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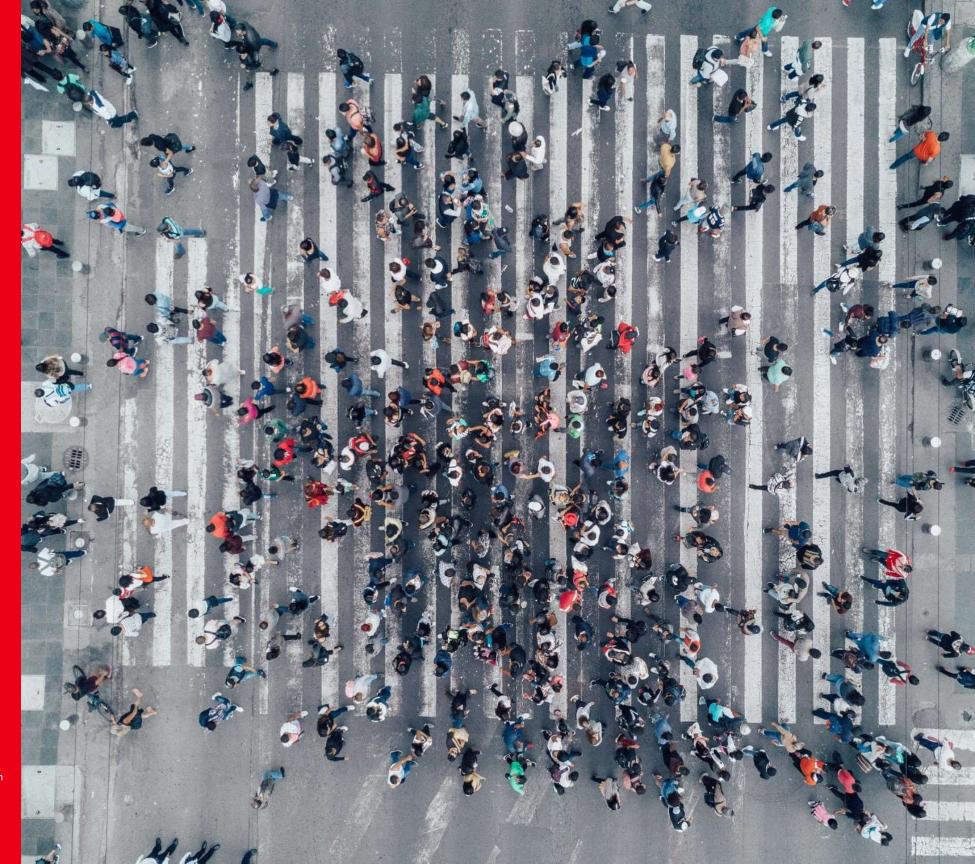
Monthly Investment Review

University of Wisconsin October 2023

All information presented in this report should be considered preliminary. Finalized data will be available on the next Quarterly Investment Report after the close of the quarter.

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Asset Allocation

Fidelity	Total Fund	t
	(\$)	%
Total Plan (Fidelity)	1,107,266,274	100.0
Tier I	735,852,499	66.5
Vanguard Target Retirement Income - Inv.	112,576,107	10.2
Vanguard Target Retirement 2020 - Inv.	76,933,400	6.9
Vanguard Target Retirement 2025 - Inv.	126,930,373	11.5
Vanguard Target Retirement 2030 - Inv.	126,798,979	11.5
Vanguard Target Retirement 2035 - Inv.	111,067,563	10.0
Vanguard Target Retirement 2040 - Inv.	73,836,562	6.7
Vanguard Target Retirement 2045 - Inv.	53,568,070	4.8
Vanguard Target Retirement 2050 - Inv.	34,471,014	3.1
Vanguard Target Retirement 2055 - Inv.	13,034,966	1.2
Vanguard Target Retirement 2060 - Inv.	5,015,227	0.5
Vanguard Target Retirement 2065 - Inv.	1,528,773	0.1
Vanguard Target Retirement 2070 - Inv.	91,467	0.0
Tier II	154,452,230	13.9
Vanguard Total Bond Market Index Fund	11,565,607	1.0
Vanguard Short-Term Inflation-Protected Securities Fund	6,208,458	0.6
Vanguard Total Stock Market Index Fund	37,186,574	3.4
Vanguard Institutional Index Fund	59,930,031	5.4
Vanguard FTSE Social Index Fund	11,293,391	1.0
Vanguard Extended Market Index Fund	9,468,806	0.9
Vanguard Total International Stock Index Fund	8,134,593	0.7
Vanguard Developed Market Index Fund	6,559,574	0.6
Vanguard Emerging Markets Stock Index Fund	4,105,196	0.4
Tier III	82,827,931	7.5
Vanguard Federal Money Market Fund	14,499,183	1.3
New York Life Guaranteed Interest Account	3,031,522	0.3
Baird Core Plus Bond	9,470,883	0.9
Dodge & Cox Stock Fund	19,431,657	1.8
T. Rowe Price Large Cap Growth Fund	20,672,121	1.9
Boston Trust SMID Cap Fund	7,332,596	0.7
Goldman Sachs GQG Partners Int. Opportunities Fund	4,510,769	0.4

TIAA		
	Total Fund	d
	(\$)	%
Total Plan (TIAA)	1,744,344,106	100.0
Tier I	443,891,941	25.4
Vanguard Target Retirement Income - Inv.	65,310,068	3.7
Vanguard Target Retirement 2020 - Inv.	63,524,088	3.6
Vanguard Target Retirement 2025 - Inv.	64,625,455	3.7
Vanguard Target Retirement 2030 - Inv.	85,636,826	4.9
Vanguard Target Retirement 2035 - Inv.	65,044,717	3.7
Vanguard Target Retirement 2040 - Inv.	45,721,889	2.6
Vanguard Target Retirement 2045 - Inv.	30,998,671	1.8
Vanguard Target Retirement 2050 - Inv.	15,972,662	0.9
Vanguard Target Retirement 2055 - Inv.	5,064,785	0.3
Vanguard Target Retirement 2060 - Inv.	1,267,323	0.1
Vanguard Target Retirement 2065 - Inv.	690,003	0.0
Vanguard Target Retirement 2070 - Inv.	35,455	0.0
Tier II	126,113,923	7.2
Vanguard Total Bond Market Index Fund - Inst.	16,654,485	1.0
Vanguard Short-Term Inflation-Protected Sec. Fund - Inst.	8,162,504	0.5
Vanguard Total Stock Market Index Fund - Inst.	28,821,414	1.7
Vanguard Institutional Index Fund - Inst.	31,050,412	1.8
Vanguard FTSE Social Index Fund - Inst.	3,926,165	0.2
Vanguard Extended Market Index Fund - Inst.	8,009,771	0.5
Vanguard Total International Stock Index Fund - Inst.	2,309,906	0.1
Vanguard Developed Market Index Fund - Inst.	19,228,146	1.1
Vanguard Emerging Markets Stock Index Fund - Inst.	7,951,121	0.5
Tier III	85,566,760	4.9
Vanguard Federal Money Market Fund - Inv.	2,559,892	0.1
TIAA Traditional - RCP	53,310,349	3.1
Baird Core Plus Bond - Inst.	1,958,414	0.1
Dodge & Cox Stock Fund	10,010,123	0.6
T. Rowe Price Large Cap Growth Fund	5,672,171	0.3
Boston Trust SMID Cap Fund	6,552,826	0.4
Goldman Sachs GQG Partners Int. Opp. Fund - R6	1,725,642	0.1

Total		
	Total Fun	d
	(\$)	%
Total Plan	2,851,610,380	100.0
Tier I	1,179,744,441	41.4
Vanguard Target Retirement Income - Inv.	177,886,174	6.2
Vanguard Target Retirement 2020 - Inv.	140,457,488	4.9
Vanguard Target Retirement 2025 - Inv.	191,555,828	6.7
Vanguard Target Retirement 2030 - Inv.	212,435,804	7.4
Vanguard Target Retirement 2035 - Inv.	176,112,280	6.2
Vanguard Target Retirement 2040 - Inv.	119,558,450	4.2
Vanguard Target Retirement 2045 - Inv.	84,566,740	3.0
Vanguard Target Retirement 2050 - Inv.	50,443,676	1.8
Vanguard Target Retirement 2055 - Inv.	18,099,751	0.6
Vanguard Target Retirement 2060 - Inv.	6,282,550	0.2
Vanguard Target Retirement 2065 - Inv.	2,218,776	0.1
Vanguard Target Retirement 2070 - Inv.	126,922	0.0
Tier II	280,566,153	9.8
Vanguard Total Bond Market Index Fund	28,220,092	1.0
Vanguard Short-Term Inflation-Protected Securities Fund	14,370,961	0.5
Vanguard Total Stock Market Index Fund	66,007,988	2.3
Vanguard Institutional Index Fund	90,980,443	3.2
Vanguard FTSE Social Index Fund	15,219,555	0.5
Vanguard Extended Market Index Fund	17,478,577	0.6
Vanguard Total International Stock Index Fund	10,444,499	0.4
Vanguard Developed Market Index Fund	25,787,719	0.9
Vanguard Emerging Markets Stock Index Fund	12,056,317	0.4
Tier III	168,394,691	5.9
Vanguard Federal Money Market Fund	17,059,075	0.6
New York Life Guaranteed Interest Account	3,031,522	0.1
TIAA Traditional - RCP	53,310,349	1.9
Baird Core Plus Bond	11,429,297	0.4
Dodge & Cox Stock Fund	29,441,779	1.0
T. Rowe Price Large Cap Growth Fund	26,344,292	0.9
Boston Trust SMID Cap Fund	13,885,422	0.5
Goldman Sachs GQG Partners Int. Opportunities Fund	6,236,411	0.2



Asset Allocation

	Total Fund	
	(\$)	%
Principal Real Estate Securities Fund - R6	3,879,199	0.4
Tier IV	130,770,896	11.8
Brokerage Link	130,770,896	11.8
Other Assets	3,362,718	0.3
Loans	3,362,718	0.3

	Total Fund	l
	(\$)	%
Principal Real Estate Securities Fund - R6	3,777,344	0.2
Tier IV	1,947,895	0.1
Self Directed Brokerage Window	1,947,895	0.1
Other Assets	1,200,305	0.1
Loans	1,200,305	0.1
Orphan Accounts	1,085,623,281	62.2
TIAA Orphan Account	1,085,623,281	62.2

	Total Fund	t
	(\$)	%
Principal Real Estate Securities Fund - R6	7,656,543	0.3
Tier IV	132,718,791	4.7
Brokerage Link	130,770,896	4.6
Self Directed Brokerage Window	1,947,895	0.1
Other Assets	4,563,024	0.2
Loans (Fidelity)	3,362,718	0.1
Loans (TIAA)	1,200,305	0.0
Orphan Accounts	1,085,623,281	38.1
TIAA Orphan Account	1,085,623,281	38.1



	Market	Market o/									
	Value \$	% -	1 Month	Year to Date	1 Year	3 Years	5 Years	10 Years	Since Inception	Inception Date	
Total Plan	2,851,610,380	100.0									
Tier I	1,179,744,441	41.4									
Vanguard Target Retirement Income - Inv.	177,886,174	6.2	-1.4 (7)	1.7 (12)	3.8 (47)	-0.3 (77)	2.9 (63)	3.3 (45)	4.4 (-)	Nov-2003	
Vanguard Target Income Composite Index			-1.5 <i>(9)</i>	1.7 (12)	4.1 (42)	-0.1 (75)	3.2 (51)	3.5 (37)	<i>4.6 (-)</i>		
Vanguard Target Retirement 2020 - Inv.	140,457,488	4.9	-1.7 (17)	2.4 (10)	5.0 (15)	1.3 (42)	4.2 (27)	4.8 (15)	5.3 (9)	Jul-2006	
Vanguard Target 2020 Composite Index			<i>-1.8 (28)</i>	2.5 (9)	5.2 (11)	1.5 (29)	4.5 (8)	5.1 (2)	<i>5.5 (5)</i>		
Vanguard Target Retirement 2025 - Inv.	191,555,828	6.7	-2.1 (44)	3.1 (5)	6.0 (3)	2.0 (28)	4.7 (18)	5.3 (11)	6.0 (-)	Nov-2003	
Vanguard Target 2025 Composite Index			-2.2 (58)	3.1 (5)	6.2 (1)	2.3 (16)	5.1 (7)	5.6 (5)	6.2 (-)		
Vanguard Target Retirement 2030 - Inv.	212,435,804	7.4	-2.3 (47)	3.5 (8)	6.6 (5)	2.7 (35)	5.2 (23)	5.7 (14)	5.8 (13)	Jul-2006	
Vanguard Target 2030 Composite Index			-2.4 (65)	3.6 (7)	6.9 (1)	3.1 (18)	5.6 (8)	6.0 (7)	<i>6.1 (4)</i>		
Vanguard Target Retirement 2035 - Inv.	176,112,280	6.2	-2.5 (43)	4.0 (16)	7.3 (16)	3.6 (55)	5.7 (38)	6.2 (22)	6.7 (-)	Nov-2003	
Vanguard Target 2035 Composite Index			<i>-2.6 (59)</i>	4.1 (14)	7.5 (10)	4.0 (34)	6.1 (19)	6.5 (11)	<i>6.9 (-)</i>		
Vanguard Target Retirement 2040 - Inv.	119,558,450	4.2	-2.5 (34)	4.6 (34)	8.1 (31)	4.5 (58)	6.3 (35)	6.6 (21)	6.5 (13)	Jul-2006	
Vanguard Target 2040 Composite Index			-2.8 (61)	4.6 (33)	8.2 (24)	4.9 (36)	6.7 (20)	6.9 (9)	6.7 (3)		
Vanguard Target Retirement 2045 - Inv.	84,566,740	3.0	-2.7 (29)	5.2 (24)	8.8 (18)	5.5 (36)	6.8 (29)	6.9 (17)	7.3 (-)	Nov-2003	
Vanguard Target 2045 Composite Index			-2.9 (64)	5.2 (25)	8.9 (16)	<i>5.8 (25)</i>	7.2 (10)	7.2 (7)	7.5 (-)		
Vanguard Target Retirement 2050 - Inv.	50,443,676	1.8	-2.8 (37)	5.4 (26)	9.1 (14)	5.6 (42)	6.9 (25)	7.0 (22)	6.7 (1)	Jul-2006	
Vanguard Target 2050 Composite Index			-3.1 (74)	5.4 (26)	9.2 (13)	<i>5.9 (25)</i>	7.3 (6)	7.3 (7)	6.9 (1)		
Vanguard Target Retirement 2055 - Inv.	18,099,751	0.6	-2.8 (35)	5.4 (31)	9.1 (19)	5.6 (45)	6.9 (30)	7.0 (25)	9.1 (32)	Sep-2010	
Vanguard Target 2055 Composite Index			-3.1 (69)	5.4 (30)	9.2 (17)	5.9 (31)	7.3 (7)	7.3 (8)	9.4 (13)		
Vanguard Target Retirement 2060 - Inv.	6,282,550	0.2	-2.8 (29)	5.4 (35)	9.2 (24)	5.6 (46)	6.9 (36)	7.0 (-)	8.4 (-)	Feb-2012	
Vanguard Target 2060 Composite Index			-3.1 (71)	5.4 (37)	9.2 (22)	<i>5.9 (35)</i>	7.3 (1)	7.3 (-)	8.7 (-)		
Vanguard Target Retirement 2065 - Inv.	2,218,776	0.1	-2.8 (29)	5.4 (36)	9.1 (24)	5.6 (45)	6.9 (38)	-	6.2 (-)	Aug-2017	
Vanguard Target 2065 Composite Index			-3.1 (71)	5.4 (37)	9.2 (22)	5.9 (35)	7.3 (1)	-	6.6 (-)		
Vanguard Target Retirement 2070 - Inv.	126,922	0.0	-2.8 (24)	5.5 (33)	9.2 (22)	-	-	-	5.7 (43)	Jul-2022	
Vanguard Target 2070 Composite Index			-3.1 (71)	5.4 (37)	9.2 (22)	-	-	-	5.9 (34)		



	Market	•				Perforn	nance %			
	Value \$	% -	1 Month	Year to Date	1 Year	3 Years	5 Years	10 Years	Since Inception	Inception Date
Tier II	280,566,153	9.8								
Vanguard Total Bond Market Index Fund - Inst.	28,220,092	1.0	-1.6 (24)	-2.5 (44)	0.5 (49)	-5.5 (47)	0.0 (43)	0.9 (49)	3.1 (56)	Dec-2001
Vanguard Spliced Total Bond Market Index			<i>-1.5 (17)</i>	-2.6 (50)	0.5 (50)	<i>-5.5 (48)</i>	0.0 (39)	0.9 (46)	3.2 (43)	
Vanguard Short-Term Inflation-Protected Securities Fund - Inst.	14,370,961	0.5	0.4 (8)	2.4 (7)	2.7 (5)	2.1 (11)	2.9 (11)	1.7 (9)	1.5 (6)	Nov-2012
Blmbg. U.S. TIPS 0-5 Year			0.4 (7)	2.3 (9)	2.6 (8)	2.1 (10)	3.0 (10)	1.7 (7)	1.5 (5)	
Vanguard Total Stock Market Index Fund - Inst.	66,007,988	2.3	-2.6 (39)	9.4 (24)	8.4 (28)	9.1 (39)	10.2 (20)	10.5 (18)	7.5 (34)	Dec-2000
Vanguard Spliced Total Stock Market Index			<i>-2.6 (39)</i>	9.4 (24)	8.4 (28)	9.1 (39)	10.2 (20)	10.5 (18)	7.5 <i>(</i> 34 <i>)</i>	
Vanguard Institutional Index Fund - Inst.	90,980,443	3.2	-2.1 (25)	10.7 (15)	10.1 (14)	10.3 (8)	11.0 (8)	11.1 (3)	7.2 (2)	Dec-2000
S&P 500 Index			-2.1 (16)	10.7 (7)	10.1 (3)	10.4 (1)	11.0 (1)	11.2 (1)	7.2 (2)	
Vanguard FTSE Social Index Fund - Inst.	15,219,555	0.5	-2.1 (58)	13.9 (39)	12.3 (42)	8.4 (50)	11.0 (34)	11.5 (25)	9.6 (47)	Feb-2003
FTSE 4Good U.S. Select Index			<i>-2.1 (58)</i>	14.1 (38)	12.5 (42)	8.6 (49)	11.1 (33)	11.7 (23)	-	
S&P 500 Index			<i>-2.1 (56)</i>	10.7 (50)	10.1 (54)	10.4 (26)	11.0 (34)	11.2 (30)	10.1 (33)	
Vanguard Extended Market Index Fund - Inst.	17,478,577	0.6	-6.3 (62)	2.1 (15)	-1.1 (31)	2.3 (67)	5.4 (53)	6.9 (44)	7.9 (49)	Dec-2000
Vanguard Spliced Extended Market Index			<i>-6.3 (62)</i>	2.0 (16)	<i>-1.3 (33)</i>	2.2 (68)	<i>5.3 (55)</i>	6.8 (47)	7.7 (56)	
Vanguard Total International Stock Index Fund - Inst.	10,444,499	0.4	-3.5 (51)	1.3 (63)	12.4 (57)	3.4 (51)	3.8 (52)	2.9 (50)	4.0 (64)	Dec-2010
Vanguard Spliced Total International Stock Index			-4.3 (81)	0.9 (70)	11.9 (62)	3.4 (52)	3.8 (55)	2.9 (51)	4.0 (64)	
Vanguard Developed Market Index Fund - Inst.	25,787,719	0.9	-3.6 (48)	2.2 (43)	12.9 (46)	5.4 (35)	4.3 (35)	3.3 (32)	4.1 (49)	Feb-2001
Vanguard Spliced Developed ex U.S. Index			<i>-4.5 (78)</i>	1.7 (51)	12.2 (55)	5.2 (37)	4.1 (39)	3.2 (36)	<i>3.9 (52)</i>	
Vanguard Emerging Markets Stock Index Fund - Inst.	12,056,317	0.4	-3.4 (42)	-1.0 (56)	11.0 (48)	-2.0 (32)	2.9 (31)	1.7 (34)	3.7 (41)	Jul-2006
Vanguard Spliced Emerging Markets Index			-3.8 (65)	-1.2 (59)	11.1 (47)	-1.7 (31)	3.1 (28)	1.7 (33)	3.8 (38)	



	Market	0/				Perforn	nance %			
	Value \$	% -	1 Month	Year to Date	1 Year	3 Years	5 Years	10 Years	Since Inception	Inception Date
Tier III	168,394,691	5.9								
Vanguard Federal Money Market Fund - Inv. FTSE 3 Month T-Bill	17,059,075	0.6	0.4 (14) 0.5 (1)	4.2 (12) 4.3 (2)	4.8 (13) 4.9 (7)	1.9 (14) 1.9 (9)	1.7 (12) 1.8 (8)	1.1 (13) <i>1.2 (10)</i>	3.9 (27) <i>3.8 (41)</i>	Aug-1981
New York Life Guaranteed Interest Account	3,031,522	0.1	0.3 (6)	2.7 (4)	2.9 (7)	2.0 (13)	2.1 (18)	2.2 (12)	2.4 (-)	Jul-2009
Morningstar Stable Value Index			0.3 (16)	2.4 (13)	2.8 (13)	2.1 (1)	2.2 (13)	2.0 (18)	2.2 (-)	
TIAA Traditional - RCP	53,310,349	1.9	0.4 (3)	3.3 (3)	3.9 (3)	3.4 (1)	3.3 (1)	3.4 (1)	3.6 (-)	Jun-2006
Morningstar Stable Value Index			0.3 (16)	2.4 (13)	2.8 (13)	2.1 (1)	2.2 (13)	2.0 (18)	2.6 (-)	
Baird Core Plus Bond - Inst.	11,429,297	0.4	-1.5 (21)	-1.8 (29)	1.9 (19)	-4.8 (33)	0.7 (23)	1.6 (16)	4.5 (9)	Oct-2000
Blmbg. U.S. Aggregate			<i>-1.6 (24)</i>	-2.8 (64)	0.4 (65)	<i>-5.6 (62)</i>	-0.1 (62)	0.9 (57)	<i>3.5 (77)</i>	
Dodge & Cox Stock Fund - X	29,441,779	1.0	-3.5 (82)	3.3 (23)	4.8 (25)	15.9 (6)	9.2 (22)	9.8 (8)	10.9 (-)	Feb-1965
Russell 1000 Value Index			<i>-3.5 (83)</i>	<i>-1.8 (66)</i>	0.1 (66)	10.2 (67)	6.6 (78)	7.6 (65)	-	
T. Rowe Price Large Cap Growth Fund	26,344,292	0.9	0.2 (1)	28.2 (13)	21.9 (20)	5.6 (45)	11.6 (46)	13.2 (11)	10.7 (4)	Nov-2001
Russell 1000 Growth Index			-1.4 (48)	23.2 (32)	19.0 (38)	8.7 (9)	14.2 (6)	13.8 (5)	9.6 (11)	
Boston Trust SMID Cap Fund	13,885,422	0.5	-4.6 (12)	-3.6 (60)	-2.0 (39)	8.6 (33)	7.3 (19)	7.9 (18)	10.8 (26)	Feb-2010
Russell 2500 Index			-6.1 <i>(55)</i>	-2.7 (53)	-4.6 (61)	<i>5.5 (54)</i>	5.5 (51)	6.9 (46)	10.2 (44)	
Goldman Sachs GQG Partners Int. Opportunities Fund - R6	6,236,411	0.2	-1.9 (8)	6.4 (6)	14.3 (36)	4.7 (42)	9.2 (1)	7.9 (1)	8.0 (1)	Aug-1990
MSCI AC World ex USA Index (Net)			-4.1 (74)	1.0 (69)	12.1 (61)	3.0 (55)	3.5 (64)	2.5 (64)	4.8 (79)	
Principal Real Estate Securities Inst Fund - R6	7,656,543	0.3	-3.5 (52)	-5.1 (23)	-5.1 (36)	3.7 (34)	4.0 (13)	-	4.7 (6)	Dec-2016
MSCI USA REIT Index (Net)			-4.4 (78)	-7.2 (60)	-7.1 (68)	3.9 (26)	1.3 (79)	-	1.9 (79)	

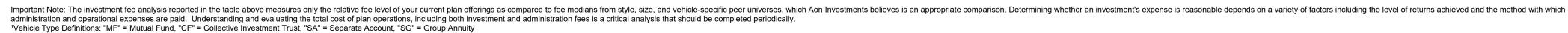


	Market	•				Perforn	nance %			
	Value \$	% -	1 Month	Year to Date	1 Year	3 Years	5 Years	10 Years	Since Inception	Inception Date
Tier IV	132,718,791	4.7								
Brokerage Link (Fidelity)	130,770,896	4.6								
Self Directed Brokerage Window (TIAA)	1,947,895	0.1								
Loans	4,563,024	0.2								
Loans (Fidelity)	3,362,718	0.1								
Loans (TIAA)	1,200,305	0.0								
Orphan Accounts	1,085,623,281	38.1								
TIAA Orphan Account	1,085,623,281	38.1								



Fee Analysis

	Vehicle Type ¹	Ticker	Universe Name ³	Revenue Share	Effective Net Expense		Peer Group Fee Range (%)			
				(%) ²	(%)	(%)	25th	50th	75th	Populatio
Tier I - Target Date Funds							-	-	-	-
Vanguard Target Retirement Income - Inv.	MF	VTINX	Aon Target Date Today Passive (MF)	0.08	0.00	0.08	0.10	0.16	0.34	6
Vanguard Target Retirement 2020 - Inv.	MF	VTWNX	Aon Target Date 2020 Passive (MF)	0.08	0.00	0.08	0.08	0.09	0.12	5
Vanguard Target Retirement 2025 - Inv.	MF	VTTVX	Aon Target Date 2025 Passive (MF)	0.08	0.00	0.08	0.09	0.12	0.30	7
Vanguard Target Retirement 2030 - Inv.	MF	VTHRX	Aon Target Date 2030 Passive (MF)	0.08	0.00	0.08	0.09	0.12	0.30	7
/anguard Target Retirement 2035 - Inv.	MF	VTTHX	Aon Target Date 2035 Passive (MF)	0.08	0.00	0.08	0.09	0.12	0.30	7
/anguard Target Retirement 2040 - Inv.	MF	VFORX	Aon Target Date 2040 Passive (MF)	0.08	0.00	0.08	0.09	0.12	0.30	7
/anguard Target Retirement 2045 - Inv.	MF	VTIVX	Aon Target Date 2045 Passive (MF)	0.08	0.00	0.08	0.09	0.12	0.30	7
/anguard Target Retirement 2050 - Inv.	MF	VFIFX	Aon Target Date 2050 Passive (MF)	0.08	0.00	0.08	0.09	0.12	0.30	7
/anguard Target Retirement 2055 - Inv.	MF	VFFVX	Aon Target Date 2055 Passive (MF)	0.08	0.00	0.08	0.09	0.12	0.30	7
/anguard Target Retirement 2060 - Inv.	MF	VTTSX	Aon Target Date 2060+ Passive (MF)	0.08	0.00	0.08	0.08	0.12	0.30	15
Vanguard Target Retirement 2065 - Inv.	MF	VLXVX	Aon Target Date 2060+ Passive (MF)	0.08	0.00	0.08	0.08	0.12	0.30	15
anguard Target Retirement 2070 - Inv.	MF	VSVNX	Aon Target Date 2060+ Passive (MF)	0.08	0.00	0.08	0.08	0.12	0.30	15
ier II - Passive Funds							-	-	-	-
anguard Total Bond Market Index Fund - Inst.	MF	VBTIX	eA US Passive Core Fixed Income (MF)	0.04	0.00	0.04	0.11	0.10	0.04	14
/anguard Short-Term Inflation-Protected Securities Fund - Inst.	MF	VTSPX	eA US Passive TIPS / Inflation Fixed Income (MF)	0.04	0.00	0.04	0.20	0.18	0.05	11
anguard Total Stock Market Index Fund - Inst.	MF	VITSX	eA US Passive Equity (MF)	0.03	0.00	0.03	0.23	0.15	0.05	174
anguard Institutional Index Fund - Inst.	MF	VINIX	eA US Passive S&P 500 Equity (MF)	0.04	0.00	0.04	0.17	0.10	0.05	22
/anguard FTSE Social Index Fund - Inst.	MF	VFTNX	eA US Passive Large Cap Equity (MF)	0.12	0.00	0.12	0.25	0.14	0.07	97
/anguard Extended Market Index Fund - Inst.	MF	VIEIX	eA US Passive Mid Cap Equity (MF)	0.05	0.00	0.05	0.19	0.15	0.05	22
anguard Total International Stock Index Fund - Inst.	MF	VTSNX	eA ACWI ex-US Passive Equity (MF)	0.08	0.00	0.08	0.32	0.20	0.11	15
/anguard Developed Market Index Fund - Inst.	MF	VTMNX	eA ACWI ex-US Passive Equity (MF)	0.05	0.00	0.05	0.32	0.20	0.11	15
/anguard Emerging Markets Stock Index Fund - Inst.	MF	VEMIX	eA Global Emerging Mkts Passive Equity (MF)	0.10	0.00	0.10	0.39	0.28	0.20	22
ier III - Active Funds							-	-	-	-
/anguard Federal Money Market Fund - Inv.	MF	VMFXX	IM U.S. Taxable Money Market (MF)	0.11	0.00	0.11	0.14	0.20	0.34	182
New York Life Guaranteed Interest Account	SG		Aon Stable Value Peer Group - Total Fee including Wrap Fees	0.10	0.00	0.10	0.36	0.47	0.60	16
TAA Traditional - RCP	SG		Aon Stable Value Peer Group – Total Fee including Wrap Fees	0.00	0.15	-0.15	0.36	0.47	0.60	16
aird Core Plus Bond Fund - Inst. (Fidelity)	MF	BCOIX	eA US Core Plus Fixed Income (MF)	0.30	0.02	0.28	0.50	0.46	0.40	90
Baird Core Plus Bond Fund - Inst. (TIAA)	MF	BCOIX	eA US Core Plus Fixed Income (MF)	0.30	0.00	0.30	0.50	0.46	0.40	90
Oodge & Cox Stock Fund	MF	DOXGX	eA US Large Cap Value Equity (MF)	0.41	0.00	0.41	0.81	0.70	0.59	194
. Rowe Price Inst. Large Cap Growth Fund	MF	TRLGX	eA US Large Cap Growth Equity (MF)	0.55	0.00	0.55	0.85	0.75	0.64	167
Boston Trust SMID Cap Fund	MF	BTSMX	eA US Small-Mid Cap Equity (MF)	0.75	0.00	0.75	1.01	0.90	0.78	96
Soldman Sachs GQG Partners Int. Opportunities Fund - R6	MF	GSIYX	eA ACWI ex-US All Cap Equity (MF)	0.75	0.00	0.75	0.97	0.85	0.75	54
Principal Real Estate Securities Inst. Fund - R6	MF	PFRSX	IM Real Estate Sector (MF)	0.80	0.00	0.80	0.40	0.65	0.86	87



²Expense Ratio is intended to represent a fund's total expense ratio which may include investment management fees, 12b-1 fees, custodial fees, trustee fees, revenue sharing components and/or charges for fund or plan administration.

³Fee universes are provided and calculated by eVestment Alliance, as of July 31, 2023. Fund expense information has been sourced from eVestment for all asset classes except the stable value and target date fund universes, which uses Morningstar databases. Since fund expense ratios do not change frequently, Aon Investments believes this study to be a relevant comparison for up to a year, at which time it will be updated. For complete information on methodologies, contact your Aon Investments believes this study to be a relevant comparison for up to a year, at which time it will be updated. For complete information on methodologies, contact your Aon Investments believes this study to be a relevant comparison for up to a year, at which time it will be updated. For complete information on methodologies, contact your Aon Investments believes this study to be a relevant comparison for up to a year, at which time it will be updated. For complete information on methodologies, contact your Aon Investments believes this study to be a relevant comparison for up to a year, at which time it will be updated. For complete information on methodologies, contact your Aon Investments believes this study to be a relevant comparison for up to a year, at which time it will be updated. For complete information on methodologies, contact your Aon Investments are provided and the prov



TIAA Traditional Additional Notes

TIAA Traditional is a uniquely-structured fixed rate annuity contract in which participants earn a personalized rate of return based on their individual cash flow experience. This product can act as both a capital preservation option during a participant's savings phase and as an optional immediate income annuity during the spending phase.

The performance within TIAA Traditional is determined in 2 key ways:

- On a monthly basis, a new money crediting rate is issued by TIAA
- On an annual basis, contributions are grouped together based on timing and TIAA declares new crediting rates for these groups of "vintage" contributions

The resulting performance is a dollar-weighted average of the returns being earned by a participant's contributions, simultaneously, over time. As such, the performance in this report is illustrative of the aggregate performance of TIAA Traditional investors and does not reflect any one participant- or even plan-level experience in the product.

For participants that are interested in converting all or some of their TIAA Traditional balance into lifetime income at retirement, there are contractual minimum annuitization rates associated with the product. That said, participants who are invested in TIAA Traditional for longer periods also earn a "loyalty bonus," where the monthly benefit is higher than that of an annuitant who transfers the same account balance into the product at the point-of-retirement.

Plan fiduciaries do not have control over assets in TIAA's Retirement Annuity (RA), Group Retirement Annuity (GRA), Supplemental Retirement Annuity (SRA), or Group Supplemental Retirement Annuity (GSRA) annuity contracts. This is due to the individual nature of these annuity contracts. Balances is these contracts are under participant control.



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Vanguard Target Retirement Funds - Inv.

Benchmark: The performance benchmarks for the Vanguard Retirement Funds are derived by applying the fund's target asset allocation to the results of the following benchmarks: for international stocks of developed markets, the MSCI EAFE Index through December 15, 2010, the MSCI ACWI ex USA IMI Index through June 2, 2013, and the FTSE Global All Cap ex US Index thereafter; for emerging-market stocks, the Select Emerging Markets Index through August 23, 2006, the MSCI Emerging Markets Index through December 15, 2010, the MSCI ACWI ex USA IMI Index through June 2, 2013, and the FTSE Global All Cap ex US Index thereafter; for U.S. bonds, the Bloomberg U.S. Aggregate Bond Index through December 31, 2009, and the Bloomberg U.S. Aggregate Float Adjusted Index thereafter, as well as the Bloomberg U.S. Treasury Inflation Protected Securities Index through June 2, 2013, and the Bloomberg U.S. Treasury Inflation-Protected Securities (TIPS) 0-5 Year Index thereafter; for short-term reserves, the Citigroup Three-Month Treasury Bill Index through June 2, 2013; for international bonds, the Bloomberg Global Aggregate ex-USD Float Adjusted RIC Capped Index beginning June 2, 2013; and for U.S. stocks, the MSCI US Broad Market Index through June 2, 2013, and the CRSP US Total Market Index thereafter. International stock benchmark returns are adjusted for withholding taxes.

Universe: Each respective Vanguard Retirement Fund uses a universe of similar target-dated funds who also employ an equity roll-down that becomes more conservative as participants become older. Respective universes are listed:

Vanguard Target Retirement Income: IM Retirement Income (MF)
Vanguard Target Retirement 2020: IM Mixed-Asset Target 2020 (MF)
Vanguard Target Retirement 2030: IM Mixed-Asset Target 2030 (MF)
Vanguard Target Retirement 2035: IM Mixed-Asset Target 2035 (MF)
Vanguard Target Retirement 2040: IM Mixed-Asset Target 2040 (MF)
Vanguard Target Retirement 2050: IM Mixed-Asset Target 2050 (MF)
Vanguard Target Retirement 2060: IM Mixed-Asset Target 2060+ (MF)
Vanguard Target Retirement 2065: IM Mixed-Asset Target 2060+ (MF)
Vanguard Target Retirement 2065: IM Mixed-Asset Target 2060+ (MF)
Vanguard Target Retirement 2065: IM Mixed-Asset Target 2060+ (MF)
Vanguard Target Retirement 2065: IM Mixed-Asset Target 2060+ (MF)



Vanguard Total Bond Market Index - Inst.

Benchmark: Performance Benchmark - Represents the Bloomberg U.S. Aggregate Float Adjusted Index. Prior to December 31, 2009 it was the Bloomberg Aggregate Bond Index.

Universe: IM U.S. Broad Market Core Fixed Income (MF) - Funds that invest in investment grade securities with average durations similar to the Bloomberg Capital Aggregate index.

Vanguard Short-Term Inflation Protected Securities Fund – Inst.

Benchmark: Bloomberg Bloomberg U.S. TIPS 0-5 Years - Includes inflation-protected public obligations issued by the U.S. Treasury with remaining maturities of less than five years.

Universe: IM U.S. TIPS (MF)- Funds that primarily invest in inflation indexed fixed income securities issued in the U.S. Inflation indexed bonds are fixed income securities that are structured to provide protection against inflation.

Vanguard Total Stock Market Index Fund – Inst.

Benchmark: Performance Benchmark - Dow Jones U.S. Total Stock Market Index (formerly known as the Dow Jones Wilshire 5000 Index) through April 22, 2005; MSCI US Broad Market Index through June 2, 2013; and CRSP US Total Market Index thereafter.

Universe: IM U.S. Equity (MF) - Universe includes all U.S. equity mutual funds, excluding funds that primarily invest in commodities.

Vanguard Institutional Index - Inst.

Benchmark: <u>S&P 500 Index</u> - A capitalization-weighted index representing stocks chosen by Standard & Poor's, Inc. for their size, liquidity, stability and industry group representation. The companies in the S&P 500 Index are generally among the largest in their industries.

Universe: IM S&P 500 Index (MF) - Funds that are passively managed and commit to replicate the performance of the S&P 500 Index (including reinvested dividends). Most of the funds in this category are index funds.



Vanguard FTSE Social Index Fund – Inst.

Benchmark: FTSE 4Good U.S. Select Index - A socially responsible investment (SRI) index of U.S. stocks that excludes companies with certain business activities such as weapons, tobacco, gambling, alcohol, nuclear power, and adult entertainment.

Benchmark (secondary): <u>S&P 500 Index</u> - A capitalization-weighted index representing stocks chosen by Standard & Poor's, Inc. for their size, liquidity, stability and industry group representation. The companies in the S&P 500 Index are generally among the largest in their industries.

Universe: IM U.S. Large Cap Equity (MF) - Universe includes U.S. equity mutual funds in the following peer groups: U.S. Large Cap Core, U.S. Large Cap Growth and U.S. Large Cap Value Equity.

Vanguard Extended Market Index – Inst.

Benchmark: Performance Benchmark - Dow Jones Wilshire 4500 Index through June 17, 2005; S&P Transitional Completion Index through September 16, 2005; S&P Completion Index thereafter.

Universe: IM U.S. SMID Cap Equity (MF) - Universe includes equity mutual funds in the following peer groups: U.S. SMID Cap Core, U.S. SMID Cap Growth and U.S. SMID Cap Value Equity.

Vanguard Total International Stock Market Index - Inst.

Benchmark: <u>Performance Benchmark</u> - Total International Composite Index through August 31, 2006; MSCI EAFE + Emerging Markets Index through December 15, 2010; MSCI ACWI ex USA IMI Index through June 2, 2013; and FTSE Global All Cap ex US Index thereafter. Benchmark returns are adjusted for withholding taxes.

Universe: IM International Equity Markets (MF) - Funds where the investment strategy focuses on both international growth and value securities across a variety of cap ranges.

Vanguard Developed Market Index - Inst.

Benchmark: Performance Benchmark - MSCI EAFE Index through May 28, 2013; FTSE Developed ex North America Index through December 20, 2015; FTSE Developed All Cap ex US Transition Index through May 31, 2016; FTSE Developed All Cap ex US Index thereafter. Benchmark returns are adjusted for withholding taxes.

Universe: IM International Equity Developed Markets (MF) - Universe includes all international equity mutual funds in the IM International Equity Large Cap, Multi Cap, SMID Cap and regionally focused peer groups, excluding emerging markets.



Vanguard Emerging Markets Stock Index - Inst.

Benchmark: <u>Performance Benchmark</u> - Select Emerging Markets Index through August 23, 2006; MSCI Emerging Markets Index through January 9, 2013; FTSE Emerging Transition Index through June 27, 2013; and FTSE Emerging Index through November 1, 2015; FTSE Emerging Markets All Cap China A Transition Index through September 18, 2016; and FTSE Emerging Markets All Cap China A Inclusion Index thereafter. Benchmark returns are adjusted for withholding taxes.

Universe: IM Emerging Markets Equity (MF) - Funds that seek long-term capital appreciation by investing at least 65% of total assets in emerging market equity securities, where an emerging market is defined by a country's GNP per capita or other economic measures.

<u>Vanguard Federal Money Market Fund – Inv.</u>

Benchmark: FTSE 3 Month T-Bill - An index that measures the average return of the last three-month U.S. Treasury Bill issues.

Universe: IM U.S. Taxable Money Market (MF) - Funds that invest in high quality financial instruments which are rated within the top two grades and have dollar-weighted average maturities of less than 90 days.

New York Life Guaranteed Interest Account

Benchmark: <u>Hueler Stable Value Index</u> - The Hueler Analytics Stable Value Pooled Fund Comparative Universe represents investment strategies of \$96 billion in stable value assets, across 24 pooled funds, invested in contracts universe across a universe of 16 general account issuers and 14 synthetic wrap providers. The allocation of pooled fund assets is dominated by synthetic contracts issued by insurance companies and banks.

Universe: IM U.S. GIC/Stable Value (SA+CF) - Products where the primary investments are in traditional or synthetic guaranteed investment contracts (GICs).

TIAA Traditional – RCP

Benchmark: <u>Hueler Stable Value Index</u> - The Hueler Analytics Stable Value Pooled Fund Comparative Universe represents investment strategies of \$96 billion in stable value assets, across 24 pooled funds, invested in contracts universe across a universe of 16 general account issuers and 14 synthetic wrap providers. The allocation of pooled fund assets is dominated by synthetic contracts issued by insurance companies and banks.

Universe: IM U.S. GIC/Stable Value (SA+CF) - Products where the primary investments are in traditional or synthetic guaranteed investment contracts (GICs).



Baird Core Plus Bond Fund – Inst.

Benchmark: <u>Bloomberg U.S. Aggregate</u> - A market value-weighted index consisting of government bonds, SEC-registered corporate bonds and mortgage-related and asset-backed securities with at least one year to maturity and an outstanding par value of \$250 M or greater. This index is a broad measure of the performance of the investment grade U.S. fixed income market.

Universe: IM U.S. Broad Market Core+ Fixed Income (MF) - Products where the portfolio weighted average duration is greater than or equal to 4 years and less than 6 years. The average maturity can be between 3 and 8 years. The allocation to high yield bonds or emerging market debt is greater than 5%.

Dodge & Cox Stock Fund

Benchmark: Russell 1000 Value Index - An index that measures the performance of those stocks included in the Russell 1000 Index with lower price-to-book ratios and lower I/B/E/S earnings growth forecasts.

Universe: IM U.S. Large Cap Value Equity (MF) - Funds where the investment strategy focuses on U.S. large cap value securities. Funds typically have below average price-to-earnings ratios, price- to-book ratio, and three-year sales-per-share growth values, compared to the S&P 500 Index.

T. Rowe Price Inst. Large Cap Growth

Benchmark: Russell 1000 Growth Index - An index that measures the performance of those Russell 1000 companies with higher price-to-book ratios and higher I/B/E/S growth forecasts.

Universe: IM U.S. Large Cap Growth Equity (MF) - Funds where the investment strategy focuses on U.S. large cap growth securities. funds typically have above-average price-to-earnings ratios, price-to-book ratios, and three-year sales-per-share growth values, compared to the S&P 500 Index.

Boston Trust SMID Cap Fund

Benchmark: <u>Russell 2500 Index</u> - The index is constructed by first identifying the 3,000 largest capitalization U.S. stocks and ranking them by market capitalizations, choosing the bottom 2,500 names on the list.

Universe: IM U.S. SMID Cap Equity (MF) - Universe includes equity mutual funds in the following peer groups: U.S. SMID Cap Core, U.S. SMID Cap Growth and U.S. SMID Cap Value Equity.



Goldman Sachs GQG Partners International Opportunities Fund – R6

Benchmark: MSCI All Country World ex USA Index (Net) - A capitalization-weighted index of stocks representing 44 stock markets in Europe, Australia, the Far East, the Middle East, Latin America, and North America. The index consists of 23 developed and 21 emerging countries, but excludes the U.S.

Universe: IM International Equity Markets (MF) - Funds where the investment strategy focuses on both international growth and value securities across a variety of cap ranges.

Principal Real Estate Securities Institutional Fund – R6.

Benchmark: MSCI USA REIT Index (Net) - A broad index that fairly represents the equity REIT opportunity set with proper investability screens to ensure that the index is investable and replicable. The index represents approximately 85% of the U.S. REIT universe.

Universe: IM Real Estate Sector (MF) - Funds that invest at least 65% of their portfolios in equity securities of domestic and foreign companies engaged in the real estate industry.



Notes

The rates of return contained in this report are shown on an after-fee basis unless otherwise noted. They are geometric and time weighted. Returns for periods longer than one year are annualized.

Universe percentiles are based upon ordering system in which 1 is the best ranking and 100 is the worst ranking.

Due to rounding throughout the report, percentage totals displayed may not sum up to 100.0%. Additionally, individual fund totals in dollar terms may not sum up to the plan totals.



Disclaimer

Past performance is not necessarily indicative of future results.

Unless otherwise noted, performance returns presented reflect the respective fund's performance as indicated. Returns may be presented on a before-fees basis (gross) or after-fees basis (net). After-fee performance is net of each respective sub-advisors' investment management fees and include the reinvestment of dividends and interest as indicated on the notes page within this report or on the asset allocation and performance summary pages. Actual returns may be reduced by Aon Investments' investments' investments advisory fees or other trust payable expenses you may incur as a client. Aon Investments' advisory fees are described in Form ADV Part 2A. Portfolio performance, characteristics and volatility also may differ from the benchmark(s) shown.

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