What's going on in the marketplace?

Heightened volatility continued during the month of May. However, in sharp contrast to April and despite wide trading ranges, markets produced very modest positive returns during the month. Investors struggled to discern the market's direction while confronting persistently elevated inflation and rising rates. The markets were also confronted with tighter central bank policies globally and the potential impact on economic growth.

14bps. More specifically, the KERS, KERS-H, and SPRS Pension portfolios returned 0.6%, 0.5%, and 0.4%, respectively. All three plans outperformed their benchmarks, which experienced similar attribution drivers. Relative outperformance was driven by selection within their investments in the Specialty Credit and Real Estate allocations. Asset allocation was a slight detractor during the period, primarily due to the underweight to the Real Return asset class.

Global equity markets were slightly positive, with the MSCI ACWI gaining 12bps on the month. International markets outperformed US markets.

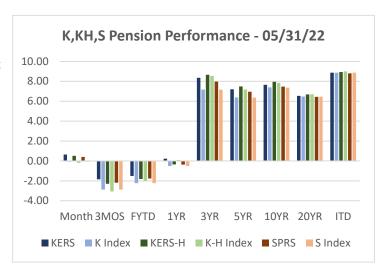
US equity markets declined 13bps during the month (Russell 3000), and the KPPA portfolio outperformed, gaining a modest 6bps during the month. Midcaps outperformed both large small caps (MC: 0.8%, LC: 0.2%, SC: 0.2%); value significantly outpace growth (R3000V: 1.9% vs R3000G: -2.3%). The KPPA portfolio's relative outperformance was driven by a combination of both stock selection and allocation. Most of the individual strategies outpaced their respective indices, and the slight value and midcap tilts were beneficial as factors performed best during the period.

NonUS equity markets outpaced their domestic counterparts, gaining 0.5% (MSCI ACWI Ex-US). Developed international markets outperformed emerging markets by 53bps (MSCI World Ex-US: 0.97% vs MSCI EM: 0.48%). Value also outperformed growth, while international small caps fell 0.9%. The KPPA portfolio was flat, trailing its index by -49bps due to continued weakness across the growth portion of the portfolio. This underperformance was partially offset by outperformance of the value-oriented mandates.

The specialty credit portfolio outperformed, adding 18bps compared to its index return of -1.2%. The high yield market performed well in general with the Bloomberg US Corporate High Yield returning 0.25% during the month; while the leveraged loan segment of the market struggled as evidenced by the S&P LSTA Leveraged Loan Index return of -2.6%.

The core fixed income portfolio, produced positive absolute performance during the month; however, it trailed its benchmark, the Bloomberg Aggregate Index (0.3% vs 0.6%). The portfolio's shorter duration profile and tactical allocation to front end investment grade credit hampered relative performance during the period.

The private equity allocation returned 2.8% during the month, bringing the fiscal year return to 24.3%. It should be noted that the asset class is reported on a quarter lag, so some of this volatile year is not yet reflected in these performance figures.



The real return portfolio gained 1.8% during the month, bringing the fiscal year return to 5.6%. Most of the individual mandates held up fairly well during the month, ranging anywhere from flat to 85bps. Driving performance for the asset class were those investments in the MLP space, which gained over 6% during the period.

Real estate has performed well for several quarters, and has been one of the best performing asset classes for the portfolio. The allocation returned 3.4% during the month, bringing the fiscal year performance to 26.0%, and has been driven by continued strength in industrial and multi-family properties.

The cash portfolio performed in line with the 3-month T-bill for the month (0.06%). The overweight to cash had little effect on relative performance during the month.

	KERS	, KERS-HAZ	, & SPRS - P	ENSION FUND	O - PLAN NE	T RETURNS	05/31/22					
Plan	Market Value	Month	3 Months	Fiscal YTD	1 Year	3 Years	5 Years	10 Years	20 Years	30 Years	ITD	
KERS	3,102,256,324.62	0.64	-1.84	-1.51	0.23	8.36	7.20	7.66	6.54	7.79	8.8	
KY Ret. KERS Plan Index		-0.07	-2.87	-2.23	-0.51	7.17	6.39	7.40	6.48	7.69	8.8	
KERS- H	851,652,793.92	0.51	-2.29	-1.82	-0.35	8.67	7.50	7.96	6.69	7.89	8.9	
KY Ret. KERS Haz Plan Inc	dex	-0.19	-3.07	-2.00	0.10	8.56	7.19	7.84	6.70	7.83	9.0	
SPRS	558,662,534.89	0.41	-2.18	-1.76	-0.37	7.97	6.96	7.47	6.44	7.73	8.8	
KY Ret. SPRS Plan Index	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	-0.07	-2.87	-2.23	-0.51	7.17	6.37	7.37		7.68	8.8	
	KDDV DEVICIO			TURNS - 05/3								
Structure	KPPA PENSIC	Month	QTD	Fiscal YTD	1 Year	3 Years	5 Years	10 Years	20 Years	30 Years	ITD	
PUBLIC EQUITY		0.03	-7.86	-10.33	-9.89	11.04	8.61	10.09		8.82	10.3	
	Indov	0.03	-7.90		-8.51	11.04	8.57	9.98		8.61	10.3	
Global Equity Blended	Index									8.01		
PRIVATE EQUITY		2.81	3.02		38.97	22.22	18.55	15.04			12.6	
Russell 3000 + 3%(Qtr l	•	2.81	3.02		38.97	22.22	18.55	17.57			12.6	
HIGH YIELD / SPECIALTY CRED	IT	0.18	-0.21		4.31	5.79					5.8	
High Yield Custom Ben	chmark	-1.16	-2.81		-2.75	3.15					3.5	
CORE FIXED INCOME		0.29	-0.90	-4.32	-4.17	1.77	2.28				2.6	
Bloomberg Barclays US	Aggregate	0.64	-3.17	-8.86	-8.22	0.00	1.18				1.9	
CASH		0.06	0.10	0.16	0.17	0.79	1.30	0.90	1.61	2.72	3.3	
Citigroup Treasury Bill	-3 Month	0.05	0.08	0.13	0.13	0.65	1.09	0.61	1.19	2.32	2.9	
REAL ESTATE		3.41	4.88	25.95	29.49	15.42	13.44	11.21	7.80	6.58	6.8	
NCREIF NFI-ODCE Net 1	Qtr in Arrears Index^	0.00	0.00	18.78	21.02	8.23	7.74	9.43	7.30	7.26	6.5	
REAL RETURN		1.78	1.33	5.56	7.43	6.77	4.95	3.72			4.4	
Pension Real Return C	ustom Benchmark	1.78	1.33	5.56	7.43	6.77	4.95	3.67			3.7	
KERS	30.3	6.5		18.7		:	21.3		14.7	5.4	3.1	
KERS-H	42.5				8.2		20.1		12.9		3.6	
SPRS 20.5	3.6	12.3		13.6	6			44.2			3.6 2.3	
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		KERS INS, KE				FUND - PLA	N NET RETU	RNS - 05/31	/22				
Plan		Market Value	Month	3 Months	Fiscal YTD	1 Year	3 Years	5 Years	10 Years	20 Years	30 Years	ITD	
KERS INS		1,339,046,045.40	0.51	-2.34	-2.32	-1.23	8.46	7.05	7.53	6.07	6.92	7.33	
KY Ins. KERS Plan Ind	lex		-0.07	-2.22	-0.83	0.88	8.61	7.23	7.91	6.49	7.35	7.69	
KERS - H INS		603,969,242.56	0.44	-1.96	-0.77	0.65	8.73	7.55	7.90	6.26	7.04	7.43	
KY Ins. KERS Haz Plar	n Index		-0.19	-2.99	-1.62	0.08	8.20	7.02	7.82	6.44	7.32	7.66	
SPRS INS		238,785,313.20	0.46	-1.97	-0.66	0.86	9.05	7.86	8.07	6.34	7.10	7.48	
KY Ins. SPRS Plan Ind	lex		-0.07	-2.22	-0.83	0.88	8.49	7.20	7.92	6.50	7.35	7.69	
		KPPA INSURANC	CE FUND U	NIT - NET RE	TURNS - 05/	31/22 - PRO	XY PLAN ASS	ET PERFORI	MANCE				
Structure		L	Month	QTD	Fiscal YTD	1 Year	3 Years	5 Years	10 Years	20 Years	30 Years	ITD	
PUBLIC EQUITY			0.04	-7.87	-10.25	-9.80	11.05	8.59	10.10	7.02		8.63	
Global Equity Ble	ended Inde	ex	0.12	-7.90	-9.38	-8.55	11.00	8.54	9.94	6.71		8.45	
PRIVATE EQUITY			1.64	1.87	28.76	39.23	18.83	17.21	15.42			11.42	
Russell 3000 + 3%	6(Qtr Lag)		1.64	1.87	28.76	39.23	18.83	17.21	17.57			12.17	
HIGH YIELD / SPECIALTY (CREDIT		0.08	-0.22	2.84	4.29	5.59					5.61	
Bloomberg Barcla	ays US Higl	h Yield	-1.16	-2.81	-3.58	-2.75	3.15					3.53	
CORE FIXED INCOME			0.42	-1.01	-4.40	-4.22	1.59	2.19				2.39	
Bloomberg Barcla	ays US Agg	regate	0.64	-3.17	-8.86	-8.22	0.00	1.18				1.99	
CASH			0.06	0.09	0.14	0.15	0.63	1.13	0.74	1.44		2.43	
Citigroup Treasu	ry Bill-3 Mo	onth	0.05	0.08	0.13	0.13	0.65	1.09	0.61	1.19		2.31	
REAL ESTATE			3.13	4.87	25.35	29.02	15.35	13.43	11.04			10.56	
NCREIF NFI-ODCE	Net 1 Qtr i	n Arrears Index^	0.00	0.00	18.78	21.02	8.23	7.74	9.43			6.47	
REAL RETURN			1.45	1.08	4.29	5.58	6.68	4.86	3.48			4.25	
Pension Real Ret	turn Custor	m Benchmark	1.45	1.08	4.29	5.58	6.68	4.86	3.73			3.83	
KERS INS		42.4			6.0		19.3		12.3	12.	7 4.3	3.0	
KERS-H INS		41.4			9.5		20.2		11.9	6.3	7.2	3.6	
SPRS INS		41.1			10.8		20.4		11.8	5.	6.9	3.4	
0%	10%	20%	30%	40	 %	50%	60%	70%	8	0%	90%	100%	
	■Global Equ			■ Specialty		Core Fixed		■ Cash	■ Real Es		Real Return		
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■ Global Equity ■ Pri	ivate Equity	■ Specialty Cred	it Globa	al Equity	■ Private Eq	uity S p	ecialty Credit	t ■ Global Equity ■ Private Equity ■ Specialty Cre					
■ Core Fixed ■ Ca	sh	■ Real Estate	■ Core	Fixed	Cash	■ Re	al Estate	Core Fi	xed	Cash	■ Real I	Estate	
■ Real Return			■ Real	Return				■ Real Re	turn				