

County Employees Retirement System Investment Committee – Special Called Meeting June 9, 2023 at 10:00 AM ET Live Video Conference/Facebook Live

AGENDA

1.	Call to Order	Dr. Merl Hackbart
2.	Opening Statement	Legal Services
3.	Roll Call	Sherry Rankin
4.	Public Comment	Sherry Rankin
5.	Approval of Minutes* February 22, 2023 and March 2, 2023	Dr. Merl Hackbart
6.	Wilshire Market Overview	David Lindberg Craig Morton Chris Tessman
7.	Investment Office Quarterly Update	Steve Willer
8.	Adjourn	Dr. Merl Hackbart

^{*}Committee Action May Be Taken

MINUTES OF MEETING
COUNTY EMPLOYEES RETIREMENT SYSTEM
INVESTMENT COMMITTEE MEETING
FEBRUARY 22, 2023, 2:00 P.M., E.T.
VIA LIVE VIDEO TELECONFERENCE

At the February 22, 2023 County Employees Retirement System' (CERS) Investment Committee Meeting, the following Committee members were present: George Cheatham, Dr. Martin Milkman, and Jerry Powell. Staff members present were Rebecca Adkins, Erin Surratt, Victoria Hale, Michael Lamb, Steve Willer, Anthony Chiu, Joseph Gilbert, Jared Crawford, Brian Caldwell, Ashley Gabbard, Katie Park, Sherry Rankin, and Phillip Cook. Also in attendance were CERS CEO Ed Owens, III, KRS CEO John Chilton, KRS Trustees David Adkins and Prewitt Lane, CERS Trustee Dr. Patricia Carver, David Lindberg, Craig Morton, and Marc Friedberg with Wilshire, and Gary Fencik and Bill Sacher with Adams Street Partners.

Mr. Cheatham called the meeting to order.

Ms. Hale read the Legal Opening Statement.

Ms. Rankin called roll.

There being no *Public Comment*, Dr. Hackbart introduced agenda item *Approval of Minutes* – *November 22, 2022, December 15, 2022, and February 1, 2023 (Video 00:07:55 to 00:09:27).* A motion was made by Dr. Milkman and seconded by Mr. Powell to approve the November 22, 2022 minutes as presented. The motion passed unanimously. A motion was made by Mr. Powell and

seconded by Dr. Milkman to approve the December 15, 2022 minutes as presented. The motion passed unanimously. A motion was made by Dr. Milkman and seconded by Mr. Powell to approve the February 1, 2023 minutes as presented. The motion passed unanimously.

Dr. Hackbart introduced agenda item *Adams Street Partners Specialty Credit Presentation (Video 00:09:28 to 00:58:42)*. KPPA Chief Investment Officer, Mr. Steve Willer, briefly introduced Gary Fencik and Bill Sacher with Adams Street Partners. Mr. Fencik and Mr. Sacher presented information on Senior Private Credit Fund III and the anchor terms of a proposed commitment to the fund.

Dr. Hackbart introduced agenda item *CERS' Investment into Adam Street Partners Private*Credit Fund II (Video 00:58:43 to 01:01:40). Due to the absence of Dr. Hackbart and Mr. O'Mara,

Mr. Powell made a motion to table the item to the next meeting of the CERS Investment

Committee. The motion was seconded by Dr. Milkman and the motion passed unanimously.

Dr. Hackbart introduced agenda item *Wilshire Market Overview* (*Video 01:01:41 to 01:27:40*). David Lindberg and Craig Morton with Wilshire presented the CERS Quarterly Board Summary as of December 31, 2022.

Dr. Hackbart introduced agenda item *Investment Quarterly Update* (Video 01:27:41 to 01:58:29).

Mr. Willer presented the CERS Investment Office Update, Investment Budget Update, CERS & CERS Hazardous Unit Holdings, Security Litigation Report, Capital Calls and Distributions,

Internal Asset Holdings Report & Internal Asset Transaction Report, and Commissions Report for the quarter ending December 31, 2022.

Dr. Hackbart introduced agenda item *Staffing Update* (Video 01:58:30 to 01:58:35). There was no Staffing Update to report.

A motion was made by Mr. Powell and seconded by Dr. Milkman to *adjourn* the meeting. The motion passed unanimously.

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CERTIFICATION

I do certify that I was present at this meeting, and I have recorded above the action of the
Committee on the various items considered by it at this meeting. Further, I certify that al
requirements of KRS 61.805-61.850 were met in connection with this meeting.
Recording Secretary
I, as Chair of the County Employees Retirement System Investment Committee of the Board of
Trustees of the County Employees Retirement System, do certify that the Minutes of the meeting
held on February 22, 2023 were approved by the County Employees Retirement System
Investment Committee on May 24, 2023.
Committee Chair
I have reviewed the Minutes of the County Employees Retirement System Investment Committee
Meeting on February 22, 2023, for form, content, and legality.

Office of Legal Services

MINUTES OF MEETING
COUNTY EMPLOYEES RETIREMENT SYSTEM
SPECIAL CALLED INVESTMENT COMMITTEE MEETING
MARCH 2, 2023, AT 2:00 P.M., E.T.
VIA LIVE VIDEO TELECONFERENCE

At the special called meeting of the County Employees Retirement System Investment Committee held on March 2, 2023, the following Committee members were present: Dr. Merl Hackbart (Chair), George Cheatham, Dr. Martin Milkman, William O'Mara, and Jerry Powell. Staff members present were Erin Surratt, Victoria Hale, Michael Lamb, Steve Willer, Anthony Chiu, Joseph Gilbert, Jared Crawford, Brian Caldwell, Ashley Gabbard, Shaun Case, Katie Park, and Sherry Rankin. Also in attendance was CERS CEO Ed Owens, III.

Dr. Hackbart called the meeting to order.

Ms. Hale read the Opening Statement.

Ms. Rankin took Roll Call.

There being no *Public Comment* submitted, Dr. Hackbart introduced agenda items *Adams Street Partners Re-Up ASP Private Credit Fund III* (*Video 00:05:54 to 00:17:19*). Mr. Steve Willer provided background information on Adams Street Partners and presented the proposed investment into Adams Street Partners Private Credit Fund III. He stated that the investment recommendation is a "re-up" including the opportunity for a fee-free co-investment sidecar vehicle should it be approved and would be part of the Specialty Credit allocation. The KPPA Office of Investments recommended a "re-up" investment of up to \$175 million into the Adams Street Partners Senior Private Credit Fund III, and up to an additional \$175 million investment into a co-

investment side car vehicle to be allocated proportionally among all CERS Plans. Further, KPPA

will occupy an "anchor investor" position with preferred pricing and the co-investment vehicle

will have a 0% management fee, and 0% carried interest. This "re-up" investment will maintain

the Plans' current exposure to the Adams Street Private Credit Platform and will reside in the

Specialty Credit allocation, said Mr. Willer. Mr. O'Mara made a motion to approve, subject to

successful contract negotiations, CERS' investment into Adams Street Partners Private Credit

Fund III as presented. The motion was seconded by Mr. Powell and passed unanimously.

Dr. Milkman entered the meeting

Dr. Hackbart requested a motion to adjourn. A motion was made by Mr. Cheatham and seconded

by Mr. O'Mara to adjourn the meeting. The motion passed unanimously.

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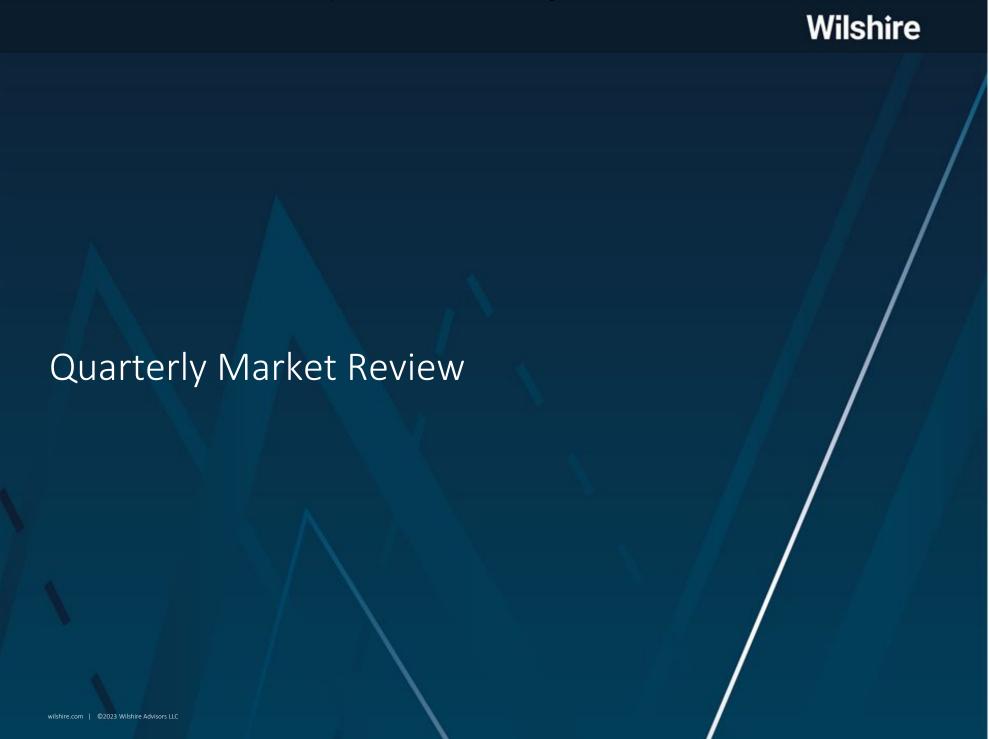
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I, as Chair of the County Employees Retirement System Investment Committee of the Board of
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Committee Chair
I have reviewed the Minutes of the County Employees Retirement System Investment Committee
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Office of Legal Services

Kentucky Public Pensions Authority
County Employees Retirement System (CERS)

Quarterly Board Summary

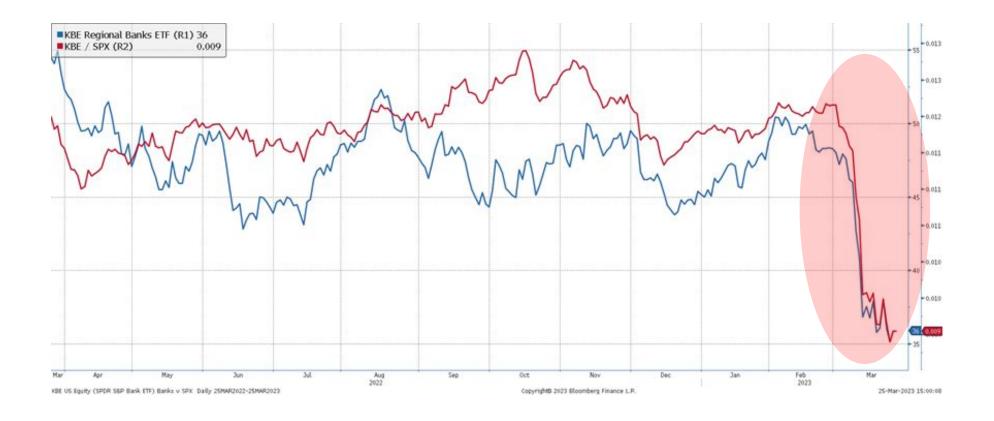
March 31, 2023



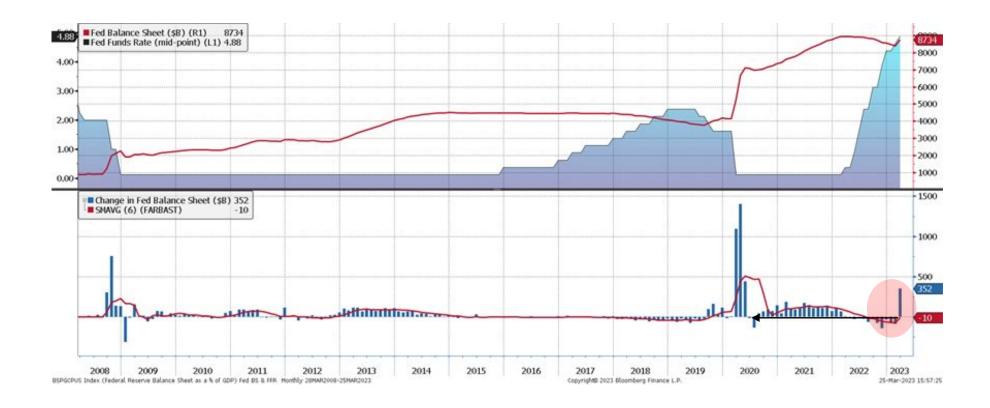
March 2023 Asset Class Assumptions

			Equ	uity					Fi	xed Incom	e				1	Real Assets	5		
		Dev		Global					LT				Dev ex-	1	Real Estate	е			
	US	ex-US	Emg	ex-US	Global	Private		Core	Core		High	Private	US Bond	US	Global	Private		Real	US
	Stock	Stock	Stock	Stock	Stock	Equity	Cash	Bond	Bond	TIPS	Yield	Credit	(Hdg)	RES	RES	RE	Cmdty	Assets	CPI
Compound Return (%)	6.15	6.90	7.15	7.25	6.70	9.60	3.65	4.60	4.60	3.65	6.25	8.55	2.85	5.75	5.90	6.25	5.90	6.65	2.25
Expected Risk (%)	17.00	18.00	26.00	19.10	17.10	29.65	0.75	4.70	9.85	6.00	10.00	12.75	4.00	17.50	16.45	13.90	16.00	12.35	1.75
Cash Yield (%)	1.65	3.15	2.75	3.05	2.20	0.00	3.65	4.90	4.95	4.25	9.35	4.90	3.45	4.05	4.05	2.25	3.65	3.15	0.00
Growth Exposure	8.00	8.00	8.00	8.00	8.00	14.00	0.00	-0.95	-2.40	-3.00	4.00	5.10	-1.00	6.00	6.00	3.50	0.00	2.70	0.00
Inflation Exposure	-3.00	0.00	5.00	1.45	-1.30	-3.75	0.00	-2.50	-6.80	2.50	-1.00	-1.50	-3.00	1.00	1.80	1.00	12.00	5.25	1.00
Correlations																			
US Stock	1.00																		
Dev ex-US Stock (USD)	0.81	1.00																	
Emerging Mkt Stock	0.74	0.74	1.00																
Global ex-US Stock	0.84	0.95	0.89	1.00															
Global Stock	0.95	0.91	0.84	0.94	1.00														
Private Equity	0.72	0.63	0.61	0.67	0.73	1.00													
Cash Equivalents	-0.05	-0.09	-0.05	-0.08	-0.06	0.00	1.00												
Core Bond	0.28	0.13	0.00	0.08	0.20	0.30	0.18	1.00											
LT Core Bond	0.31	0.15	0.01	0.11	0.24	0.31	0.11	0.94	1.00										
TIPS	-0.05	0.00	0.15	0.06	-0.01	-0.03	0.20	0.60	0.48	1.00									
High Yield Bond	0.54	0.39	0.49	0.46	0.53	0.31	-0.10	0.24	0.32	0.05	1.00								
Private Credit	0.68	0.55	0.58	0.60	0.68	0.44	0.00	0.24	0.30	0.00	0.76	1.00							
Dev ex-US Bond (Hdg)	0.16	0.25	-0.01	0.16	0.17	0.26	0.10	0.68	0.66	0.39	0.26	0.22	1.00						
US RE Securities	0.58	0.47	0.44	0.49	0.57	0.49	-0.05	0.17	0.22	0.10	0.56	0.62	0.05	1.00					
Global RE Securities	0.64	0.57	0.54	0.60	0.65	0.55	-0.05	0.17	0.21	0.11	0.61	0.68	0.04	0.96	1.00				
Private Real Estate	0.55	0.45	0.45	0.49	0.54	0.50	-0.05	0.19	0.25	0.09	0.58	0.63	0.05	0.79	0.78	1.00			
Commodities	0.25	0.34	0.39	0.38	0.32	0.28	0.00	-0.03	-0.03	0.25	0.29	0.29	-0.10	0.25	0.28	0.25	1.00		
Real Assets	0.62	0.63	0.65	0.69	0.67	0.57	-0.03	0.22	0.24	0.30	0.64	0.69	0.04	0.78	0.84	0.76	0.64	1.00	
Inflation (CPI)	-0.10	-0.15	-0.13	-0.15	-0.13	-0.10	0.10	-0.12	-0.12	0.15	-0.08	0.00	-0.08	0.05	0.04	0.05	0.44	0.22	1.00

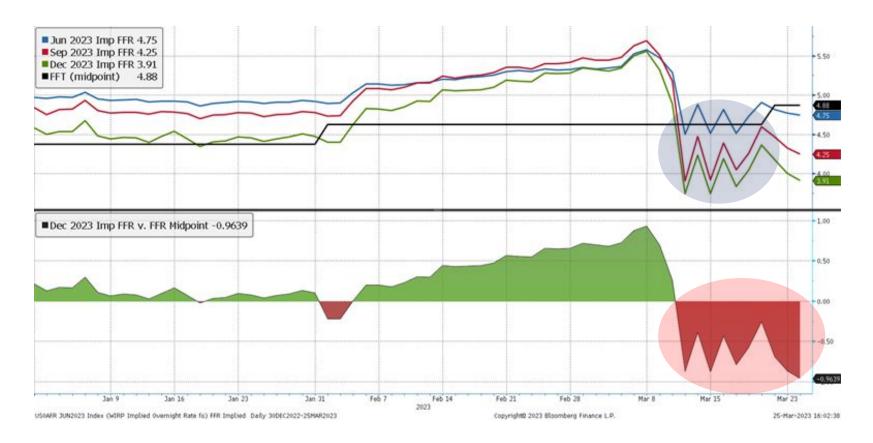
Regional Banks Under Stress



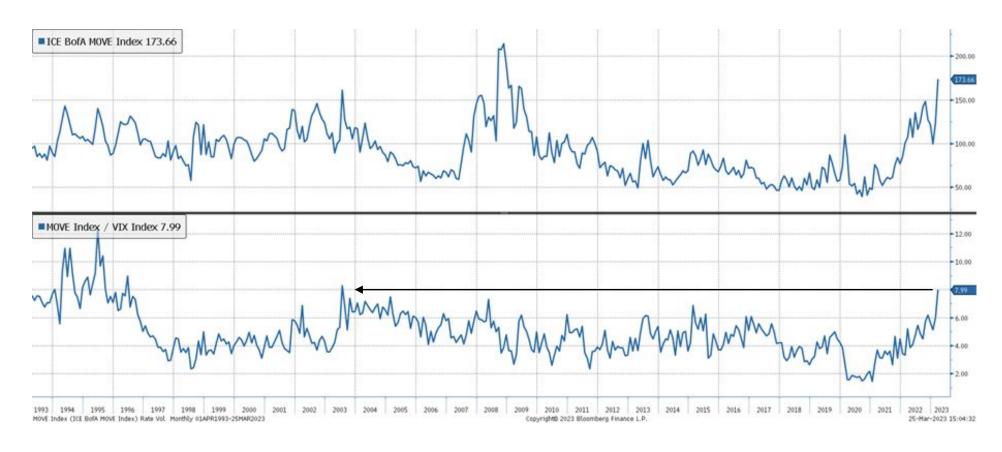
Fed Response: "Dovish Hike" - End of QT?



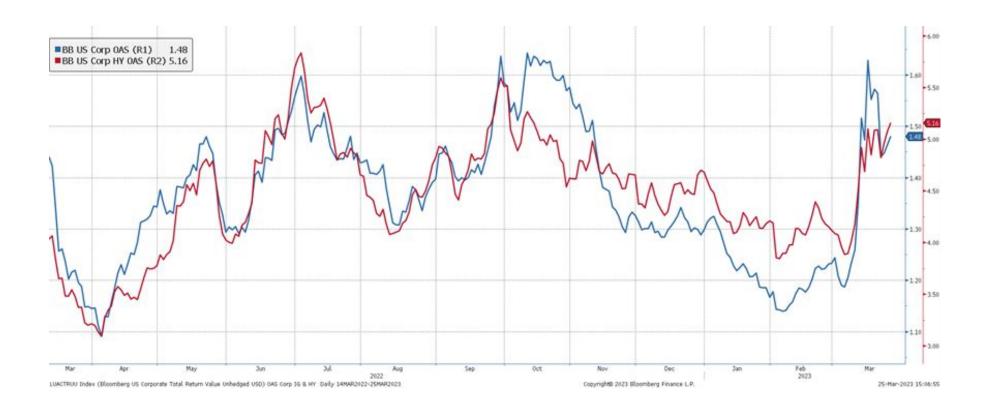
Fed Funds Discounting Goes into "Charlie Brown" Mode



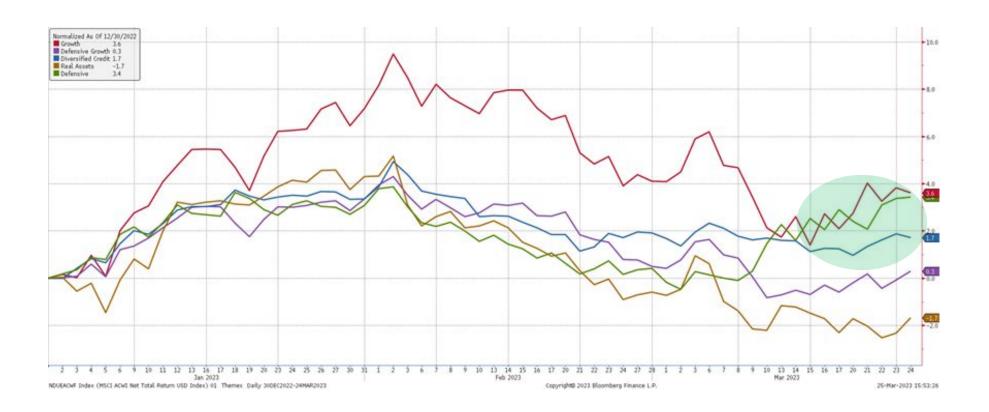
Extreme Interest Rate Volatility



Credit Spreads Widen (but remain below Sept '22 levels)

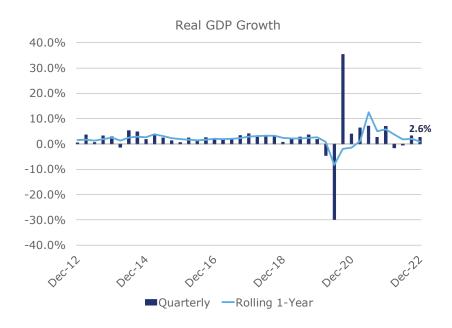


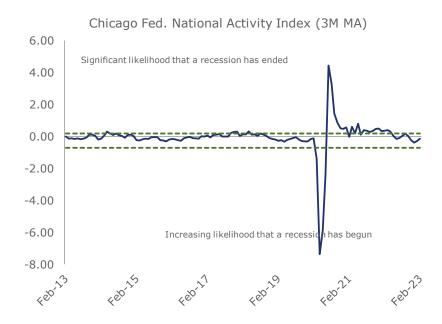
Many Risk-Assets Showing Resilience





Economic Growth

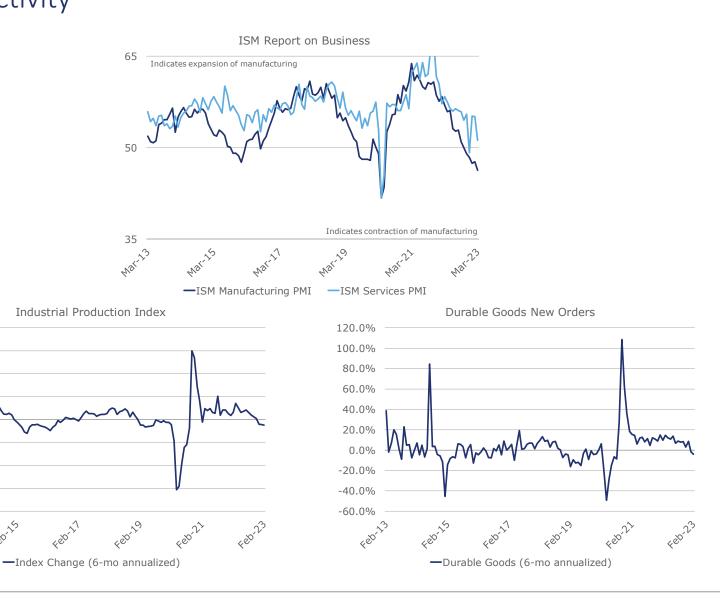




Consumer Activity



Business Activity



wilshire.com | ©2023 Wilshire Advisors LLC

Data Sources: Bloomberg

40.0%

30.0%

20.0%

10.0%

0.0%

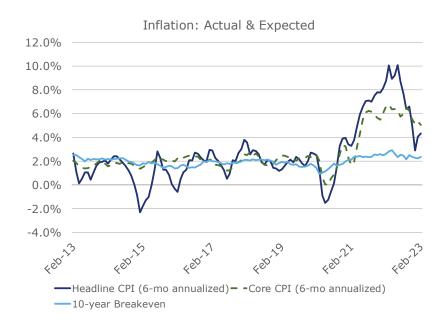
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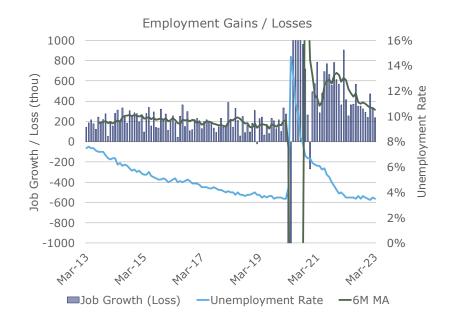
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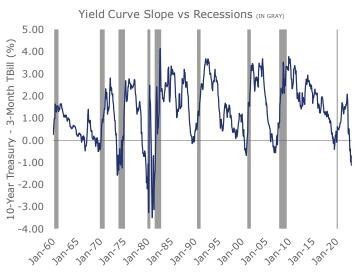
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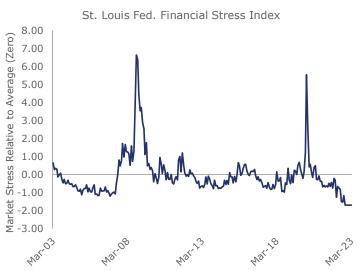
Inflation and Employment

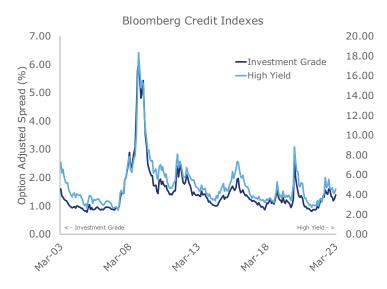


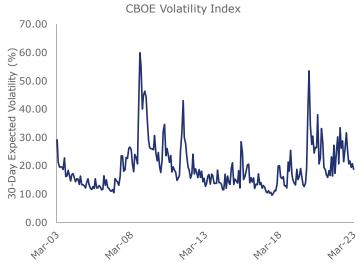


Risk Monitor









U.S. Equity Market

As of 3/31/2023	Quarter	YTD	1 Year	3 Year	5 Year	10 Year
FT Wilshire 5000	7.3	7.3	-8.6	18.8	10.7	11.9
Wilshire U.S. Large Cap	7.6	7.6	-8.4	18.8	11.2	12.3
Wilshire U.S. Small Cap	3.6	3.6	-10.3	19.8	6.0	8.7
Wilshire U.S. Large Growth	15.7	15.7	-11.4	19.7	12.9	14.2
Wilshire U.S. Large Value	0.1	0.1	-4.8	17.5	9.4	10.3
Wilshire U.S. Small Growth	6.3	6.3	-8.7	17.6	6.1	9.2
Wilshire U.S. Small Value	1.0	1.0	-11.7	22.0	5.8	8.1
Wilshire REIT Index	3.2	3.2	-21.3	11.0	5.7	5.9
MSCI USA Min. Vol. Index	1.3	1.3	-4.4	12.4	9.1	10.6
FTSE RAFI U.S. 1000 Index	1.7	1.7	-5.9	22.1	10.0	11.0





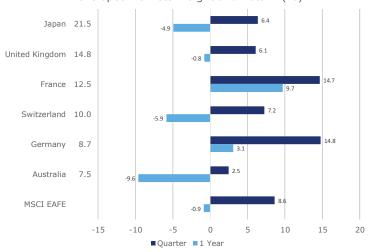


Data Sources: Bloomberg, Wilshire Atlas

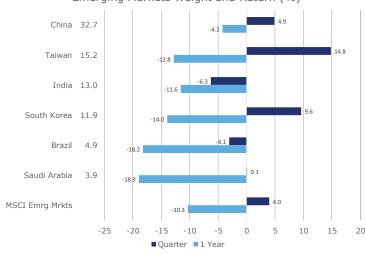
Non-U.S. Equity Market

As of 3/31/2023	Quarter	YTD	1 Year	3 Year	5 Year	10 Year
MSCI ACWI ex-US (\$G)	7.0	7.0	-4.6	12.3	3.0	4.7
MSCI EAFE (\$G)	8.6	8.6	-0.9	13.5	4.0	5.5
MSCI Emerging Markets (\$G)	4.0	4.0	-10.3	8.2	-0.5	2.4
MSCI Frontier Markets (\$G)	2.5	2.5	-16.3	7.9	-3.7	0.0
MSCI ACWI ex-US Growth (\$G)	8.7	8.7	-6.0	9.8	3.7	5.4
MSCI ACWI ex-US Value (\$G)	5.1	5.1	-3.9	14.9	1.9	3.9
MSCI ACWI ex-US Small (\$G)	4.8	4.8	-9.9	15.5	2.1	5.5
MSCI ACWI Minimum Volatility	1.7	1.7	-5.5	8.9	5.7	7.4
MSCI EAFE Minimum Volatility	5.8	5.8	-4.6	5.3	1.6	4.7
FTSE RAFI Developed ex-US	6.7	6.7	-1.6	16.8	3.4	5.3
MSCI EAFE LC (G)	7.7	7.7	4.4	15.2	6.8	7.9
MSCI Emerging Markets LC (G)	3.8	3.8	-6.2	9.2	2.3	5.4





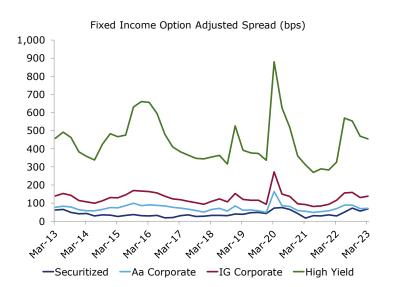
Emerging Markets Weight and Return (%)

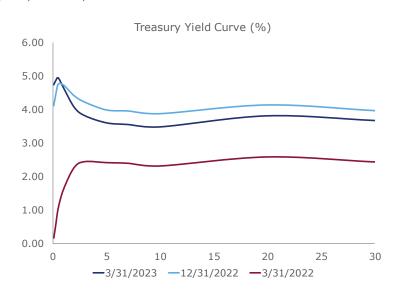


U.S. Fixed Income

As of 3/31/2023	YTW	DUR.	QTR	YTD	1 YR	3 YR	5 YR	10 YR
Bloomberg Aggregate	4.4	6.3	3.0	3.0	-4.8	-2.8	0.9	1.4
Bloomberg Treasury	3.8	6.3	3.0	3.0	-4.5	-4.2	0.7	0.9
Bloomberg Gov't-Rel.	4.4	5.4	2.9	2.9	-3.3	-1.6	1.1	1.4
Bloomberg Securitized	4.6	5.8	2.5	2.5	-4.7	-3.1	0.3	1.0
Bloomberg Corporate	5.2	7.2	3.5	3.5	-5.6	-0.5	1.6	2.3
Bloomberg LT Gov't/Credit	4.6	14.6	5.8	5.8	-13.4	-6.3	0.6	2.3
Bloomberg LT Treasury	3.8	16.4	6.2	6.2	-16.0	-11.3	-0.4	1.5
Bloomberg LT Gov't-Rel.	5.1	11.7	5.2	5.2	-9.9	-3.1	0.6	2.3
Bloomberg LT Corporate	5.3	13.2	5.4	5.4	-11.5	-2.6	1.1	3.0
Bloomberg U.S. TIPS *	3.5	7.6	3.3	3.3	-6.1	1.8	2.9	1.5
Bloomberg High Yield	8.5	3.7	3.6	3.6	-3.3	5.9	3.2	4.1
S&P/LSTA Leveraged Loan	9.4	0.3	3.2	3.2	2.5	8.5	3.6	3.8
Treasury Bills	4.7	0.3	1.1	1.1	2.5	0.8	1.4	0.9

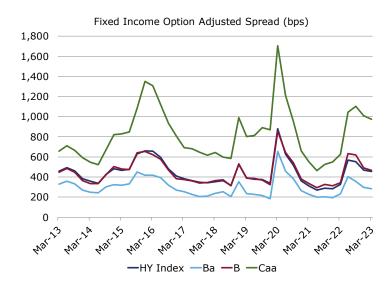
^{*} Yield and Duration statistics are for a proxy index based on similar maturity, the Bloomberg Barclays U.S. Treasury 7-10 Year Index





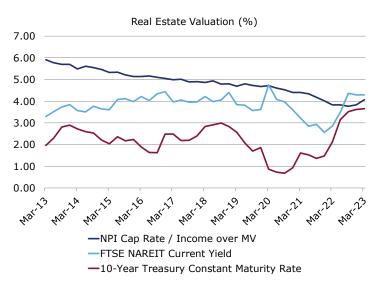
High Yield Bond Market

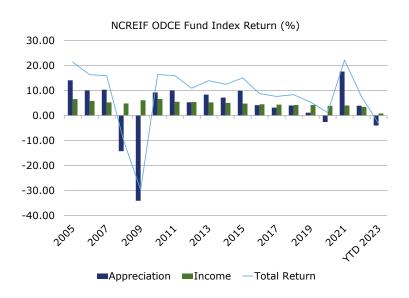
As of 3/31/2023		YTW	QTR	YTD	1 YR	3 YR	5 YR	10 YR
Bloomberg High Yield		8.5	3.6	3.6	-3.3	5.9	3.2	4.1
S&P LSTA Leveraged Loan		9.1	2.9	2.9	2.4	6.5	3.4	3.3
High Yield Quality Distribution	Weight							
Ba U.S. High Yield	48.8%	6.8	3.4	3.4	-1.9	5.8	4.0	4.5
B U.S. High Yield	39.6%	8.7	3.5	3.5	-3.7	5.4	3.0	3.7
Caa U.S. High Yield	10.7%	13.4	5.0	5.0	-8.6	7.1	0.5	3.4
Ca to D U.S. High Yield	0.9%	35.1	-3.6	-3.6	-10.3	12.4	-0.8	-5.3



Real Assets

As of 3/31/2023	Quarter	YTD	1 Year	3 Year	5 Year	10 Year
Bloomberg U.S. TIPS	3.3	3.3	-6.1	1.8	2.9	1.5
Bloomberg Commodity Index	-5.4	-5.4	-12.5	20.8	5.4	-1.7
Bloomberg Gold Index	8.1	8.1	0.7	5.9	7.1	1.3
Wilshire Global RESI Index	2.3	2.3	-20.8	9.0	3.2	4.3
NCREIF ODCE Fund Index	-3.2	-3.2	-3.1	8.4	7.5	9.5
NCREIF Timberland Index	1.8	1.8	11.3	8.1	5.5	5.8
FTSE Global Core Infrastructure 50/50	0.7	0.7	-7.1	11.1	6.6	7.1
Alerian Midstream Energy	0.8	0.8	-1.2	34.8	9.7	n.a.
Bitcoin	71.7	71.7	-38.0	63.6	32.9	77.7





Data Sources: Bloomberg, National Council of Real Estate Investment Fiduciaries

Asset Class Performance

A +		Datuma	Death	\
Asset	Class	Returns -	Best to	worst

2018	2019	2020	2021	2022	2023 YTD
T-Bills	U.S. Equity	U.S. Equity	REITs	Commodities	Developed
1.9%	31.0%	20.8%	46.2%	16.1%	8.6%
Core Bond	REITs	Emrg Mrkts	Commodities	T-Bills	U.S. Equity
0.0%	25.8%	18.7%	27.1%	1.3%	7.3%
U.S. TIPS	Developed	U.S. TIPS	U.S. Equity	High Yield	Emrg Mrkts
-1.3%	22.7%	11.0%	26.7%	-11.2%	4.0%
High Yield	Emrg Mrkts	Developed	Developed	U.S. TIPS	High Yield
-2.1%	18.9%	8.3%	11.8%	-11.8%	3.6%
REITs	High Yield	Core Bond	U.S. TIPS	Core Bond	U.S. TIPS
-4.8%	14.3%	7.5%	6.0%	-13.0%	3.3%
U.S. Equity	Core Bond	High Yield	High Yield	Developed	REITs
-5.3%	8.7%	7.1%	5.3%	-14.0%	3.2%
Commodities	U.S. TIPS	T-Bills	T-Bills	U.S. Equity	Core Bond
-11.2%	8.4%	0.7%	0.0%	-19.0%	3.0%
Developed	Commodities	Commodities	Core Bond	Emrg Mrkts	T-Bills
-13.4%	7.7%	-3.1%	-1.5%	-19.7%	1.1%
Emrg Mrkts	T-Bills	REITs	Emrg Mrkts	REITs	Commodities
-14.2%	2.3%	-7.9%	-2.2%	-26.8%	-5.4%

Annualized 5-Year as of 3/23 U.S. Equity 10.7% REITs 5.7% Commodities 5.4% Developed 4.0% U.S. TIPS 2.9% T-Bills 1.4% Core Bond 0.9% **Emrg Mrkts** -0.5%

Data Sources: Bloomberg Note: Developed asset class is developed equity markets ex-U.S., ex-Canada

County Employees Retirement Systems

Investment Office Quarterly Update

Quarter Ending: March 31, 2023

County Employees Retirement Systems

Performance and Asset Allocations

Quarter Ending: March 31, 2023

March 2023

KPPA MONTHLY PERFORMANCE UPDATE

CERS/CERS-H

What's going on in the marketplace?

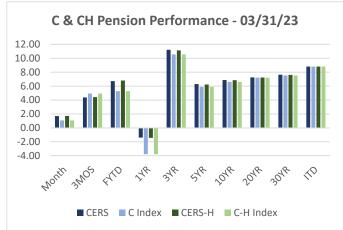
During the first quarter of 2023, global risks markets were able to shrug off a multitude of headwinds and produce positive performance. Markets were buoyed early in the quarter as optimism grew that the economy could avoid a recession and central banks would shortly shift to easing mode. This market optimism faded as concerns grew regarding the health of the banking sector following the sudden failure of two regional banks. Markets were able to rebound late in the quarter to finish on a positive note as fears of immediate contagion subsided, and optimism again took root. Despite this, most remain cautious on the market as earnings are likely to come under pressure as underlying growth seems to be slowing at a more meaningful pace. The market seems to be experiencing a broad underlying slowdown as company trends are beginning to decelerate. That said, it is a difficult starting point for comparison as we are coming off elevated numbers post pandemic, and high inflation and rates. Despite the long-predicted recession to come, as mentioned above, equity markets continue to be resilient as businesses have been performing against low expectations. Supply chains seem to be functioning and inflationary pressures are starting to abate. The financial industry experienced a couple of significant bank failures, as bond investments came under significant pressures during the quarter; however, they appear to be idiosyncratic, and contagion seems minimal. This is still likely to renew banks focus on capital/liquidity and may result in tightening credit availability. Mixed data has created some confusion in the marketplace. Equity markets seem to be doing well, while bond markets say we are headed for recession. Mixed growth trends are evidence of the contradiction as machine and semi-conductor sales are down, while retail and travel activity are up. There is a dichotomy in soft and hard data as well; PMI and business surveys say we are in recession, while auto and construction data say different. Slowing demand in North America is being offset by increasing demand in China (re-opening post covid).

The KPPA Pension Trust portfolio returned 1.61% during the month of March, outperforming its blended benchmark return of 0.99%. The CERS Pension Composite produced a 1.69% return during the month. The CERS and CERS-H Pension portfolios returned 1.69% and 1.71% respectively, while their benchmark gained 1.07%. Both funds outperformed their respective benchmark with similar drivers of attribution. Performance was stronger within the private equity portfolio in terms of selection. Also, the portfolios benefitted from strong selection in the high yield and real estate portfolios. Allocation positioning was modestly positive during the month. Partially offsetting relative performance was the weakness experienced in the public equity and core fixed income asset classes.

For the fiscal year, the KPPA Pension Trust portfolio gained 6.26%, outperforming the benchmark return of 5.00%, while the CERS Pension Composite returned 6.74%. The CERS and CERS-H Pension portfolios returned 6.72% and 6.80%, against a benchmark return of 5.27%.

Global equity markets were stronger during the month, as evidenced by the MSCI ACWI Index rising 3.08%. US markets outpaced their international market counterparts (R3000: 2.67% versus MSCI ACWI Ex-US: 2.13%). This brought the fiscal year return for global equity markets to 9.75% (KPPA global equity portfolio: 11.53%).

US equity markets gained 2.67% during the month (Russell 3000), while the KPPA portfolio underperformed, returning 2.31%. The market was driven by strength in the large cap segment (3.67%),



while midcaps and small caps were significantly weaker (-3.21% and -4.78%, respectively). Growth significantly outperformed value during the month, returning 6.25% versus -0.86%, as evidenced by the Russell 3000 style indices. For the fiscal year, the KPPA US Equity portfolio has gained 9.98% compared with its benchmark return of 9.75%. Relative outperformance has been driven by the portfolio's slight overweight down market cap to midcaps which have returned 12.17% for the fiscal year.

NonUS equity markets returned 2.13% (MSCI ACWI Ex-US) during the month. Developed markets returned 2.34% (MSCI World Ex-US) and emerging markets gained 3.03\$ (MSCI EM) during the period while period. The KPPA portfolio returned 2.56% during the month, outperforming its benchmark by 43bps. Relative outperformance was driven by stock selection, as the majority of individual active mandates bested their respective benchmarks. The fiscal year return now stands at 13.63% versus 9.85%.

The specialty credit portfolio outperformed its benchmark during the month, returning 1.61% versus 0.52%. The high yield market returned 1.07% during the period, as the leverage loan market remained relatively flat (-0.03%). For the fiscal year to date, the portfolio has underperformed its benchmark, gaining 5.16% versus 7.31%. The reported relative underperformance is largely driven by the issues associated with timing differences between the private market mandates and the public market benchmarks which tend to be exacerbated during periods of larger moves in the public markets. Individual strategy relative performance has been mixed fiscal year to date.

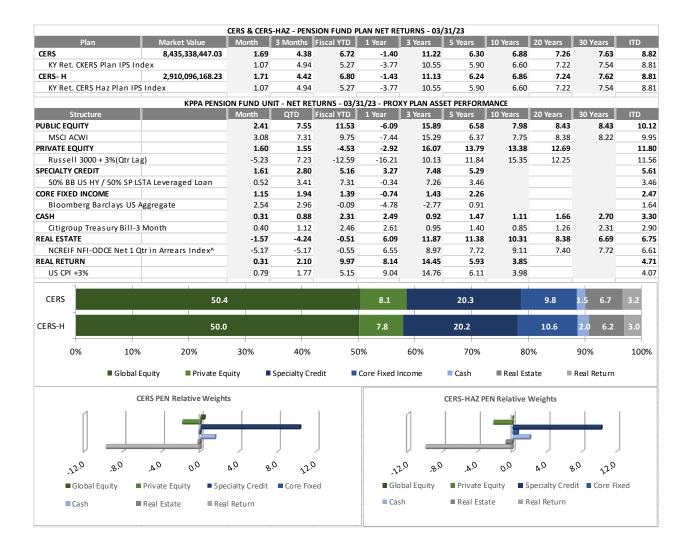
The core fixed income portfolio gained 1.15% compared to the Bloomberg Aggregate Index gaining 2.54% as Government bond yields overall decreased significantly in March as investors sought refuge of safer assets and forward rate hike expectations decreased in light of the banking sector turmoil. Relative underperformance was attributable to positioning within the allocation; the portfolios continue to remain underweight overall duration given the potential for higher rates and continued volatility. The fiscal year-to-date return now stands at 1.39% compared to the benchmark return of -0.09%.

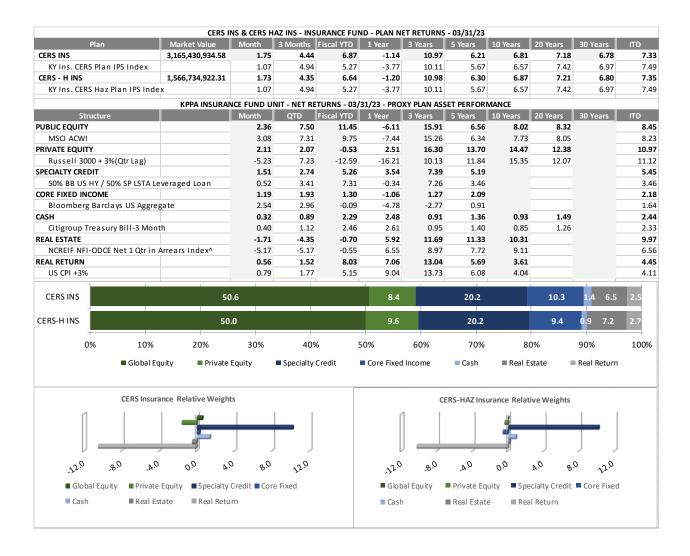
The private equity allocation gained 160bps during the month, bringing the fiscal year to date return to -4.53%. Trailing public marks have significantly affected the overall performance of the portfolio, and the portfolio's 1-year return crossed into negative territory recently coming in at -2.92% at the end of March.

The real return portfolio gained 31bps during the month, compared to its benchmark return of 0.79%. As with several of the previous months, performance, both absolute and relative, was heavily influenced by the MLP portion of the portfolio (approximately 40% of the allocation); which lost -0.98%. For the fiscal year, the portfolio has returned 9.97% versus the benchmark return of 5.15%.

The real estate portfolio fell -1.57% during the month. The 1-year return now stands at 6.09% versus the 6.55% return of its benchmark, closing the relative gap that existed due to the benchmark finally adjusting to the impact of higher interest rates. The three open-end real estate funds in the portfolio (approximately 75% of the allocation) continue to outperform the benchmark.

The cash portfolio returned 0.31% during the month compared with the 3-month T-bill's 0.40%. This brought the fiscal year return to 2.31%, trailing the benchmark return of 2.46%. The relative underperformance of the cash portfolio is most attributable to lower rates offered by overnight repurchase agreements relative to the yields of the 3-month T-bill.





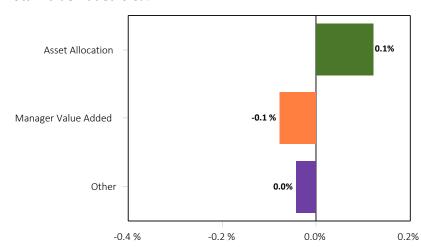
Total Fund Attribution

CERS Pension Plan
Periods Ended 1 Quarter Ending March 31, 2023

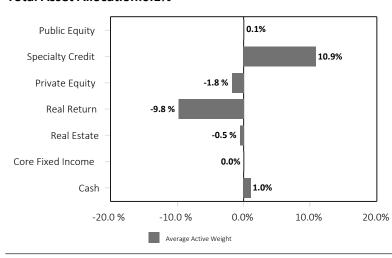
Total Fund Performance

Total Value Added — 0.0% Total Fund Benchmark — 4.4% Total Fund — 4.4% 0.0% 2.0% 4.0% 6.0%

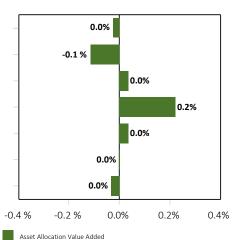
Total Value Added:0.0%



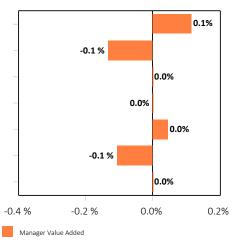
Total Asset Allocation:0.1%



Asset Allocation Value Added: 0.1%



Total Manager Value Added:-0.1 %

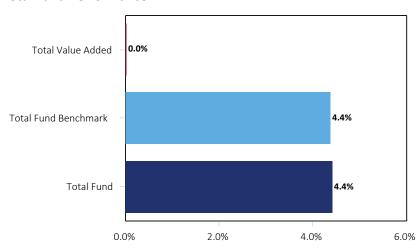


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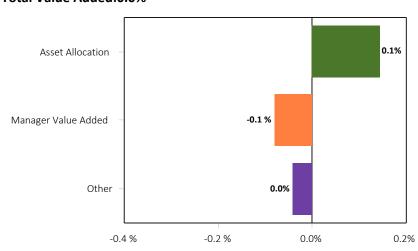
Total Fund Attribution

CERS (H) Pension Plan
Periods Ended 1 Quarter Ending March 31, 2023

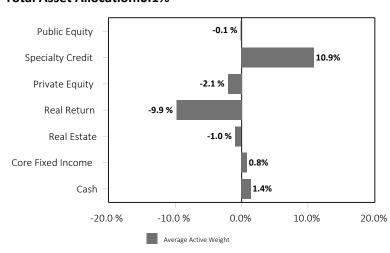
Total Fund Performance



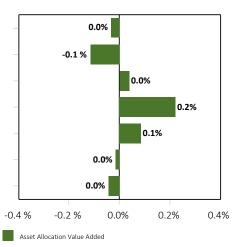
Total Value Added: 0.0%



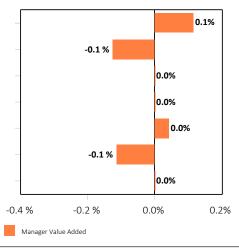
Total Asset Allocation:0.1%



Asset Allocation Value Added:0.1%



Total Manager Value Added:-0.1%



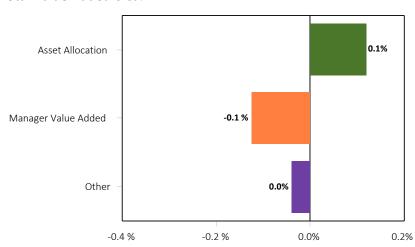
Total Fund Attribution

CERS Insurance Plan
Periods Ended 1 Quarter Ending March 31, 2023

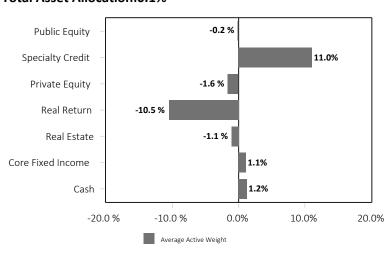
Total Fund Performance

Total Value Added - 0.0% Total Fund Benchmark - 4.5% Total Fund - 4.4% -2.0 % 0.0% 2.0% 4.0% 6.0%

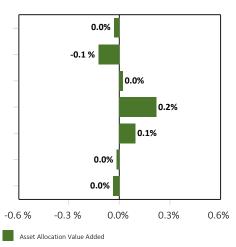
Total Value Added:0.0%



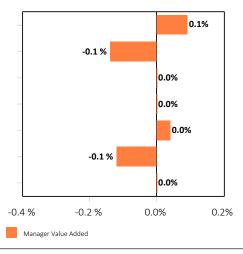
Total Asset Allocation:0.1%



Asset Allocation Value Added:0.1%



Total Manager Value Added:-0.1%



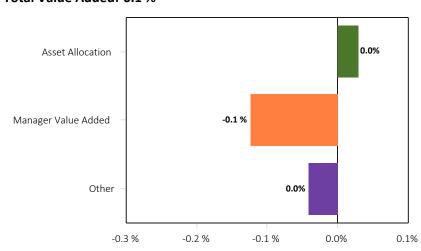
Total Fund Attribution

CERS (H) Insurance Plan
Periods Ended 1 Quarter Ending March 31, 2023

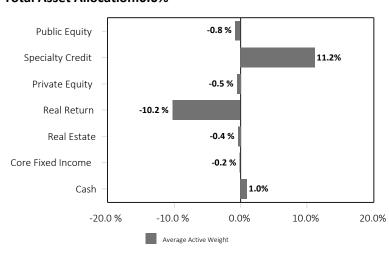
Total Fund Performance

Total Value Added - -0.1 % Total Fund Benchmark - 4.5% Total Fund - -2.0 % 0.0% 2.0% 4.0% 6.0%

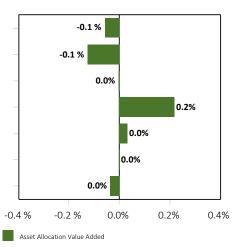
Total Value Added:-0.1 %



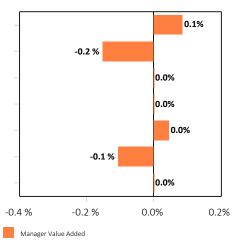
Total Asset Allocation:0.0%



Asset Allocation Value Added:0.0%



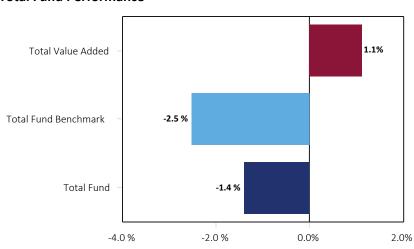
Total Manager Value Added:-0.1%



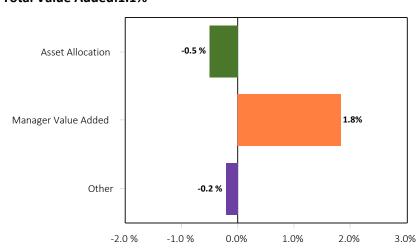
Total Fund Attribution

CERS Pension Plan
Periods Ended 1 Year Ending March 31, 2023

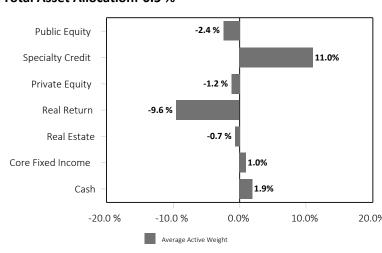
Total Fund Performance



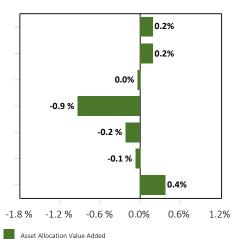
Total Value Added:1.1%



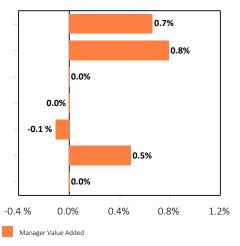
Total Asset Allocation:-0.5 %



Asset Allocation Value Added:-0.5 %



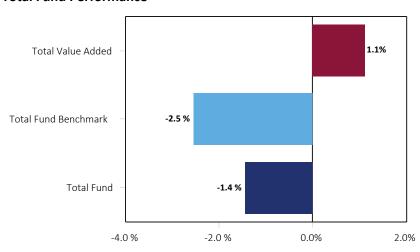
Total Manager Value Added:1.8%



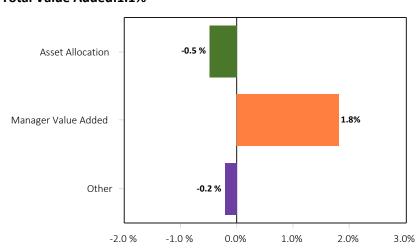
Total Fund Attribution

CERS (H) Pension Plan
Periods Ended 1 Year Ending March 31, 2023

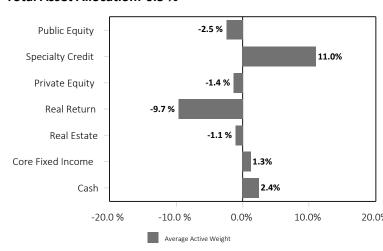
Total Fund Performance



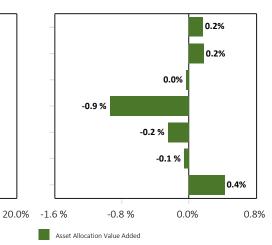
Total Value Added:1.1%



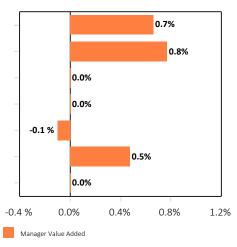
Total Asset Allocation:-0.5 %



Asset Allocation Value Added:-0.5 %



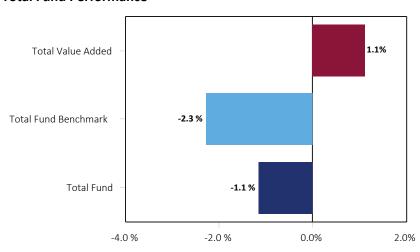
Total Manager Value Added:1.8%



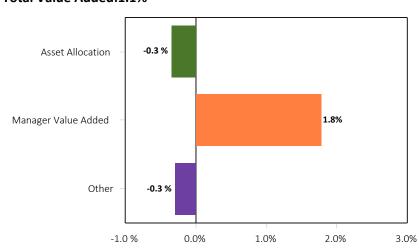
Total Fund Attribution

CERS Insurance Plan
Periods Ended 1 Year Ending March 31, 2023

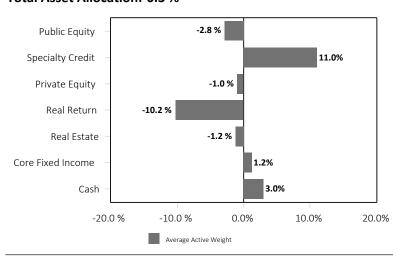
Total Fund Performance



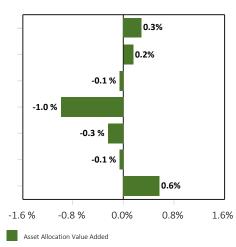
Total Value Added:1.1%



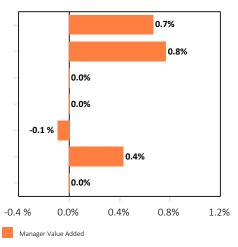
Total Asset Allocation:-0.3 %



Asset Allocation Value Added:-0.3 %



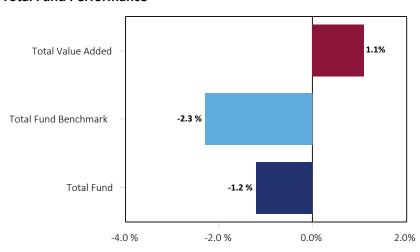
Total Manager Value Added:1.8%



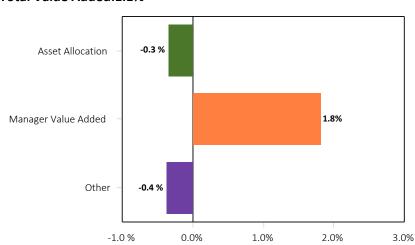
Total Fund Attribution

CERS (H) Insurance Plan
Periods Ended 1 Year Ending March 31, 2023

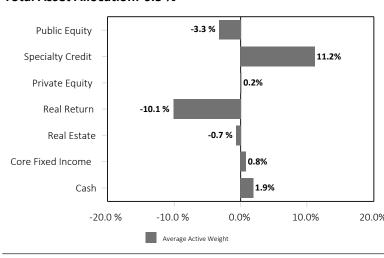
Total Fund Performance



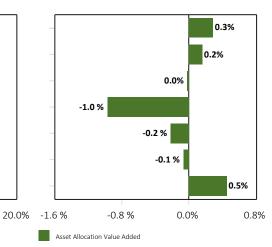
Total Value Added:1.1%



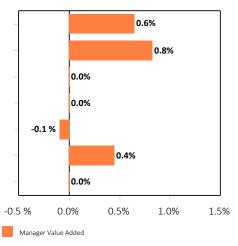
Total Asset Allocation:-0.3 %



Asset Allocation Value Added:-0.3 %

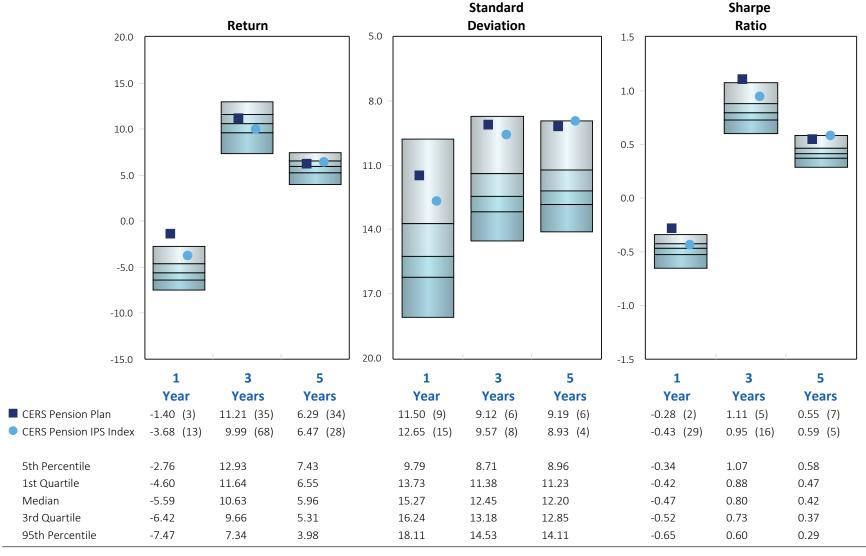


Total Manager Value Added:1.8%



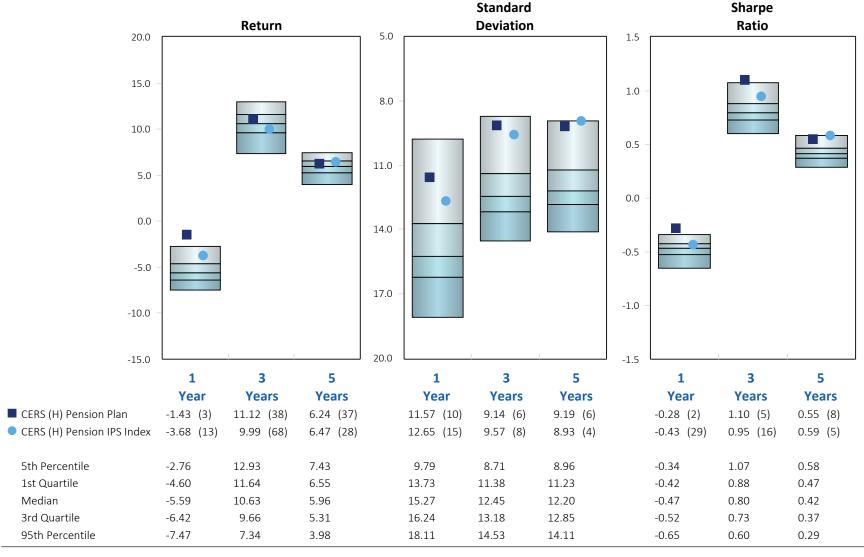
Plan Sponsor Peer Group Analysis - Multi Statistics

CERS Pension Plan vs All Public Plans-Total Fund Periods Ended March 31, 2023



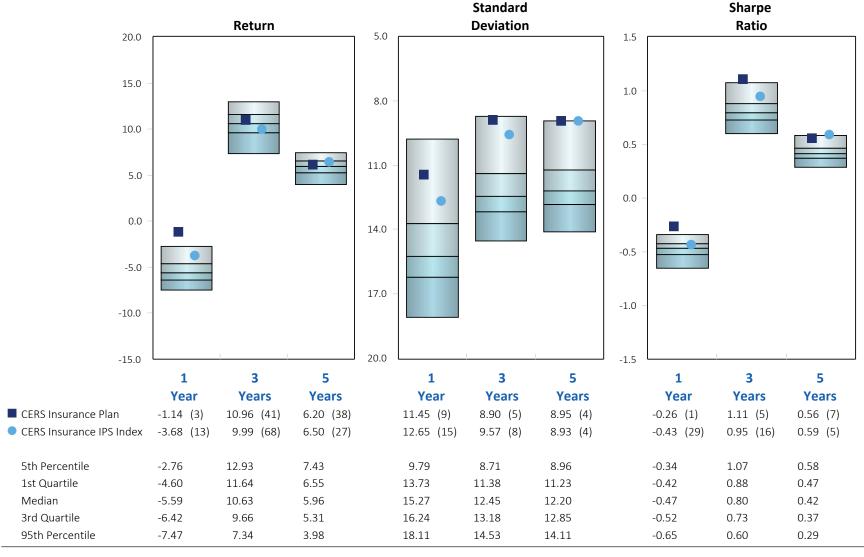
Plan Sponsor Peer Group Analysis - Multi Statistics

CERS (H) Pension Plan vs All Public Plans-Total Fund Periods Ended March 31, 2023



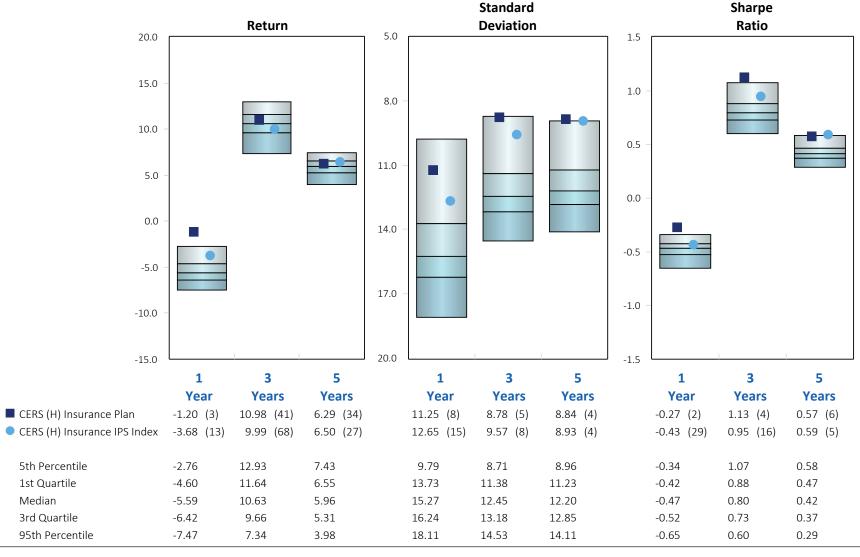
Plan Sponsor Peer Group Analysis - Multi Statistics

CERS Insurance Plan vs All Public Plans-Total Fund Periods Ended March 31, 2023



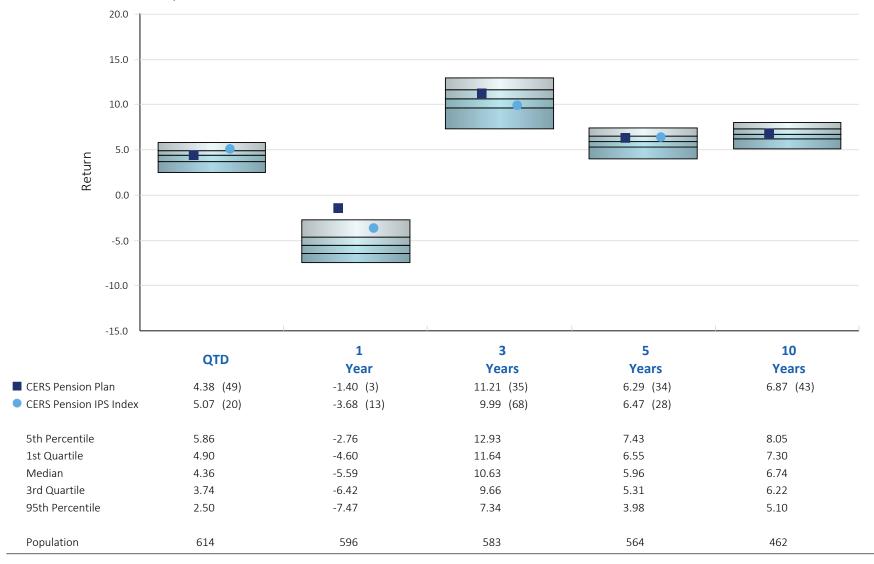
Plan Sponsor Peer Group Analysis - Multi Statistics

CERS (H) Insurance Plan vs All Public Plans-Total Fund Periods Ended March 31, 2023



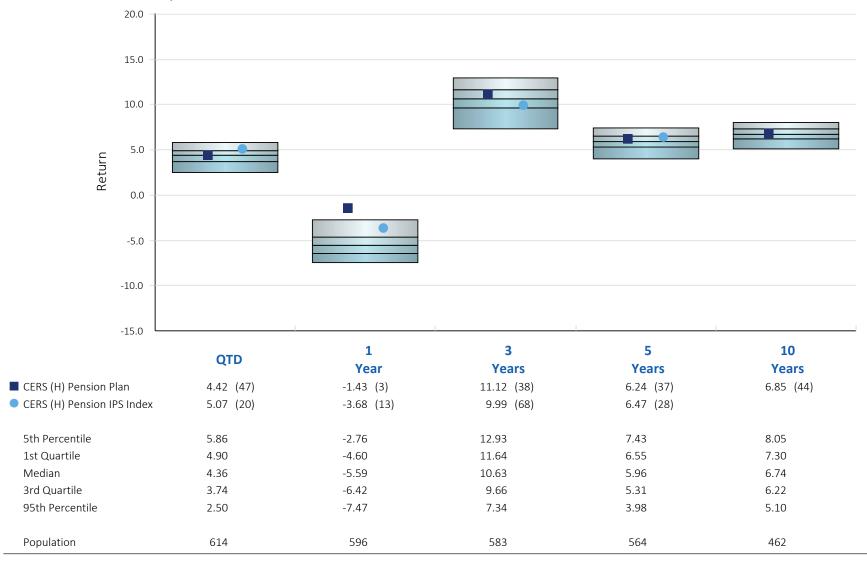
Plan Sponsor Peer Group Analysis

CERS Pension Plan vs All Public Plans-Total Fund Periods Ended March 31, 2023



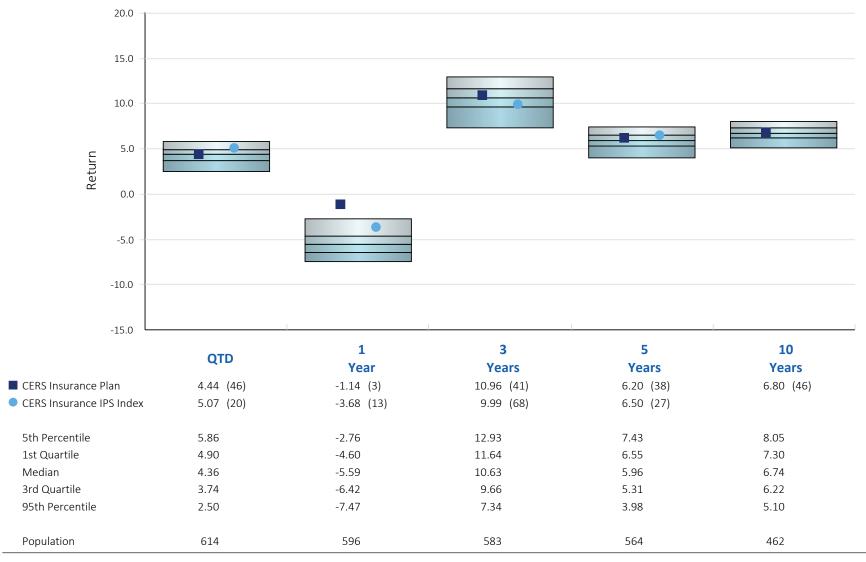
Plan Sponsor Peer Group Analysis

CERS (H) Pension Plan vs All Public Plans-Total Fund Periods Ended March 31, 2023



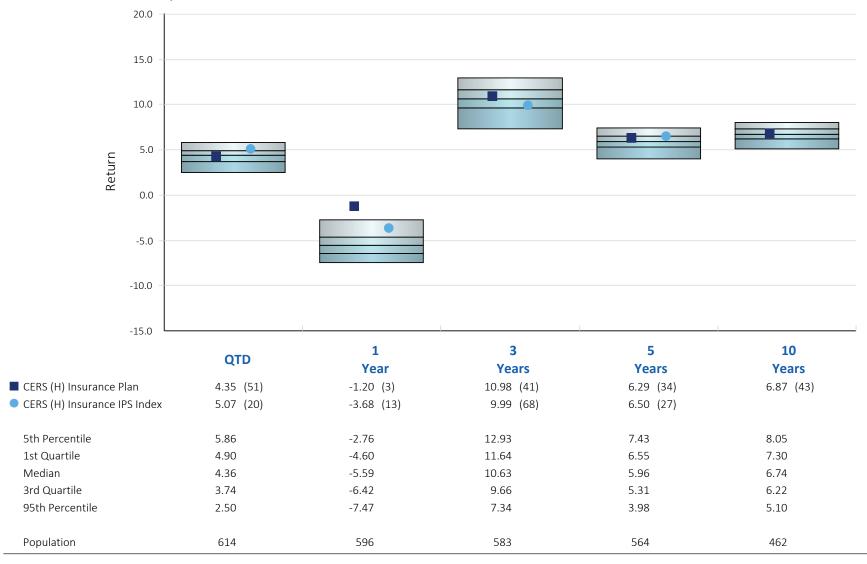
Plan Sponsor Peer Group Analysis

CERS Insurance Plan vs All Public Plans-Total Fund Periods Ended March 31, 2023



Plan Sponsor Peer Group Analysis

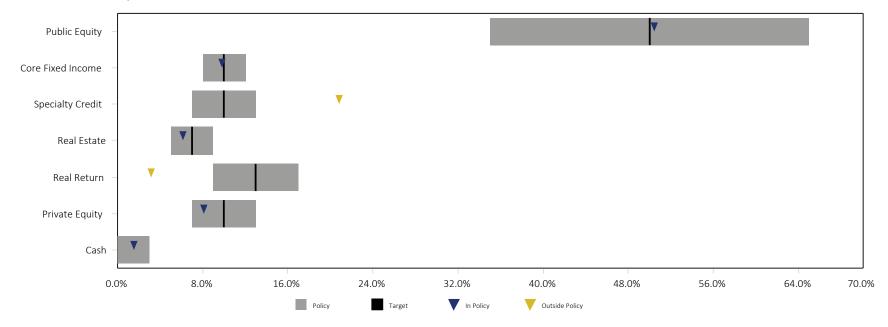
CERS (H) Insurance Plan vs All Public Plans-Total Fund Periods Ended March 31, 2023



Asset Allocation Compliance

CERS Pension Plan
Periods Ended As of March 31, 2023

Executive Summary

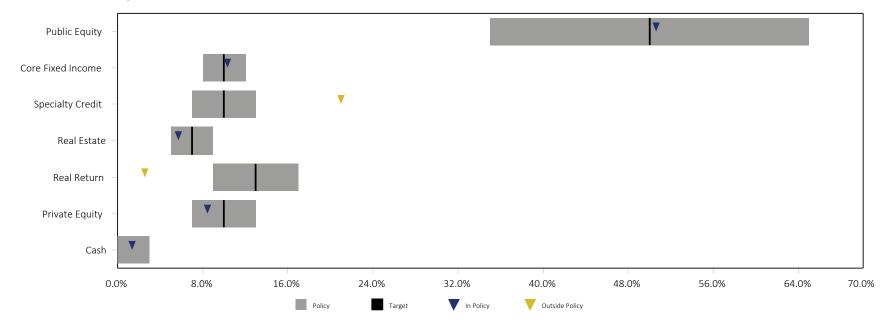


	Asset Allocation \$	Asset Allocation (%)	Minimum Allocation (%)	Maximum Allocation (%)	Target Allocation (%)	Target Rebalance \$
Public Equity	4,255,625,008	50.45	35.00	65.00	50.00	-37,955,786
Core Fixed Income	829,436,836	9.83	8.00	12.00	10.00	14,097,008
Specialty Credit	1,756,452,438	20.82	7.00	13.00	10.00	-912,918,594
Real Estate	519,206,007	6.16	5.00	9.00	7.00	71,267,684
Real Return	266,709,054	3.16	9.00	17.00	13.00	829,884,944
Private Equity	681,444,112	8.08	7.00	13.00	10.00	162,089,732
Cash	126,464,989	1.50	0.00	3.00	0.00	-126,464,989
Total Fund	8,435,338,444	100.00			100.00	

Asset Allocation Compliance

CERS Insurance Plan
Periods Ended As of March 31, 2023

Executive Summary

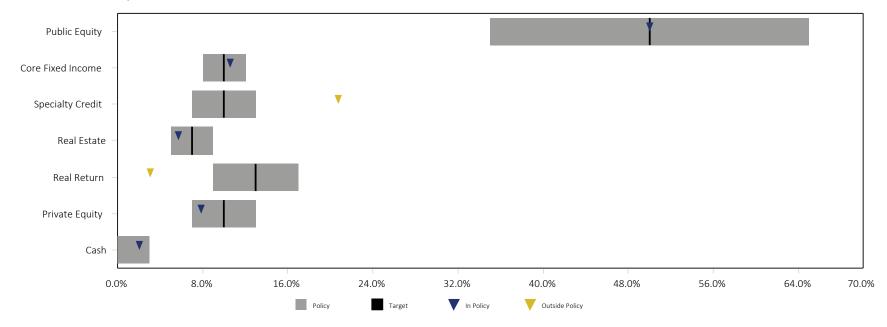


	Asset Allocation \$	Asset Allocation (%)	Minimum Allocation (%)	Maximum Allocation (%)	Target Allocation (%)	Target Rebalance \$
Public Equity	1,602,881,085	50.64	35.00	65.00	50.00	-20,165,621
Core Fixed Income	326,927,769	10.33	8.00	12.00	10.00	-10,384,676
Specialty Credit	664,135,066	20.98	7.00	13.00	10.00	-347,591,973
Real Estate	179,983,196	5.69	5.00	9.00	7.00	41,596,969
Real Return	80,435,848	2.54	9.00	17.00	13.00	331,070,173
Private Equity	267,459,623	8.45	7.00	13.00	10.00	49,083,470
Cash	43,608,341	1.38	0.00	3.00	0.00	-43,608,341
Total Fund	3,165,430,929	100.00			100.00	

Asset Allocation Compliance

CERS (H) Pension Plan
Periods Ended As of March 31, 2023

Executive Summary

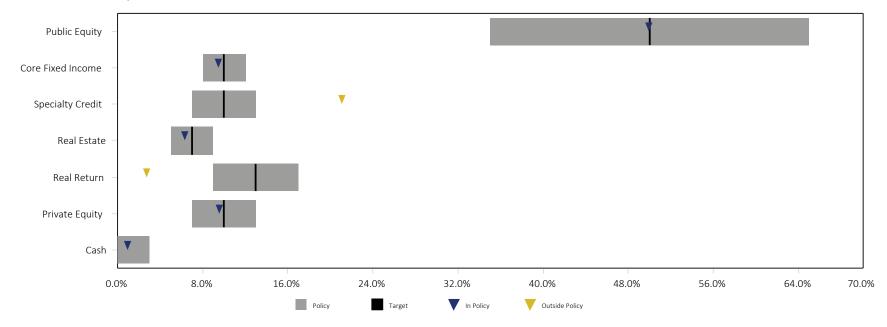


	Asset Allocation \$	Asset Allocation (%)	Minimum Allocation (%)	Maximum Allocation (%)	Target Allocation (%)	Target Rebalance \$
Public Equity	1,456,358,882	50.05	35.00	65.00	50.00	-1,310,798
Core Fixed Income	308,498,766	10.60	8.00	12.00	10.00	-17,489,150
Specialty Credit	604,239,498	20.76	7.00	13.00	10.00	-313,229,881
Real Estate	165,277,568	5.68	5.00	9.00	7.00	38,429,164
Real Return	88,443,554	3.04	9.00	17.00	13.00	289,868,948
Private Equity	227,674,605	7.82	7.00	13.00	10.00	63,335,011
Cash	59,603,294	2.05	0.00	3.00	0.00	-59,603,294
Total Fund	2,910,096,167	100.00			100.00	

Asset Allocation Compliance

CERS (H) Insurance Plan
Periods Ended As of March 31, 2023

Executive Summary



	Asset Allocation \$	Asset Allocation (%)	Minimum Allocation (%)	Maximum Allocation (%)	Target Allocation (%)	Target Rebalance \$
Public Equity	782,652,028	49.95	35.00	65.00	50.00	715,432
Core Fixed Income	148,029,698	9.45	8.00	12.00	10.00	8,643,794
Specialty Credit	329,700,998	21.04	7.00	13.00	10.00	-173,027,506
Real Estate	98,669,442	6.30	5.00	9.00	7.00	11,002,002
Real Return	43,041,663	2.75	9.00	17.00	13.00	160,633,876
Private Equity	150,445,413	9.60	7.00	13.00	10.00	6,228,079
Cash	14,195,677	0.91	0.00	3.00	0.00	-14,195,677
Total Fund	1,566,734,919	100.00			100.00	

Asset Allocation & Performance

Total Fund
Periods Ended March 31, 2023

	Market Value				P	erformance	(%) net of f	ees			
	\$	QTD	FYTD	1 Year	3 Years	5 Years	10 Years	20 Years	30 Years	Since Inception	Inception Date
CERS Pension Plan	8,435,338,444	4.38	6.72	-1.40	11.21	6.29	8.39	7.25	7.63	8.82	4/1/1984
CERS Pension IPS Index		5.07	5.39	-3.68	9.99	6.47					
 Value Added		-0.69	1.33	2.28	1.22	-0.18					
CERS Pension Attribution Index		4.38	6.64	-2.53	11.04						
Value Added		0.00	0.08	1.13	0.17						
Assumed Rate 6.25%		1.53	4.65	6.25	6.25	6.25					
Value Added		2.85	2.07	-7.65	4.96	0.04					
CERS Insurance Plan	3,165,430,929	4.44	6.87	-1.14	10.96	6.20	6.00	7.17	6.78	7.33	4/1/1987
CERS Insurance IPS Index		5.07	5.39	-3.68	9.99	6.50					' '
 Value Added		-0.63	1.48	2.54	0.97	-0.30					
CERS Insurance Attribution Index		4.49	6.87	-2.27	10.92						
Value Added		-0.05	0.00	1.13	0.04						
Assumed Rate 6.25%		1.53	4.65	6.25	6.25	6.25					
Value Added		2.91	2.22	-7.39	4.71	-0.05					
CERS (H) Pension Plan	2,910,096,167	4.42	6.80	-1.43	11.12	6.24	8.39	7.24	7.62	8.81	4/1/1984
CERS (H) Pension IPS Index		5.07	5.39	-3.68	9.99	6.47					
Value Added		-0.65	1.41	2.25	1.13	-0.23					
CERS (H) Pension Attribution Index		4.39	6.66	-2.55	11.03						
Value Added		0.03	0.14	1.12	0.09						
Assumed Rate 6.25%		1.53	4.65	6.25	6.25	6.25					
Value Added		2.89	2.15	-7.68	4.87	-0.01					

Asset Allocation & Performance

Total Fund
Periods Ended March 31, 2023

	Market Value				P	erformance	(%) net of f	ees			
	\$	QTD	FYTD	1 Year	3 Years	5 Years	10 Years	20 Years	30 Years	Since Inception	Inception Date
CERS (H) Insurance Plan	1,566,734,919	4.35	6.64	-1.20	10.98	6.29	6.00	7.21	6.80	7.34	4/1/1987
CERS (H) Insurance IPS Index		5.07	5.39	-3.68	9.99	6.50					
Value Added		-0.72	1.25	2.48	0.99	-0.21					
CERS (H) Insurance Attribution Index		4.48	6.82	-2.30	10.89						
Value Added		-0.13	-0.18	1.10	0.09						
Assumed Rate 6.25%		1.53	4.65	6.25	6.25	6.25					
Value Added		2.82	1.99	-7.45	4.73	0.04					

Asset Allocation & Performance

			Р	erformance	(%) net of f	ees		
	1	QTD	FYTD	1	3	5	Since	Inception
	Month	QID	1110	Year	Years	Years	Inception	Date
Public Equity	2.36	7.51	11.44	-6.10			-6.61	12/1/2021
Public Equity Policy Index	3.08	7.31	9.75	-7.44			-6.75	
Value Added	-0.72	0.20	1.69	1.34			0.14	
US Equity Composite	2.28	6.77	9.94	-7.93	18.89	10.13	9.74	7/1/1992
Russell 3000 Index	2.67	7.18	9.75	-8.58	18.48	10.45	9.93	
Value Added	-0.39	-0.41	0.19	0.65	0.41	-0.32	-0.19	
S&P 500 Index	3.62	7.44	10.00	-7.55	18.68	11.45	8.23	7/1/2001
S&P 500 Index	3.67	7.50	9.98	-7.73	18.60	11.19	7.81	
value added	-0.05	-0.06	0.02	0.18	0.08	0.26	0.42	
Scientific Beta	1.05	2.96	8.13	-6.22	17.42	8.32	9.56	7/1/2016
S&P 500 Index	3.67	7.50	9.98	-7.73	18.60	11.19	12.51	
Value Added	-2.62	-4.54	-1.85	1.51	-1.18	-2.87	-2.95	
River Road FAV	-0.18	0.66	5.39	-10.49	11.39	5.20	8.22	7/1/2016
Russell 3000 Value Index	-0.86	0.91	6.92	-6.35	18.12	7.30	8.58	
Value Added	0.68	-0.25	-1.53	-4.14	-6.73	-2.10	-0.36	
Westfield Capital	5.59	15.00	12.86	-10.56	17.67	13.21	13.04	7/1/2011
Russell 3000 Growth Index	6.25	13.85	12.56	-10.88	18.23	13.02	13.75	
Value Added	-0.66	1.15	0.30	0.32	-0.56	0.19	-0.71	
Internal US Mid Cap	-2.99	4.15	12.85	-4.43	22.57	8.32	9.39	8/1/2014
S&P MidCap 400 Index	-3.21	3.81	12.17	-5.12	22.10	7.67	8.96	
Value Added	0.22	0.34	0.68	0.69	0.47	0.65	0.43	
NTGI Structured	-4.54	2.81	8.49	-7.83	20.25	6.85	9.74	7/1/2011
Russell 2000 Index	-4.78	2.74	6.75	-11.61	17.51	4.71	8.31	
Value Added	0.24	0.07	1.74	3.78	2.74	2.14	1.43	

Asset Allocation & Performance

			P	erformance	(%) net of f	ees		
	1	QTD	EVED	1	3	5	Since	Inception
	Month	QID	FYTD	Year	Years	Years	Inception	Date
Next Century Growth	0.64	11.70	16.66	-11.33	37.69		26.40	11/1/2019
Russell Microcap Growth Index	-5.85	0.76	5.70	-17.98	10.87		4.16	
Value Added	6.49	10.94	10.96	6.65	26.82		22.24	
Non-US Equity Composite	2.48	8.53	13.51	-3.59	12.84	3.22	2.71	4/1/2000
MSCI ACWI ex US IMI (10/17)	2.13	6.56	9.85	-5.84	12.20	2.35	2.76	
Value Added	0.35	1.97	3.66	2.25	0.64	0.87	-0.05	
BlackRock World Ex US	2.24	8.04	14.14	-2.43	13.70	3.43	6.42	6/1/2012
MSCI World ex US (11/19)	2.22	8.02	13.96	-2.74	13.49	3.28	6.32	
value added	0.02	0.02	0.18	0.31	0.21	0.15	0.10	
American Century	3.10	9.48	14.83	-6.43	12.62	5.90	5.86	7/1/2014
MSCI ACWI ex US IMI (10/17)	2.13	6.56	9.85	-5.84	12.20	2.35	2.96	
Value Added	0.97	2.92	4.98	-0.59	0.42	3.55	2.90	
Franklin Templeton	3.46	12.24	16.62	-8.52	7.84	1.86	4.46	7/1/2014
MSCI ACWI ex US IMI (10/17)	2.13	6.56	9.85	-5.84	12.20	2.35	2.96	
Value Added	1.33	5.68	6.77	-2.68	-4.36	-0.49	1.50	
Lazard Asset Mgmt	3.09	8.97	12.08	-1.92	12.55	2.72	3.78	7/1/2014
MSCI ACWI ex US IMI (10/17)	2.13	6.56	9.85	-5.84	12.20	2.35	2.96	
Value Added	0.96	2.41	2.23	3.92	0.35	0.37	0.82	
LSV Asset Mgmt	1.33	7.06	13.90	-0.96	13.56	2.34	2.90	7/1/2014
MSCI ACWI ex US IMI (10/17)	2.13	6.56	9.85	-5.84	12.20	2.35	2.96	
Value Added	-0.80	0.50	4.05	4.88	1.36	-0.01	-0.06	
Axiom	1.39	7.62	8.59	-13.20			-19.14	12/1/2021
MSCI AC World ex USA Small Cap (Net)	0.23	4.70	8.70	-10.37			-9.66	
Value Added	1.16	2.92	-0.11	-2.83			-9.48	

Asset Allocation & Performance

Insurance Plan Accounts
Periods Ended March 31, 2023

			P	erformance	(%) net of f	ees		
	1	OTD	EVED	1	3	5	Since	Inception
	Month	QTD	FYTD	Year	Years	Years	Inception	Date
JP Morgan Emerging Markets	1.58	5.56	5.79	-7.25	9.85		1.68	11/1/2019
MSCI Emerging Markets IMI Index	2.79	4.01	1.88	-10.32	9.60		1.92	
Value Added	-1.21	1.55	3.91	3.07	0.25		-0.24	
Pzena Emerging Markets	3.12	7.13	12.29	0.74	18.98		6.33	11/1/2019
MSCI Emerging Markets (Net)	3.03	3.96	0.84	-10.70	7.83		0.81	
Value Added	0.09	3.17	11.45	11.44	11.15		5.52	
Private Equity Composite	2.11	2.07	-0.54	2.53	16.35	13.73	10.98	7/1/2002
Russell 3000 +3% 1 Quarter Lag	-5.62	7.98	-12.79	-16.78	10.28	12.05	11.43	
Value Added	7.73	-5.91	12.25	19.31	6.07	1.68	-0.45	
Core Fixed Income Composite	1.18	1.92	1.28	-1.08	1.26		2.20	10/1/2018
Blmbg. U.S. Aggregate Index	2.54	2.96	-0.09	-4.78	-2.77		1.04	
Value Added	-1.36	-1.04	1.37	3.70	4.03		1.16	
NISA	2.43	3.02	0.14	-4.48	-2.66	0.94	2.04	7/1/2011
Blmbg. U.S. Aggregate Index	2.54	2.96	-0.09	-4.78	-2.77	0.90	1.93	
Value Added	-0.11	0.06	0.23	0.30	0.11	0.04	0.11	
Loomis Sayles Intmd	2.03	2.45	0.27	-2.64	-1.21		0.98	2/1/2019
Blmbg. U.S. Intermediate Aggregate Index	2.15	2.39	0.15	-2.79	-1.96		0.51	
Value Added	-0.12	0.06	0.12	0.15	0.75		0.47	
Lord Abbett	0.74	1.59	1.71	-0.10	2.69		1.78	10/1/2018
ICE BofA 1-3 Year U.S. Corporate Index	0.88	1.29	1.36	0.33	0.96		1.63	
Value Added	-0.14	0.30	0.35	-0.43	1.73		0.15	
Specialty Credit Composite	1.51	2.74	5.27	3.57	7.40		5.47	10/1/2018
Specialty Credit Policy Index	0.52	3.41	7.31	-0.34	7.26		3.17	
Value Added	0.99	-0.67	-2.04	3.91	0.14		2.30	

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Asset Allocation & Performance

			P	erformance	(%) net of f	ees		
	1 Month	QTD	FYTD	1 Year	3 Years	5 Years	Since Inception	Inception Date
Adams St SPC II A	2.97	2.97	6.31	21.37			14.88	6/1/2020
Adams St SPC II B	2.04	2.04	6.26	3.09			9.55	6/1/2020
Blue Torch	3.92	3.92	10.52	13.78			10.15	8/1/2020
BSP Coinvestment	2.29	2.29	4.55	6.22	6.84		6.37	10/1/2019
Morningstar LSTA US Leveraged Loan	-0.03	3.23	7.33	2.54	8.52		3.57	
Value Added	2.32	-0.94	-2.78	3.68	-1.68		2.80	
BSP Private Credit	1.22	1.22	2.00	3.49	6.76	5.81	5.61	2/1/2018
Morningstar LSTA US Leveraged Loan	-0.03	3.23	7.33	2.54	8.52	3.63	3.61	
Value Added	1.25	-2.01	-5.33	0.95	-1.76	2.18	2.00	
CapitalSpring	8.17	8.17	9.10	11.40	10.84		10.24	2/1/202
Morningstar LSTA US Leveraged Loan	-0.03	3.23	7.33	2.54	8.52		3.21	
Value Added	8.20	4.94	1.77	8.86	2.32		7.03	
Cerberus Capital Mgmt	0.88	2.09	6.52	9.52	11.97	10.82	9.67	9/1/2014
Morningstar LSTA US Leveraged Loan	-0.03	3.23	7.33	2.54	8.52	3.63	3.70	
Value Added	0.91	-1.14	-0.81	6.98	3.45	7.19	5.97	
Columbia	1.53	3.96	8.18	-2.33	5.13	3.44	5.35	11/1/201:
Blmbg. U.S. Corp: High Yield Index	1.07	3.57	7.19	-3.34	5.91	3.21	5.22	
Value Added	0.46	0.39	0.99	1.01	-0.78	0.23	0.13	
Manulife Asset Mgmt	2.03	3.34	5.71	-1.93	4.13	3.07	3.66	12/1/201:
Policy Index	2.35	2.93	0.55	-4.61	-2.02	1.05	1.06	
Value Added	-0.32	0.41	5.16	2.68	6.15	2.02	2.60	
Marathon Bluegrass	1.52	1.26	-3.99	-3.83	4.04	4.38	5.57	1/1/2016
Blmbg. U.S. Corp: High Yield Index	1.07	3.57	7.19	-3.34	5.91	3.21	5.38	
Value Added	0.45	-2.31	-11.18	-0.49	-1.87	1.17	0.19	

Asset Allocation & Performance

			P	erformance	(%) net of f	ees		
	1 Month	QTD	FYTD	1 Year	3 Years	5 Years	Since Inception	Inception Date
Shenkman Capital	-0.02	2.81	6.90	2.21	7.93	3.40	3.79	7/1/201:
Morningstar LSTA US Leveraged Loan	-0.03	3.23	7.33	2.54	8.52	3.63	4.10	
Value Added	0.01	-0.42	-0.43	-0.33	-0.59	-0.23	-0.31	
Waterfall	1.42	2.66	5.68	3.99	9.10	4.60	7.91	7/1/201
Policy Index	0.61	3.11	6.06	-0.67	4.94	2.79	3.78	
Value Added	0.81	-0.45	-0.38	4.66	4.16	1.81	4.13	
White Oak Yield Spectrum	0.96	0.96	3.45	5.08	5.37	5.38	5.29	3/1/201
Morningstar LSTA US Leveraged Loan	-0.03	3.23	7.33	2.54	8.52	3.63	3.63	
Value Added	0.99	-2.27	-3.88	2.54	-3.15	1.75	1.66	
Arrowmark	1.22	3.76	9.41	10.90	15.44		9.54	6/1/201
Morningstar LSTA US Leveraged Loan	-0.03	3.23	7.33	2.54	8.52		3.64	
Value Added	1.25	0.53	2.08	8.36	6.92		5.90	
H/2 Credit Partner	0.00	0.00	0.00	0.00	3.02	1.27	4.07	7/1/201
Mesa West Core Lend	-1.04	-1.04	1.79	2.99	4.55	5.77	6.05	5/1/201
Mesa West IV	-1.02	-1.02	-2.66	-1.82	5.23	6.05	5.40	3/1/201
Cash Composite	0.32	0.89	2.29	2.48	0.92	1.39	2.46	7/1/199
FTSE 3 Month T-Bill	0.40	1.12	2.46	2.61	0.95	1.40	2.33	
Value Added	-0.08	-0.23	-0.17	-0.13	-0.03	-0.01	0.13	

Asset Allocation & Performance

			Р	erformance	(%) net of f	ees		
	1	QTD	FYTD	1	3	5	Since	Inception
	Month	QID	1110	Year	Years	Years	Inception	Date
Real Estate Composite	-1.71	-4.34	-0.69	5.95	11.71	10.96	9.74	5/1/2009
NCREIF ODCE NOF 1 Quarter Lag	-5.17	-5.17	-0.55	6.55	8.97	7.72		
Value Added	3.46	0.83	-0.14	-0.60	2.74	3.24		
Baring	-9.15	-9.71	-11.09	-1.43	8.74		14.87	1/1/2019
Barings Euro RE II	-16.44	-16.97	-17.91	-23.65			-20.25	12/1/2020
Divcowest IV	-4.29	-4.29	-4.48	-3.43	10.86	12.62	17.46	3/1/2014
Fundamental Partners III	3.79	3.79	3.60	7.95	18.62	15.91	14.24	5/1/2017
Greenfield Acq VI	-20.30	-20.30	-32.21	-33.17	-38.60	-39.62	-18.48	12/1/2012
Greenfield Acq VII	-13.99	-13.99	-2.67	-1.12	14.17	14.69	13.71	7/1/2014
Harrison Street	-0.44	-1.03	7.34	10.10	7.67	7.50	7.95	5/1/2012
Lubert Adler VII	-8.73	-8.73	-8.56	-4.07	-5.77	-0.23	-1.56	7/1/2014
Lubert Adler VII B	7.57	7.57	13.15	19.79	26.24	20.00	16.22	7/1/2017
Patron Capital	-0.79	-1.45	-5.79	-8.51	4.17	5.76	3.77	8/1/2016
Prologis Targeted US	0.00	-5.58	-0.05	11.88	22.25	20.04	17.89	10/1/2014
Rubenstein PF II	-17.50	-17.50	-26.59	-26.43	-10.91	-3.87	4.32	7/1/2013
Stockbridge Sm/Mkts	-2.05	-6.24	-5.64	6.95	10.64	9.37	9.37	5/1/2014
Walton St RE VI	5.25	5.25	11.62	14.32	6.66	4.80	-11.06	5/1/2009
Walton St RE VII	-0.40	-0.40	3.53	1.96	-1.40	-1.23	5.69	7/1/2013

Asset Allocation & Performance

10131, 2023			P	erformance	(%) net of f	ees		
	1	QTD	FYTD	1	3	5	Since	Inception
	Month	QID	1110	Year	Years	Years	Inception	Date
Real Return Composite	0.56	1.53	8.06	7.08	13.05	5.70	4.45	7/1/2011
US CPI +3%	0.30	1.69	4.70	8.14	8.51	6.99	5.61	
Value Added	0.26	-0.16	3.36	-1.06	4.54	-1.29	-1.16	
Tortoise Capital	-0.98	3.21	23.38	11.23	39.34	7.39	9.42	8/1/2009
Alerian MLP Index	-1.18	4.09	23.84	14.70	47.08	7.42	6.71	
Value Added	0.20	-0.88	-0.46	-3.47	-7.74	-0.03	2.71	
Amerra AGRI Fund II	-1.45	-1.45	7.36	12.08	8.52	7.92	6.22	12/1/2012
Amerra AGRI Holdings	3.55	3.55	-0.26	2.59	-1.33	-1.23	-1.17	8/1/2015
BTG Pactual	0.85	0.85	7.56	23.30	6.22	4.12	-1.84	12/1/2014
IFM Infrastructure	2.02	3.82	6.20	7.21	5.48		5.02	7/1/2019
Magnetar MTP EOF II	-2.12	-2.12	5.68	135.62	68.73	40.48	25.61	8/1/2015
Oberland Capital	3.34	3.34	7.79	9.92	15.32		13.85	8/1/2018
Taurus Mine Finance	3.21	3.21	31.17	70.20	19.38	16.31	15.54	4/1/2015
TPF II	-4.22	-4.22	-6.85	-6.92	3.89	4.87	-0.81	10/1/2008
Blackstone Strat Opp	0.35	0.11	-2.50	-0.25	-4.25	-3.08	-1.96	8/1/2017
Luxor Capital	-0.04	-0.08	3.25	3.99	1.64	-1.21	-0.03	4/1/2014
Myriad Opportunities	0.00	-0.30	-7.59	-7.95	-22.89	-16.00	-9.23	5/1/2016
Pine River	1.31	-7.43	-3.84	-16.63	-4.81	2.76	1.65	5/1/2014
PRISMA Capital	0.34	0.98	0.39	0.45	0.02	0.43	2.41	9/1/2011
SRS Partners US	0.00	0.00	0.00	0.00	4.37	6.19	7.94	8/1/2017
Tricadia Select	0.00	0.00	0.00	0.00	0.00	-4.33	-4.48	9/1/2017

County Employees Retirement Systems

Investment Budget Update

Quarter Ending: March 31, 2023

KENTUCKY PUBLIC PENSIONS AUTHORITY

Investment Budget

For the nine month period ending March 31, 2023

Account Name	FY 2019	FY 2020	FY 2021	FY 2022	Trust Budget FY 2023	Q3 2023	FYTD 2023	Remaining	Percentage Spent
CONSULTING SERVICES									
Wilshire Associates	\$ 1,021,799	\$ 1,238,170	\$ 1,225,671	\$ 1,021,175	\$ 1,190,000	\$ 274,600	\$ 563,572	\$ 626,428	47%
Albourne	-	1	ı	-	270,000	67,500	239,250	30,750	89%
MercerInsight	-	-	ı	-	160,000			160,000	0%
SUBTOTAL	1,021,799	1,238,170	1,225,671	1,021,175	1,620,000	342,100	802,822	817,178	50%
LEGAL & AUDITING SERVICES									
Faegre Drinker			96,039	202,502	375,000	6,897	15,618	359,382	4%
Intelligent Management Solutions (IMS)	620,001	202,140	155,700	69,884	75,000	8,022	81,880	(6,880)	109%
McClain/Goldberg			891	-	25,000			25,000	0%
Reinhart	317,909	671,269	663,689	619,509	437,500	8,614	65,682	371,818	15%
Stoll-Keenon-Ogden	10,314	135,353	254,211	463,560	250,000	6,045	356,453	(106,453)	143%
Haystack				-	140,000	55,892	55,892	84,108	40%
Umberg Zipser			289,100	498,058	360,000	94,880	242,564	117,436	67%
Frost Brown Todd			-	-	50,000			50,000	0%
Swansburg & Smith	-	-		-		1,013	5,288	(5,288)	
Eddins Domine	-	1	•	-	-	26,482	40,305	(40,305)	
Taft	-	-		-		=	66,916	(66,916)	
Miscellaneous				-	200,000			200,000	0%
SUBTOTAL	948,225	1,008,762	1,459,630	1,853,513	1,912,500	207,843	930,597	981,903	49%
CONTRACTURAL SERVICES									
Bloomberg	68,722	71,810	98,163	102,243	150,000	26,105	77,530	72,470	52%
BNYM Custodial Fees	2,056,390	2,088,475	2,379,838	2,565,169	4,000,000	554,497	1,684,683	2,315,317	42%
eVestment (Solovis RMS)			-	30,000	35,000		33,800	1,200	97%
Solovis (Reporting & Analytics)				245,000	265,000		257,250	7,750	97%
FactSet	222,476	162,295	109,662	140,098	150,000	31,657	93,754	56,246	63%
Russell Index Subscription	1,075	1,250	1,000	1,000	1,500	250	500	1,000	33%
S&P Global		94,500	26,250	68,250	75,000			75,000	0%
TradeWeb			-	6,000	7,500	2,000	5,600	1,900	75%
State Street/Elkins McSherry	10,000	5,000	15,000	10,000	10,000	5,000	10,000	-	100%
ISS	32,050	32,050	28,288	35,813	37,000	15,838	31,863	5,138	86%
MSCI	1,000	1,000	1,000	1,000	1,000		1,000	-	100%
KPMG Tax Guarantor Services		7,606	22,050	7,350	7,500			7,500	0%
Jayant Ghevaria and CO		10,050	-	52,085	55,000			55,000	0%
India Renewal Fee (SEBI)			-	3,000	3,000			3,000	0%
With Intelligence	-	-	-	-			9,520	(9,520)	0%
Miscellaneous & New Services	-	-	-	-	250,000			250,000	0%
SUBTOTAL	2,391,713	2,474,036	2,681,251	3,267,008	5,047,500	635,346	2,205,499	2,842,001	44%

KENTUCKY PUBLIC PENSIONS AUTHORITY Investment Budget For the nine month period ending March 31, 2023

	Tot the fille month period ending watch 31, 2023								
Account Name	FY 2019	FY 2020	FY 2021	FY 2022	Trust Budget FY 2023	Q3 2023	FYTD 2023	Remaining	Percentage Spent
INACTIVE CONTRACTURAL SERVICES									
Dean Dorton	9,719		-	-	-		250	(250)	
Hirschler		4,794	-	-					
INFORMA	12,904		-	-	-				
Lighthouse Solutions	3,093		-	-					
London Stock Exchange GBP (GREAT BRITISH POUNDS)		3,544	-	-	-				
Deutsche Bank Trust	3,000		3,000	-					
Morris James LLP	94,192	20,154	-	-	-				
Calcaterra Pollack			1,200,000	-					
Manatt		90,798	30,757	-	-				
ORG	162,344		-	-	-				
SUBTOTAL	291,718	119,290	1,233,757	-	-	-	250	(250)	
TOTAL	\$ 4,653,455	\$ 4,840,258	\$ 6,600,309	\$ 6,141,696	\$ 8,580,000	\$ 1,185,289	\$ 3,939,169	\$ 4,640,831	46%

INVESTMENT BUDGET

CONSULTING SERVICES	
Wilshire Associates	General Investment Consultanting Services, Manager Research and Due Dilligence, Reporting, Asset Allocation
Albourne	Investment Consultant Research database - Private Markets Manager Research, Private Markets Research, Pension Markets Research
MercerInsight	Investment Consultant Research database - Public Markets Manager Research, Public Markets Research, Pension Markets Research
LEGAL & AUDITING SERVICES	
Faegre Drinker	Delaware litigation counsel
Intelligent Management Solutions (IMS)	IMS is an expert witness in the Bay Hills case.
McClain/Goldberg	Blackstone litigation counsel for the Trustees and Officers
Reinhart	Bay Hills counsel and investment counsel for contract negotiations
Stoll-Keenon-Ogden	Mayberry counsel
Haystack	Conduct Mayberry eDiscovery
Umberg Zipser	PAAMCO-Prisma (California litigation)
Frost Brown Todd	Currently has no investment-related cases
Swansburg & Smith	Reimbursement of Fiduciary Legal Expenses (KKR)
Eddins Domine	Reimbursement of Fiduciary Legal Expenses (KKR)
Taft	Reimbursement of Fiduciary Legal Expenses (Calcaterra Pollack)
CONTRACTURAL SERVICES	
Bloomberg	Bloomberg Professional Services, Data Analytics and Tools, Market Information and News, Research Portal
BNYM Custodial Fees	Full Service Custodial Services, Investment Accounting, Investment Operations, Transaction Services, Performance and Attribution, Reporting
eVestment (Solovis RMS)	Research Management Program organizing internal and exteranl research
Solovis (Reporting & Analytics)	Portfolio and Risk Analytics, Perfromance Measurement and Attribution, Reporting
FactSet	Workstation and Quant/Risk Applications for managing Public Equity Portfolios
Russell Index Subscription	Access to Russell Indexes for Portfolio Management, Reporting and Performance
S&P Global	Data on the S & P US Index / License to 10,000 Identifiers for Portfolio Management, Reporting and Performance
TradeWeb	Electronic Trading Platform for Internal Management
State Street/Elkins McSherry	Public Equity Trade Cost Analysis
ISS	Portfolio Monitoring and Proxy Voting Services
MSCI	International Public Equity Data Package
KPMG Tax Guarantor Services	Tax Accounting Services - Taiwan
Jayant Ghevaria and CO	Tax Accounting Services - India
India Renewal Fee (SEBI)	Registration of India Local Market Accounts

KENTUCKY PUBLIC PENSIONS AUTHORITY

Investment Fees and Expenses

For the nine month period ending March 31, 2023

Pension

2023 2022 2021								
	2023 2022							
	FYTD Fees	Market Value	FYTD Fees	Market Value	FYTD Fees	Market Value		
Core Fixed Income	1,961,961	2,021,010,684	2,153,340	2,131,886,569	2,031,618	2,263,311,450		
Investment Advisory Fees	1,081,599		1,773,298		1,902,240			
Carried Interest	313,985		327,140		81,121			
Miscellaneous Fees and Expenses	566,378		52,902		48,257			
Opportunistic					2,727,633	375,449,617		
Investment Advisory Fees	Onnortun	istic was absorbed by S	`nocialty Crodit in Doc	combox 2021	=			
Carried Interest	Оррогия	istic was absorbed by s	pecially Credit in Dec	ember 2021	2,727,633			
Miscellaneous Fees and Expenses					=			
Public Equity	9,871,250	7,364,652,759	10,884,478	6,939,548,432	9,171,752	6,619,150,686		
Investment Advisory Fees	9,712,159		10,658,036		8,995,110			
Miscellaneous Fees and Expenses	159,091		226,442		176,642			
Specialty Credit Fixed Income	41,248,671	3,253,455,667	37,495,009	3,117,337,032	26,547,242	2,546,489,496		
Investment Advisory Fees	18,151,509		12,988,501		11,228,203			
Carried Interest	5,190,755		18,829,074		12,519,342			
Miscellaneous Fees and Expenses	17,906,407		5,677,434		2,799,697			
Real Estate	4,469,109	929,393,252	25,637,587	844,241,655	5,303,814	589,400,002		
Investment Advisory Fees	3,627,098		3,454,869		3,254,551			
Carried Interest	42,187		20,336,478		(907,044)			
Miscellaneous Fees and Expenses	799,825		1,846,240		2,956,307			
Real Return	3,159,066	460,465,548	3,848,329	568,603,601	6,282,116	1,011,388,853		
Investment Advisory Fees	1,799,568		2,738,748		3,527,345			
Carried Interest	473,651		1,049,935		2,329,614			
Miscellaneous Fees and Expenses	885,848		59,646		425,157			
Private Equity	1,735,503	1,143,005,497	52,650,593	1,303,761,398	34,414,531	1,155,001,941		
Investment Advisory Fees	5,111,920		5,375,037		6,202,846			
Carried Interest	(5,910,958)		44,069,198		26,932,151			
Miscellaneous Fees and Expenses	2,534,541		3,206,358		1,279,534			
Administrative Expense/Cash	2,349,103	980,437,717	3,087,180	1,088,261,843	1,932,601	285,262,649		
Total Investment Mgmt Fees	64,794,664	16,152,421,124	135,756,516	15,993,640,530	88,411,307	14,845,454,694		

KENTUCKY PUBLIC PENSIONS AUTHORITY

Investment Fees and Expenses

For the nine month period ending March 31, 2023

Insurance

	2	2023	2	022	2021		
	FYTD Fees	Market Value	FYTD Fees	Market Value	FYTD Fees	Market Value	
Core Fixed Income	737,251	738,513,799	810,054	802,476,521	813,678	864,872,800	
Investment Advisory Fees	612,135		673,659		766,735		
Performance	112,040		117,337		28,448		
Miscellaneous Fees and Expenses	13,075		19,058		18,495		
Opportunistic					1,388,928	191,181,257	
Investment Advisory Fees	Ommonton	aiatiaaa ahaauhad h (manimite. Cuadit in Da	haw 2021			
Carried Interest	Opportui	nistic was absorbed by S	pecialty Creatt in Dec	cember 2021	1,388,928		
Miscellaneous Fees and Expenses							
Public Equity	4,563,134	3,377,277,074	4,821,293	3,215,837,276	4,102,906	2,988,294,144	
Investment Advisory Fees	4,490,997		4,743,902		4,026,883		
Miscellaneous Fees and Expenses	72,137		77,391		76,023		
Specialty Credit Fixed Income	18,849,336	1,464,234,371	16,639,635	1,409,325,113	11,135,696	1,134,227,766	
Investment Advisory Fees	8,360,965		5,791,524		5,087,579		
Carried Interest	2,645,586		8,397,118		4,960,086		
Miscellaneous Fees and Expenses	7,842,785		2,450,993		1,088,031		
Real Estate	2,029,870	392,477,821	10,607,357	356,747,650	2,331,407	249,384,483	
Investment Advisory Fees	1,515,332		1,501,018		1,408,641		
Carried Interest	171,381		8,302,981		(290,973)		
Miscellaneous Fees and Expenses	343,157		803,358		1,213,739		
Real Return	1,402,993	177,947,842	1,672,090	219,995,987	2,465,100	427,472,422	
Investment Advisory Fees	801,226		1,221,294		1,508,890		
Carried Interest	196,724		415,727		(139,583)		
Miscellaneous Fees and Expenses	405,042		35,069		1,095,793		
Private Equity	2,034,850	584,914,353	32,266,953	621,666,942	22,861,402	561,073,081	
Investment Advisory Fees	3,350,796		3,739,853		4,149,597		
Carried Interest	(2,539,096)		27,332,502		18,202,847		
Miscellaneous Fees and Expenses	1,223,150		1,194,598		508,958		
Administrative Expense/Cash	1,225,286	236,662,657	1,564,044	505,485,795	1,219,907	140,405,157	
Total Investment Mgmt Fees	\$ 30,842,720	\$ 6,972,027,917	\$ 68,381,426	\$ 7,131,535,284	\$ 46,319,024	\$ 6,556,911,110	

COUNTY EMPLOYEES RETIREMENT SYSTEMS										
Investment Management Fees and Expenses										
For the nine month period ending March 31, 2023										
Pension										
	CERS CERS Hazardous									
	FYTD Fees	Market Value	FYTD Fees	Market Value						
Core Fixed Income	837,296	829,436,836	297,165	308,498,766						
Investment Advisory Fees	682,761	5_5,155,655	244,484	,,						
Carried Interest	133,163		47,683							
Miscellaneous Fees and Expenses	21,371		4,997							
Public Equity	5,688,187	4,255,625,007	1,938,476	1,456,358,882						
Investment Advisory Fees	5,597,041	, , ,	1,907,299	, , ,						
Miscellaneous Fees and Expenses	91,146		31,177							
Specialty Credit Fixed Income	23,143,111	1,756,452,442	7,775,019	604,239,498						
Investment Advisory Fees	10,123,388		3,402,513							
Carried Interest	2,988,946		998,896							
Miscellaneous Fees and Expenses	10,030,777		3,373,610							
Real Estate	2,571,595	519,206,007	808,746	165,277,568						
Investment Advisory Fees	2,089,802		656,584							
Carried Interest	23,816		7,529							
Miscellaneous Fees and Expenses	457,976		144,633							
Real Return	2,075,706	266,709,054	668,012	88,443,554						
Investment Advisory Fees	1,155,107		374,716							
Carried Interest	329,411		103,676							
Miscellaneous Fees and Expenses	591,188		189,620							
Private Equity	1,901,916	681,444,112	392,540	227,674,605						
Investment Advisory Fees	3,336,408		1,109,929							
Carried Interest	(3,016,857)		(1,241,944)							
Miscellaneous Fees and Expenses	1,582,365		524,554							
Administrative Expenses/Cash	1,229,799	126,464,989	421,999	59,603,294						

8,435,338,447

12,301,957

2,910,096,167

37,447,610

Total Investment Mgmt Fees

COUNTY EMPLOYEES RETIREMENT SYSTEMS

Investment Management Fees and Expenses

For the nine month period ending March 31, 2023

Insurance

		CERS	CERS Hazardous			
	FYTD Fees	Market Value	FYTD Fees	Market Value		
Core Fixed Income	331,270	326,927,769	156,909	148,029,697		
Investment Advisory Fees	275,651		129,067			
Carried Interest	49,806		24,933			
Miscellaneous Fees and Expenses	5,813		2,910			
Public Equity	2,100,984	1,602,881,085	1,041,448	782,652,028		
Investment Advisory Fees	2,067,154		1,024,952			
Miscellaneous Fees and Expenses	33,829		16,496			
Specialty Credit Fixed Income	8,509,439	664,135,072	4,491,804	329,701,001		
Investment Advisory Fees	3,773,401		1,972,641			
Carried Interest	1,189,525		637,231			
Miscellaneous Fees and Expenses	3,546,513		1,881,932			
Real Estate	931,173	179,983,196	509,804	98,669,442		
Investment Advisory Fees	695,905		380,751			
Carried Interest	77,634		42,610			
Miscellaneous Fees and Expenses	157,634		86,443			
Real Return	629,460	80,435,848	342,416	43,041,663		
Investment Advisory Fees	361,963		196,226			
Carried Interest	82,251		45,255			
Miscellaneous Fees and Expenses	185,246		100,935			
Private Equity	413,549	267,459,623	164,992	150,445,413		
Investment Advisory Fees	1,622,618		907,730			
Carried Interest	(1,720,853)		(1,022,814)			
Miscellaneous Fees and Expenses	511,784		280,076			
Administrative Expenses/Cash	549,761	43,608,341	272,262	14,195,677		
Total Investment Mgmt Fees	\$ 13,465,636	\$ 3,165,430,934	\$ 6,979,634	\$ 1,566,734,921		

County Employees Retirement Systems

Compliance Report

Quarter Ending: March 31, 2023



Compliance Guideline Review for the Period Ended March 31, 2023	Compliance Status
Total assets assigned to the selected manager shall not exceed 25% of that firm's total assets under management and shall not exceed 25% of a firm's total assets under management in a commingled product.	•
The assets managed by any one active or passive investment manager shall not exceed 15% of the overall assets in the pension and insurance funds.	
No more than 20% of the total net assets of the Real Return portfolio may be invested in any single closed-end or open-end limited partnership or other unregistered investment vehicle.	
Securities issued by the state of Kentucky, its subsidiaries, or affiliates are prohibited.	•
An investment in any single domestic or international equity allocation in any single corporation cannot exceed 5% of the market value of CERS' total assets.	
The systems in aggregate shall not hold in excess of 3% of the outstanding shares of any single corporation.	•



The amount of stock in any one industry in the domestic equity allocation shall not exceed 10% of the aggregate market value of the System's assets.	•
Investment in "frontier" markets shall not exceed 5% of the System's international equity assets.	•
The duration of the total fixed income portfolio shall not deviate from the Fixed Income Index by more than 25%.	•
The duration of the TIPS portfolio shall not deviate from the Barclay's TIPS Index by more than 10%.	•
The amount invested in the debt of a single corporation shall not exceed 5% of the total market value of the System's Assets.	•
50% of the fixed income assets must have liquidity that is T+3 (trade date plus three days) or better.	•
No public fixed income manager shall invest more than 5% of the total market value of assets held in any single issue, short-term instruments, with the exception of U.S. Government issued, guaranteed or agency obligations.	•
No more than 50% of the total net assets of the Real Return portfolio may be invested in any one registered investment vehicle, mutual fund, or separately managed account.	•
The maximum investment in any co-investment vehicle shall not exceed 50 percent of the total capital committed by all partners at the time of the final closing. The maximum investment in any single direct co-investment shall not exceed 20 percent of the original partnership commitment. Total investment in direct co-investments shall not exceed 20 percent of the asset class portfolio on a cost basis at the time of investment.	•

For those open-end funds where assets can be added or subtracted, the CIO will have discretion to reduce or increase an investment manager's allocation between 50% and 150% of the approved target. The target will not be raised prior to the one-year anniversary of the amount approved by the CERS Investment Committee, and must be reported to the CERS Investment Committee at the next scheduled meeting.

The CERS Board is aware that from time to time the investment manager will require a portion of the allocated funds to be held in cash provided the cash holdings do not exceed five percent (5%) of the manager's allocation for any given quarter. unless such cash holdings are an integral part of a fixed income manager's investment strategy.

The KPPA Investment Staff may passively manage up to twenty (20%) percent of the overall portfolio dedicated to these efficient markets. Beyond this level the CIO shall seek the approval of the Investment Committee by e,xplaining how further passive management would help achieve the overall portfolio objectives.

Kentucky Public Pensions Authority CERS & CERS-Hazardous Unit Holdings

Quarter Ending: March 31, 2023

Kentucky Public Pensions Authority Pension: CERS & CERS-H Unit Holdings Quarter Ended March 31, 2023

UNIT OF PARTICIPATION	C	ERS	CERS-H			
ONIT OF PARTICIPATION	Shares/Par	Base Market Value	Shares/Par	Base Market Value		
Grand Total	44,997,491.576	8,410,658,913.83	15,690,028.799	2,901,707,333.45		
KRS ABSOLUTE RETURN UNIT	465,636.034	56,887,794.04	147,496.741	18,020,006.21		
KRS ADAMS STREET A1 UNIT	527,051.575	77,739,914.94	177,715.752	26,213,008.55		
KRS ADAMS STREET B1 UNIT	597,810.536	76,896,655.00	201,574.864	25,928,671.11		
KRS AMERRA AGRI UNIT	308,823.485	28,238,240.73	97,505.679	8,915,736.56		
KRS AMERRA UNIT	83,187.980	15,957,225.64	26,265.165	5,038,217.83		
KRS ARROWMARK UNIT	1,387,072.461	284,673,755.34	458,544.662	94,108,732.31		
KRS BLACKROCK UNIT	3,173,089.335	518,163,492.53	1,098,793.478	179,432,283.82		
KRS BLUE TORCH UNIT	482,295.226	73,440,689.50	162,844.338	24,796,846.04		
KRS BNYM CUSTODY FEE UNIT	-300,822.296	-300,822.30	-103,486.954	-103,486.95		
KRS BTG UNIT	199,420.716	17,480,831.89	63,908.686	5,602,111.05		
KRS CASH UNIT	1,285,920.027	126,828,697.72	605,594.657	59,729,050.08		
KRS DB PRIVATE EQ UNIT	15,210.721	4,940,319.52	4,379.059	1,422,283.05		
KRS DIVCOWEST IV UNIT	1,567.757	821,181.13	488.528	255,887.86		
KRS DOMESTIC EQUITY UNIT	2,851,992.818	717,515,872.35	977,146.542	245,834,473.73		
KRS GLOBAL FIXED UNIT	1,294,425.036	172,426,641.46	505,331.284	67,313,729.03		
KRS GREENFIELD UNIT	3,105.533	39,540.80	967.716	12,321.32		
KRS GREENFIELD VII UNIT	6,027.951	2,004,940.54	1,878.371	624,759.92		
KRS HARRISON UNIT	639,390.832	145,718,923.82	199,992.765	45,578,899.52		
KRS IFM INFRAST DEBT UNIT	267,825.438	39,331,462.92	92,231.578	13,544,654.00		
KRS INTERNAL EQUITY UNIT	5,811,688.662	1,739,323,624.06	1,984,188.228	593,828,344.95		
KRS INTERNATIONAL EQUITY UNIT	7,499,542.445	1,271,894,545.37	2,560,431.731	434,239,712.13		
KRS L-A VII UNIT	152,636.219	13,331,147.70	47,573.514	4,155,039.65		
KRS LIQUID CORE FIXED UNIT	6,621,148.248	829,977,929.37	2,462,654.151	308,700,019.46		
KRS LIQUID CREDIT FIXED UNIT	44,070.529	3.35	13,249.620	1.01		
KRS LIQUID HY FI UNIT	1,172,349.190	182,732,823.21	460,040.256	71,705,986.14		
KRS MAGNETAR MTP UNIT	319.749	165,972.80	101.107	52,481.83		
KRS MESA WEST CORE UNIT	205,495.934	37,532,720.82	64,772.004	11,830,256.18		
KRS MESA WEST IV UNIT	105,087.787	10,187,188.00	33,229.849	3,221,294.58		
KRS MULTI SECTOR CREDIT FI	1,492,072.539	240,411,700.81	490,250.072	78,992,039.96		
KRS OBERLAND UNIT	54,294.957	3,946,364.01	16,950.611	1,232,034.89		
KRS PE 2010 UNIT	548,109.444	164,189,506.04	170,621.980	51,110,848.25		
KRS PE 2011 UNIT	175,778.072	53,908,110.60	84,989.501	26,064,817.80		
KRS PE 2012 A UNIT	6,977.987	4,263,240.57	1,942.729	1,186,921.26		
KRS PE 2012 B UNIT	65,526.534	10,572,182.77	18,243.149	2,943,386.35		
KRS PE 2013 UNIT	260,988.057	92,795,232.52	89,080.255	31,672,801.70		
KRS PE 2014 UNIT	216,827.092	35,469,697.79	74,007.266	12,106,491.56		
KRS PE 2015 UNIT	167,514.812	43,695,228.60	57,176.034	14,914,023.70		
KRS PE 2016 UNIT	350,085.918	88,182,874.42	109,035.145	27,464,779.37		
KRS PE 2017 UNIT	183,142.200	28,729,687.60	57,040.183	8,947,946.67		
KRS PE 2018 UNIT	222,012.396	37,782,583.07	69,311.188	11,795,538.29		
KRS PE 2019 UNIT	257,483.676	58,014,271.44	80,385.148	18,111,772.63		
KRS PE 2021 UNIT	436,440.435	50,917,713.09	147,969.875	17,263,037.60		
KRS PERIMETER PARK UNIT	17,188.363	1,682,470.76	18,713.042	1,831,712.89		
KRS POST-2015 REAL ESTATE UNIT	633,336.085	91,090,164.09	200,267.448	28,803,655.96		
KRS PRIVATE CREDIT FI UNIT	1,540,165.113	299,605,802.80	510,108.436	99,230,560.54		
KRS PROLOGIS UNIT	741,098.600	181,505,019.36	234,343.128	57,393,785.37		
KRS REAL RETURN UNIT	582,392.386	101,941,860.74	200,559.630	35,105,922.34		
KRS RUBENSTEIN PF II UNIT	55,450.515	10,134,562.15	17,278.945	3,158,032.74		
KRS SHENKMAN UNIT	827,271.175	131,194,865.81	278,839.911	44,220,523.83		
KRS STOCKBRIDGE UNIT	280,090.753	63,212,457.49	89,313.398	20,156,750.32		
KRS TAURUS UNIT	7,574.437	2,396,312.42	2,585.302	817,907.83		
KRS TPF II UNIT	351.766	37,325.09	117.591	12,477.31		
KRS WALTON VI UNIT	38,991.717	7,276,175.72	13,784.580	2,572,316.23		
KRS WALTON VII UNIT	37,435.893	6,409,518.89	11,665.409	1,997,271.96		
KRS WATERFALL UNIT	897,520.726	157,342,672.93	300,035.472	52,598,655.13		

Kentucky Public Pensions Authority Insurance: CERS & CERS-H Unit Holdings Quarter Ended March 31, 2023

LINIT OF DARTICIDATION	CER	S INS	CERS-H INS		
UNIT OF PARTICIPATION	Shares/Par	Base Market Value	Shares/Par	Base Market Value	
Grand Total	24,281,143.896	3,154,090,825.89	12,164,795.723	1,560,695,617.02	
KR3 ARROWMARK UNIT	554,115.798	114,945,195.99	301,875.792	62,620,795.51	
KRS INS PE 2014 UNIT	96,303.623	15,771,426.98	52,089.893	8,530,644.21	
KRS INS ABSOLUTE RETURN UNIT	151,549.664	18,524,778.81	84,908.283	10,378,823.15	
KRS INS ADAMS STREET A1 UNIT	184,540.735	27,219,691.42	97,492.177	14,380,060.72	
KRS INS ADAMS STREET B1 UNIT	209,287.160	26,924,433.37	110,565.612	14,224,075.92	
KRS INS AMERRA AGRI UNIT	111,707.475	10,215,266.66	61,667.856	5,639,314.59	
KRS INS AMERRA UNIT	22,445.700	4,323,588.89	12,391.098	2,386,827.48	
KRS INS BLACKROCK UNIT	3,237,957.534	210,976,071.78	1,610,309.295	104,923,157.84	
KRS INS BLUE TORCH UNIT	168,732.244	25,693,416.96	88,690.812	13,505,243.33	
KRS INS BNYM CUSTODY FEE UNIT	-164,388.917	-164,388.92	-81,194.760	-81,194.76	
KRS INS BTG UNIT	58,674.170	5,143,263.56	32,238.357	2,825,951.64	
KRS INS CASH UNIT	419,500.121	43,797,030.86	136,860.124	14,288,594.39	
KRS INS DB PRIVATE EQ UNIT	27,357.854	8,878,331.43	14,782.255	4,797,224.19	
KRS INS DIVCOWEST IV UNIT	454.208	239,268.69	246.794	130,006.69	
KRS INS DOMESTIC EQUITY UNIT	1,079,744.155	271,569,663.58	549,104.925	138,107,012.72	
KRS INS GLOBAL FIXED UNIT	415,168.016	54,269,329.89	180,293.611	23,567,358.46	
KRS INS GREENFIELD UNIT	903.324	11,447.13	490.809	6,219.65	
KRS INS GREENFIELD VII UNIT	1,742.377	579,554.21	946.698	314,893.28	
KRS INS HARRISON UNIT	244,840.322	54,569,226.01	133,920.349	29,847,738.04	
KRS INS IFM INFRAST DEBT UNIT	94,964.510	13,772,251.90	48,928.929	7,095,930.21	
KRS INS INTERNAL EQUITY UNIT	2,160,972.310	648,231,866.48	1,035,988.972	310,768,010.25	
KRS INS INTL EQ UNIT	2,795,392.309	468,678,792.66	1,354,813.081	227,149,569.32	
KRS INS L-A-VII UNIT	44,116.449	3,854,019.56	23,970.508	2,094,067.15	
KRS INS LIQUID CORE FIXED UNIT	2,635,317.386	327,109,988.05	1,193,245.947	148,112,204.45	
KRS INS LIQUID CREDIT FIXED UN	5,562,779.296	5.56	2,995,343.950	3.00	
KRS INS LIQUID HY FI UNIT	578,267.180	87,725,355.22	216,600.095	32,859,067.46	
KRS INS MAGNETAR MTP	95.017	49,685.27	52.560	27,484.11	
KRS INS MESA WEST CORE UNIT	117,798.214	21,062,674.76	65,081.046	11,636,686.66	
KRS INS MESA WEST IV UNIT	34,504.073	3,232,249.12	18,935.158	1,773,794.87	
KRS INS MULTI SECTOR CREDIT FI	531,206.774	84,133,689.02	290,366.710	45,988,913.69	
KRS INS OBERLAND UNIT	10,280.748	771,720.08	5,589.719	419,589.94	
KRS INS PE 2010 UNIT	62,794.529	18,517,349.30	33,613.484	9,912,211.05	
KRS INS PE 2011 UNIT	119,763.502	37,484,979.93	71,683.331	22,436,286.34	
KRS INS PE 2012 A UNIT	2,213.500	1,356,771.43	1,197.264	733,866.54	
KRS INS PE 2012 B UNIT	27,004.062	4,377,276.30	14,333.239	2,323,374.44	
KRS INS PE 2013 UNIT	141,579.856	49,741,085.87	76,579.472	26,904,576.68	
KRS INS PE 2015 UNIT	96,281.183	24,954,217.09	52,077.781	13,497,551.78	
KRS INS PE 2016 UNIT	202,110.990	50,907,638.55	122,047.715	30,741,331.59	
KRS INS PE 2017 UNIT	106,473.354	16,611,873.24	64,295.361	10,031,302.17	
KRS INS PE 2018 UNIT	47,068.777	8,241,631.49	25,591.672	4,481,041.22	
KRS INS PE 2019 UNIT	26,914.683	6,064,210.61	14,354.492	3,234,244.40	
KRS INS PE 2021 UNIT	168,303.164	19,725,364.26	86,598.125	10,149,420.36	
KRS INS POST-2015 REAL ESTATE	219,845.072	31,520,232.46	120,646.650	17,297,683.40	
KRS INS PRIVATE CREDIT FI UNIT	539,203.529	103,156,129.80	294,076.416	56,260,360.53	
KRS INS PROLOGIS UNIT	150,318.422	58,595,928.93	82,491.818	32,156,302.87	
KRS INS REAL RETURN UNIT	154,975.484	26,664,488.69	79,865.254	13,741,309.96	
KRS INS RUBENSTEIN PF II UNIT	16,254.663	2,952,891.76	8,831.949	1,604,449.72	
KRS INS SHENKMAN UNIT	327,737.984	51,485,424.07	121,432.653	19,076,249.75	
KRS INS STOCKBRIDGE UNIT	117,767.220	26,463,651.48	64,874.850	14,578,126.41	
KRS INS TAURUS UNIT	2,775.521	879,810.77	1,501.258	475,882.89	
KRS INS TPF II UNIT	37.089	3,935.15	19.666	2,086.57	
KRS INS WALTON VI UNIT	3,937.153	730,321.51	2,109.889	391,373.49	
KRS INS WALTON VII UNIT	10,838.188	1,855,640.46	5,888.786	1,008,237.68	
KRS INS WATERFALL UNIT	350,616.142	59,691,077.76	184,087.943	31,340,279.02	

Kentucky Public Pensions Authority

Security Litigation Report

Quarter Ending: March 31, 2023

Claims Filed during the Quarter (pg 3):

10

Proceeds Received during the Quarter (pg 4):

\$45,908.81

Kentucky Retirement Systems Quarterly Securities Litigation Report Quarter Ended 03/31/23

Total Claims Filed		
No Claim on File		9
Fiscal Year 1997		1
Fiscal Year 1998		2
Fiscal Year 1999		5
Fiscal Year 2000		9
Fiscal Year 2001		8
Fiscal Year 2002		33
Fiscal Year 2003		45
Fiscal Year 2004		38
Fiscal Year 2005		89
Fiscal Year 2006		150
Fiscal Year 2007		70
Fiscal Year 2008		73
Fiscal Year 2009		85
Fiscal Year 2010		65
Fiscal Year 2011		69
Fiscal Year 2012		54
Fiscal Year 2013		48
Fiscal Year 2014		65
Fiscal Year 2015		80
Fiscal Year 2016		224
Fiscal Year 2017		140
Fiscal Year 2018		74
Fiscal Year 2019		55
Fiscal Year 2020		42
Fiscal Year 2021		43
Fiscal Year 2022		49
Fiscal Year 2023		42
<u>-</u>	Total Filed	1,667

Proceeds Received		
Fiscal Year 1998		\$67,682
Fiscal Year 1999		\$233,370
Fiscal Year 2000		\$303,918
Fiscal Year 2001		\$415,502
Fiscal Year 2002		\$387,318
Fiscal Year 2003		\$519,059
Fiscal Year 2004		\$1,080,920
Fiscal Year 2005		\$1,645,440
Fiscal Year 2006		\$797,535
Fiscal Year 2007		\$5,398,363
Fiscal Year 2008		\$5,402,336
Fiscal Year 2009		\$3,504,682
Fiscal Year 2010		\$2,776,544
Fiscal Year 2011		\$1,292,484
Fiscal Year 2012		\$468,657
Fiscal Year 2013		\$1,070,427
Fiscal Year 2014		\$308,704
Fiscal Year 2015		\$23,639,565
Fiscal Year 2016		\$2,417,957
Fiscal Year 2017		\$1,886,532
Fiscal Year 2018		\$2,247,966
Fiscal Year 2019		\$1,702,272
Fiscal Year 2020		\$1,743,474
Fiscal Year 2021		\$286,420
Fiscal Year 2022		\$616,557
Fiscal Year 2023		\$232,095
	Total Proceeds	\$60,445,781

Class Action Name	TNT Status Code	Status as of Date	Class Period Start Date	Class Period End Date	Class Account Id	Claimed Account Name
TEXTRON INC., Securities Litigation	FILED	1/18/2023	1/31/2018	12/6/2018	956596	KRS KRS INTERNAL EQUITY
TEXTRON INC., Securities Litigation	FILED	1/18/2023	1/31/2018	12/6/2018	956599	KRS S P 500 INDEX
TEXTRON INC., Securities Litigation	FILED	1/18/2023	1/31/2018	12/6/2018	956772	KRS INS KRS INTERNAL EQUITY
TEXTRON INC., Securities Litigation	FILED	1/18/2023	1/31/2018	12/6/2018	956774	KRS INS S P 500 INDEX
ORACLE CORPORATION, Securities Litigation (18CV04844BLF)	FILED	1/31/2023	5/10/2017	6/20/2018	956774	KRS INS S P 500 INDEX
ORACLE CORPORATION, Securities Litigation (18CV04844BLF)	FILED	1/31/2023	5/10/2017	6/20/2018	956772	KRS INS KRS INTERNAL EQUITY
ORACLE CORPORATION, Securities Litigation (18CV04844BLF)	FILED	1/31/2023	5/10/2017	6/20/2018	956596	KRS KRS INTERNAL EQUITY
ORACLE CORPORATION, Securities Litigation (18CV04844BLF)	FILED	1/31/2023	5/10/2017	6/20/2018	956599	KRS S P 500 INDEX
PEABODY ENERGY CORP. SECURITIES LITIGATION	FILED	1/31/2023	4/3/2017	10/28/2019	956588	KRS NTGI STRUCTURED
PEABODY ENERGY CORP. SECURITIES LITIGATION	FILED	1/31/2023	4/3/2017	10/28/2019	956765	KRS INS NTGI STRUCTURED
PORTOLA PHARMACEUTICALS INC. Securities Litigation	FILED	2/9/2023	1/8/2019	2/28/2020	956588	KRS NTGI STRUCTURED
PORTOLA PHARMACEUTICALS INC. Securities Litigation	FILED	2/9/2023	1/8/2019	2/28/2020	956765	KRS INS NTGI STRUCTURED
SUPER MICRO COMPUTER, INC., Securities Litigation (18CV00838)	FILED	2/23/2023	8/5/2016	1/30/2018	956765	KRS INS NTGI STRUCTURED
SUPER MICRO COMPUTER, INC., Securities Litigation (18CV00838)	FILED	2/23/2023	8/5/2016	1/30/2018	956588	KRS NTGI STRUCTURED
U.S STEEL, Securities Litigation	FILED	2/25/2023	1/27/2016	4/25/2017	956766	KRS INS SYSTEMATIC
U.S STEEL, Securities Litigation	FILED	2/25/2023	1/27/2016	4/25/2017	956589	KRS SYSTEMATIC
U.S STEEL, Securities Litigation	FILED	2/25/2023	1/27/2016	4/25/2017	956765	KRS INS NTGI STRUCTURED
U.S STEEL, Securities Litigation	FILED	2/25/2023	1/27/2016	4/25/2017	956588	KRS NTGI STRUCTURED
NEWELL BRANDS INC. Securities Litigation	FILED	3/2/2023	12/14/2015	4/18/2016	956768	KRS INS WESTFIELD CAPITAL
NEWELL BRANDS INC. Securities Litigation	FILED	3/2/2023	12/14/2015	4/18/2016	KR2F1901002	STATE STREET TRANSITION
NEWELL BRANDS INC. Securities Litigation	FILED	3/2/2023	12/14/2015	4/18/2016	956766	KRS INS SYSTEMATIC
NEWELL BRANDS INC. Securities Litigation	FILED	3/2/2023	12/14/2015	4/18/2016	956774	KRS INS S P 500 INDEX
NEWELL BRANDS INC. Securities Litigation	FILED	3/2/2023	12/14/2015	4/18/2016	956589	KRS SYSTEMATIC
NEWELL BRANDS INC. Securities Litigation	FILED	3/2/2023	12/14/2015	4/18/2016	956591	KRS WESTFIELD CAPITAL
PROPETRO HOLDING CORP., Securities Litigation	FILED	3/15/2023	2/8/2017	3/13/2020	956765	KRS INS NTGI STRUCTURED
OMEGA HEALTHCARE INVESTORS, INC., Securities Litigation (17CV08983NRB)	FILED	3/22/2023	2/8/2017	10/31/2017	956816	KRS INS NUVEEN REAL ASSET
OMEGA HEALTHCARE INVESTORS, INC., Securities Litigation (17CV08983NRB)	FILED	3/22/2023	2/8/2017	10/31/2017	956642	KRS NUVEEN REAL ASSET
DEUTSCHE BANK AKTIENGESELLSCHAFT, Securities Litigation	FILED	3/28/2023	3/14/2017	9/18/2020	956801	KRS INS LSV ASSET MGMT



Report ID: IACS0008 Base Currency: USD

KR2G00000000 - TOTA	L FUND	12/31/2022 - 3/31/2023			Sta	tus: PRELIMINAR
Trans Code	Shares/Par Description	Trade Date	Price	Cost	Amount	Net Gain/Loss
Link Ref	Security Id Broker	C. Settle Date	Local/Base	Local/Base	Local/Base	Local/Base
01 400 40710110	Transaction No./Client Ref No.	Reported Date				
CLASS ACTIONS						
CASH & CASH E	QUIVALENTS					
U.S. DOLLAR						
CD	0.000 16-1224 (KM)(MAH)PTC THERAPEUT	1/19/2023	0.000000	329.21	329.21	329.21
	NA9123459 ICS, INC. Distribution 2ND DIS 20230119S000020 / 00000000008	1/19/2023	0.000000	329.21	329.21 Gain/Loss Local Am	329.21
	KR2F10060002 : WESTFIELD CAPITAL	1/19/2023			Gain/Loss Base Am	
CD	0.000 24358LADENBURG THALMANN FINANC	1/19/2023	0.00000	33.95	33.95	33.95
OD	NA9123459 IAL SERVICES INC. (2020) Distr	1719/2020	0.000000	33.95	33.95	33.95
	20230119\$000190 / 000000001530	1/19/2023	0.00000	00.00	Gain/Loss Local Ar	
	KR2F10020002 : NTGI STRUCTURED				Gain/Loss Base Ar	nounts: 33.95 Long
CD	0.000 23548Wells Fargo & Company (SE	2/2/2023	0.000000	22,884.64	22,884.64	22,884.64
	NA9123459 C) Distribution 1ST DISTRIBUTI		0.000000	22,884.64	22,884.64	22,884.64
	20230203S000050 / 000000000008	2/2/2023			ain/Loss Local Amour	
	KR2F10120002 : RIVER ROAD FAV			Ga	ain/Loss Base Amour	its: 22,884.64 Long
CD	0.000 APPLIED MICRO CIRCUITS CORPS S	2/8/2023	0.000000	223.90	223.90	223.90
	NA9123459 EC LIT PROCEEDS	0/0/0000	0.000000	223.90	223.90	223.90
	20230210S000010 / DFEACAFDBE6F KR2F90010002 : CASH ACCOUNT KR2	2/8/2023			Gain/Loss Local Ame Gain/Loss Base Ame	
CD	0.000 24000GTT Communications, Inc.	3/10/2023	0.000000	880.47	880.47	880.47
	NA9123459 (2021) Distribution 1ST DISTRI		0.000000	880.47	880.47	880.47
	20230310S000260 / 000000000000 KR2F10020002 : NTGI STRUCTURED	3/10/2023			Gain/Loss Local Ame Gain/Loss Base Ame	
CD	0.000 3-17-CV-2616-MBSSCANA Corporat	3/14/2023	0.00000	8,020.25	8,020.25	8,020.25
	NA9123459 ion (2017)(D.S.C) Distribution	5.1.112520	0.000000	8,020.25	8,020.25	8,020.25
	20230314S000320 / 000000000002	3/14/2023		,	Sain/Loss Local Amou	-,
	KR2F10110002 : KRS INTERNAL EQUITY			(Sain/Loss Base Amou	ints: 8 020 25 Long



Report ID: IACS0008 Base Currency: USD

KR2G00000000 - TO		12/31/2022 - 3/31/2023			Sta	tus: PRELIMINARY
Trans Code	Shares/Par Description	Trade Date	Price	Cost	Amount	Net Gain/Loss
Link Ref	Security Id Broker	C. Settle Date	Local/Base	Local/Base	Local/Base	Local/Base
	Transaction No./Client Ref No.	Reported Date				
CD	0.000 COMPUTER SCIENCES CORP (SEC	3/10/2023	0.000000	127.56	127.56	127.56
	NA9123459 FAIR FUND)		0.000000	127.56	127.56	127.56
	20230317A000150	3/10/2023			Gain/Loss Local Amo	- O
	KR2F19020002 : S&P 500 INDEX				Gain/Loss Base Amo	ounts: 127.56 Long
CD	0.000 COMPUTER SCIENCES CORP (SEC	3/10/2023	0.000000	41.97	41.97	41.97
	NA9123459 FAIR FUND		0.000000	41.97	41.97	41.97
	20230317A000160	3/10/2023			Gain/Loss Local An	nounts: 41.97 Long
	KR2F19020002 : S&P 500 INDEX				Gain/Loss Base An	nounts: 41.97 Long
CD	0.000 20721HONEYWELL INTERNATIONAL,	3/31/2023	0.000000	141.80	141.80	141.80
	NA9123459 INC. (2018) Distribution 1ST D		0.000000	141.80	141.80	141.80
	20230331S000270 / 000000000087	3/31/2023			Gain/Loss Local Amo	ounts: 141.80 Long
	KR2F10110002 : KRS INTERNAL EQUITY				Gain/Loss Base Amo	ounts: 141.80 Long
CD	0.000 22119NETAPP, INC., Securities	3/31/2023	0.000000	67.44	67.44	67.44
	NA9123459 Litigation Distribution 1ST DI		0.000000	67.44	67.44	67.44
	20230331S000420 / 000000000000	3/31/2023			Gain/Loss Local An	•
	KR2F19020002 : S&P 500 INDEX				Gain/Loss Base An	nounts: 67.44 Long
	TOTAL U.	S. DOLLAR CASH & CASH EQUI	VALENTS:	32,751.19	32,751.19	32,751.19
				32,751.19	32,751.19	32,751.19
	TOTAL CASH	& CASH EQUIVALENTS CLASS		32,751.19	32,751.19	32,751.19
		TOTAL CLASS	ACTIONS:	32,751.19	32,751.19	32,751.19
		TOTAL TRANSACTIO	ONS BASE:	32,751.19	32,751.19	32,751.19



Report ID: IACS0008
Base Currency: USD

KR3G0000000 - TO	TAL FUND	12/31/2022 - 3/31/2023			Sta	tus: PRELIMINARY
Trans Code	Shares/Par Description	Trade Date	Price	Cost	Amount	Net Gain/Loss
Link Ref	Security Id Broker	C. Settle Date	Local/Base	Local/Base	Local/Base	Local/Base
01 400 40710110	Transaction No./Client Ref No.	Reported Date				
CLASS ACTIONS						
	EQUIVALENTS					
U.S. DOLLAR						
CD	0.000 16-1224 (KM)(MAH)PTC THERAPEUT	1/19/2023	0.000000	132.32	132.32	132.32
	NA9123459 ICS, INC. Distribution 2ND DIS	4/40/0000	0.000000	132.32	132.32	132.32
	20230119S000020 / 000000000008	1/19/2023			Gain/Loss Local Am	•
	KR3F10060002 : WESTFIELD CAPITAL				Gain/Loss Base Am	ounts: 132.32 Long
CD	0.000 24358LADENBURG THALMANN FINANC	1/19/2023	0.00000	11.32	11.32	11.32
	NA9123459 IAL SERVICES INC. (2020) Distr		0.000000	11.32	11.32	11.32
	20230119S000190 / 000000001530	1/19/2023			Gain/Loss Local Ar	nounts: 11.32 Long
	KR3F10020002 : NTGI STRUCTURED				Gain/Loss Base Ar	nounts: 11.32 Long
CD	0.000 8-14-cv-02004-DOC-KESxALLERGAN	1/31/2023	0.00000	172.94	172.94	172.94
	NA9123459 , INC. (2014) (C.D. CAL.) (SEC		0.000000	172.94	172.94	172.94
	20230131S000150 / 00000000985	1/31/2023			Gain/Loss Local Am	ounts: 172.94 Long
	KR3F19020002 : S&P 500 INDEX				Gain/Loss Base Am	ounts: 172.94 Long
CD	0.000 23548Wells Fargo & Company (SE	2/2/2023	0.000000	8,125.24	8,125.24	8,125.24
	NA9123459 C) Distribution 1ST DISTRIBUTI		0.000000	8,125.24	8,125.24	8,125.24
	20230203S000040 / 000000000008	2/2/2023		(Gain/Loss Local Amoυ	ints: 8,125.24 Long
	KR3F10120002 : RIVER ROAD FAV			(Gain/Loss Base Amou	ints: 8,125.24 Long
CD	0.000 412-CV-01332 (HARMON, J.)HOUST	2/7/2023	0.000000	18.62	18.62	18.62
	NA9123459 ON AMERICAN ENERGY CORP Distri		0.000000	18.62	18.62	18.62
	20230207S000250 / 00000000010	2/7/2023			Gain/Loss Local Ar	nounts: 18.62 Long
	KR3F10020002 : NTGI STRUCTURED				Gain/Loss Base Ar	nounts: 18.62 Long
CD	0.000 24000GTT Communications, Inc.	3/10/2023	0.000000	388.34	388.34	388.34
	NA9123459 (2021) Distribution 1ST DISTRI		0.000000	388.34	388.34	388.34
	20230310S000250 / 000000000000	3/10/2023			Gain/Loss Local Am	ounts: 388.34 Long
	KR3F10020002: NTGI STRUCTURED				Gain/Loss Base Am	ounts: 388.34 Long



Report ID: IACS0008 Base Currency: USD

Status: PRELIMINARY

KR3G00000000 - TC	OTAL FUND 12	/31/2022 - 3/31/2023			Sta	tus: PRELIMINARY
Trans Code	Shares/Par Description	Trade Date	Price	Cost	Amount	Net Gain/Loss
Link Ref	Security Id Broker	C. Settle Date	Local/Base	Local/Base	Local/Base	Local/Base
	Transaction No./Client Ref No.	Reported Date				
CD	0.000 3-17-CV-2616-MBSSCANA Corporat	3/14/2023	0.000000	4,220.86	4,220.86	4,220.86
	NA9123459 ion (2017)(D.S.C) Distribution		0.000000	4,220.86	4,220.86	4,220.86
	20230314S000320 / 000000000002	3/14/2023			Gain/Loss Local Amou	nts: 4,220.86 Long
	KR3F10110002 : KRS INTERNAL EQUITY				Gain/Loss Base Amou	nts: 4,220.86 Long
CD	0.000 20721HONEYWELL INTERNATIONAL,	3/31/2023	0.000000	58.93	58.93	58.93
	NA9123459 INC. (2018) Distribution 1ST D		0.000000	58.93	58.93	58.93
	20230331\$000260 / 00000000087	3/31/2023			Gain/Loss Local An	nounts: 58.93 Long
	KR3F10110002 : KRS INTERNAL EQUITY				Gain/Loss Base An	nounts: 58.93 Long
CD	0.000 22119NETAPP, INC., Securities	3/31/2023	0.000000	29.05	29.05	29.05
	NA9123459 Litigation Distribution 1ST DI		0.000000	29.05	29.05	29.05
	20230331S000400 / 000000000000	3/31/2023			Gain/Loss Local An	nounts: 29.05 Long
	KR3F19020002 : S&P 500 INDEX				Gain/Loss Base An	nounts: 29.05 Long
	TOTAL U.S.	DOLLAR CASH & CASH EQUI	VALENTS:	13,157.62	13,157.62	13,157.62
				13,157.62	13,157.62	13,157.62
	TOTAL CASH &	CASH EQUIVALENTS CLASS		13,157.62	13,157.62	13,157.62
		TOTAL CLASS	ACTIONS:	13,157.62	13,157.62	13,157.62
		TOTAL TRANSACTIO	NS BASE:	13,157.62	13,157.62	13,157.62

County Employees Retirement Systems

Capital Calls and Distributions

Quarter Ending: December 31, 2022

Pension Funds Managers			County Employees Retirement System			County	Employe	ees Hazardous Retirement System				
Pension Funds Managers				ounty Line	loyees Retire	ment System		County	Lilipioye	es mazaruous n	ethement sy	Stelli
Adams Street SPC II 81 175,000,000 97,124,911 70,240,673 7,542,462 886,480 76,898,656 32,749,670 24,843,23 28,911 25,928,671 AMERISA Agri Infolling Company, IP 65,000,000 48,867,147 28,757,265 0 0 10,577,265 48,238,239 14,146,472 90,1741 0 10,000 8,915,748 ACROS Agri Infolling Company, IP 65,000,000 18,587,717 6,765,861 0 0 0 70,778,868 48,323,239 14,146,472 90,1741 0 10,000 8,915,748 ACROS Agriculture Sports Partners Fund II 85,000,000 1 15,587,717 6,765,868 0 0 0 70,778,868 48,323,239 14,146,472 90,1741 0 10,000 8,915,748 ACROS Agriculture Sports Partners Fund II 85,000,000 1 15,748,747 1 17,935,779 13,577,811 0 70,797,77 12,863,074 612,833 46,22,602 0 242,274 4,390,415 89rings East East European Value Add I SCSp 114,077,259 61,179,862 24,174,767 0 2,240,357 1 14,077,259 61,179,179,179,179,179,179,179,179,179,17	Pension Funds Managers	Fund	Commitment			7 7 7	•	Commitment				_
MAREBRA KKS plant L.P.	Adams Street SPC II A1	175,000,000	97,124,912	78,626,395	(886,480	77,739,915	32,749,407	26,511,919	0	298,911	26,213,008
AMERIANES Agri Holding Company, IP	Adams Street SPC II B1	175,000,000	97,124,911	70,240,673	7,542,462	886,480	76,896,656	32,749,407	23,684,350	2,543,232	298,911	25,928,671
Arcano KSS Fund I, L.P. 36,000,000 35,000,000 35,000,000 36,00	AMERRA Agri Fund II, LP	40,100,000	27,641,371	15,957,226	(0 0	15,957,226	8,727,285	5,038,218	0	0	5,038,218
Actors Sports Fartmers Fund II	AMERRA-KRS Agri Holding Company, LP	65,000,000	44,805,214	28,573,982	. (335,743	28,238,239	14,146,472	9,021,741	. 0	106,005	8,915,736
Ares Special Situations Fund IV, L.P. 26.192.000 27.355,793 13,572.811 0 709,737 12,863,074 0 12,1233 4632,662 0 24,247 430,415 Barrings Euro Resil Estate III 16,160,438 10,1077.250 114.077.25	Arcano KRS Fund I, L.P.	36,000,000	15,587,717	6,776,586	(0	6,776,586	4,852,329	2,109,496	0	0	2,109,496
Baring Real Estate	Arctos Sports Partners Fund II	85,000,000										
Barings Real Estate European Value Add I SCSp	Ares Special Situations Fund IV, L.P.	26,192,000	17,935,797	13,572,811	. (709,737	12,863,074	6,121,833	4,632,662		242,247	4,390,415
Bayt Hills Capital L.P.	Barings Euro Real Estate II	161,609,438	90,921,471	17,314,028	(0	17,625,510	28,750,313	5,474,875	0	0	5,573,369
Bay Hills Emerging Partners III P	Barings Real Estate European Value Add I SCSp	114,077,250	64,179,862	24,274,176	(2,840,355	21,861,732	20,294,339	7,675,747	C	898,150	6,912,907
Bay Hills Emerging Partners II LP	Bay Hills Capital I, L.P.	67,500,000	29,226,970	2,184,037	' (50,660	2,133,377	9,098,116	679,873	0	15,770	664,103
Bay Hills Emerging Partners II-B IP	Bay Hills Capital III, L.P.	51,250,000	35,095,051	33,312,933	(0	33,312,933	11,978,618	11,370,346	0	0	11,370,346
BOCM Opportunity Fund IV, L.P. 35,580,000 24,364,524 8,993,384 0 231,530 38,761,854 8,316,002 13,309,194 0 79,026 13,230,168 Blackstone Capital Partners V, L.P. 60,000,000 38,220,311 15,447,178 76,330 150,465 15,373,044 18,479,695 7,468,781 36,906 72,751 7,432,937 Blue Torch Credit Opportunities Fund II, IP 140,000,000 77,659,705 76,318,324 0 0 76,318,324 26,221,374 25,768,464 0 0 25,768,464 BSP For-Invest Perhelic KLP 0 0 0 25,500,39 0 407,90 21,152,059 0 747,1969 0 133,125 73,864,64 BSP For-Invest Perhelic KLP 0 0 0 25,500,39 0 407,90 21,152,059 0 747,1969 0 135,125 73,864,64 BSP For-Invest Perhelic KLP 0 0 0 25,500,39 0 407,90 21,152,059 0 747,1969 0 135,125 73,864,64 BSP For-Invest Perhelic KLP 0 0 0 0 0 0 0 0 0	Bay Hills Emerging Partners II LP	45,000,000	19,484,647	39,050,955	(257,197	38,793,758	6,065,411	12,156,242		80,063	12,076,179
Blackstone Capital Partners VI, LP.	Bay Hills Emerging Partners II-B LP	45,000,000	19,484,647	26,716,266	(837,840	25,878,426	6,065,411	8,316,555	C	260,813	8,055,742
Blackstone Capital Partners VI, LP.	BDCM Opportunity Fund IV, L.P.	35,580,000	24,364,524	38,993,384	. (231,530	38,761,854	8,316,082	13,309,194		79,026	13,230,168
Sue Torch Credit Cyportunities Fund LP	Blackstone Capital Partners V, L.P.	47,174,735	20,426,290	67,885	(0	67,885	6,358,537	21,132	C	0	21,132
SSP Co-Invest Vehicle K LP	Blackstone Capital Partners VI, L.P.	60,000,000	38,220,311	15,447,178	76,330	150,465	15,373,044	18,479,695	7,468,781	36,906	72,751	7,432,937
BSP Private Credit Fund 100,000,000 58,940,485 54,475,143 0 1,412,139 53,063,003 19,521,309 18,042,371 0 467,706 17,574,665 BTG Pactual Brazil Timberland Fund I 34,500,000 23,847,150 17,480,832 0 0 17,480,832 7,642,335 5,602,111 0 0 5,602,111 Camelot Opportunities Fund, LP. 140,000,000 82,516,679 105,329,769 0 0 107,165,833 15,329,832 34,885,613 0 0 35,493,724 Cerbers KRS Levered Loan Opportunities Fund, LP. 140,000,000 82,516,679 105,329,769 0 0 107,165,833 27,329,832 34,885,613 0 0 35,493,724 Columbia Captal Equity Partners IV, LP. 67,000,000 11,690,788 1,379,084 0 1,379,084 3,639,247 429,298 0 0 429,298 Crestive Partners III, LP. 67,500,000 29,226,970 13,977,042 0 1,285,690 1,691,352 9,081,161 43,50,939 0 402,225 3,950,714 <td>Blue Torch Credit Opportunities Fund II LP</td> <td>140,000,000</td> <td>77,659,705</td> <td>76,318,324</td> <td>. (</td> <td>0</td> <td>76,318,324</td> <td>26,221,374</td> <td>25,768,464</td> <td></td> <td>0</td> <td>25,768,464</td>	Blue Torch Credit Opportunities Fund II LP	140,000,000	77,659,705	76,318,324	. (0	76,318,324	26,221,374	25,768,464		0	25,768,464
BTG Pactual Brazil Timberland Fund 34,500,000 23,847,150 17,480,832 0 0 17,480,832 7,62,335 5,607,111 0 0 5,602,111		0	0	22,560,039	(407,980	22,152,059	C	7,471,969	0	135,125	7,336,845
BTG Pactual Brazil Timberland Fund 34,500,000 23,847,150 17,480,832 0 0 17,480,832 7,62,335 5,607,111 0 0 5,602,111	BSP Private Credit Fund	100,000,000	58,940,485	54,475,143	(1,412,139	53,063,003	19,521,309	18,042,371	. 0	467,706	17,574,665
Cerebrus KRS Levered Loan Opportunities Fund, L.P.	BTG Pactual Brazil Timberland Fund I	34,500,000	23,847,150	17,480,832	. (0	17,480,832	7,642,335	5,602,111	. 0		
Ceres Farms 100,000,000 11,690,788 1,379,084 0 0 1,379,084 3,639,247 429,298 0 0 429,298 (Crest Vew Partners III, L.P. 67,500,000 29,226,970 13,977,042 0 1,285,690 12,691,352 9,098,116 4,350,939 0 400,225 3,950,714 (Crest Vew Partners III, L.P. 39,000,000 26,706,479 23,876,503 835,092 2,104,973 22,606,622 9,115,436 8,149,511 285,033 718,468 7,716,076 (Crest Vew Partners Partners Parallel L.P. 140,000,000 82,516,679 42,743,526 0 1,557,127 41,186,398 27,329,832 14,156,815 0 515,726 13,641,089 (Crest Vew Partners III, L.P. 23,815,820 16,308,633 18,566,009 48,522 896,071 18,056,806 5,566,51 6,336,937 16,562 305,846 6,163,136 (Crest Vew Partners III, L.P. 27,000,000 11,690,788 183,828 0 0 0 833,864 3,639,247 259,575 0 0 259,575 (Crest Vew Partners III, L.P. 27,000,000 11,690,788 188,328 0 0 0 158,328 3,639,247 249,286 0 0 249,286 (Crest Vew Partners III, L.P. 27,000,000 11,690,788 188,328 0 0 0 158,328 3,639,247 249,286 0 0	Camelot Opportunities Fund, L.P.	23,400,000	10,132,016	2,803,888	(0	2,803,888	3,154,014	872,827		0	872,827
Columbia Captal Equity Partners IV, L.P. 27,000,000 11,690,788 1,379,084 0 0 1,379,084 3,639,247 429,298 0 0 429,298 Crestview Partners III, L.P. 67,500,000 29,226,970 13,977,042 0 1,285,690 12,691,352 9,098,116 4,350,939 0 400,225 3,950,714 Crestview Partners III, L.P. 39,000,000 26,706,479 23,876,503 835,092 2,104,973 22,606,622 9,115,436 8,149,511 285,033 718,468 7,716,076 CS Adjacent Investment Partners Parallel LP 140,000,000 82,516,679 42,743,526 0 1,557,127 41,86,398 27,329,832 14,156,815 0 515,726 13,641,089 CVC European Equity Partners VI, L.P. 23,815,820 16,308,633 18,566,009 48,522 896,071 18,056,806 5,566,451 6,336,937 16,562 305,846 6,163,136 DAG Ventures III, L.P. 27,000,000 11,690,788 833,864 0 0 183,364 3,639,247 429,256 0	Cerberus KRS Levered Loan Opportunities Fund, L.P.	140,000,000	82,516,679	105,329,769	(0	107,165,833	27,329,832	34,885,613		0	35,493,724
Crestview Partners II, L.P. 67,500,000 29,226,970 13,977,042 0 1,285,690 12,691,352 9,098,116 4,350,939 0 400,225 3,950,714 Crestview Partners III, L.P. 39,000,000 26,706,679 23,876,503 835,092 2,104,973 22,606,622 9,115,436 8,149,511 285,03 718,468 7,716,076 CX C European Equity Partners VI, L.P. 23,815,820 16,308,633 18,566,009 48,522 896,071 18,056,806 5,566,451 6,336,937 16,562 305,846 6,163,136 DAG Ventures III, L.P. 27,000,000 11,690,788 833,864 0 0 833,864 3,639,247 259,575 0 0 259,575 DAG Ventures III, L.P. 27,000,000 11,690,788 158,328 0 0 158,328 3,639,247 259,575 0 0 259,575 DAG Ventures IV, L.P. 90,000,000 38,962,941 16,835,389 0 7,708,766 9,144,523 12,130,822 52,46,291 0 2,399,676 2,846,615	Ceres Farms	100,000,000										
Crestview Partners III, L.P. 39,000,000 26,706,479 23,876,503 835,092 2,104,973 22,606,622 9,115,436 8,149,511 285,033 718,468 7,716,076 CS Adjacent Investment Partners Parallel LP 140,000,000 82,516,679 42,743,526 0 1,557,127 41,186,398 27,329,832 14,156,815 0 515,726 13,641,089 CVC European Equity Partners VI, L.P. 23,815,820 16,308,633 18,566,009 48,522 89,071 18,056,806 5,566,451 6,336,937 16,562 305,846 61,631,136 DAG Ventures III, L.P. 27,000,000 11,690,788 158,328 0 0 158,328 3,639,247 49,286 0 0 49,286 DAG Ventures IV, L.P. 90,000,000 38,969,294 16,853,289 0 7,708,766 9,144,523 12,130,822 5,246,291 0 2,399,676 2,846,615 DAG Ventures IV, L.P. 13,500,000 5,945,949 2,8785 0 0 28,785 0 0 28,785 0 0	Columbia Captal Equity Partners IV, L.P.	27,000,000	11,690,788	1,379,084	. (0	1,379,084	3,639,247	429,298	C	0	429,298
CS Adjacent Investment Partners Parallel LP 140,000,000 82,516,679 42,743,526 0 1,557,127 41,186,398 27,329,832 14,156,815 0 515,726 13,641,089 CVC European Equity Partners VI, L.P. 23,815,820 16,308,633 18,566,009 48,522 896,071 18,056,806 5,566,451 6,336,937 16,562 305,846 6,163,136 DAG Ventures III, L.P. 27,000,000 11,690,788 833,864 0 0 833,864 3,639,247 259,575 0 0 259,575 DAG Ventures III, L.P. 27,000,000 11,690,788 158,328 0 0 158,328 3,639,247 49,286 0 0 49,286 DAG Ventures IV, L.P. 90,000,000 38,969,294 16,853,289 0 7,708,766 9,144,523 12,130,822 5,246,291 0 2,399,676 2,846,615 DAG Ventures IV, L.P. 8,000,000 5,966,042 28,785 0 0 28,785 2,463,959 13,918 0 0 13,918 DCM	Crestview Partners II, L.P.	67,500,000	29,226,970	13,977,042	. (1,285,690	12,691,352	9,098,116	4,350,939	C	400,225	3,950,714
CVC European Equity Partners VI, L.P. 23,815,820 16,308,633 18,566,009 48,522 896,071 18,056,806 5,566,451 6,336,937 16,562 305,846 6,163,136 DAG Ventures III, L.P. 27,000,000 11,690,788 833,864 0 0 833,864 3,639,247 259,575 0 0 259,575 DAG Ventures III, L.P. 27,000,000 11,690,788 158,328 0 0 158,328 3,639,247 49,286 0 0 49,286 DAG Ventures IV, L.P. 90,000,000 38,969,294 16,853,289 0 7,708,766 9,144,523 12,130,822 5,246,291 0 2,399,676 2,846,615 DAG Ventures IV, L.P. 8,000,000 5,096,042 28,785 0 0 28,785 2,463,959 13,918 0 0 13,918 DCM VI, L.P. 13,500,000 5,845,394 2,063,069 0 303,438 1,759,632 1,819,623 642,217 0 94,458 547,759 DivcoWest Fund IV 20,800,000 <td>Crestview Partners III, L.P.</td> <td>39,000,000</td> <td>26,706,479</td> <td>23,876,503</td> <td>835,092</td> <td>2,104,973</td> <td>22,606,622</td> <td>9,115,436</td> <td>8,149,511</td> <td>285,033</td> <td>718,468</td> <td>7,716,076</td>	Crestview Partners III, L.P.	39,000,000	26,706,479	23,876,503	835,092	2,104,973	22,606,622	9,115,436	8,149,511	285,033	718,468	7,716,076
DAG Ventures II, L.P. 27,000,000 11,690,788 833,864 0 0 833,864 3,639,247 259,575 0 0 259,575 DAG Ventures III, L.P. 27,000,000 11,690,788 158,328 0 0 158,328 3,639,247 49,286 0 0 49,286 DAG Ventures IV, L.P. 90,000,000 38,969,294 16,853,289 0 7,708,766 9,144,523 12,130,822 5,246,291 0 2,399,676 2,846,615 DAG Ventures IV, L.P. 90,000,000 5,096,042 28,785 0 0 28,785 2,463,959 13,918 0 0 3,49,818 DCM VI, L.P. 13,500,000 5,845,394 2,063,069 0 303,438 1,759,632 1,819,623 642,217 0 94,585 547,759 DivcoWest Fund IV 20,800,000 14,568,740 934,614 0 113,433 821,181 4,539,61 291,235 0 35,347 255,885 Essex Woodlands Fund VIII, L.P. 22,500,000 39,742,323<	CS Adjacent Investment Partners Parallel LP	140,000,000	82,516,679	42,743,526	(1,557,127	41,186,398	27,329,832	14,156,815	C	515,726	13,641,089
DAG Ventures III, L.P. 27,000,000 11,690,788 158,328 0 0 158,328 3,639,247 49,286 0 0 49,286 DAG Ventures IV, L.P. 90,000,000 38,969,294 16,853,289 0 7,708,766 9,144,523 12,130,822 5,246,291 0 2,399,676 2,846,615 DAG Ventures V, L.P. 8,000,000 5,096,042 28,785 0 0 28,785 2,463,959 13,918 0 0 94,458 DCM VI, L.P. 13,500,000 5,845,394 2,063,069 0 303,438 1,759,632 1,819,623 642,217 0 94,458 547,759 0 94,458 642,217 0 94,458 547,759 0 303,438 1,759,632 1,819,623 642,217 0 94,458 547,759 0 303,438 1,759,632 1,819,623 642,217 0 94,458 547,759 0 303,438 1,759,632 1,819,623 642,217 0 94,458 547,759 0 0 -748	CVC European Equity Partners VI, L.P.	23,815,820	16,308,633	18,566,009	48,522	2 896,071	18,056,806	5,566,451	6,336,937	16,562	305,846	6,163,136
DAG Ventures III, L.P. 27,000,000 11,690,788 158,328 0 0 158,328 3,639,247 49,286 0 0 49,286 DAG Ventures IV, L.P. 90,000,000 38,969,294 16,853,289 0 7,708,766 9,144,523 12,130,822 5,246,291 0 2,399,676 2,846,615 DAG Ventures V, L.P. 8,000,000 5,096,042 28,785 0 0 2,8785 2,463,959 13,918 0 0 13,918 DCM VI, L.P. 13,500,000 5,845,394 2,063,069 0 303,438 1,759,632 1,819,623 642,217 0 94,458 547,759 0 94,458 54,639,59 13,918 0 0 94,458 547,759 0 94,458 547,759 0 94,458 547,759 0 94,458 547,759 0 94,458 547,759 0 94,458 547,759 0 94,458 547,759 0 94,458 547,759 0 94,458 547,759 0 94,458<	DAG Ventures II, L.P.	27,000,000	11,690,788	833,864	. (0	833,864	3,639,247	259,575	0	0	259,575
DAG Ventures V, L.P. 8,000,000 5,096,042 28,785 0 0 28,785 2,463,959 13,918 0 0 13,918 DCM VI, L.P. 13,500,000 5,845,394 2,063,069 0 303,438 1,759,632 1,819,623 642,217 0 94,458 547,759 DivcoWest Fund IV 20,800,000 14,568,740 934,614 0 113,433 821,181 4,539,761 291,235 0 35,347 255,888 Essex Woodlands Fund VIII, L.P. 22,500,000 9,742,323 -748,415 0 0 -748,415 3,032,705 -232,975 0 0 -232,975 Fundamental Partners III L.P 70,000,000 39,382,001 36,528,805 0 1,189,788 35,339,017 12,452,997 1,550,787 0 376,223 11,174,564 Green Equity Investors V, L.P. 90,000,000 38,969,294 674,823 0 0 674,823 12,130,822 210,067 0 0 10,067 Green Equity Investors VI, L.P. 32,000,000 </td <td>DAG Ventures III, L.P.</td> <td>27,000,000</td> <td>11,690,788</td> <td>158,328</td> <td>(</td> <td>0</td> <td>158,328</td> <td>3,639,247</td> <td>49,286</td> <td>C</td> <td>0</td> <td>49,286</td>	DAG Ventures III, L.P.	27,000,000	11,690,788	158,328	(0	158,328	3,639,247	49,286	C	0	49,286
DCM VI, L.P. 13,500,000 5,845,394 2,063,069 0 303,438 1,759,632 1,819,623 642,217 0 94,458 547,759 DivcoWest Fund IV 20,800,000 14,568,740 934,614 0 113,433 821,181 4,539,761 291,235 0 35,347 255,888 Essex Woodlands Fund VIII, L.P. 22,500,000 9,742,323 -748,415 0 0 -748,415 3,032,705 -232,975 0 0 -232,975 Fundamental Partners III L.P 70,000,000 39,382,001 36,528,805 0 1,189,788 35,339,017 12,452,997 11,550,787 0 376,223 11,174,564 Green Equity Investors V, L.P. 90,000,000 38,969,294 674,823 0 0 674,823 12,130,822 210,067 0 0 210,067 Green Equity Investors VI, L.P. 32,000,000 20,384,166 21,470,604 30,934 0 21,501,537 9,855,837 10,381,135 14,957 0 10,396,012 Green Equity Investo	DAG Ventures IV, L.P.	90,000,000	38,969,294	16,853,289	(7,708,766	9,144,523	12,130,822	5,246,291		2,399,676	2,846,615
DivcoWest Fund IV 20,800,000 14,568,740 934,614 0 113,433 821,181 4,539,761 291,235 0 35,347 255,888 Essex Woodlands Fund VIII, L.P. 22,500,000 9,742,323 -748,415 0 0 -748,415 3,032,705 -232,975 0 0 -232,975 Fundamental Partners III LP 70,000,000 39,382,001 36,528,805 0 1,189,788 35,339,017 12,452,997 11,550,787 0 376,223 11,74,564 Green Equity Investors V, L.P. 90,000,000 38,969,294 674,823 0 0 674,823 12,130,822 210,067 0 0 210,067 Green Equity Investors VI, L.P. 32,000,000 20,384,666 21,470,604 30,934 0 21,501,537 9,855,837 10,381,135 14,957 0 10,396,091 Green Equity Investors VII LP 25,000,000 17,900,000 22,395,348 0 572,402 21,822,946 5,575,000 6,975,088 0 178,276 6,081 G	DAG Ventures V, L.P.	8,000,000	5,096,042	28,785	(0	28,785	2,463,959	13,918	C	0	13,918
Essex Woodlands Fund VIII, L.P. 22,500,000 9,742,323 -748,415 0 0 -748,415 3,032,705 -232,975 0 0 -232,975 Fundamental Partners III LP 70,000,000 39,382,001 36,528,805 0 1,189,788 35,339,017 12,452,997 11,550,787 0 376,223 11,174,564 Green Equity Investors V, L.P. 90,000,000 38,969,294 674,823 0 0 674,823 12,130,822 210,067 0 0 210,067 Green Equity Investors VI, L.P. 32,000,000 20,384,666 21,470,604 30,934 0 21,501,537 9,855,837 10,381,135 14,957 0 10,396,091 Green Equity Investors VII LP 25,000,000 17,900,000 22,395,348 0 572,402 21,821,537 9,855,837 10,381,135 14,957 0 10,396,091 Green Equity Investors VII, L.P. 38,100,000 26,685,999 31,513 0 0 31,513 8,315,632 9,820 0 0 9,820 <	DCM VI, L.P.	13,500,000	5,845,394	2,063,069	(303,438	1,759,632	1,819,623	642,217	C	94,458	547,759
Essex Woodlands Fund VIII, L.P. 22,500,000 9,742,323 -748,415 0 0 -748,415 3,032,705 -232,975 0 0 -232,975 Fundamental Partners III LP 70,000,000 39,382,001 36,528,805 0 1,189,788 35,339,017 12,452,997 11,550,787 0 376,223 11,174,564 Green Equity Investors V, L.P. 90,000,000 38,969,294 674,823 0 0 674,823 12,130,822 210,067 0 0 210,067 Green Equity Investors VI, L.P. 32,000,000 20,384,666 21,470,604 30,934 0 21,501,537 9,855,837 10,381,135 14,957 0 10,396,091 Green Equity Investors VII LP 25,000,000 17,900,000 22,395,348 0 572,402 21,821,537 9,855,837 10,381,135 14,957 0 10,396,091 Green Equity Investors VII, L.P. 38,100,000 26,685,999 31,513 0 0 31,513 8,315,632 9,820 0 0 9,820 <	DivcoWest Fund IV	20,800,000	14,568,740	934,614	. (113,433	821,181	4,539,761	291,235		35,347	255,888
Green Equity Investors V, L.P. 90,000,000 38,969,294 674,823 0 0 674,823 12,130,822 210,067 0 0 210,067 Green Equity Investors VI, L.P. 32,000,000 20,384,166 21,470,604 30,934 0 21,501,537 9,855,837 10,381,135 14,957 0 10,396,091 Green Equity Investors VII LP 25,000,000 17,900,000 22,395,348 0 572,402 21,822,946 5,575,000 6,975,088 0 178,276 6,796,812 Green Equity Investors VII, L.P. 38,100,000 26,685,999 31,513 0 0 31,513 8,315,632 9,820 0 0 9,820 Greenfield Acquisition Partners VII, L.P. 27,800,000 19,471,678 2,356,825 0 651,692 1,705,133 6,067,572 734,411 0 203,074 531,337 H.I.G. BioVentures II, L.P. 13,500,000 8,599,570 6,043,738 0 1,019,696 5,024,042 4,157,931 2,922,175 0 493,028 2,429,147 </td <td>Essex Woodlands Fund VIII, L.P.</td> <td>22,500,000</td> <td>9,742,323</td> <td>-748,415</td> <td>(</td> <td>0</td> <td>-748,415</td> <td>3,032,705</td> <td>-232,975</td> <td>0</td> <td>0</td> <td>-232,975</td>	Essex Woodlands Fund VIII, L.P.	22,500,000	9,742,323	-748,415	(0	-748,415	3,032,705	-232,975	0	0	-232,975
Green Equity Investors VI, L.P. 32,000,000 20,384,166 21,470,604 30,934 0 21,501,537 9,855,837 10,381,135 14,957 0 10,396,091 Green Equity Investors VII LP 25,000,000 17,900,000 22,395,348 0 572,402 21,822,946 5,575,000 6,975,088 0 178,276 6,796,812 Greenfield Acquisition Partners VI, L.P. 38,100,000 26,685,999 31,513 0 0 31,513 8,315,632 9,820 0 0 9,820 Greenfield Acquisition Partners VII, L.P. 27,800,000 19,471,678 2,356,825 0 651,692 1,705,133 6,067,572 734,411 0 203,074 531,337 H.I.G. BioVentures II, L.P. 13,500,000 8,599,570 6,043,738 0 1,019,696 5,024,042 4,157,931 2,922,175 0 493,028 2,429,147	Fundamental Partners III LP	70,000,000	39,382,001	36,528,805	(1,189,788	35,339,017	12,452,997	11,550,787	C	376,223	11,174,564
Green Equity Investors VI, L.P. 32,000,000 20,384,166 21,470,604 30,934 0 21,501,537 9,855,837 10,381,135 14,957 0 10,396,091 Green Equity Investors VII LP 25,000,000 17,900,000 22,395,348 0 572,402 21,822,946 5,575,000 6,975,088 0 178,276 6,796,812 Greenfield Acquisition Partners VI, L.P. 38,100,000 26,685,999 31,513 0 0 31,513 8,315,632 9,820 0 0 9,820 Greenfield Acquisition Partners VII, L.P. 27,800,000 19,471,678 2,356,825 0 651,692 1,705,133 6,067,572 734,411 0 203,074 531,337 H.I.G. BioVentures II, L.P. 13,500,000 8,599,570 6,043,738 0 1,019,696 5,024,042 4,157,931 2,922,175 0 493,028 2,429,147						0	674,823	12,130,822	210,067	·		
Green Equity Investors VII LP 25,000,000 17,900,000 22,395,348 0 572,402 21,822,946 5,575,000 6,975,088 0 178,276 6,796,812 Greenfield Acquisition Partners VI, LP. 38,100,000 26,685,999 31,513 0 0 31,513 8,315,632 9,820 0 0 9,820 Greenfield Acquisition Partners VII, L.P. 27,800,000 19,471,678 2,356,825 0 651,692 1,705,133 6,067,572 734,411 0 203,074 531,337 H.I.G. BioVentures II, L.P. 13,500,000 8,599,570 6,043,738 0 1,019,696 5,024,042 4,157,931 2,922,175 0 493,028 2,429,147						1 0		9,855,837	10,381,135	14,957	0	
Greenfield Acquisition Partners VI, L.P. 38,100,000 26,685,999 31,513 0 0 31,513 8,315,632 9,820 0 0 9,820 Greenfield Acquisition Partners VII, L.P. 27,800,000 19,471,678 2,356,825 0 651,692 1,705,133 6,067,572 734,411 0 203,074 531,337 H.I.G. BioVentures II, L.P. 13,500,000 8,599,570 6,043,738 0 1,019,696 5,024,042 4,157,931 2,922,175 0 493,028 2,429,147		25,000,000	17,900,000	22,395,348	, (572,402	21,822,946	5,575,000	6,975,088	C	178,276	6,796,812
Greenfield Acquisition Partners VII, L.P. 27,800,000 19,471,678 2,356,825 0 651,692 1,705,133 6,067,572 734,411 0 203,074 531,337 H.I.G. BioVentures II, L.P. 13,500,000 8,599,570 6,043,738 0 1,019,696 5,024,042 4,157,931 2,922,175 0 493,028 2,429,147						0					0	
H.I.G. BioVentures II, L.P. 13,500,000 8,599,570 6,043,738 0 1,019,696 5,024,042 4,157,931 2,922,175 0 493,028 2,429,147	Greenfield Acquisition Partners VII, L.P.	27,800,000	19,471,678	2,356,825	(651,692	1,705,133	6,067,572	734,411		203,074	
						1,019,696		4,157,931			493,028	

		•	lovoos Potiro		County Employees Hazardous Retirement System						
			County Employees Retirement System				County	Employe	etirement sy	urement System	
Pension Funds Managers	Total Pension Fund Commitment	Commitment	Beginning Valuation	Period Contributions	Period Distributions	Ending Valuation	Commitment	Beginning Valuation	Period Contributions	Period Distributions	Ending Valuation
H.I.G. Ventures II, L.P.	18,000,000	7,793,859	1,425,280		0	1,425,280	2,426,164	443,678	3 0	0	443,678
H&F Spock I LP	3,250,153	1,407,291	4,490,661		0	4,490,661	438,078	1,397,906	5 0	0	1,397,906
Harvest Partners V, L.P.	36,000,000	15,587,717	-75,818	(0	-75,818	4,852,329	-23,601	. 0	0	-23,601
Harvest Partners VI, L.P.	28,400,000	20,768,921	6,344,374	5,471		4,263,240	5,782,239	1,766,326	1,523	580,928	1,186,921
Harvest Partners VII LP	20,000,000	14,320,000	21,639,812		0	21,639,812	4,460,000	6,739,774	. 0	0	6,739,774
Hellman and Friedman Capital Partners VI, L.P.	20,000,000	8,659,843	132		0	132	2,695,738	41	. 0	0	41
Horsley Bridge International Fund V, L.P.	45,000,000	19,484,647	43,836,389	C	750,388	43,086,001	6,065,411	13,645,909	0	233,589	13,412,319
IFM US Infrastructure Debt Fund	70,000,000	39,669,146	37,393,931	1,937,532	670,576	39,331,463	13,660,943	12,877,422	2 667,232	230,928	13,544,654
Institutional Venture Partners XII, L.P.	27,000,000	11,690,788	149,869	C	0	149,869	3,639,247	46,653	3 0	0	46,653
Kayne Anderson Energy Fund VII LP	50,000,000	35,800,000	20,458,731		0	20,458,731	11,150,000	6,371,924	1 0	0	6,371,924
KCP IV Co-Invest	12,885,297	8,823,612	2,266,298	303,113	40,924	2,574,200	3,011,669	773,531	103,458	13,968	878,624
Keyhaven Capital Partners Fund III, L.P.	27,413,514	11,869,836	4,600,185	C	107,140	4,574,782	3,694,983	1,432,000) 0	33,352	1,424,092
Keyhaven Capital Partners IV LP	12,885,297	8,823,612	7,297,642	501,465	0	7,929,219	3,011,669	2,490,826	171,160	0	2,706,395
Levine Leichtman Capital Partners V, L.P.	46,000,000	31,499,949	15,041,662	87,379	127,931	15,001,110	10,751,540	5,134,009	29,824	43,665	5,120,168
Levine Leichtman Capital Partners VI LP	37,500,000	26,849,987	30,794,867	228,508	59,015	30,964,360	8,362,509	9,591,153	71,169	18,380	9,643,942
Lubert Adler VII	34,750,000	24,338,900	13,331,148		0	13,331,148	7,585,925	4,155,040) 0	0	4,155,040
Lubert-Adler Real Estate Fund VII-B LP	36,750,000	20,675,550	5,656,254	. (0	5,656,254	6,537,824	1,788,566	5 0	0	1,788,566
Magentar MTP Energy Opportunities Fund II LLC	37,500,000	26,265,000	226,381	. 0	0	226,381	8,186,251	70,558	3 0	0	70,558
Maritime Partners LP	175,000,000										
MatlinPatterson Global Opportunities Partners II	45,000,000	19,484,647	375,716	C	0	375,716	6,065,411	116,957	' 0	0	116,957
MatlinPatterson Global Opportunities Partners III	45,000,000	19,484,647	45,446	C	0	45,446	6,065,411	14,147	' 0	0	14,147
Merit Mezzanine Fund IV, L.P.	27,000,000	11,690,788	173,373	(0	173,373	3,639,247	53,970) 0	0	53,970
Mesa West Core Lending Fund, LP	57,500,000	36,357,250	37,532,721	804,501	804,501	37,532,721	11,459,750	11,830,256	5 253,578	253,578	11,830,256
Mesa West Real Estate Income Fund IV LP	36,000,000	15,587,717	7,840,335	C	0	7,840,335	4,852,329	2,440,632	2 0	0	2,440,632
MiddleGround Partners I LP	50,000,000	35,875,000	49,644,978	8,384,902	15,608	58,014,272	11,200,000	15,498,920	2,617,726	4,873	18,111,773
MiddleGround Partners II LP	50,000,000	27,301,556	19,885,057	·	0	19,885,057	9,256,264	6,741,789) 0	0	6,741,789
MiddleGround Partners II-X LP	25,000,000	13,650,778	9,332,757	·	0	9,332,757	4,628,132	3,164,159) 0	0	3,164,159
Mill Road Capital I, L.P.	27,000,000	11,690,788	1,234,325	(0	1,234,325	3,639,247	384,235	5 0	0	384,235
New Mountain Partners II, L.P.	25,000,000	10,824,804	-176		0	-176	3,369,673	-55	5 0	0	-55
New Mountain Partners III, L.P.	32,337,197	14,001,752	617,179	C	0	617,179	4,358,631	192,123	3 0	0	192,123
New Mountain Partners IV, L.P.	32,800,000	22,460,833	7,616,593	288,442	364,398	7,550,713	7,666,315	2,599,690	98,451	124,376	2,577,204
New State Capital Partners Fund III LP	17,500,000	9,555,545	2,019,070	56,661	. 0	2,075,731	3,239,692	684,541	19,210	0	703,752
Oak Hill Capital Partners II, L.P.	67,500,000	29,226,970	73,997	·	0	73,997	9,098,116	23,035	5 0	0	23,035
Oak Hill Capital Partners III, L.P.	33,750,000	14,613,485	6,758	C) 0	6,758	4,549,058	2,104	. 0	0	2,104
Oberland Capital Healthcare LP	3,450,000	2,475,375	5,011,255	C	909,055	4,102,200	772,800	1,564,488	3 0	283,802	1,280,686
Patron Capital V LP	39,112,200	22,004,524	11,049,876	95,800	728,799	10,607,650	6,958,059	3,494,086	30,293	230,454	3,354,249
Riverside Capital Appreciation Fund VI, L.P.	35,500,000	25,961,146) 0	7,396,199	7,227,806		5 0	0	2,059,165
Rubenstein Properties Fund II	20,800,000	14,568,738			0		4,539,767				2,605,526
Secondary Opportunities Fund III, L.P.	25,000,000	19,411,552	4,940,320) 0	4,940,320	5,588,448	1,422,283	3 0	0	1,422,283
Strategic Value Special Situations Fund IV LP	43,300,000	31,067,750			26,627			11,506,008			11,497,695
Strategic Value Special Situations Fund V LP	70,000,000	38,222,178				20,254,715	12,958,769				
Taurus Mining Finance Fund LLC	45,100,000	30,883,643				2,396,312	10,541,186			,	817,908
Tenaska Power Fund II, L.P.	27,000,000	12,131,225					4,055,317				
	, ,	. , .	, -			, .	, ,-	,			

		C	ounty Emp	loyees Retire	ment System		County Employees Hazardous Retirement System						
Pension Funds Managers	Total Pension Fund Commitment	Commitment	Beginning Valuation	Period Contributions	Period Distributions	Ending Valuation	Commitment	Beginning Valuation	Period Contributions	Period Distributions	Ending Valuation		
Triton Fund IV, L.P.	27,333,911	18,717,756	12,808,403	0	0	13,038,828	6,388,731	4,371,755	0	0	4,450,403		
VantagePoint Venture Partners 2006, L.P.	27,000,000	11,690,788	2,517,842	0	0	2,517,842	3,639,247	783,784	0	0	783,784		
VantagePoint Venture Partners IV, L.P.	36,000,000	15,587,717	25,380	0	0	25,380	4,852,329	7,901	0	0	7,901		
Vista Equity Partners III, L.P.	45,000,000	19,484,647	1,477,527	2,230	0	1,479,757	6,065,411	459,942	694	0	460,636		
Vista Equity Partners IV, L.P.	27,000,000	17,199,140	11,885,812	55,485	0	11,941,297	8,315,863	5,746,844	26,827	0	5,773,672		
Vista Equity Partners VI LP	25,000,000	17,900,000	23,909,528	74,627	0	23,984,155	5,575,000	7,446,683	23,243	0	7,469,926		
Walton Street Real Estate Fund VI, LP	36,000,000	17,056,796	7,276,176	0	0	7,276,176	6,030,018	2,572,316	0	0	2,572,316		
Walton Street Real Estate Fund VII, LP	38,120,000	26,700,008	6,409,519	0	0	6,409,519	8,319,997	1,997,272	0	0	1,997,272		
Warburg, Pincus Private Equity IX, L.P.	50,000,000	21,649,608	8,569	0	0	8,569	6,739,345	2,667	0	0	2,667		
Warburg, Pincus Private Equity X, L.P.	38,750,000	16,778,446	374,035	0	67,449	306,585	5,222,993	116,434	0	20,996	95,437		
Wayzata Opportunities Fund II, L.P.	67,500,000	29,226,970	632	0	0	632	9,098,116	197	0	0	197		
Wayzata Opportunities Fund III, L.P.	35,500,000	25,961,146	3,683,791	0	0	3,683,791	7,227,806	1,025,599	0	0	1,025,599		
White Oak Yield Spectrum Parallel Fund LP	100,000,000	58,940,485	81,469,068	0	5,430,559	76,038,509	19,521,309	26,982,859	0	1,798,621	25,184,238		

		County Employees Petirement System					County Employees Hazardous Retirement System						
		County Employees Retirement System				County Employees Hazardous Retirement System							
Insurance Funds Managers	Total Pension Fund Commitment	Commitment	Beginning Valuation	Period Contributions	Period Distributions	Ending Valuation	Commitment	Beginning Valuation	Period Contributions	Period Distributions	Ending Valuation		
Adams Street SPC II A1	75,000,000	34,007,112	27,530,081	. (310,390	27,219,691	17,965,829	14,544,038	C	163,978	14,380,061		
Adams Street SPC II B1	75,000,000	34,007,113	24,593,922	2,640,902	310,390	26,924,433	17,965,828	12,992,875	1,395,178	163,978	14,224,076		
AMERRA Agri Fund II, LP	16,200,000	7,502,182	4,323,588	(0	4,323,588	4,141,562	2,386,827	' C	0	2,386,827		
AMERRA-KRS Agri Holding Company, LP	35,000,000	16,208,417	10,336,722	. (121,456	10,215,266	8,947,820	5,706,364		67,050	5,639,315		
Arcano KRS Fund I, L.P.	4,000,000	1,611,501	700,583	(0	700,583	862,625	375,017	' C	0	375,017		
Arctos Sports Partners Fund II	40,000,000	0	0	(0	0	0	0		0	0		
Ares Special Situations Fund IV, L.P.	13,808,000	7,867,793	5,953,907	' (311,336	5,642,571	4,255,629	3,220,423	C	168,399	3,052,023		
Barings Euro Real Estate II	69,261,188	31,804,740	6,056,525	(0	6,165,483	17,453,816	3,323,702		0	3,383,496		
Barings Real Estate European Value Add I SCSp	48,890,250	22,450,404	8,491,216	(993,569	7,647,332	12,320,340	4,659,812		545,251	4,196,706		
Bay Hills Capital I, L.P.	7,500,000	3,021,564	225,792	. (5,237	220,555	1,617,422	120,865	C	2,804	118,061		
Bay Hills Capital III, L.P.	48,750,000	27,777,730	23,717,701	. (0	23,717,701	15,024,764	12,828,725	C	0	12,828,725		
Bay Hills Emerging Partners II LP	5,000,000	2,014,376	4,037,194	. (26,590	4,010,605	1,078,282	2,161,083	C	14,233	2,146,849		
Bay Hills Emerging Partners II-B LP	5,000,000	2,070,000	2,838,269	(89,010	2,749,259	1,250,000	1,713,931		53,750	1,660,181		
BDCM Opportunity Fund IV, L.P.	24,420,000	13,914,506	22,269,010	(132,226	22,136,784	7,526,253	12,045,143	C	71,520	11,973,623		
Blackstone Capital Partners V, L.P.	12,414,403	5,001,455	16,510	(0	16,510	2,677,245	8,838	C	0	8,838		
Blackstone Capital Partners VI, L.P.	40,000,000	21,919,994	8,859,205	43,777	7 86,294	8,816,688	13,120,008	5,302,595	26,202	51,651	5,277,146		
Blue Torch Credit Opportunities Fund II LP	60,000,000	27,169,450	26,700,165	(0	26,700,165	14,281,092	14,034,421		0	14,034,421		
BSP Co-Invest Vehicle K LP	0	0	7,838,460	(137,312	7,701,148	0	4,275,021		74,889	4,200,132		
BSP Private Credit Fund	50,000,000	22,344,255	20,651,450	(535,340	20,116,110	12,186,342	11,263,102		291,969	10,971,133		
BTG Pactual Brazil Timberland Fund I	15,500,000	7,016,381	5,143,263	(0	5,143,263	3,855,131	2,825,952		0	2,825,952		
Camelot Opportunities Fund, L.P.	2,600,000	1,047,475	289,872	. (0	289,872	560,706	155,167		0	155,167		
Cerberus KRS Levered Loan Opportunities Fund, L.P.	60,000,000	26,813,106	34,226,029	(0	34,822,643	14,623,610	18,666,547	·	0	18,991,934		
Ceres Farms	50,000,000	0	0	(0	0	0	0	(0	0		
Columbia Captal Equity Partners IV, L.P.	3,000,000	1,208,626	142,574	. (0	142,574	646,969	76,319		0	76,319		
Crestview Partners II, L.P.	7,500,000	3,021,564	1,444,976	(132,914	1,312,063	1,617,422	773,486	C	71,148	702,338		
Crestview Partners III, L.P.	21,000,000	11,965,793	10,697,822	374,162	943,129	10,128,856	6,472,206	5,786,370	202,382	510,131	5,478,621		
CS Adjacent Investment Partners Parallel LP	60,000,000	26,813,106	13,889,152	. (505,975	13,383,177	14,623,610	7,575,010		275,954	7,299,056		
CVC European Equity Partners VI, L.P.	13,146,262	7,490,735	8,162,996	21,334	393,979	7,939,112	4,051,682	4,415,303	11,539	213,100	4,294,206		
DAG Ventures II, L.P.	3,000,000	1,208,626	86,203	(0	86,203	646,969	46,144	. (0	46,144		
DAG Ventures III, L.P.	3,000,000	1,208,626	16,363	(0	16,363	646,969	8,759		0	8,759		
DAG Ventures IV, L.P.	10,000,000	4,028,752	1,742,339	(796,953	945,386	2,156,563	932,662		426,604	506,058		
DAG Ventures V, L.P.	7,000,000	3,835,999	21,662	. (0	21,662	2,296,001	12,966		0	12,966		
DCM VI, L.P.	1,500,000	604,313	213,286	(31,370	181,916	323,484	114,171		16,792	97,378		
DivcoWest Fund IV	9,200,000	4,244,869	272,319	(33,051	239,268	2,306,449	147,965	C	17,958	130,006		
Essex Woodlands Fund VIII, L.P.	5,000,000	2,014,376	-154,746	(0	-154,746	1,078,282	-82,835	C	0	-82,835		
Fundamental Partners III LP	30,000,000	13,776,001	12,777,944	. (416,193	12,361,751	7,559,998	7,012,284	. (228,399	6,783,886		
Green Equity Investors V, L.P.	10,000,000	4,028,752	69,765	(0	69,765	2,156,563	37,345		0	37,345		
Green Equity Investors VI, L.P.	28,000,000	15,343,995	16,161,809	23,285	5 0	16,185,094	9,184,005	9,673,500	13,937	' 0	9,687,437		
Green Equity Investors VII LP	25,000,000	10,349,999	12,949,264	. (330,970	12,618,295	6,250,000	7,819,605	C	199,861	7,619,744		
Greenfield Acquisition Partners VI, L.P.	16,700,000	7,704,620	9,123	(0	9,123	4,186,204	4,957	Ċ	0	4,957		
Greenfield Acquisition Partners VII, L.P.	12,200,000	5,628,527	681,270	(188,379	492,891	3,058,186	370,159	C	102,353	267,806		
H.I.G. BioVentures II, L.P.	11,500,000	6,301,998	4,429,016	(747,261	3,681,756	3,772,002	2,650,946	C	447,266	2,203,680		
H.I.G. Capital Partner V, L.P.	6,900,000	3,931,617	3,563,887	' (655,570	2,908,317	2,126,582	1,927,680	C	354,593	1,573,087		
											_		

Total Pension Fund Commitment Commitment Valuation Period Distributions Period Distributions Valuation Commitment Valuation Contributions Period Distributions Valuation Commitment Valuation Contributions Valuation Commitment Valuation Contributions Valuation Valuati				Javone Batiro		County Employees Hazardous Retirement System								
Instruction Fund			County Employees Retirement System					County Employees Hazardous Retirement Syste						
H85 Spock IIP	Insurance Funds Managers	Fund	Commitment		7 7 7		•	Commitment				_		
Names Partners V.L.P.	H.I.G. Ventures II, L.P.	2,000,000	805,750	147,349	C	0	147,349	431,313	78,875	0	0	78,875		
Harvest Partners VI, L.P.	H&F Spock I LP	1,794,672	723,029	1,566,866	C	0	1,566,866	387,032	838,733	0	0	838,733		
Names Fartners VII LP	Harvest Partners V, L.P.	4,000,000	1,611,501	-7,839	(0	-7,839	862,625	-4,196	0	0	-4,196		
Hellman and Friedman Capital Partners Vi, I.P.	Harvest Partners VI, L.P.	11,600,000	6,609,681	2,019,090	1,741	664,060	1,356,771	3,575,121	1,092,109	942	359,184	733,866		
Horsley Bridge International Fund V, LP	Harvest Partners VII LP	20,000,000	8,279,999	12,512,404	. (0	12,512,404	5,000,000	7,555,801	. 0	0	7,555,801		
IFM US Infrastructure Dethe Fund 3,000,000 13,890,494 13,993,898 678,444 234,808 13,772,522 7,156,853 6,746,373 349,557 120,961 7,095,930 1,000,000 1,008,656 15,464 0 0 1,142,9489 1,250,000 7,143,412 0 0 0 0 0 0 0 0 0	Hellman and Friedman Capital Partners VI, L.P.	7,500,000	3,021,564	46	C	0	46	1,617,422	25	0	0	25		
Institutional Venture Partners XII, L.P. 3,000,000	Horsley Bridge International Fund V, L.P.	5,000,000	2,014,376	4,531,926	C	77,577	4,454,349	1,078,282	2,425,909	0	41,527	2,384,382		
Keyme Anderson Energy Fund VIILP	IFM US Infrastructure Debt Fund	30,000,000	13,890,494	13,093,808	678,444	234,808	13,772,252	7,156,853	6,746,373	349,557	120,981	7,095,930		
KCP NC O-Invest 8,843,703 5,039,138 1,294,275 173,107 23,371 1,470,117 2,725,633 700,064 93,632 12,641 795,175 747,954 565,039 254,575 0 5,929 255,169 6,649,469 74,649	Institutional Venture Partners XII, L.P.	3,000,000	1,208,626	15,440		0	15,440	646,969	8,265	0	0	8,265		
Sephane Capital Partners Fund III, LP.	Kayne Anderson Energy Fund VII LP	50,000,000	20,699,998	11,829,489		0	11,829,489	12,500,001	7,143,412	. 0	0	7,143,412		
Exphane Capital Partners V.P. 24,000,000 13,675,190 6,530,094 37,934 55,540 6,512,488 7,396,807 3,532,078 20,518 30,041 3,522,555 1,64,904 0 2,449,332 1,616,611 1,79,100 1,73,100 1,7	KCP IV Co-Invest	8,843,703	5,039,138	1,294,275	173,107	23,371	1,470,117	2,725,633	700,064	93,632	12,641	795,175		
Levine Leichtman Capital Partners V. L.P. 24,000,000 13,675,190 6,530,094 37,934 55,540 6,512,488 7,396,807 3,532,078 20,518 30,041 3,522,555 Levine Leichtman Capital Partners VI LP 37,500,000 15,255,007 17,805,996 132,126 34,123 17,903,989 3,975,2383 7,9766 20,601 0,811,564 0 0 3,884,020 3,823,174 2,094,067 0 0 2,094,067 0 0 2,094,067 0 0 2,094,067 0 0 0,094,067 0 0 0,094,067 0 0 0,094,067 0	Keyhaven Capital Partners Fund III, L.P.	3,042,060	1,225,570	475,580	(11,077	472,954	656,039	254,575	0	5,929	253,169		
Levine Leichtman Capital Partners VI LP 37,500,000 15,525,007 17,805,986 132,126 34,123 17,903,989 9,374,983 10,752,383 79,786 20,606 10,811,564 Lubert Adler VII 15,250,000 7,036,550 3,854,020 0 0 3,854,020 3,824,020 3,823,174 2,094,067 0 0 0,00 0 0 0 0,058,808 0 0 1,085,808 0 0 0,00 0 </td <td>Keyhaven Capital Partners IV LP</td> <td>8,843,703</td> <td>5,039,138</td> <td>4,167,661</td> <td>286,385</td> <td>0</td> <td>4,528,352</td> <td>2,725,633</td> <td>2,254,257</td> <td>154,904</td> <td>. 0</td> <td>2,449,352</td>	Keyhaven Capital Partners IV LP	8,843,703	5,039,138	4,167,661	286,385	0	4,528,352	2,725,633	2,254,257	154,904	. 0	2,449,352		
Lubert Adler VII 15,250,000 7,036,350 3,854,020 0 0 3,823,174 2,094,067 0 0 2,094,067 Lubert-Adler Real Estate Fund VII-B LP 15,750,000 7,232,401 1,978,583 0 0 1,978,583 3,968,999 1,085,808 0 0 0 0 0 1,978,583 3,968,999 1,085,808 0 2,94,849 0 0 2,94,849 0 0 2,92,44 0 0 1,94,24 <td< td=""><td>Levine Leichtman Capital Partners V, L.P.</td><td>24,000,000</td><td>13,675,190</td><td>6,530,094</td><td>37,934</td><td>55,540</td><td>6,512,488</td><td>7,396,807</td><td>3,532,078</td><td>20,518</td><td>30,041</td><td>3,522,555</td></td<>	Levine Leichtman Capital Partners V, L.P.	24,000,000	13,675,190	6,530,094	37,934	55,540	6,512,488	7,396,807	3,532,078	20,518	30,041	3,522,555		
Lubert-Adler Real Estate Fund VII-B LP	Levine Leichtman Capital Partners VI LP	37,500,000	15,525,007	17,805,986	132,126	34,123	17,903,989	9,374,983	10,752,383	79,786	20,606	10,811,564		
Magentar MTP Energy Opportunities Fund II LLC 12,500,000	Lubert Adler VII	15,250,000	7,036,350	3,854,020	(0	3,854,020	3,823,174	2,094,067	0	0	2,094,067		
Martime Partners LP	Lubert-Adler Real Estate Fund VII-B LP	15,750,000	7,232,401	1,978,583	C	0	1,978,583	3,968,999	1,085,808	0	0	1,085,808		
MatlinPatterson Global Opportunities Partners III 5,000,000 2,014,376 38,842 0 0 38,842 1,078,282 20,792 0 0 20,792 MatlinPatterson Global Opportunities Partners III 5,000,000 2,014,376 4,704 0 0 0 4,704 1,078,282 2,518 0 0 0 2,518 Morth Mezzanine Fund IV, LP. 3,000,000 1,208,626 17,924 0 0 17,924 646,969 9,595 0 0 9,595 Mesa West Core Lending Fund, LP 29,600,000 13,790,640 13,790,640 1,062,675 451,490 451,490 21,062,675 7,619,040 11,636,687 249,439 249,439 11,636,687 Mesa West Real Estate Income Fund IV LP 14,000,000 6,428,800 3,232,249 0 0 3,232,249 3,527,999 1,773,795 0 0 1,773,795 MiddleGround Partners II LP 25,000,000 1,262,000 5,189,371 876,471 1,631 6,064,211 1,999,999 2,767,664 467,451 870 3,232,249 40,000 4,000,000 4,000,000 1,262,000 5,189,371 876,471 1,631 6,064,211 1,999,999 2,767,664 467,451 870 3,232,249 40,000 4,000,000	Magentar MTP Energy Opportunities Fund II LLC	12,500,000	5,764,587	49,686		0	49,686	3,188,762	27,484	. 0	0	27,484		
Martin Patterson Global Opportunities Partners III 5,000,000 2,014,376 4,704 0 0 4,704 1,078,282 2,518 0 0 2,518 Merit Mezzanine Fund IV, L.P. 3,000,000 1,208,626 17,924 0 0 17,924 646,969 9,595 0 0 9,595	Maritime Partners LP	75,000,000	0	0		0	0	0	0	0	0	0		
Merit Mezzanine Fund IV, LP. 3,000,000 1,208,626 17,924 0 0 17,924 646,969 9,595 0 0 9,595 Mesa West Real Estate Income Fund IV LP 14,000,000 6,428,000 3,232,249 0 0 0 3,232,249 3,2249	MatlinPatterson Global Opportunities Partners II	5,000,000	2,014,376	38,842		0	38,842	1,078,282	20,792	. 0	0	20,792		
Mesa West Core Lending Fund, LP 29,600,000 13,790,640 21,062,675 451,490 451,490 21,062,675 7,619,040 11,636,687 249,439 249,439 11,636,687 Mesa West Real Estate Income Fund IV LP 14,000,000 6,428,800 3,232,249 0 0 3,232,249 3,527,999 1,773,795 0 0 1,773,795 MiddleGround Partners II LP 25,000,000 11,262,207 8,202,815 0 0 8,202,815 5,794,817 4,220,648 467,451 870 3,232,424 MiddleGround Partners II LP 25,000,000 11,262,207 8,202,815 0 0 8,202,815 5,794,817 4,220,648 467,451 870 0 4,220,648 MiddleGround Partners II LP 12,500,000 5,631,103 3,849,869 0 0 3,849,869 2,897,408 1,980,898 0 0 1,980,898 MiddleGround Partners II LP. 5,000,000 2,014,376 16 0 0 127,607 646,969 68,307 0 0 9,802,898	MatlinPatterson Global Opportunities Partners III	5,000,000	2,014,376	4,704	. (0	4,704	1,078,282	2,518	0	0	2,518		
Mesa West Real Estate Income Fund IV LP 14,000,000 6,428,800 3,232,249 0 0 3,232,249 3,527,999 1,773,795 0 0 1,773,795 MiddleGround Partners II LP 25,000,000 3,750,000 5,189,371 876,471 1,631 6,064,211 1,999,999 2,767,664 467,451 870 3,234,244 MiddleGround Partners II LP 25,000,000 11,262,207 8,202,815 0 0 8,202,815 5,794,817 4,220,648 0 0 4,220,648 MiddleGround Partners II LP 12,500,000 5,631,103 3,849,869 0 0 3,849,869 2,897,408 1,980,898 0 0 1,980,898 Mill Road Capital I, LP. 3,000,000 1,208,626 127,607 0 0 127,607 646,969 68,307 0 0 9,800,593 0 0 9,800,593 0 0 1,778,7795 9 0 0 1,773,795 0 0 1,773,795 0 0 1,773,795 0 0	Merit Mezzanine Fund IV, L.P.	3,000,000	1,208,626	17,924	. (0	17,924	646,969	9,595	0	0	9,595		
MiddleGround Partners ILP 25,000,000 3,750,000 5,189,371 876,471 1,631 6,064,211 1,999,999 2,767,664 467,451 870 3,234,244 MiddleGround Partners II LP 25,000,000 11,262,207 8,202,815 0 0 8,202,815 5,794,817 4,220,648 0 0 4,220,648 MiddleGround Partners II-X LP 12,500,000 5,631,103 3,849,869 0 0 0 3,849,869 2,897,408 1,980,898 0 0 1,980,898 Mill Road Capital I, L.P. 3,000,000 1,208,626 127,607 0 0 127,607 646,969 68,307 0 0 68,307 New Mountain Partners III, L.P. 5,000,000 2,014,376 16 0 0 0 16 1,078,282 9 0 0 0 68,307 New Mountain Partners III, L.P. 7,186,045 2,895,079 127,611 0 0 127,611 1,549,716 68,309 0 0 68,076 85,852 1,782,061 New State Capital Partners Fund III LP 7,500,000 3,378,662 713,906 20,035 0 733,940 1,738,445 367,331 10,309 0 377,639 0 0 0 0 0 0 0 0 0	Mesa West Core Lending Fund, LP	29,600,000	13,790,640	21,062,675	451,490	451,490	21,062,675	7,619,040	11,636,687	249,439	249,439	11,636,687		
MiddleGround Partners II LP 25,000,000 11,262,207 8,202,815 0 0 8,202,815 5,794,817 4,220,648 0 0 4,220,648 MiddleGround Partners III-X LP 12,500,000 5,631,103 3,849,869 0 0 3,849,869 2,897,408 1,980,898 0 0 1,980,898 Mill Road Capital I, LP. 3,000,000 1,208,626 127,607 0 0 127,607 646,969 68,307 0 0 68,307 New Mountain Partners III, LP. 5,000,000 2,014,376 16 0 0 16 1,078,282 9 0 0 68,309 New Mountain Partners III, LP. 7,186,045 2,895,079 127,611 0 0 127,611 1,549,716 68,309 0 0 68,309 New State Capital Partners Fund IIII LP 7,500,000 3,802,846 7,550 0 73,906 20,35 0 733,940 1,738,445 367,331 10,309 0 3,776,90 Oak Hill Capital Partners III, L	Mesa West Real Estate Income Fund IV LP	14,000,000	6,428,800	3,232,249		0	3,232,249	3,527,999	1,773,795	0	0	1,773,795		
MiddleGround Partners II-X LP 12,500,000 5,631,103 3,849,869 0 0 3,849,869 2,897,408 1,980,898 0 0 1,980,898 Mill Road Capital I, L.P. 3,000,000 1,208,626 127,607 0 0 127,607 646,969 68,307 0 0 68,307 New Mountain Partners III, L.P. 5,000,000 2,014,376 16 0 0 16 1,078,282 9 0 0 68,309 New Mountain Partners III, L.P. 7,186,045 2,895,079 127,611 0 0 127,611 1,549,716 68,309 0 0 68,309 New Mountain Partners IV, L.P. 17,200,000 9,800,553 3,323,415 125,858 158,723 3,294,668 5,301,045 1,797,610 68,076 85,852 1,782,061 New State Capital Partners III, L.P. 7,500,000 3,378,662 713,906 20,035 0 733,940 1,738,445 367,331 10,309 0 377,639 Oak Hill Capital Partners III, L.P. <	MiddleGround Partners I LP	25,000,000	3,750,000	5,189,371	876,471	1,631	6,064,211	1,999,999	2,767,664	467,451	870	3,234,244		
Mill Road Capital I, L.P. 3,000,000 1,208,626 127,607 0 0 127,607 646,969 68,307 0 0 68,307 New Mountain Partners II, L.P. 5,000,000 2,014,376 16 0 0 16 1,078,282 9 0 0 0 9 New Mountain Partners III, L.P. 7,186,045 2,895,079 127,611 0 0 127,611 1,549,716 68,309 0 0 68,307 New Mountain Partners IV, L.P. 17,200,000 9,800,553 3,323,415 125,858 158,723 3,294,668 5,301,045 1,797,610 68,076 85,852 1,782,061 New State Capital Partners Fund III L.P. 7,500,000 3,378,662 713,906 20,035 0 733,940 1,738,445 367,331 10,309 0 377,639 Oak Hill Capital Partners III, L.P. 7,500,000 3,021,564 7,650 0 0 7,650 1,617,422 4,095 0 0 4,095 Oak Hill Capital Partners III, L.P. 12,500,000 5,035,940 2,329 0 0 0 2,329 2,695,704 1,247 0 0 0 1,247 Oberland Capital Healthcare L.P 15,500,000 4,840,652 979,962 0 177,768 802,194 2,631,898 532,813 0 96,654 436,159 Patron Capital V.L.P 15,210,300 6,984,570 3,507,451 30,409 231,332 3,367,083 3,832,995 1,924,820 16,688 126,950 1,847,789 Riverside Capital Appreciation Fund VI, L.P. 18,712,500 10,748,972 3,062,292 0 0 3,062,292 5,705,349 1,625,406 0 0 1,625,406 Rubenstein Properties Fund II 9,200,000 4,244,871 2,436,275 0 0 8,878,332 18,849,301 4,797,224 0 0 1,323,747 Secondary Opportunities Fund III, L.P. 75,000,000 34,884,827 8,878,332 0 0 8,878,332 18,849,301 4,797,224 0 0 0 1,323,747 Strategic Value Special Situations Fund VLP 30,000,000 13,514,648 5,815,292 1,346,397 1,740 7,161,689 6,953,788 2,992,180 692,770 895 3,684,951 1,340,900 11,339,013 977,788 0 97,975 879,812 6,133,188 528,878 0 52,994 475,884 1,400,000 11,400,000 11,400,000 11,400,000 11,400,000 11,400,000 11,400,000 11,400,000 11,400,000 11,400,000 11,40	MiddleGround Partners II LP	25,000,000	11,262,207	8,202,815	C	0	8,202,815	5,794,817	4,220,648	0	0	4,220,648		
New Mountain Partners II, L.P. 5,000,000 2,014,376 16 0 0 16 1,078,282 9 0 0 9 New Mountain Partners III, L.P. 7,186,045 2,895,079 127,611 0 0 127,611 1,549,716 68,309 0 0 68,309 New Mountain Partners IV, L.P. 17,200,000 9,800,553 3,323,415 125,858 158,723 3,294,668 5,301,045 1,797,610 68,076 85,852 1,782,061 New State Capital Partners III, L.P. 7,500,000 3,378,662 713,906 20,035 0 733,940 1,738,445 367,331 10,309 0 377,639 Oak Hill Capital Partners III, L.P. 7,500,000 3,021,564 7,650 0 0 7,650 1,617,422 4,095 0 0 0 1,617,422 4,095 0 0 1,247 0 0 1,247 0 0 1,247 0 0 1,247 0 0 1,247 0 0 1,243	MiddleGround Partners II-X LP	12,500,000	5,631,103	3,849,869		0	3,849,869	2,897,408	1,980,898	0	0	1,980,898		
New Mountain Partners III, L.P. 7,186,045 2,895,079 127,611 0 0 127,611 1,549,716 68,309 0 0 68,309 New Mountain Partners IV, L.P. 17,200,000 9,800,553 3,323,415 125,858 158,723 3,294,668 5,301,045 1,797,610 68,076 85,852 1,782,061 New State Capital Partners IV, L.P. 7,500,000 3,378,662 713,906 20,035 0 733,940 1,738,445 367,331 10,309 0 377,639 Oak Hill Capital Partners IV, L.P. 7,500,000 3,021,564 7,650 0 0 7,650 1,617,422 4,095 0 0 4,095 Oak Hill Capital Partners III, L.P. 12,500,000 5,035,940 2,329 0 0 2,329 2,695,704 1,247 0 0 1,247 Oberland Capital Healthcare LP 15,500,000 4,840,652 979,962 0 177,768 802,194 2,631,898 352,813 0 96,654 436,159 Patron Capital VLP	Mill Road Capital I, L.P.	3,000,000	1,208,626	127,607	·	0	127,607	646,969	68,307	. 0	0	68,307		
New Mountain Partners IV, L.P. 17,200,000 9,800,553 3,323,415 125,858 158,723 3,294,668 5,301,045 1,797,610 68,076 85,852 1,782,061 New State Capital Partners Fund III LP 7,500,000 3,378,662 713,906 20,035 0 733,940 1,738,445 367,331 10,309 0 377,639 Oak Hill Capital Partners III, L.P. 7,500,000 3,021,564 7,650 0 0 7,650 1,617,422 4,095 0 0 4,095 Oak Hill Capital Partners III, L.P. 12,500,000 5,035,940 2,329 0 0 2,529 2,695,704 1,247 0 0 1,247 Oberland Capital Healthcare LP 15,500,000 4,840,652 979,962 0 177,768 802,194 2,631,898 532,813 0 96,654 436,159 Patron Capital VLP 15,210,300 6,984,570 3,507,451 30,409 231,332 3,367,083 3,832,995 1,924,820 16,688 126,950 1,847,789 Rive	New Mountain Partners II, L.P.	5,000,000	2,014,376	16		0	16	1,078,282	9	0	0	9		
New State Capital Partners Fund III LP 7,500,000 3,378,662 713,906 20,035 0 733,940 1,738,445 367,331 10,309 0 377,639 Oak Hill Capital Partners II, L.P. 7,500,000 3,021,564 7,650 0 0 7,650 1,617,422 4,095 0 0 4,095 Oak Hill Capital Partners III, L.P. 12,500,000 5,035,940 2,329 0 0 2,329 2,695,704 1,247 0 0 1,247 Oberland Capital Healthcare LP 15,500,000 4,840,652 979,962 0 177,768 802,194 2,631,898 532,813 0 96,654 436,159 Patron Capital V LP 15,210,300 6,984,570 3,507,451 30,409 231,332 3,367,083 3,832,995 1,924,820 16,688 126,950 1,847,789 Riverside Capital Appreciation Fund VI, L.P. 18,712,500 10,748,972 3,062,292 0 0 3,062,292 5,705,349 1,625,406 0 0 1,625,406 Rubenstein	New Mountain Partners III, L.P.	7,186,045	2,895,079	127,611	. (0	127,611	1,549,716	68,309	0	0	68,309		
Oak Hill Capital Partners II, L.P. 7,500,000 3,021,564 7,650 0 0 7,650 1,617,422 4,095 0 0 4,095 Oak Hill Capital Partners III, L.P. 12,500,000 5,035,940 2,329 0 0 2,329 2,695,704 1,247 0 0 1,247 Oberland Capital Healthcare LP 15,500,000 4,840,652 979,962 0 177,768 802,194 2,631,898 532,813 0 96,654 436,159 Patron Capital VLP 15,210,300 6,984,570 3,507,451 30,409 231,332 3,367,083 3,832,995 1,924,820 16,688 126,950 1,847,789 Riverside Capital Appreciation Fund VI, L.P. 18,712,500 10,748,972 3,062,292 0 0 3,062,292 5,705,349 1,625,406 0 0 1,625,406 Rubenstein Properties Fund III 9,200,000 4,244,871 2,436,275 0 0 2,436,275 2,306,445 1,323,747 0 0 1,323,747 Secondary Opportunitie	New Mountain Partners IV, L.P.	17,200,000	9,800,553	3,323,415	125,858	158,723	3,294,668	5,301,045	1,797,610	68,076	85,852	1,782,061		
Oak Hill Capital Partners III, L.P. 12,500,000 5,035,940 2,329 0 0 2,329 2,695,704 1,247 0 0 1,247 Oberland Capital Healthcare LP 15,500,000 4,840,652 979,962 0 177,768 802,194 2,631,898 532,813 0 96,654 436,159 Patron Capital V LP 15,210,300 6,984,570 3,507,451 30,409 231,332 3,367,083 3,832,995 1,924,820 16,688 126,950 1,847,789 Riverside Capital Appreciation Fund VI, L.P. 18,712,500 10,748,972 3,062,292 0 0 3,062,292 5,705,349 1,625,406 0 0 1,625,406 Rubenstein Properties Fund II 9,200,000 4,244,871 2,436,275 0 0 2,436,275 2,306,445 1,323,747 0 0 1,625,406 Secondary Opportunities Fund III, L.P. 75,000,000 34,884,827 8,788,332 0 0 8,878,332 18,849,301 4,797,224 0 0 4,797,224 <td< td=""><td>New State Capital Partners Fund III LP</td><td>7,500,000</td><td>3,378,662</td><td>713,906</td><td>20,035</td><td>0</td><td>733,940</td><td>1,738,445</td><td>367,331</td><td>10,309</td><td>0</td><td>377,639</td></td<>	New State Capital Partners Fund III LP	7,500,000	3,378,662	713,906	20,035	0	733,940	1,738,445	367,331	10,309	0	377,639		
Oberland Capital Healthcare LP 15,500,000 4,840,652 979,962 0 177,768 802,194 2,631,898 532,813 0 96,654 436,159 Patron Capital V LP 15,210,300 6,984,570 3,507,451 30,409 231,332 3,367,083 3,832,995 1,924,820 16,688 126,950 1,847,789 Riverside Capital Appreciation Fund VI, L.P. 18,712,500 10,748,972 3,062,292 0 0 3,062,292 5,705,349 1,625,406 0 0 1,625,406 Rubenstein Properties Fund II 9,200,000 4,244,871 2,436,275 0 0 2,436,275 2,306,445 1,323,747 0 0 1,323,747 Secondary Opportunities Fund III, L.P. 75,000,000 34,884,827 8,878,332 0 0 8,878,332 18,849,301 4,797,224 0 0 4,977,224 Strategic Value Special Situations Fund VLP 21,700,000 6,776,910 8,039,332 0 5,808 8,033,524 3,684,660 4,371,050 0 3,158 4,367,891 <td>Oak Hill Capital Partners II, L.P.</td> <td>7,500,000</td> <td>3,021,564</td> <td>7,650</td> <td></td> <td>0</td> <td>7,650</td> <td>1,617,422</td> <td>4,095</td> <td>0</td> <td>0</td> <td>4,095</td>	Oak Hill Capital Partners II, L.P.	7,500,000	3,021,564	7,650		0	7,650	1,617,422	4,095	0	0	4,095		
Patron Capital V LP 15,210,300 6,984,570 3,507,451 30,409 231,332 3,367,083 3,832,995 1,924,820 16,688 126,950 1,847,789 Riverside Capital Appreciation Fund VI, L.P. 18,712,500 10,748,972 3,062,292 0 0 3,062,292 5,705,349 1,625,406 0 0 1,625,406 Rubenstein Properties Fund II 9,200,000 4,244,871 2,436,275 0 0 2,436,275 2,306,445 1,323,747 0 0 1,323,747 Secondary Opportunities Fund III, L.P. 75,000,000 34,884,827 8,878,332 0 0 8,878,332 1,8849,301 4,797,224 0 0 4,797,224 Strategic Value Special Situations Fund IV LP 21,700,000 6,776,910 8,039,332 0 5,808 8,033,524 3,684,660 4,371,050 0 3,158 436,7891 Strategic Value Special Situations Fund V LP 30,000,000 13,514,648 5,815,292 1,346,397 1,740 7,161,689 6,953,780 2,992,180 692,770 8	Oak Hill Capital Partners III, L.P.	12,500,000	5,035,940	2,329		0	2,329	2,695,704	1,247	0	0	1,247		
Riverside Capital Appreciation Fund VI, L.P. 18,712,500 10,748,972 3,062,292 0 0 3,062,292 5,705,349 1,625,406 0 0 1,625,406 Rubenstein Properties Fund II 9,200,000 4,244,871 2,436,275 0 0 2,436,275 2,306,445 1,323,747 0 0 1,323,747 Secondary Opportunities Fund III, L.P. 75,000,000 34,884,827 8,878,332 0 0 8,878,332 18,849,301 4,797,224 0 0 4,797,224 Strategic Value Special Situations Fund IV LP 21,700,000 6,776,910 8,039,332 0 5,808 8,033,524 3,684,660 4,371,050 0 3,158 4,367,891 Strategic Value Special Situations Fund V LP 30,000,000 13,514,648 5,815,292 1,346,397 1,740 7,161,689 6,953,780 2,992,180 692,770 895 3,684,951 Taurus Mining Finance Fund LLC 19,900,000 11,339,013 977,788 0 97,975 879,812 6,133,188 528,878 0 52,994 <td>Oberland Capital Healthcare LP</td> <td>15,500,000</td> <td>4,840,652</td> <td>979,962</td> <td></td> <td>177,768</td> <td>802,194</td> <td>2,631,898</td> <td>532,813</td> <td>0</td> <td>96,654</td> <td>436,159</td>	Oberland Capital Healthcare LP	15,500,000	4,840,652	979,962		177,768	802,194	2,631,898	532,813	0	96,654	436,159		
Rubenstein Properties Fund II 9,200,000 4,244,871 2,436,275 0 0 2,436,275 2,306,445 1,323,747 0 0 1,323,747 Secondary Opportunities Fund III, L.P. 75,000,000 34,884,827 8,878,332 0 0 8,878,332 18,849,301 4,797,224 0 0 4,797,224 Strategic Value Special Situations Fund IV LP 21,700,000 6,776,910 8,039,332 0 5,808 8,033,524 3,684,660 4,371,050 0 3,158 4,367,891 Strategic Value Special Situations Fund V LP 30,000,000 13,514,648 5,815,292 1,346,397 1,740 7,161,689 6,953,780 2,992,180 692,770 895 3,684,951 Taurus Mining Finance Fund LLC 19,900,000 11,339,013 977,788 0 97,975 879,812 6,133,188 528,878 0 52,994 475,884	Patron Capital V LP	15,210,300	6,984,570	3,507,451	30,409	231,332	3,367,083	3,832,995	1,924,820	16,688	126,950	1,847,789		
Secondary Opportunities Fund III, L.P. 75,000,000 34,884,827 8,878,332 0 0 8,878,332 18,849,301 4,797,224 0 0 4,797,224 Strategic Value Special Situations Fund IV LP 21,700,000 6,776,910 8,039,332 0 5,808 8,033,524 3,684,660 4,371,050 0 3,158 4,367,891 Strategic Value Special Situations Fund V LP 30,000,000 13,514,648 5,815,292 1,346,397 1,740 7,161,689 6,953,780 2,992,180 692,770 895 3,684,951 Taurus Mining Finance Fund LLC 19,900,000 11,339,013 977,788 0 97,975 879,812 6,133,188 528,878 0 52,994 475,884	Riverside Capital Appreciation Fund VI, L.P.	18,712,500	10,748,972	3,062,292		0	3,062,292	5,705,349	1,625,406	0	0	1,625,406		
Strategic Value Special Situations Fund IV LP 21,700,000 6,776,910 8,039,332 0 5,808 8,033,524 3,684,660 4,371,050 0 3,158 4,367,891 Strategic Value Special Situations Fund V LP 30,000,000 13,514,648 5,815,292 1,346,397 1,740 7,161,689 6,953,780 2,992,180 692,770 895 3,684,951 Taurus Mining Finance Fund LLC 19,900,000 11,339,013 977,788 0 97,975 879,812 6,133,188 528,878 0 52,994 475,884	Rubenstein Properties Fund II	9,200,000	4,244,871	2,436,275	(0	2,436,275	2,306,445	1,323,747	0	0	1,323,747		
Strategic Value Special Situations Fund V LP 30,000,000 13,514,648 5,815,292 1,346,397 1,740 7,161,689 6,953,780 2,992,180 692,770 895 3,684,951 Taurus Mining Finance Fund LLC 19,900,000 11,339,013 977,788 0 97,975 879,812 6,133,188 528,878 0 52,994 475,884	Secondary Opportunities Fund III, L.P.	75,000,000	34,884,827	8,878,332		0	8,878,332	18,849,301	4,797,224	. 0	0	4,797,224		
Strategic Value Special Situations Fund V LP 30,000,000 13,514,648 5,815,292 1,346,397 1,740 7,161,689 6,953,780 2,992,180 692,770 895 3,684,951 Taurus Mining Finance Fund LLC 19,900,000 11,339,013 977,788 0 97,975 879,812 6,133,188 528,878 0 52,994 475,884	Strategic Value Special Situations Fund IV LP	21,700,000	6,776,910	8,039,332		5,808	8,033,524	3,684,660	4,371,050	0	3,158	4,367,891		
		30,000,000	13,514,648	5,815,292	1,346,397	1,740	7,161,689	6,953,780	2,992,180	692,770	895	3,684,951		
Tenaska Power Fund II, L.P. 3,000,000 1,278,755 3,769 0 0 3,769 678,044 1,998 0 0 1,998	Taurus Mining Finance Fund LLC	19,900,000	11,339,013	977,788	(97,975	879,812	6,133,188	528,878	0	52,994	475,884		
	Tenaska Power Fund II, L.P.	3,000,000	1,278,755	3,769) 0	3,769	678,044	1,998	0	0	1,998		

		C	loyees Retire	nent System		County Employees Hazardous Retirement System						
Insurance Funds Managers	Total Pension Fund Commitment	Commitment	Beginning Valuation	Period Contributions	Period Distributions	Ending Valuation	Commitment	Beginning Valuation	Period Contributions	Period Distributions	Ending Valuation	
Triton Fund IV, L.P.	14,063,009	8,013,097	5,617,926	0	0	5,718,994	4,334,223	3,038,694	0	0	3,093,360	
VantagePoint Venture Partners 2006, L.P.	3,000,000	1,208,626	260,302	0	0	260,302	646,969	139,338	0	0	139,338	
VantagePoint Venture Partners IV, L.P.	4,000,000	1,611,501	2,624	0	0	2,624	862,625	1,405	0	0	1,405	
Vista Equity Partners III, L.P.	5,000,000	2,014,376	152,754	230	0	152,984	1,078,282	81,768	123	0	81,891	
Vista Equity Partners IV, L.P.	23,000,000	12,603,996	8,710,245	40,660	0	8,750,906	7,544,005	5,213,436	24,337	0	5,237,773	
Vista Equity Partners VI LP	25,000,000	10,349,999	13,824,782	43,150	80,779	13,787,153	6,250,000	8,348,299	26,057	48,780	8,325,577	
Walton Street Real Estate Fund VI, LP	4,000,000	1,712,019	730,322	0	0	730,322	917,457	391,373	0	0	391,373	
Walton Street Real Estate Fund VII, LP	16,755,000	7,730,005	1,855,640	0	0	1,855,640	4,199,996	1,008,238	0	0	1,008,238	
Warburg, Pincus Private Equity IX, L.P.	10,000,000	4,028,752	1,595	0	0	1,595	2,156,563	854	0	0	854	
Warburg, Pincus Private Equity X, L.P.	7,500,000	3,021,564	67,335	0	12,147	55,188	1,617,422	36,044	0	6,502	29,542	
Wayzata Opportunities Fund II, L.P.	7,500,000	3,021,564	65	0	0	65	1,617,422	35	0	0	35	
Wayzata Opportunities Fund III, L.P.	18,712,500	10,748,972	1,525,240	0	0	1,525,240	5,705,349	809,568	0	0	809,568	
White Oak Yield Spectrum Parallel Fund LP	50,000,000	22,344,255	29,070,668	0	1,937,617	27,133,051	12,186,342	15,854,862	0	1,056,757	14,798,105	

Kentucky Public Pensions Authority

Commissions Report

Quarter Ending: March 31, 2023

Reports can be found:

https://kyret.ky.gov/Investments/Investments-Library/Pages/Commissions-Reports.aspx

Kentucky Public Pensions Authority

Internal Asset Holdings Report & Internal Asset Transaction Report

Quarter Ending: March 31, 2023

Reports can be found:

https://kyret.ky.gov/Investments/Investments-Library/Pages/Internal-Reports.aspx