an investment thesis is predicated on realization of a spread between related instruments in which one or multiple components of the spread contains a derivative, equity, real estate, MLP or combination of these or other instruments. Strategies are typically quantitatively driven to measure the existing relationship between instruments and, in some cases, identify attractive positions in which the risk adjusted spread between these instruments represents an attractive opportunity for the investment manager,

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 Credit Suisse Leveraged Loan Index is a market value—weighted index designed to represent the investable universe of the U.S. dollar–denominated leveraged loan market.

The Dow Jones-UBS Commodity Index measures the performance of the commodities market. It consists of exchange-traded futures contracts on physical commodities that are weighted to account for the economic significance and market liquidity of each commodity.