

Board of Trustees



Handout Book

Table of Contents

Investment Committee	
Performance Review	1-27
<u>Management Committee</u>	
LASERS Expected Return Update	28-40



Performance Update

July 28, 2022

1

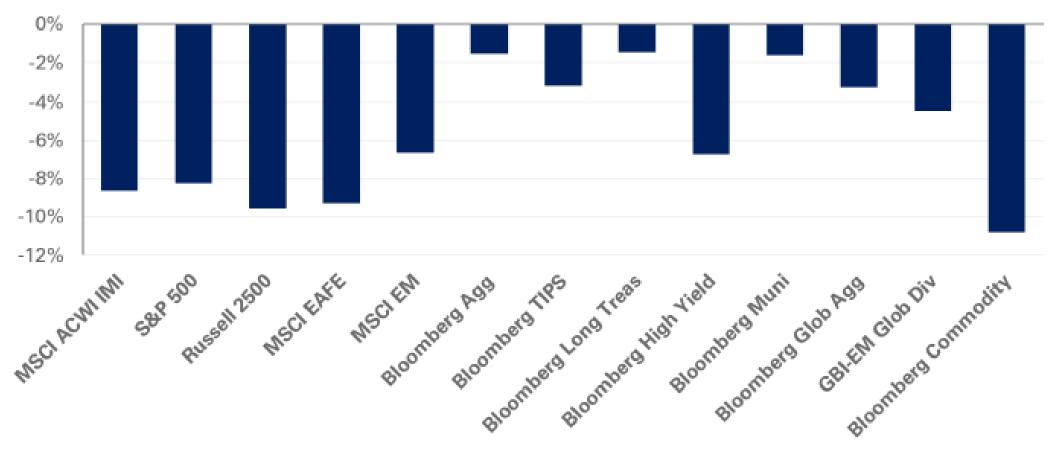
June Market Commentary



- June marked the end of the worst first half of a year since 1972. The month of June was, by far, the worst month of both the calendar year and LASERS fiscal year.
 - All markets posted negative returns.
 - In Equities, Emerging Markets posted the highest (negative) return, down -6.6%, followed by Domestic (the S&P 500 returned -8.3%) and lastly Developed International (the MSCI World Ex-USA returned -9.4%)
 - In Fixed Income, Investment Grade returned -1.6% and High Yield returned -6.6%
- The June CPI release showed 9.1% as the annual increase, yet another 40-year high. The increase was led by gasoline, shelter and food prices. Expectations remain for the Federal Reserve to again raise rates by 75bps, possibly more.
- Covid variant and subvariant concerns (Delta and Omicron), production & shipping delays, the Russia/Ukraine war, China lockdowns, and global inflation concerns have resulted in this being a year of increased volatility.

June Index Returns



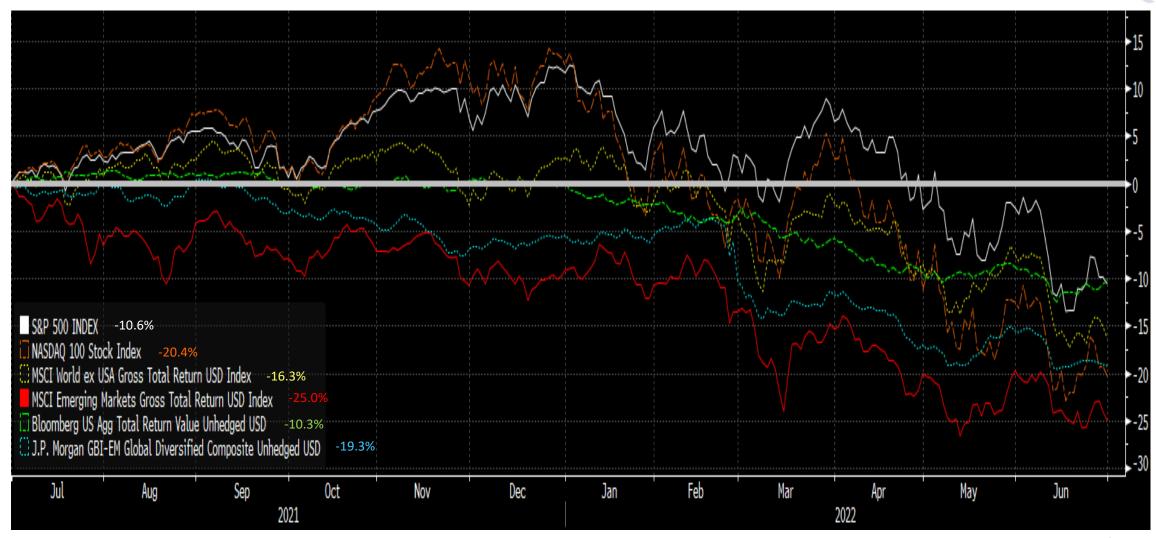


As of 06/30/2022, Source: S&P, Russell, MSCI, JPM, Bloomberg, Factset

Major Indices Performance over Fiscal Year

LASERS FYE Return -6.8% Preliminary





June Performance Summary Preliminary

Equities

LASERS Composite / Index	June	3 mos	6 mos	FYE
U.S. Large Cap Equity	-8.4	-17.5	-22.2	-13.0
S&P 500 Index Nasdaq 100 Index	-8.3 -8.9	-16.1 -22.3	-20.0 -29.2	-10.6 -20.4
U.S. Mid Cap Equity	-9.6	-15.4	-19.6	-14.6
S&P 400 Index	-9.6	-15.4	-19.5	-14.6
U.S. Small Cap Equity	-9.1	-13.8	-18.1	-15.1
S&P 600 Index	-8.5	-14.1	-18.9	-16.8
LASERS U.S. Equity	-8.7	-16.7	-21.2	-13.6
Int'l Large Cap Equity	-9.4	-13.6	-16.9	-15.4
MSCI World Ex-USA	-9.4	-14.4	-18.4	-16.3
Int'l Small Cap Equity	-10.5	-15.7	-22.0	-22.9
MSCI World Ex-USA Small Cap	-11.2	-17.8	-23.6	-22.7
Int'l Emerging Markets Equity	-7.8	-11.8	-15.9	-19.8
MSCI Emerging Markets	-6.6	-11.3	-17.5	-25.0
LASERS Non-U.S. Equity	-9.1	-13.4	-17.7	-18.7



June Performance Summary *Preliminary*

Fixed Income, Alternatives & Total Plan

LASERS Composite / Index	June	3 mos	6 mos	FYE
U.S. Investment Grade	-2.0	-5.3	-10.4	-10.4
BB BC Barclay's Aggregate	-1.6	-4.7	-10.3	-10.3
U.S. High Yield	-7.0	-8.9	-11.5	-9.9
Credit Suisse High Yield	-6.6	-9.7	-13.4	-12.1
LASERS U.S. Fixed Income	-3.7	-6.5	-10.8	-10.1
Emerging Market Debt	-1.7	-3.6	-6.0	-3.4
J.P. Morgan GBI-EM Global Diversified	-4.5	-8.6	-14.5	-19.3
Global Multi-Sector	-1.8	-3.3	-4.6	-1.1
50/50 Barclay's Agg/CS HY	-4.9	-8.9	-13.6	-13.6
Alternatives	-2.6	-2.7	2.9	12.5
LASERS Total Plan	-5.8	-9.9	-11.6	-6.8

Performance: Closer Look at 2nd Quarter

Equities
*Total Plan returns listed for June '22 and FYTD are preliminary.

LASERS Composite / Index	Mar 31 FYTD	April	FYTD	May	FYTD	June	FYE
U.S. Large Cap Equity	5.6	-9.8	-4.8	-0.2	-5.0	-8.4	-13.0
S&P 500 Index Nasdaq 100 Index	6.5 2.5	-8.7 -13.3	-2.8 -11.2	0.2 -1.5	-2.6 -12.6	-8.3 -8.9	-10.6 -20.4
U.S. Mid Cap Equity	0.9	-7.1	-6.2	0.7	-5.5	-9.6	-14.6
S&P 400 Index	0.9	-7.1	-6.3	0.7	<i>-5.6</i>	-9.6	-14.6
U.S. Small Cap Equity	-1.4	-7.3	-8.7	2.2	-6.6	-9.1	-15.1
S&P 600 Index	-3.1	-7.8	-10.7	1.9	-9.0	-8.5	-16.8
LASERS U.S. Equity	3.7	-9.0	-5.6	0.3	-5.3	-8.7	-13.6
Int'l Large Cap Equity	-2.0	-5.9	-7.8	1.3	-6.6	-9.4	-15.4
MSCI World Ex-USA	-2.2	-6.5	-8.5	1.0	-7.6	-9.4	-16.3
Int'l Small Cap Equity	-8.6	-5.4	-13.5	-0.4	-13.9	-10.5	-22.9
MSCI World Ex-USA Small Cap	-6.0	-6.9	-12.4	-0.6	-12.9	-11.2	-22.7
Int'l Emerging Markets Equity	-9.1	-5.5	-14.1	1.3	-13.0	-7.8	-19.8
MSCI Emerging Markets	-15.4	-5.5	-20.1	0.5	-19.7	-6.6	-25.0
LASERS Non-U.S. Equity	-6.1	-5.7	-11.4	0.9	-10.6	-9.1	-18.7

Performance: Closer Look at 2nd Quarter

Fixed Income, Alternatives & Total Plan

*Total Plan returns listed for June '22 and FYTD are preliminary.

LASERS Composite / Index	Mar 31 FYTD	April	FYTD	May	FYTD	June	FYE
U.S. Investment Grade	-5.4	-3.9	-9.1	0.6	-8.5	-2.0	-10.4
BB BC Barclay's Aggregate	<i>-5.9</i>	-3.8	-9.4	0.6	-8.9	-1.6	-10.3
U.S. High Yield	-1.0	-3.6	-4.6	1.6	-3.1	-7.0	-9.9
Credit Suisse High Yield	-2.7	-3.5	-6.1	0.3	-5.9	-6.6	-12.1
LASERS U.S. Fixed Income	-3.9	-3.8	-7.5	1.0	-6.6	-3.7	-10.1
Emerging Market Debt	0.2	-2.0	-1.9	0.2	-1.7	-1.7	-3.4
J.P. Morgan GBI-EM Global Diversified	-11.7	-6.0	-17.0	1.8	-15.5	-4.5	-19.3
Global Multi-Sector	2.4	-0.7	1.6	-0.9	0.7	-1.8	-1.1
50/50 Barclay's Agg/CS HY	-5.2	-4.5	-9.4	0.3	-9.2	-4.9	-13.6
Alternatives	15.6	0.1	15.7	-0.2	15.5	-2.6	12.5
LASERS Total Plan	3.4%	-4.5%	-1.2%	0.2%	-1.0%	-5.8%	-6.8%

One-Year Comparison



Current Fiscal Year: *Total Plan returns listed for June '22 and FYTD are preliminary.

	Jul '21	Aug '21	Sept '21	Oct '21	Nov '21	Dec '21	Jan '22	Feb '22	Mar '22	Apr '22	May '22	Jun '22	FYTD
Total Plan – Monthly	0.3	2.1	-1.9	2.7	-0.5	2.8	-2.8	-0.6	1.5	-4.5	0.2	-5.8	
Cumulative FYTD	0.3	2.4	0.5	3.2	2.6	5.5	2.5	1.9	3.4	-1.2	-1.0	-6.8	-6.8

Last Fiscal Year:

	Jul '20	Aug '20	Sept '20	Oct '20	Nov '20	Dec '20	Jan '21	Feb '21	Mar '21	Apr '21	May '21	Jun '21	FYTD
Total Plan – Monthly	3.0	3.3	-1.3	-0.5	9.1	4.1	0.8	3.2	2.3	3.0	2.4	1.9	
Cumulative FYTD	3.0	6.3	4.9	4.4	13.8	18.5	19.5	23.4	26.2	30.0	33.1	35.6	35.6

Equity Indices – Monthly Returns during Fiscal Year

*Total Plan returns listed for June '22 and FYTD are preliminary.

	Jul '21	Aug '21	Sept '21	Oct '21	Nov '21	Dec '21	Jan '22	Feb '22	Mar '22	Apr '22	May '22	June '22	FYTD
LASERS Total Plan*	0.3	2.1	-1.9	2.7	-0.5	2.8	-2.8	-0.6	1.5	-4.5	0.2	-5.8	-6.8
Index													
S&P 500	2.4	3.0	-4.7	7.0	-0.7	4.5	-5.2	-3.0	3.7	-8.7	0.2	-8.3	-10.6
S&P 500 Value	0.8	1.7	-3.3	4.6	-3.3	7.0	-1.6	-1.4	3.0	-4.9	1.6	-8.2	-4.9
S&P 500 Growth	3.8	4.2	-5.8	9.1	1.4	2.5	-8.4	-4.5	4.5	-12.5	-1.4	-8.3	-16.4
Nasdaq 100	2.8	4.3	-5.7	7.9	1.9	1.2	-8.5	-4.5	4.3	-13.3	-1.5	-8.9	-20.4
S&P 400	0.3	1.9	-4.0	5.9	-2.9	5.1	-7.2	1.1	1.4	-7.1	0.7	-9.6	-14.6
S&P 600	-2.4	2.0	-2.4	3.4	-2.3	4.5	-7.3	1.4	0.4	-7.8	1.9	-8.5	-16.8
S&P 600 Value	-4.4	1.9	-1.5	2.8	-2.5	4.2	-4.3	2.3	0.5	-6.3	2.3	-9.0	-13.9
S&P 600 Growth	-0.1	2.1	-3.4	4.1	-2.0	4.8	-10.1	0.4	0.3	-9.5	1.4	-8.0	-19.6
MSCI World Ex-USA	0.7	1.6	-2.8	3.0	-4.7	5.1	-4.4	-1.5	1.3	-6.5	1.0	-9.4	-16.3
MSCI World Ex-USA Value	-0.4	1.0	-1.5	2.3	-6.0	6.1	1.6	-1.0	1.2	-4.9	2.9	-10.1	-9.6
MSCI World Ex-USA Sm Cap	1.5	2.7	-3.3	2.0	-5.6	4.3	-6.8	-0.9	0.6	-6.9	-0.6	-11.2	-22.7
MSCI Emerging Mkts	-6.7	2.6	-3.9	1.0	-4.1	1.9	-1.9	-3.0	-2.2	-5.5	0.5	-6.6	-25.0 ₁₀

Fixed Income Indices – Monthly Returns during Fiscal Year



*Total Plan returns listed for June '22 and FYTD are preliminary.

	Jul '21	Aug '21	Sept '21	Oct '21	Nov '21	Dec '21	Jan '22	Feb '22	Mar '22	Apr '22	May '22	June '22	FYTD
LASERS Total Plan*	0.3	2.1	-1.9	2.7	-0.5	2.8	-2.8	-0.6	1.5	-4.5	0.2	-5.8	-6.8
<u>Index</u>													
BB Barclay's Agg	1.1	-0.2	-0.9	0.0	0.3	-0.3	-2.2	-1.1	-2.8	-3.8	0.6	-1.6	-10.3
Credit Suisse High Yield	0.2	0.5	0.2	-0.3	-1.0	1.9	-2.6	-0.8	-0.8	-3.5	0.3	-6.6	-12.1
JPM GBI-EM	-0.4	0.8	-3.4	-1.3	-2.7	1.6	0.0	-5.0	-1.5	-6.0	1.8	-4.5	-19.3

Equity Indices – Historical Returns

As of June 30, 2022



Fixed Income Indices – Historical Returns

As of June 30, 2022

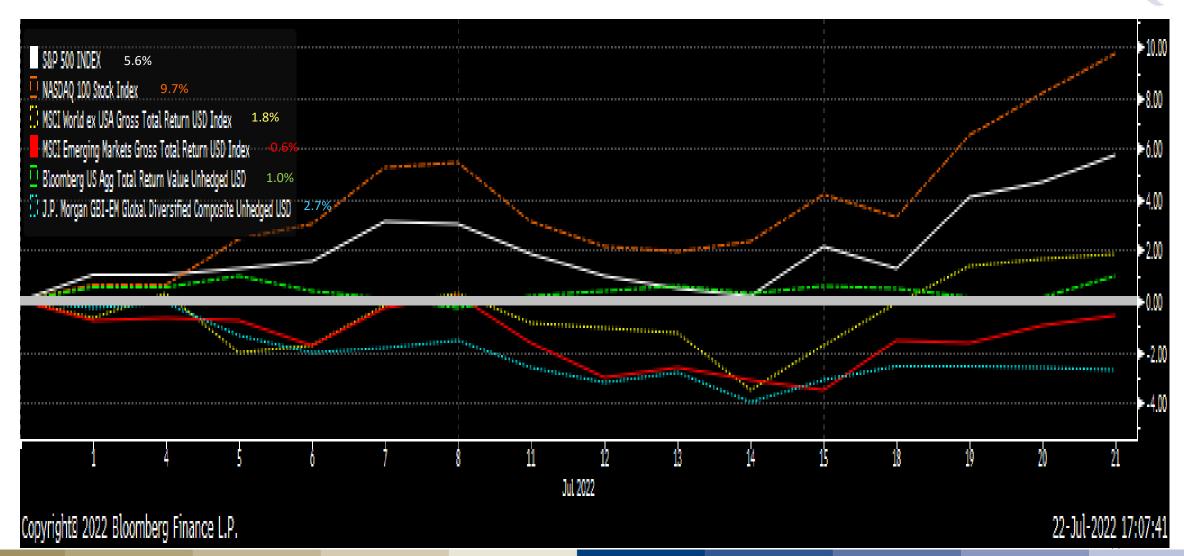


	1 year	2 years	3 years	5 years	7 years	10 years
LASERS Total Plan Preliminary	-6.8	12.4	6.7	6.8	6.7	7.9
Index						
BB Barclay's Agg	-10.3	-5.4	-0.9	0.9	1.4	1.5
Credit Suisse High Yield	-12.1	0.8	0.0	1.9	3.3	4.3
JPM GBI-EM	-19.3	-7.3	-5.8	-2.3	-0.5	-1.5

July MTD Indices Performance

Thru July 21, 2022





July MTD Performance Summary

As of July 21, 2022

	July MTD
U.S. Large Cap Equity	6.6
S&P 500 Index Nasdaq 100 Index	5.6 9.7
U.S. Mid Cap Equity	6.6
S&P 400 Index	6.6
U.S. Small Cap Equity	6.1
S&P 600 Index	6.2
LASERS U.S. Equity	6.5
Int'l Large Cap Equity	1.6
MSCI World Ex-USA	1.8
Int'l Small Cap Equity	3.1
MSCI World Ex-USA Small Cap	3.1
Int'l Emerging Markets Equity	
MSCI Emerging Markets	-0.6
LASERS Non-U.S. Equity	

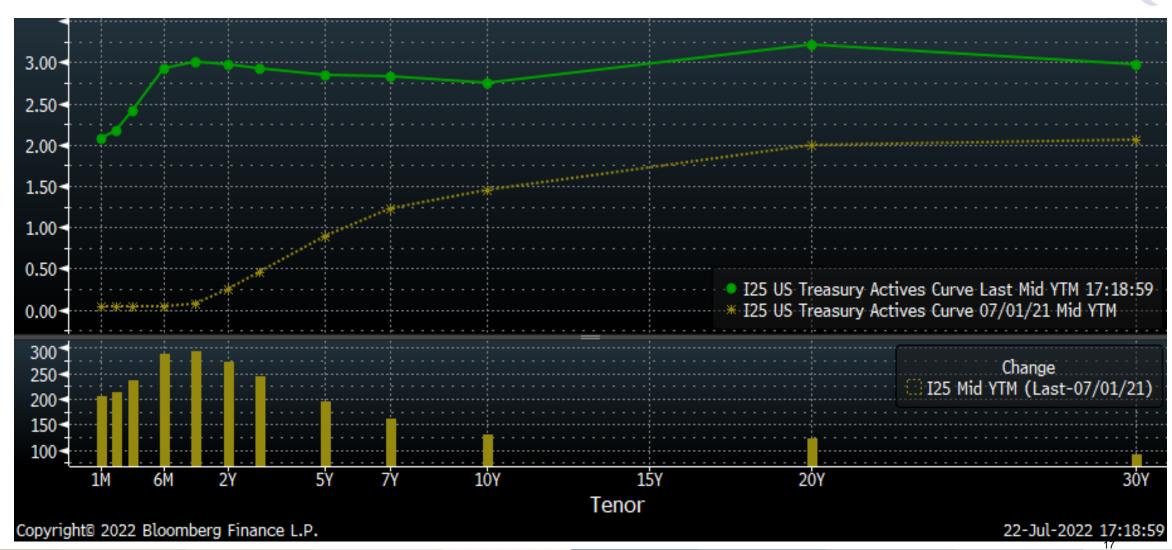
	July MTD
U.S. Investment Grade	1.0
BB BC Barclay's Aggregate	1.0
U.S. High Yield	3.9
Credit Suisse High Yield	3.7
LASERS U.S. Fixed Income	1.9
Emerging Market Debt	-3.7
J.P. Morgan GBI-EM Global Diversified	-2.7
Global Multi-Sector	1.0
50/50 Barclay's Agg/CS HY	2.4
Alternatives	0.0
LASERS Total Plan	2.6%



Market and Economic Snapshot

FYTD: Yield Curve





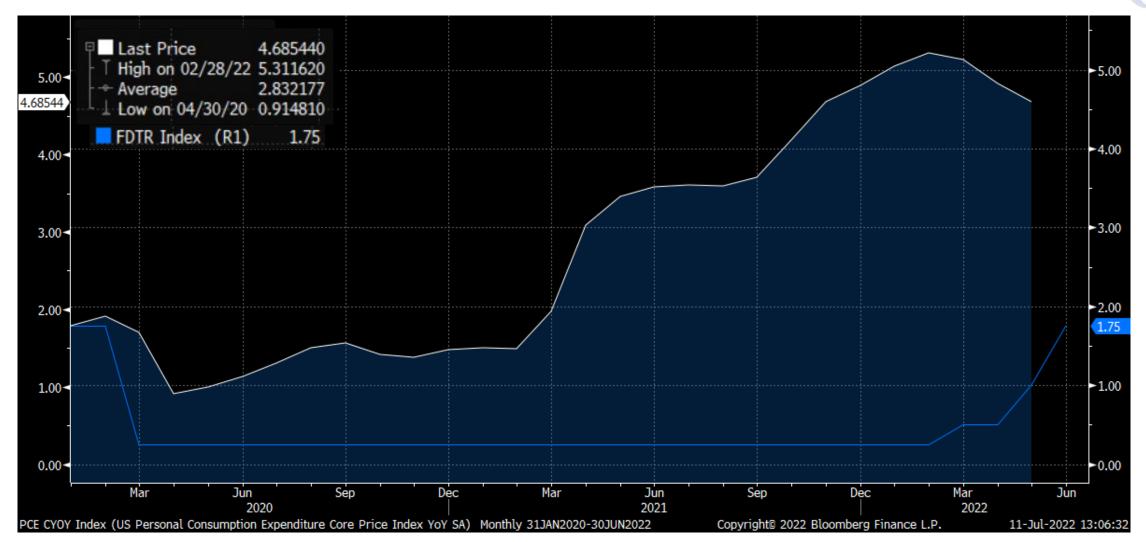
Oil Prices





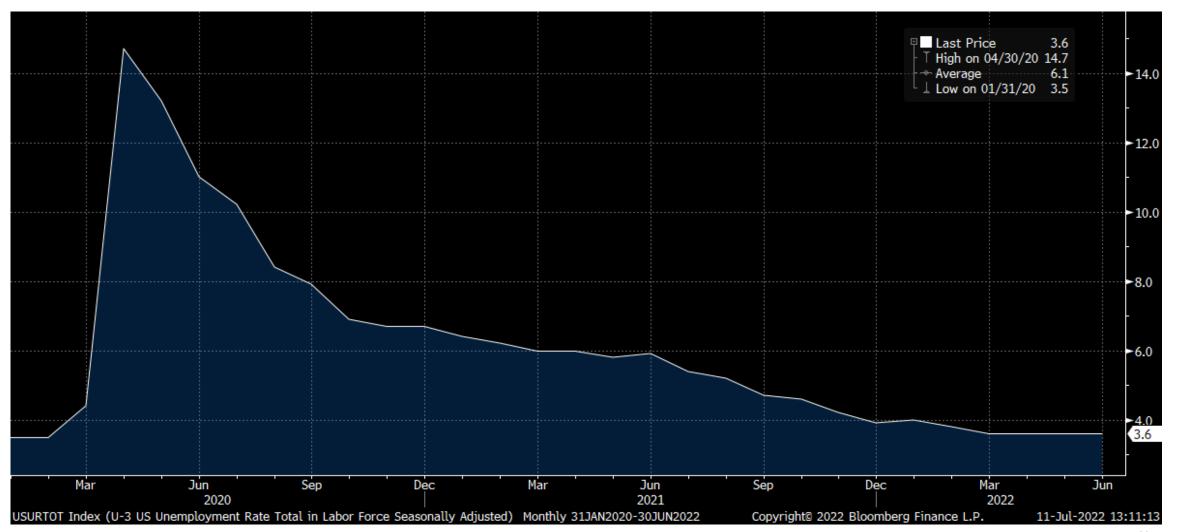
Pre-Pandemic to Current: U.S. Inflation - Core PCE & Fed Funds Rate





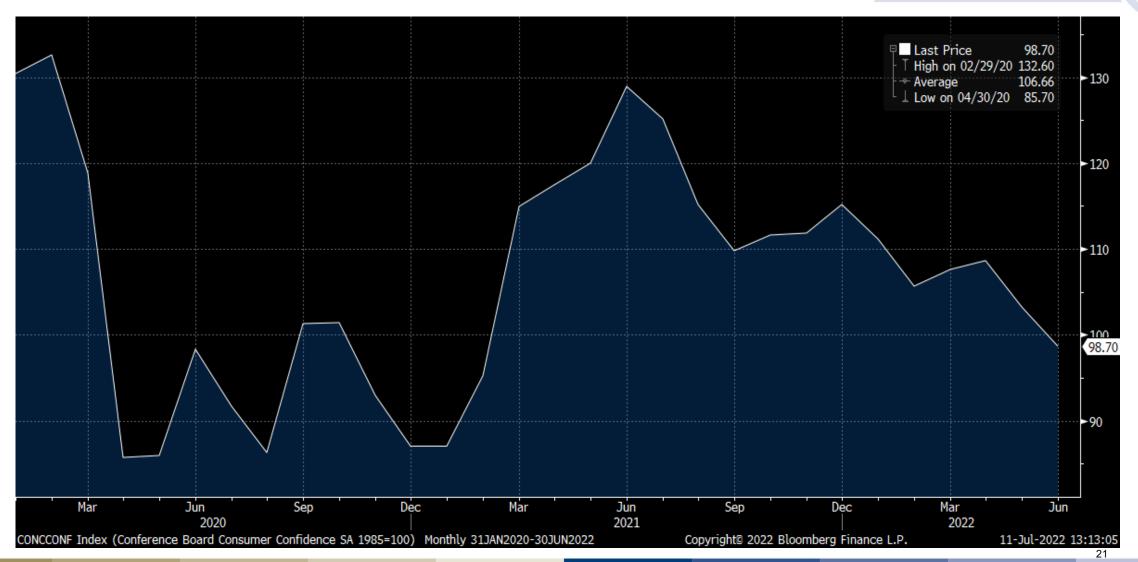
Pre-Pandemic to Current: Unemployment





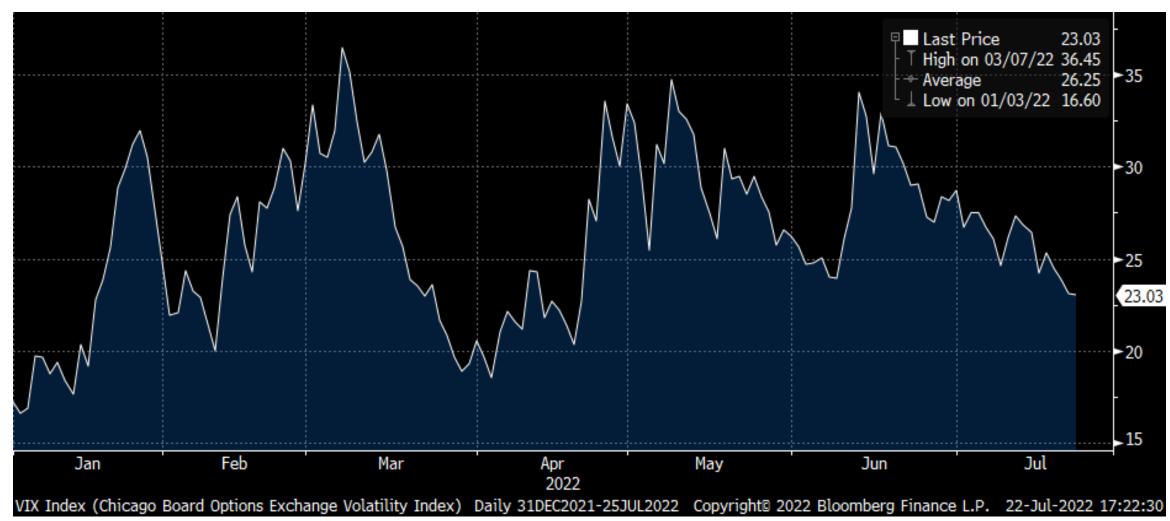
Pre-Pandemic to Current: Consumer Confidence





Recent Volatility (2022 to-date)





Comparison: U.S. Equity

Size & Style Returns



Pre-Pandemic:

(as of 01/31/20)	Year-to-Date					
	Value	Core	Growth			
Large	-2.15%	0.11%	2.24%			
Medium	-1.95%	-0.80%	0.94%			
Small	-5.39%	-3.21%	-1.10%			

Last Fiscal-Year-End: Current Fiscal-Year-End:

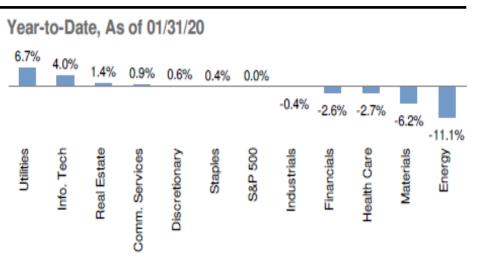
(as of 07/02/21) Year-to-Date		(as of 07/01/22)	Year-to-Date				
,	Value	Core	Growth		Value	Core	Growth
Large	18.10%	16.29%	14.59%	Large	-11.75%	-20.05%	-27.35%
Medium	20.50%	17.09%	10.95%	Medium	-15.03%	-20.45%	-30.03%
Small	26.42%	17.30%	8.78%	Small	-16.07%	-22.54%	-28.87%

Comparison: U.S. Equity

S&P 500 Index Sector Returns



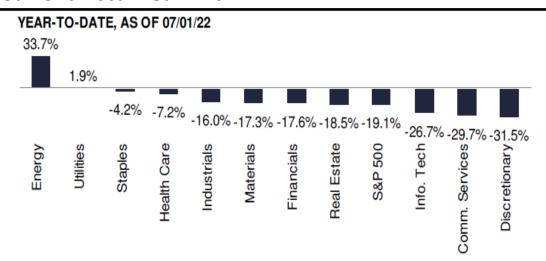
Pre-Pandemic



Last Fiscal-Year-End

Financials Financ

Current Fiscal-Year-End



Comparison: Int'l Developed Equity

Size & Style Returns



Pre-Pandemic:

(as of 01/31/20)	Y	Year-to-Date				
	Value	Core	Growth			
Large	-2.95%	-0.50%	2.05%			
Medium	-2.77%	-1.17%	0.10%			
Small	-3.93%	-2.78%	-1.64%			

Last Fiscal-Year-End: Current Fiscal-Year-End:

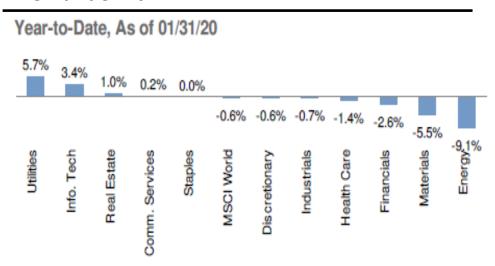
(as of 07/02/21)	Y	ear-to-Dat	te	(as of 07/01/22)	Year-to-Date		
(45 5. 5.7522.)	Value Core Growth			Value	Value Core		
Large	15.41%	14.32%	13.03%	Large	-10.53%	-19.67%	-28.33%
Medium	16.66%	13.26%	9.13%	Medium	-16.86%	-22.20%	-29.14%
Small	18.83%	15.31%	11.56%	Small	-16.03%	-22.18%	-28.42%

Comparison: Int'l Developed Equity

MSCI World Index Sector Returns



Pre-Pandemic

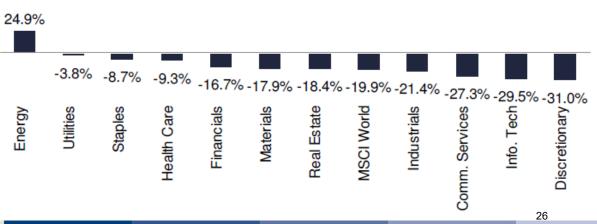


Last Fiscal-Year-End

Pear-to-Date, As of 07/02/21 34.9% | 21.7% | 18.5% | 18.0% | 14.5% | 14.4% | 13.4% | 12.2% | 11.8% | 11.6% | 5.7% | 1.4% | | Waterials | Waterials | Pealth Care | Health Care | Healt

Current Fiscal-Year-End

YEAR-TO-DATE, AS OF 07/01/22



Comparison: U.S. Fixed Income



Pre-Pandemic:

(as of 01/31/20)	Year-to-Date			
	Short	Intermed.	Long	
Government	0.91%	1.43%	6.85%	
Corporate	0.88%	1.46%	3.96%	
High Yield	0.05%	-0.06%	1.58%	

Last Fiscal-Year-End:

Current Fiscal-Year-End:

(as of 07/02/21)	1	ear-to-Dat	е	(as of 07/01/22)	,	ear-to-Dat	е
	Short	Intermed.	Long		Short	Intermed.	Long
Government	-0.44%	-1.05%	-7.50%	Government	-3.84%	-5.33%	-20.76%
Corporate	0.14%	-0.43%	-2.18%	Corporate	-5.23%	-8.49%	-22.28%
High Yield	4.71%	3.70%	5.61%	High Yield	-9.58%	-13.42%	-24.05%

Louisiana State Employees' Retirement System

July 2022 Board Meeting Expected Return Update

July 28, 2022

Shelley Johnson, ASA, MAAA
Consulting Actuary



REVIEW Components of LASERS' Total Expected Return

- LASERS discount rate represents the assumed long-term rate of return expected to fund <u>regular</u> plan benefits (net of gain-sharing).
- June 30, 2021 valuation discount rate: 7.40% (7.25% for the projected contribution rate beginning July 1, 2022)
- Current Board adopted rate for the June 30, 2022 valuation: 7.25%
- When determining if this is reasonable, we compare the discount rate PLUS 0.35% for gain-sharing, or 7.60%, to current long-term expected returns for LASERS portfolio.
- LASERS current assumed long-term inflation is 2.30%.

REVIEW

Expected Returns Considered for June 30, 2021 Valuation

Assumptions vs. Current Market Expectations Long-Term Expected Returns						
June 30, 2021	LASERS June 30, 2021 Valuation Discount Rate	7.40%				
Valuation	Expected Gain-Sharing	0.35%				
Assumptions	Total Assumed Return (including Gain-Sharing)	7.75%				
2021 Market Expectations for LASERS Portfolio, 2.30% Inflation Assumption	NEPC 2021 Expected Returns (50 th Percentile, 30-Year)	7.60%				
	HAS 2020 Survey of Capital Market Assumptions HAS 2021 Survey of Capital Market Assumptions (50 th Percentile, 20-Year)	8.24% 7.77%				

Projected 2022 Valuation
7.25%
0.35%
7.60%

- A 7.40% discount rate provided sufficient margin to recognize potential gain-sharing and a reasonable conservative margin (return achieved or exceeded in greater than 50% of investment scenarios modeled)
- Reduction to 7.25% remains increases conservative margin within but remains reasonable.

REVIEW NEPC 2021-1Q Expected Returns

(2021 target asset allocation)

Investment Consultant 2022 1Q Expected Returns							
	60 th	50 th	40 th				
TRSL Portfolio Expected Returns	Percentile	Percentile	Percentile				
NEPC's raw assumptions (2.20% inflation)	6.61%	7.50%	8.39%				
Adjustment to LASERS Inflation assumption of 2.30%	0.10%	0.10%	0.10%				
Expected return considered by Foster & Foster:	6.71%	7.60%	8.49%				
Less 35 basis points for gain-sharing (for discount rate comparison)	6.46%	7.25%	8.14%				

REVIEW HAS 2021 Expected Returns

(2021 target asset allocation)

2021 Horizon Survey (20-year) Expected Returns							
LASERS Portfolio Expected Returns	60 th Percentile	50 th Percentile	40 th Percentile				
LASERS' 2021 Asset Allocation & 2.30% Inflation Assumption	6.78%	7.77%	8.75%				
Less 35 basis points for gain-sharing	6.43%	7.42%	8.40%				

2022 Update Considers:

- NEPC Capital Market Assumptions
 - NEPC updates CMA's quarterly
 - June 30, 2022 update increased aggregate 30-year expected return from 7.67% to 8.40%
 - Decreased 30-Year inflation assumption to 2.5% (from 2.6%); 10-Yr remains at 2.4%
- Revised target asset allocation, adopted by Board February 2022
 - See slide 7
- 45th and 55th Percentiles
 - With special consideration for 55th percentile of returns; see slide 8 and 9
- LASERS' adjustment to Private Equity expected return
 - NEPC 6/30/2022 general assumption for Private Equity: 10.3%
 - LASERS expected return for <u>LASERS</u> Private Equity Investments: 11%

3

Foster & Foster

2022 LASERS ASSET ALLOCATION

Asset Class	Current Policy Target	Recommendation	Δ (+/-)
Large Cap Equity	23%	23%	
Small/Mid Cap Equity	8%	8%	
International Equity (Large Cap)	10%	10%	
International Equity (Small Cap)	5%	5%	
Emerging Markets Equity	8%	8%	
Total Equities	54%	54%	
Core Bonds	3%	3%	
Global Multi-Sector Fixed Income ⁽¹⁾	14%	14%	
Emerging Market Debt (Blended) ⁽²⁾	4%	3%	(1.0%)
Total Fixed Income	21%	20%	
Private Equity	20%	22%	+2.0%
Absolute Return(3)	4%	4%	
Total Alternative Assets	24%	26%	
Cash	1%	0%	(1.0%)
Total Portfolio	100%	100%	

NEPC

12/31/2021

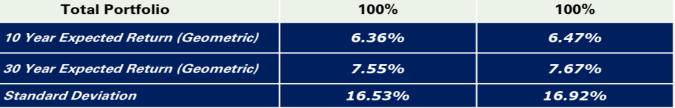
returns for

allocations

revised target

prior and

expected





Change in target allocation increased 30-year expected returns by 0.12%.



¹Global Multi-Sector Fixed Income is modeled as 1/3 Private Debt-Direct Lending, 1/3 Private Debt-Distressed, 1/3 Diversified Fixed Income ² Emerging Markets Debt (Blended) is modeled as ½ Emerging Markets Debt (Iocal) and ½ Emerging Markets Debt (external) ³Absolute Return is modeled as Hedge Funds

2022 Update: NEPC 2022-3Q Expected Returns

With 2022 Revised Target Asset Allocation

Investment Consultant 2022 3Q (30-Year) Expected Returns							
	60 th	55 th	50 th	45 th	40 th		
LASERS Portfolio Expected Returns	Percentile	e/ Percentile\	Percentile	Percentile	Percentile		
NEPC's raw assumptions (2.50% inflation)	7.62%	8.01%	8.40%	8.90%	9.40%		
Adjustment to LASERS Inflation assumption of 2.30%	-0.20%	-0.20%	-0.20%	-0.20%	-0.20%		
Expected return considered by Foster & Foster:	7.42%	7.81%	8.20%	8.70%	9.20%		
Less 35 basis points for gain-sharing (for discount rate comparison)	7.07%	7.46%	7.85%	8.35%	8.85%		

2022 Update:

NEPC 2022-3Q Expected Returns (30-Yr)

With LASERS' Private Equity Adjustment & 2022 Revised Target Asset Allocation

Investment Consultant/LASERS 2022 2Q (30-Year) Expected Returns								
	60 th	55 th	50 th	45 th	40th			
LASERS Portfolio Expected Returns	Percentile	Percentile	Percentile	Percentile	Percentile			
NEPC's raw assumptions (2.50% inflation)	7.62%	8.01%	8.40%	8.90%	9.40%			
+ LASERS' Private Equity adjustment *	0.15%	0.15%	0.15%	0.15%	0.15%			
LASERS' Consultant/System expected return	7.77%	8.16%	8.55%	9.05%	9.55%			
Adjustment to LASERS Inflation assumption of 2.30%	-0.20%	-0.20%	-0.20%	-0.20%	-0.20%			
Expected return considered by Foster & Foster:	7.57%	7.96%	8.35%	8.85%	9.35%			
Less 35 basis points for gain-sharing (for discount rate comparison)	7.22%	7.61%	8.00%	8.50%	9.00%			

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HAS 2021 Expected Returns

With 2022 Revised Target Asset Allocation

2021 Horizon Survey (20-year) Expected Returns								
	60 th	55 th	50 th	40 th				
LASERS Portfolio Expected Returns	Percentile	Percentile	Percentile	Percentile				
LASERS <u>2021 Asset Allocation</u> & 2.30% Inflation Assumption	6.78%	7.28%	7.77%	8.75%				
Less 35 basis points for gain-sharing	6.43%	6.93%	7.42%	8.40%				
LASERS <u>2022 Asset Allocation</u> & 2.30% Inflation Assumption	6.92%	7.42%	7.92%	8.91%				
Less 35 basis points for gain-sharing	6.57%	7.07%	7.57%	8.56%				

Summary of 2022 Update

Assumptions vs. Current Market Expectations Long-Term Expected Returns					
June 30, 2022	LASERS June 30, 2022 Valuation Discount Rate	7.25%			
Valuation Assumptions	Expected Gain-Sharing	0.35%			
	Total Assumed Return (including Gain-Sharing)	7.60%			
Current Market Expectations for	NEPC 2022-3Q Exp. Returns (55 th Percentile, 30-Year)	7.81%			
LASER Portfolio, 2.30% Inflation Assumption	NEPC/LASERS 2022-3Q Exp. Returns (55th Percentile, 30-Year)	7.96%			
	HAS 2021 Survey of Capital Market Assumptions (55th Percentile, 20-Year)	7.42%			

• A 7.25% discount rate provides sufficient margin to recognize potential gain-sharing and includes a reasonable conservative margin, therefore is reasonable in our opinion.

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11

Recommendation

- Retain 7.25% discount rate for June 30, 2022 GASB and Funding Actuarial Valuations
- Retain 7.25% discount rate for projected FY 2023/24 funding requirements

3

Foster & Foster 12

Questions?

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