



WILSHIRE ASSOCIATES

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Kentucky Retirement Systems Insurance

Monthly Performance Summary

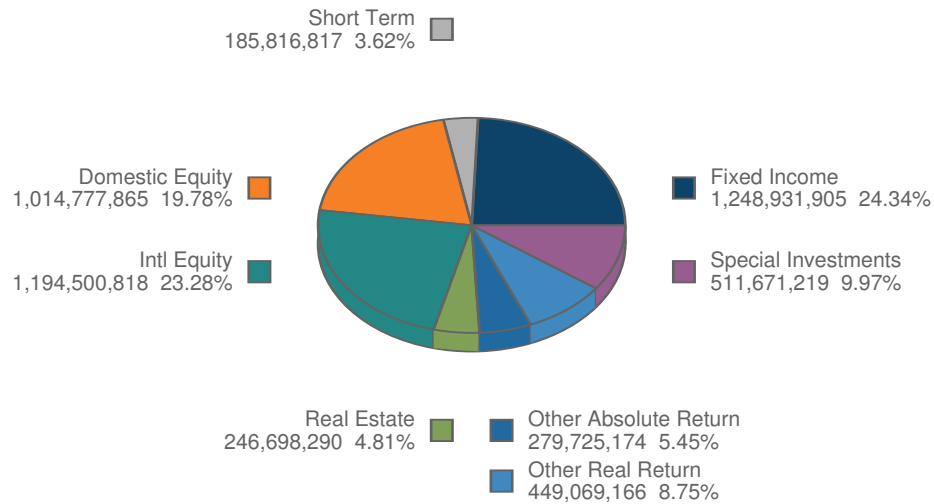
May 31, 2018

ACTUAL ALLOCATION VS POLICY ALLOCATION

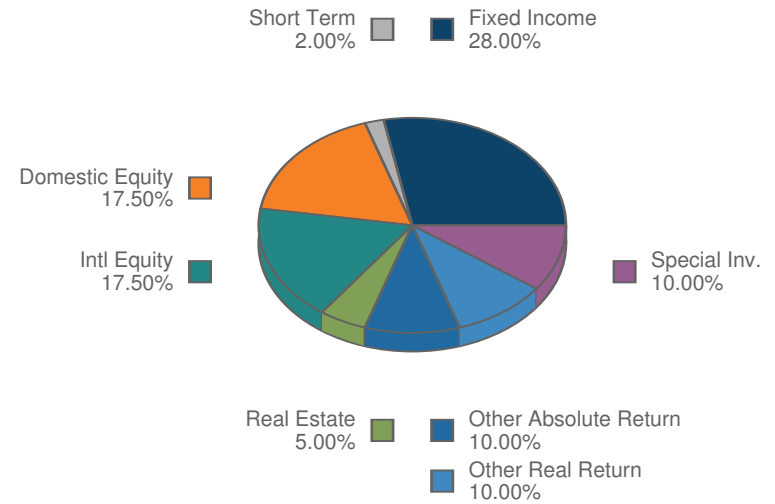
KRS Insurance Plan Composite

As of May 31, 2018

Total Fund



Policy Index



MONTHLY SUMMARY

Investment Performance and Market Values

For Periods Ending May 31, 2018

	Net of Fee Returns									Market Value
	Month	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	Inception Return	Inception Date	\$
KRS Insurance Plan	0.44	0.81	1.30	8.90	9.69	7.06	7.24	7.48	3/31/87	5,131,191,253
KRS Allocation Index	0.23	0.81	0.68	8.37	9.30	7.30	7.92	7.89	3/31/87	
Value Added	0.21	0.00	0.61	0.53	0.39	-0.23	-0.67	-0.41	3/31/87	
KRS IPS Benchmark	0.20	0.77	0.79	6.93					3/31/87	
KERS Insurance Plan	0.52	0.89	1.01	8.20	8.77	6.66	6.84	7.42	3/31/87	836,007,581
KERS Allocation Index	0.27	0.86	0.58	8.21	9.14	7.14	7.77	7.87	3/31/87	
Value Added	0.25	0.03	0.43	-0.01	-0.37	-0.48	-0.93	-0.45	3/31/87	
KERS IPS Benchmark	0.22	0.78	0.65	6.73					3/31/87	
Assumed Rate 6.25%	0.51	1.02	2.56	5.71					3/31/87	
KERS (H) Insurance Plan	0.47	0.83	1.26	8.79	9.55	6.97	7.23	7.48	3/31/87	513,131,864
KERS (H) Allocation Index	0.23	0.80	0.65	8.32	9.25	7.17	7.79	7.87	3/31/87	
Value Added	0.23	0.02	0.61	0.47	0.30	-0.20	-0.56	-0.39	3/31/87	
KERS (H) IPS Benchmark	0.21	0.78	0.77	6.89					3/31/87	
Assumed Rate 6.25%	0.51	1.02	2.56	5.71					3/31/87	
CERS Insurance Plan	0.45	0.82	1.36	9.03	9.87	7.12	7.31	7.49	3/31/87	2,329,797,877
CERS Allocation Index	0.23	0.80	0.68	8.37	9.31	7.19	7.80	7.87	3/31/87	
Value Added	0.22	0.01	0.68	0.66	0.56	-0.07	-0.49	-0.38	3/31/87	
CERS IPS Benchmark	0.20	0.77	0.80	6.95					3/31/87	
Assumed Rate 6.25%	0.51	1.02	2.56	5.71					3/31/87	

MONTHLY SUMMARY

Investment Performance and Market Values

For Periods Ending May 31, 2018

	Net of Fee Returns									Market Value
	Month	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	Inception Return	Inception Date	\$
CERS (H) Insurance Plan	0.44	0.82	1.40	9.10	9.95	7.20	7.36	7.50	3/31/87	1,263,141,511
CERS (H) Allocation Index	0.23	0.80	0.69	8.38	9.31	7.19	7.81	7.87	3/31/87	
Value Added	0.22	0.01	0.71	0.72	0.63	0.01	-0.45	-0.37	3/31/87	
CERS (H) IPS Benchmark	0.20	0.77	0.81	6.95					3/31/87	
Assumed Rate 6.25%	0.51	1.02	2.56	5.71					3/31/87	
SPRS Insurance Plan	0.45	0.82	1.42	9.14	9.98	7.20	7.34	7.50	3/31/87	189,112,415
SPRS Allocation Index	0.23	0.80	0.68	8.37	9.30	7.19	7.80	7.87	3/31/87	
Value Added	0.22	0.02	0.74	0.77	0.67	0.01	-0.46	-0.37	3/31/87	
SPRS IPS Benchmark	0.20	0.78	0.80	6.94					3/31/87	
Assumed Rate 6.25%	0.51	1.02	2.56	5.71					3/31/87	

MONTHLY SUMMARY

Investment Performance and Market Values

For Periods Ending May 31, 2018

	Net of Fee Returns									Market Value	
	Month	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	Inception Return	Inception Date	\$	Percent
KERS Insurance Plan	0.52	0.89	1.01	8.20	8.77	6.66	6.84	7.42	3/31/87	836,007,581	
KERS Allocation Index	0.27	0.86	0.58	8.21	9.14	7.14	7.77	7.87	3/31/87		
Value Added	0.25	0.03	0.43	-0.01	-0.37	-0.48	-0.93	-0.45	3/31/87		
KERS IPS Benchmark	0.22	0.78	0.65	6.73					3/31/87		
Assumed Rate 6.25%	0.51	1.02	2.56	5.71					3/31/87		
US Equity Composite	2.88	3.44	2.72	13.58	14.83	10.50		12.88	6/30/13	182,890,382	21.88
Russell 3000	2.82	3.21	2.55	14.03	15.06	10.72		13.38	6/30/13		
Value Added	0.06	0.23	0.17	-0.45	-0.24	-0.22		-0.50	6/30/13		
Non-US Equity Composite	-1.00	0.08	0.16	12.89	12.94	6.48		7.59	6/30/13	211,731,894	25.33
Policy Index	-2.12	-0.62	-1.68	10.03	10.44	5.33		7.05	6/30/13		
Value Added	1.12	0.70	1.84	2.85	2.50	1.15		0.54	6/30/13		
Fixed Income Composite	0.20	-0.01	-0.26	1.20	1.28	3.73		3.80	6/30/13	218,098,237	26.09
Policy Index	0.26	0.25	-0.88	1.04	1.07	4.65		4.45	6/30/13		
Value Added	-0.06	-0.26	0.62	0.16	0.22	-0.92		-0.65	6/30/13		
Real Return Composite	0.18	0.59	0.17	2.44	2.48	2.87		2.97	6/30/13	73,536,211	8.80
Real Return Index (I)	0.63	1.06	-0.56	0.49	0.20	1.54		1.78	6/30/13		
Value Added	-0.45	-0.46	0.73	1.95	2.28	1.34		1.19	6/30/13		
Real Estate Composite	1.17	1.12	3.39	8.41	10.67	9.77		8.79	6/30/13	34,753,514	4.16
NCREIF ODCE NOF 1 Quarter Lag	0.00	1.97	3.86	7.11	7.11	9.00		10.60	6/30/13		
Value Added	1.17	-0.85	-0.47	1.30	3.56	0.77		-1.81	6/30/13		

MONTHLY SUMMARY

Investment Performance and Market Values

For Periods Ending May 31, 2018

	Net of Fee Returns								Market Value		
	Month	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	Inception Return	Inception Date	\$	Percent
Absolute Return Composite	0.38	0.40	2.02	5.45	5.42	1.79		3.64	6/30/13	44,116,927	5.28
HFRI FOF Div (1 Month Lag)	0.24	-0.38	1.07	4.41	4.66	1.52		2.98	6/30/13		
Value Added	0.15	0.79	0.95	1.04	0.76	0.26		0.66	6/30/13		
Private Equity Composite	-0.06	0.06	3.01	11.25	16.15	11.38		12.76	6/30/13	43,424,434	5.19
KERS Short Term PE Index	-0.06	0.06	3.01	11.25	16.15	11.38		12.76	6/30/13		
Value Added	0.00	0.00	0.00	0.00	0.00	0.00		0.00	6/30/13		
Russell 3000 +3% Qtr Lag	-3.44	1.89	9.14	19.56	19.95	14.86		17.91	6/30/13		
Cash Composite	0.20	0.34	0.88	1.80	1.88	0.91		0.65	6/30/13	27,455,984	3.28
91-Day Treasury Bill	0.15	0.29	0.64	1.19	1.28	0.62		0.39	6/30/13		
Value Added	0.05	0.05	0.24	0.61	0.61	0.29		0.25	6/30/13		

MONTHLY SUMMARY

Investment Performance and Market Values

For Periods Ending May 31, 2018

	Net of Fee Returns									Market Value	
	Month	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	Inception Return	Inception Date	\$	Percent
KERS (H) Insurance Plan	0.47	0.83	1.26	8.79	9.55	6.97	7.23	7.48	3/31/87	513,131,864	
KERS (H) Allocation Index	0.23	0.80	0.65	8.32	9.25	7.17	7.79	7.87	3/31/87		
Value Added	0.23	0.02	0.61	0.47	0.30	-0.20	-0.56	-0.39	3/31/87		
KERS (H) IPS Benchmark	0.21	0.78	0.77	6.89					3/31/87		
Assumed Rate 6.25%	0.51	1.02	2.56	5.71					3/31/87		
US Equity Composite	2.88	3.44	2.72	13.58	14.84	10.32		12.78	6/30/13	99,755,205	19.44
Russell 3000	2.82	3.21	2.55	14.03	15.06	10.72		13.38	6/30/13		
Value Added	0.06	0.23	0.17	-0.45	-0.22	-0.40		-0.60	6/30/13		
Non-US Equity Composite	-1.00	0.07	0.16	12.88	12.94	6.58		7.71	6/30/13	117,428,501	22.88
Policy Index	-2.12	-0.62	-1.68	10.03	10.44	5.33		7.05	6/30/13		
Value Added	1.12	0.70	1.84	2.84	2.50	1.25		0.66	6/30/13		
Fixed Income Composite	0.20	-0.05	-0.36	0.99	1.09	3.67		3.77	6/30/13	131,987,029	25.72
Policy Index	0.26	0.25	-0.88	1.04	1.07	4.65		4.45	6/30/13		
Value Added	-0.06	-0.30	0.52	-0.05	0.02	-0.98		-0.69	6/30/13		
Real Return Composite	0.18	0.57	0.28	2.40	2.39	2.85		2.93	6/30/13	43,418,238	8.46
Real Return Index (I)	0.63	1.06	-0.56	0.49	0.20	1.54		1.81	6/30/13		
Value Added	-0.46	-0.49	0.85	1.91	2.20	1.31		1.12	6/30/13		
Real Estate Composite	1.14	1.09	3.34	8.81	11.26	10.10		9.00	6/30/13	26,181,131	5.10
NCREIF ODCE NOF 1 Quarter Lag	0.00	1.97	3.86	7.11	7.11	9.00		10.60	6/30/13		
Value Added	1.14	-0.88	-0.51	1.70	4.15	1.10		-1.61	6/30/13		

MONTHLY SUMMARY

Investment Performance and Market Values

For Periods Ending May 31, 2018

	Net of Fee Returns									Market Value	
	Month	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	Inception Return	Inception Date	\$	Percent
Absolute Return Composite	0.38	0.40	2.02	5.45	5.42	1.79		3.63	6/30/13	29,276,032	5.71
HFRI FOF Div (1 Month Lag)	0.24	-0.38	1.07	4.41	4.66	1.52		2.98	6/30/13		
Value Added	0.15	0.79	0.95	1.04	0.76	0.26		0.65	6/30/13		
Private Equity Composite	-0.21	0.01	4.17	12.91	17.79	13.83		14.64	6/30/13	47,506,861	9.26
KERS (H) Short Term PE Index	-0.21	0.01	4.17	12.91	17.79	13.83		14.64	6/30/13		
Value Added	0.00	0.00	0.00	-0.00	-0.00	-0.00		-0.00	6/30/13		
Russell 3000 +3% Qtr Lag	-3.44	1.89	9.14	19.56	19.95	14.86		17.91	6/30/13		
Cash Composite	0.21	0.35	0.97	1.96	2.04	0.97		0.68	6/30/13	17,578,868	3.43
91-Day Treasury Bill	0.15	0.29	0.64	1.19	1.28	0.62		0.39	6/30/13		
Value Added	0.05	0.06	0.32	0.77	0.77	0.35		0.29	6/30/13		

MONTHLY SUMMARY

Investment Performance and Market Values

For Periods Ending May 31, 2018

	Net of Fee Returns									Market Value	
	Month	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	Inception Return	Inception Date	\$	Percent
CERS Insurance Plan	0.45	0.82	1.36	9.03	9.87	7.12	7.31	7.49	3/31/87	2,329,797,877	
CERS Allocation Index	0.23	0.80	0.68	8.37	9.31	7.19	7.80	7.87	3/31/87		
Value Added	0.22	0.01	0.68	0.66	0.56	-0.07	-0.49	-0.38	3/31/87		
CERS IPS Benchmark	0.20	0.77	0.80	6.95					3/31/87		
Assumed Rate 6.25%	0.51	1.02	2.56	5.71					3/31/87		
US Equity Composite	2.88	3.44	2.72	13.58	14.85	10.51		12.89	6/30/13	450,559,881	19.34
Russell 3000	2.82	3.21	2.55	14.03	15.06	10.72		13.38	6/30/13		
Value Added	0.06	0.23	0.17	-0.45	-0.22	-0.21		-0.49	6/30/13		
Non-US Equity Composite	-1.00	0.08	0.16	12.88	12.94	6.59		7.73	6/30/13	533,183,410	22.89
Policy Index	-2.12	-0.62	-1.68	10.03	10.44	5.33		7.05	6/30/13		
Value Added	1.12	0.70	1.84	2.84	2.50	1.26		0.68	6/30/13		
Fixed Income Composite	0.19	-0.06	-0.33	1.05	1.16	3.69		3.80	6/30/13	558,113,237	23.96
Policy Index	0.26	0.25	-0.88	1.04	1.07	4.65		4.45	6/30/13		
Value Added	-0.07	-0.31	0.55	0.00	0.09	-0.96		-0.65	6/30/13		
Real Return Composite	0.18	0.57	0.30	2.42	2.46	2.94		2.98	6/30/13	208,671,536	8.96
Real Return Index (I)	0.63	1.06	-0.56	0.49	0.20	1.54		1.81	6/30/13		
Value Added	-0.46	-0.49	0.86	1.93	2.26	1.40		1.17	6/30/13		
Real Estate Composite	1.14	1.10	3.34	8.81	11.26	10.14		9.02	6/30/13	113,523,717	4.87
NCREIF ODCE NOF 1 Quarter Lag	0.00	1.97	3.86	7.11	7.11	9.00		10.60	6/30/13		
Value Added	1.14	-0.87	-0.51	1.70	4.15	1.14		-1.58	6/30/13		

MONTHLY SUMMARY

Investment Performance and Market Values

For Periods Ending May 31, 2018

	Net of Fee Returns								Market Value		
	Month	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	Inception Return	Inception Date	\$	Percent
Absolute Return Composite	0.38	0.40	2.02	5.45	5.42	1.79		3.63	6/30/13	125,218,329	5.37
HFRI FOF Div (1 Month Lag)	0.24	-0.38	1.07	4.41	4.66	1.52		2.98	6/30/13		
Value Added	0.15	0.79	0.95	1.04	0.76	0.26		0.66	6/30/13		
Private Equity Composite	-0.28	-0.01	4.51	13.48	18.21	14.26		14.89	6/30/13	255,328,647	10.96
CERS Short Term PE Index	-0.28	-0.01	4.51	13.48	18.21	14.26		14.89	6/30/13		
Value Added	0.00	0.00	0.00	0.00	0.00	0.00		0.00	6/30/13		
Russell 3000 +3% Qtr Lag	-3.44	1.89	9.14	19.56	19.95	14.86		17.91	6/30/13		
Cash Composite	0.20	0.34	0.92	1.88	1.97	0.94		0.67	6/30/13	85,199,121	3.66
91-Day Treasury Bill	0.15	0.29	0.64	1.19	1.28	0.62		0.39	6/30/13		
Value Added	0.05	0.05	0.28	0.69	0.69	0.32		0.27	6/30/13		

MONTHLY SUMMARY

Investment Performance and Market Values

For Periods Ending May 31, 2018

	Net of Fee Returns									Market Value	
	Month	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	Inception Return	Inception Date	\$	Percent
CERS (H) Insurance Plan	0.44	0.82	1.40	9.10	9.95	7.20	7.36	7.50	3/31/87	1,263,141,511	
CERS (H) Allocation Index	0.23	0.80	0.69	8.38	9.31	7.19	7.81	7.87	3/31/87		
Value Added	0.22	0.01	0.71	0.72	0.63	0.01	-0.45	-0.37	3/31/87		
CERS (H) IPS Benchmark	0.20	0.77	0.81	6.95					3/31/87		
Assumed Rate 6.25%	0.51	1.02	2.56	5.71					3/31/87		
US Equity Composite	2.88	3.44	2.72	13.58	14.85	10.54		12.91	6/30/13	244,395,195	19.35
Russell 3000	2.82	3.21	2.55	14.03	15.06	10.72		13.38	6/30/13		
Value Added	0.06	0.23	0.17	-0.45	-0.21	-0.18		-0.48	6/30/13		
Non-US Equity Composite	-1.00	0.07	0.16	12.88	12.94	6.63		7.75	6/30/13	289,010,459	22.88
Policy Index	-2.12	-0.62	-1.68	10.03	10.44	5.33		7.05	6/30/13		
Value Added	1.12	0.70	1.84	2.84	2.50	1.30		0.69	6/30/13		
Fixed Income Composite	0.18	-0.07	-0.32	1.05	1.16	3.69		3.79	6/30/13	296,498,052	23.47
Policy Index	0.26	0.25	-0.88	1.04	1.07	4.65		4.45	6/30/13		
Value Added	-0.08	-0.32	0.56	0.00	0.09	-0.96		-0.66	6/30/13		
Real Return Composite	0.18	0.56	0.32	2.41	2.42	2.92		2.97	6/30/13	108,439,724	8.58
Real Return Index (I)	0.63	1.06	-0.56	0.49	0.20	1.54		1.81	6/30/13		
Value Added	-0.46	-0.49	0.88	1.92	2.22	1.38		1.16	6/30/13		
Real Estate Composite	1.14	1.10	3.34	8.80	11.26	10.14		9.01	6/30/13	62,268,092	4.93
NCREIF ODCE NOF 1 Quarter Lag	0.00	1.97	3.86	7.11	7.11	9.00		10.60	6/30/13		
Value Added	1.14	-0.87	-0.52	1.69	4.14	1.14		-1.59	6/30/13		

MONTHLY SUMMARY

Investment Performance and Market Values

For Periods Ending May 31, 2018

	Net of Fee Returns								Market Value		
	Month	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	Inception Return	Inception Date	\$	Percent
Absolute Return Composite	0.38	0.40	2.02	5.45	5.42	1.79		3.63	6/30/13	70,136,774	5.55
HFRI FOF Div (1 Month Lag)	0.24	-0.38	1.07	4.41	4.66	1.52		2.98	6/30/13		
Value Added	0.15	0.79	0.95	1.04	0.76	0.26		0.66	6/30/13		
Private Equity Composite	-0.27	-0.00	4.60	13.52	18.31	14.44		15.07	6/30/13	143,528,034	11.36
CERS (H) Short Term PE Index	-0.27	-0.00	4.60	13.52	18.31	14.44		15.07	6/30/13		
Value Added	0.00	0.00	0.00	0.00	0.00	0.00		0.00	6/30/13		
Russell 3000 +3% Qtr Lag	-3.44	1.89	9.14	19.56	19.95	14.86		17.91	6/30/13		
Cash Composite	0.20	0.34	0.89	1.86	1.94	0.93		0.66	6/30/13	48,865,181	3.87
91-Day Treasury Bill	0.15	0.29	0.64	1.19	1.28	0.62		0.39	6/30/13		
Value Added	0.05	0.05	0.25	0.66	0.66	0.31		0.27	6/30/13		

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For Periods Ending May 31, 2018

	Net of Fee Returns									Market Value	
	Month	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	Inception Return	Inception Date	\$	Percent
SPRS Insurance Plan	0.45	0.82	1.42	9.14	9.98	7.20	7.34	7.50	3/31/87	189,112,415	
SPRS Allocation Index	0.23	0.80	0.68	8.37	9.30	7.19	7.80	7.87	3/31/87		
Value Added	0.22	0.02	0.74	0.77	0.67	0.01	-0.46	-0.37	3/31/87		
SPRS IPS Benchmark	0.20	0.78	0.80	6.94					3/31/87		
Assumed Rate 6.25%	0.51	1.02	2.56	5.71					3/31/87		
US Equity Composite	2.88	3.44	2.71	13.58	14.84	10.52		12.89	6/30/13	37,177,200	19.66
Russell 3000	2.82	3.21	2.55	14.03	15.06	10.72		13.38	6/30/13		
Value Added	0.06	0.23	0.16	-0.46	-0.22	-0.20		-0.50	6/30/13		
Non-US Equity Composite	-1.00	0.07	0.16	12.88	12.94	6.66		7.76	6/30/13	43,146,552	22.82
Policy Index	-2.12	-0.62	-1.68	10.03	10.44	5.33		7.05	6/30/13		
Value Added	1.12	0.70	1.84	2.84	2.50	1.33		0.71	6/30/13		
Fixed Income Composite	0.17	-0.07	-0.27	1.10	1.22	3.74		3.85	6/30/13	44,235,350	23.39
Policy Index	0.26	0.25	-0.88	1.04	1.07	4.65		4.45	6/30/13		
Value Added	-0.09	-0.32	0.61	0.06	0.15	-0.91		-0.61	6/30/13		
Real Return Composite	0.17	0.55	0.37	2.38	2.37	2.87		2.95	6/30/13	15,003,458	7.93
Real Return Index (I)	0.63	1.06	-0.56	0.49	0.20	1.54		1.81	6/30/13		
Value Added	-0.46	-0.51	0.94	1.89	2.17	1.33		1.14	6/30/13		
Real Estate Composite	1.14	1.10	3.35	8.82	11.27	10.10		8.99	6/30/13	9,971,836	5.27
NCREIF ODCE NOF 1 Quarter Lag	0.00	1.97	3.86	7.11	7.11	9.00		10.60	6/30/13		
Value Added	1.14	-0.87	-0.51	1.71	4.16	1.10		-1.62	6/30/13		

MONTHLY SUMMARY

Investment Performance and Market Values

For Periods Ending May 31, 2018

	Net of Fee Returns								Market Value		
	Month	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	Inception Return	Inception Date	\$	Percent
Absolute Return Composite	0.38	0.40	2.02	5.45	5.42	1.79		3.63	6/30/13	10,977,113	5.80
HFRI FOF Div (1 Month Lag)	0.24	-0.38	1.07	4.41	4.66	1.52		2.98	6/30/13		
Value Added	0.15	0.79	0.95	1.04	0.76	0.26		0.65	6/30/13		
Private Equity Composite	-0.27	0.00	4.50	13.43	18.00	13.59		14.37	6/30/13	21,883,243	11.57
SPRS Short Term PE Index	-0.27	0.00	4.50	13.43	18.00	13.59		14.37	6/30/13		
Value Added	0.00	0.00	0.00	0.00	0.00	0.00		0.00	6/30/13		
Russell 3000 +3% Qtr Lag	-3.44	1.89	9.14	19.56	19.95	14.86		17.91	6/30/13		
Cash Composite	0.19	0.33	0.87	1.82	1.90	0.92		0.65	6/30/13	6,717,663	3.55
91-Day Treasury Bill	0.15	0.29	0.64	1.19	1.28	0.62		0.39	6/30/13		
Value Added	0.04	0.04	0.23	0.62	0.62	0.30		0.26	6/30/13		

MONTHLY SUMMARY

Investment Performance and Market Values

For Periods Ending May 31, 2018

	Net of Fee Returns									Market Value	
	Month	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	Inception Return	Inception Date	\$	Percent
KRS Insurance Plan	0.44	0.81	1.30	8.90	9.69	7.06	7.24	7.48	3/31/87	5,131,191,253	100.00
KRS Allocation Index	0.23	0.81	0.68	8.37	9.30	7.30	7.92	7.89	3/31/87		
Value Added	0.21	0.00	0.61	0.53	0.39	-0.23	-0.67	-0.41	3/31/87		
KRS IPS Benchmark	0.20	0.77	0.79	6.93					3/31/87		
US Equity Composite	2.88	3.44	2.73	13.61	14.88	10.52	12.39	9.75	6/30/92	1,014,777,865	19.78
Russell 3000	2.82	3.21	2.55	14.03	15.06	10.72	12.85	9.89	6/30/92		
Value Added	0.06	0.23	0.18	-0.43	-0.18	-0.19	-0.46	-0.15	6/30/92		
S&P 500 Index	2.54	3.07	2.33	14.04	14.81	11.10	13.03	7.40	6/30/01	469,052,479	9.14
Standard & Poor's 500	2.41	2.80	2.02	13.67	14.38	10.97	12.98	6.92	6/30/01		
Value Added	0.13	0.27	0.31	0.36	0.42	0.12	0.05	0.48	6/30/01		
Scientific Beta	1.22	1.55	1.83	11.35	12.24			12.90	6/30/16	137,237,665	2.67
Standard & Poor's 500	2.41	2.80	2.02	13.67	14.38			16.50	6/30/16		
Value Added	-1.19	-1.25	-0.19	-2.33	-2.14			-3.61	6/30/16		
River Road	1.82	3.18	-0.25	6.17	7.90	7.89	9.50	10.87	6/30/11	8,361,021	0.16
Russell 3000 Value	0.99	1.43	-1.43	6.95	8.85	7.71	10.15	11.35	6/30/11		
Value Added	0.83	1.76	1.18	-0.78	-0.95	0.18	-0.65	-0.48	6/30/11		
River Road FAV	1.29	1.17	1.26	6.08	7.90			16.42	6/30/16	59,526,250	1.16
Russell 3000 Value	0.99	1.43	-1.43	6.95	8.85			12.01	6/30/16		
Value Added	0.30	-0.26	2.70	-0.87	-0.95			4.41	6/30/16		

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Investment Performance and Market Values

For Periods Ending May 31, 2018

	Net of Fee Returns									Market Value	
	Month	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	Inception Return	Inception Date	\$	Percent
Westfield Capital	4.01	4.61	7.53	19.31	19.86	9.76	13.60	13.32	6/30/11	63,815,455	1.24
Russell 3000 Growth	4.53	4.88	6.43	21.32	21.32	13.69	15.51	14.72	6/30/11		
Value Added	-0.52	-0.26	1.09	-2.01	-1.46	-3.93	-1.91	-1.40	6/30/11		
Systematic	3.24	5.06	1.62	16.28	18.07	9.02	10.45	13.04	6/30/12	120,054,585	2.34
Russell Mid Cap Value	1.09	1.59	-0.96	6.73	8.32	7.57	10.82	13.90	6/30/12		
Value Added	2.15	3.47	2.58	9.54	9.74	1.45	-0.37	-0.86	6/30/12		
Internal US Mid Cap	4.54	4.88	4.26	14.51	16.33	10.85		11.75	7/31/14	63,188,300	1.23
S&P 400 Mid Cap	4.13	3.86	3.05	13.03	14.86	10.25		11.34	7/31/14		
Value Added	0.41	1.03	1.21	1.48	1.47	0.61		0.42	7/31/14		
NTGI Structured	5.95	6.87	6.74	16.49	19.89	11.29	12.69	12.70	6/30/11	93,535,385	1.82
Russell 2000	6.07	6.99	6.90	16.73	20.76	10.98	12.18	11.87	6/30/11		
Value Added	-0.12	-0.12	-0.16	-0.24	-0.88	0.32	0.51	0.83	6/30/11		
Transition Account	0.17	0.24	14.46	1.11	1.27	5.46	22.73	61.94	5/31/11	6,726	0.00

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Investment Performance and Market Values

For Periods Ending May 31, 2018

	Net of Fee Returns								Market Value		
	Month	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	Inception Return	Inception Date	\$	Percent
Non-US Equity Composite	-1.00	0.08	0.17	12.88	12.94	6.57	6.68	2.55	3/31/00	1,194,500,818	23.28
Policy Index	-2.12	-0.62	-1.68	10.03	10.44	5.33	5.99	2.81	3/31/00		
Value Added	1.12	0.70	1.85	2.85	2.50	1.24	0.69	-0.26	3/31/00		
BlackRock ACWI Ex US	-2.46	-0.73	-2.09	9.20	9.51	5.05	5.52	8.67	5/31/12	474,088,361	9.24
MSCI ACWI X US (N)	-2.31	-0.75	-1.92	9.33	9.67	4.74	5.46	8.60	5/31/12		
Value Added	-0.15	0.02	-0.16	-0.13	-0.16	0.31	0.06	0.06	5/31/12		
American Century	1.79	2.19	5.38	23.07	23.63	8.18		6.14	6/30/14	161,858,095	3.15
Policy Index	-2.12	-0.62	-1.68	9.93	10.31	5.27		3.44	6/30/14		
Value Added	3.91	2.81	7.06	13.15	13.32	2.90		2.70	6/30/14		
Franklin Templeton	3.76	4.68	7.16	25.22	23.31	11.24		8.94	6/30/14	124,302,898	2.42
Policy Index	-2.12	-0.62	-1.68	9.93	10.31	5.27		3.44	6/30/14		
Value Added	5.88	5.30	8.83	15.29	13.00	5.97		5.50	6/30/14		
Lazard Asset Mgmt	-1.22	-1.28	0.31	12.81	12.45	5.92		4.64	6/30/14	213,616,928	4.16
Policy Index	-2.12	-0.62	-1.68	9.93	10.31	5.27		3.44	6/30/14		
Value Added	0.90	-0.66	1.99	2.89	2.13	0.64		1.20	6/30/14		
LSV Asset Mgmt	-2.35	-0.84	-2.01	7.89	8.12	4.78		3.27	6/30/14	181,564,462	3.54
Policy Index	-2.12	-0.62	-1.68	9.93	10.31	5.27		3.44	6/30/14		
Value Added	-0.23	-0.21	-0.33	-2.03	-2.19	-0.50		-0.17	6/30/14		
Blackrock ACWI Ex-US Small Cap	-1.20	-0.21	-0.81	13.04	13.48	8.02		10.20	6/30/13	37,811,261	0.74
MSCI ACWI X US Small Cap (N)	-1.01	0.13	-0.22	13.66	14.14	8.13		9.75	6/30/13		
Value Added	-0.19	-0.34	-0.59	-0.62	-0.66	-0.11		0.45	6/30/13		

MONTHLY SUMMARY

Investment Performance and Market Values

For Periods Ending May 31, 2018

	Net of Fee Returns									Market Value	
	Month	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	Inception Return	Inception Date	\$	Percent
Boston Company									5/31/08	136,741	0.00
Pyramis Intl									7/31/01	750,453	0.01
Non-US Equity Transition									5/31/14	371,620	0.01

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Investment Performance and Market Values

For Periods Ending May 31, 2018

	Net of Fee Returns									Market Value	
	Month	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	Inception Return	Inception Date	\$	Percent
Fixed Income Composite	0.19	-0.06	-0.34	1.02	1.13	3.69	3.22	6.33	6/30/92	1,248,931,905	24.34
Policy Index	0.26	0.25	-0.88	1.04	1.07	4.65	4.01	6.31	6/30/92		
Value Added	-0.07	-0.31	0.54	-0.02	0.06	-0.96	-0.79	0.02	6/30/92		
Bloomberg Global Aggregate	-0.76	-2.35	-1.02	1.81	1.72	2.58	1.34	5.06	6/30/92		
NISA	0.73	-0.04	-1.45	-0.03	-0.11	1.68	2.18	2.79	6/30/11	97,313,333	1.90
Bloomberg Aggregate	0.71	-0.04	-1.50	-0.27	-0.37	1.39	1.98	2.62	6/30/11		
Value Added	0.02	-0.00	0.05	0.24	0.27	0.29	0.20	0.17	6/30/11		
BlackRock IG Credit	0.50	0.05	-1.37	-0.28	-0.34			0.76	3/31/17	218,580,056	4.26
Bloomberg Int Credit	0.52	0.07	-1.30	-0.21	-0.27			1.00	3/31/17		
Value Added	-0.02	-0.02	-0.07	-0.07	-0.07			-0.24	3/31/17		
BNY IG Credit	0.54	0.10	-1.32					-1.53	11/30/17	355,641,682	6.93
Bloomberg Int Credit	0.52	0.07	-1.30					-1.05	11/30/17		
Value Added	0.02	0.03	-0.02					-0.47	11/30/17		
Manulife Asset Mgmt	-0.83	-1.27	-1.68	-0.44	0.02	2.08	2.27	3.81	11/30/11	194,003,963	3.78
Policy Index	0.55	-0.13	-1.53	-0.13	-0.21	1.83	0.94	1.03	11/30/11		
Value Added	-1.38	-1.14	-0.15	-0.31	0.23	0.25	1.32	2.78	11/30/11		
Columbia	-0.31	0.19	-1.40	0.97	1.26	4.28	4.83	6.70	10/31/11	49,665,841	0.97
Bloomberg High Yield	-0.03	0.62	-0.24	2.21	2.35	4.86	4.87	6.74	10/31/11		
Value Added	-0.28	-0.43	-1.16	-1.23	-1.09	-0.58	-0.04	-0.04	10/31/11		

MONTHLY SUMMARY

Investment Performance and Market Values

For Periods Ending May 31, 2018

	Net of Fee Returns									Market Value	
	Month	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	Inception Return	Inception Date	\$	Percent
Marathon Bluegrass	0.05	0.01	1.37	1.20	0.49			7.68	12/31/15	123,170,604	2.40
Bloomberg High Yield	-0.03	0.62	-0.24	2.21	2.35			9.90	12/31/15		
Value Added	0.08	-0.61	1.61	-1.01	-1.86			-2.22	12/31/15		
Shenkman Capital	0.51	0.72	2.23	4.28	4.02	3.30	3.00	4.09	6/30/11	96,914,376	1.89
S&P LSTA Leverage Loan	0.17	0.58	2.04	4.25	4.21	4.02	4.22	5.30	6/30/11		
Value Added	0.34	0.14	0.19	0.03	-0.19	-0.73	-1.22	-1.21	6/30/11		
Waterfall	0.41	0.86	3.95	8.52	9.68	8.36	8.57	10.30	6/30/11	56,996,207	1.11
Policy Index	0.11	0.59	0.35	2.56	2.72	3.89	3.71	4.50	6/30/11		
Value Added	0.30	0.27	3.59	5.96	6.97	4.47	4.86	5.80	6/30/11		
Cerberus Capital Mgmt	0.00	0.73	3.14	5.54	6.79	8.11		7.92	8/31/14	36,386,487	0.71
S&P LSTA Leverage Loan	0.17	0.58	2.04	4.25	4.21	4.02		3.79	8/31/14		
Value Added	-0.17	0.15	1.10	1.29	2.58	4.09		4.13	8/31/14		
BSP Private Credit	0.00	0.00						0.00	1/31/18	14,851,485	0.29
S&P LSTA Leverage Loan Index	0.17	0.58						1.07	1/31/18		
Value Added	-0.17	-0.58						-1.07	1/31/18		
White Oak Yield Spectrum	0.00	0.00						0.00	2/28/18	5,363,333	0.10
S&P LSTA Leverage Loan Index	0.17	0.58						0.87	2/28/18		
Value Added	-0.17	-0.58						-0.87	2/28/18		
Loomis									10/31/11	44,537	0.00

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Investment Performance and Market Values

For Periods Ending May 31, 2018

	Net of Fee Returns									Market Value	
	Month	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	Inception Return	Inception Date	\$	Percent
Real Return Composite	0.18	0.57	0.25	2.40	2.41	2.93	2.27	3.54	6/30/11	449,069,166	8.75
Real Return Index (I)	0.63	1.06	-0.56	0.49	0.20	1.54	1.87	2.59	6/30/11		
Value Added	-0.46	-0.48	0.82	1.90	2.22	1.40	0.41	0.95	6/30/11		
Internal TIPS	0.51	0.38	0.04	1.10	0.26	1.39	1.02	4.25	9/30/03	114,230,553	2.23
Bloomberg 1-10 Yrs TIPS	0.46	0.33	-0.07	1.17	0.36	1.22	0.57	3.95	9/30/03		
Value Added	0.05	0.05	0.11	-0.06	-0.11	0.17	0.45	0.30	9/30/03		
PIMCO All Asset	-1.32	-1.24	1.16	5.34	5.50	4.72	3.36	5.02	11/30/11	143,983,954	2.81
Bloomberg 1-10 Yrs TIPS	0.46	0.33	-0.07	1.17	0.36	1.22	0.59	0.79	11/30/11		
Value Added	-1.78	-1.57	1.23	4.18	5.14	3.50	2.77	4.23	11/30/11		
Tortoise Capital	3.93	11.34	0.45	-2.16	-1.77	-6.33	1.40	11.75	7/31/09	48,341,087	0.94
Alerian MLP	5.05	13.55	0.93	-3.08	-3.71	-8.13	-3.20	7.72	7/31/09		
Value Added	-1.12	-2.21	-0.47	0.92	1.94	1.80	4.60	4.03	7/31/09		
Nuveen Real Asset	0.84	1.05	-1.85	2.09	2.83	4.86		4.52	1/31/15	86,539,684	1.69
Policy Index	0.43	0.96	-2.89	0.09	0.83	4.57		4.18	1/31/15		
Value Added	0.41	0.09	1.04	2.01	2.01	0.29		0.34	1/31/15		
Amerra AGRI Fund II	0.00	0.00	-0.79	-2.44	-1.39	4.66	5.53	4.50	11/30/12	9,922,874	0.19
Amerra AGRI Holdings	0.00	0.00	-1.15	-3.85	-5.58			-1.01	7/31/15	23,851,919	0.46
BTG Pactual	0.00	0.00	-4.21	-3.85	0.20	-7.78		-9.68	11/30/14	7,807,761	0.15
Magnetar MTP EOF II	0.00	-0.06	3.39	4.28	8.23			1.72	7/31/15	6,468,040	0.13
Taurus Mine Finance	0.00	0.00	3.99	4.24	6.64	14.73		13.48	3/31/15	7,847,091	0.15

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Investment Performance and Market Values

For Periods Ending May 31, 2018

	Net of Fee Returns									Market Value	
	Month	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	Inception Return	Inception Date	\$	Percent
TPF II	0.00	0.00	-0.29	-0.10	0.04	-4.41	-4.27	-3.61	9/30/08	76,205	0.00
Real Estate Composite	1.16	1.11	3.41	8.43	10.68	9.85	9.15	9.02	4/30/09	246,698,290	4.81
NCREIF ODCE NOF 1 Quarter Lag	0.00	1.97	3.86	7.11	7.11	9.00	10.42	7.79	4/30/09		
Value Added	1.16	-0.86	-0.45	1.31	3.57	0.85	-1.27	1.22	4/30/09		
Divcowest IV	0.00	0.00	11.40	10.71	21.83	30.58		22.63	2/28/14	1,802,430	0.04
Greenfield Acq VI	0.00	0.00	-12.45	-7.51	-7.56	2.65	9.21	7.76	11/30/12	3,101,424	0.06
Greenfield Acq VII	0.00	0.00	6.14	15.12	15.75	15.12		11.86	6/30/14	12,241,617	0.24
H/2 Credit Partner	0.90	0.90	0.96	3.73	5.83	6.39	5.39	6.19	6/30/11	33,186,794	0.65
Harrison Street	1.94	1.94	4.37	9.85	12.55	9.26	9.91	8.44	4/30/12	34,663,809	0.68
Lubert Adler VII	0.00	0.00	1.47	7.63	8.96	4.35		-3.17	6/30/14	14,550,435	0.28
Mesa West Core Lend	0.00	0.00	1.72	4.80	6.65	7.28	6.23	6.12	4/30/13	34,140,937	0.67
Prologis Targeted US	5.10	5.10	9.10	19.85	24.67	17.09		15.73	9/30/14	29,395,928	0.57
Rubenstein PF II	0.00	0.00	3.11	11.71	15.82	6.87		13.21	6/30/13	7,214,010	0.14
Stockbridge Sm/Mkts	1.70	1.70	3.61	7.53	9.39	10.13		9.41	4/30/14	36,950,326	0.72
Walton St RE VI	0.00	0.00	2.34	7.07	8.59	4.93	8.65	-18.56	4/30/09	1,570,791	0.03
Walton St RE VII	0.00	0.00	2.50	8.80	11.37	12.49		13.02	6/30/13	9,411,704	0.18
Fundamental Partners III	0.00	0.00	1.56	3.45	3.45			4.72	4/30/17	14,717,193	0.29
Lubert Adler VII B	0.00	0.00	-0.54	-4.63				-4.63	6/30/17	3,703,817	0.07
Mesa West IV	0.00	0.00	2.22	5.39	2.70			2.15	2/28/17	4,301,681	0.08
Patron Capital	-3.38	-5.45	13.94	21.93	21.47			-4.74	7/31/16	5,745,393	0.11

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Investment Performance and Market Values

For Periods Ending May 31, 2018

	Net of Fee Returns									Market Value	
	Month	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	Inception Return	Inception Date	\$	Percent
Absolute Return Composite	0.38	0.40	2.02	5.44	5.41	1.78	3.80	4.11	3/31/10	279,725,174	5.45
HFRI FOF Div (1 Month Lag)	0.24	-0.38	1.07	4.41	4.66	1.52	3.05	2.98	3/31/10		
Value Added	0.15	0.79	0.95	1.03	0.75	0.26	0.75	1.13	3/31/10		
Anchorage Capital	0.07	-0.26	0.37	5.14	3.88			5.44	7/31/16	11,040,901	0.22
Blackstone Strat Opp	0.10	1.32	3.65					5.90	7/31/17	2,355,335	0.05
Coatue Qualified Partners	-1.42	-1.42	4.29	11.67	10.50			13.51	6/30/15	7,237,689	0.14
Credit Suisse	0.88	1.42	2.97	6.62	7.57			6.97	4/30/17	12,825,061	0.25
Davidson Kempner LP	0.11	-0.42	1.62	3.90	3.94			6.48	1/31/16	19,320,765	0.38
DSAM Fund LP	0.00	0.00	0.00	0.00	0.00			1.22	4/30/16	118,898	0.00
Gotham Neutral Strategies	-1.03	-1.03	1.58	0.99	1.52			-2.67	3/31/17	5,538,605	0.11
Governors Lane Onshore	0.00	-3.00	-3.13	-3.41	-2.41			-0.66	3/31/17	8,850,120	0.17
Knighthead	0.69	0.88	2.36	4.86	5.06	2.68		2.47	12/31/13	1,187,429	0.02
Libremax Capital	0.00	0.00	0.00	0.00	0.00	0.51		1.73	7/31/14	66,461	0.00
Liquidalts H2O Force	-7.95	-3.04	0.09	0.59	1.87			6.50	7/31/16	6,753,399	0.13
Luxor Capital	-0.03	0.86	7.75	18.71	19.84	5.79		1.61	3/31/14	678,733	0.01
Myriad Opportunities	-0.11	-0.92	0.39	9.09	10.26			9.67	4/30/16	19,416,650	0.38
PAAMCO	-1.27	-4.89	-2.20	-16.38	-16.38	-7.99	-2.20	0.17	8/31/11	232,474	0.00
Pershing Square	0.00	-2.24	-7.58					-9.61	7/31/17	27,081	0.00
Pine River	-2.14	-2.20	-2.08	-1.26	-3.48	-2.39		-0.30	4/30/14	201,786	0.00
PRISMA Capital	0.99	1.02	3.42	6.46	6.48	1.36	3.20	3.99	8/31/11	159,860,004	3.12
Prudential Fund I	0.84	0.84	1.55	2.55	3.43			5.02	3/31/17	6,739,894	0.13
Senator LP	0.87	0.86	-1.93	4.34	5.45			6.66	8/31/16	4,165,592	0.08
SRS Partners US	3.27	4.51	4.94					19.36	7/31/17	3,236,951	0.06
Systematica Blue Matrix	1.03	1.90	0.88	7.40	10.04			5.29	3/31/17	5,215,067	0.10

MONTHLY SUMMARY

Investment Performance and Market Values

For Periods Ending May 31, 2018

	Net of Fee Returns								Market Value		
	Month	QTD	CYTD	FYTD	1 Year	3 Years	5 Years	Inception Return	Inception Date	\$	Percent
Tide Point Partners	0.00	0.00	-4.89	4.76	1.71			-3.27	3/31/17	479,468	0.01
Tourbillon Global Equity	-0.80	2.00	-3.79	-13.61	-13.20			-9.86	10/31/15	2,515,043	0.05
Tricadia Select	-8.10	-13.09	-12.30					-16.03	7/31/17	1,661,770	0.03
Private Equity Composite	-0.25	-0.01	4.44	13.27	17.25	14.18	14.63	10.01	6/30/02	511,671,219	9.97
KRS Short Term PE Index	-0.25	-0.01	4.44	13.27	17.25	14.18	14.63	10.01	6/30/02		
Value Added	0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	-0.00	6/30/02		
Russell 3000 +3% Qtr Lag	-3.44	1.89	9.14	19.56	19.95	14.86	18.54	11.14	6/30/02		
Cash Composite	0.20	0.34	0.84	1.86	1.94	0.94	0.65	2.66	6/30/92	185,816,817	3.62
91-Day Treasury Bill	0.15	0.29	0.64	1.19	1.28	0.62	0.39	2.63	6/30/92		
Value Added	0.04	0.05	0.19	0.67	0.66	0.32	0.26	0.04	6/30/92		