Vanguard°

Semiannual Report | June 30, 2023

Vanguard Variable Insurance Funds

Real Estate Index Portfolio

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About Your Portfolio's Expenses

As a shareholder of the portfolio, you incur ongoing costs, which include costs for portfolio management, administrative services, and shareholder reports (like this one), among others. Operating expenses, which are deducted from a portfolio's gross income, directly reduce the investment return of the portfolio.

A portfolio's expenses are expressed as a percentage of its average net assets. This figure is known as the expense ratio. The following examples are intended to help you understand the ongoing costs (in dollars) of investing in your portfolio and to compare these costs with those of other mutual funds. The examples are based on an investment of \$1,000 made at the beginning of the period shown and held for the entire period.

The accompanying table illustrates your portfolio's costs in two ways:

• Based on actual portfolio return. This section helps you to estimate the actual expenses that you paid over the period. The "Ending Account Value" shown is derived from the portfolio's actual return, and the third column shows the dollar amount that would have been paid by an investor who started with \$1,000 in the portfolio. You may use the information here, together with the amount you invested, to estimate the expenses that you paid over the period.

To do so, simply divide your account value by \$1,000 (for example, an \$8,600 account value divided by \$1,000 = 8.6), then multiply the result by the number given for your portfolio under the heading "Expenses Paid During Period."

• Based on hypothetical 5% yearly return. This section is intended to help you compare your portfolio's costs with those of other mutual funds. It assumes that the portfolio had a yearly return of 5% before expenses, but that the expense ratio is unchanged. In this case—because the return used is not the portfolio's actual return—the results do not apply to your investment. The example is useful in making comparisons because the Securities and Exchange Commission requires all mutual funds to calculate expenses based on a 5% return. You can assess your portfolio's costs by comparing this hypothetical example with the hypothetical examples that appear in shareholder reports of other funds.

Note that the expenses shown in the table are meant to highlight and help you compare *ongoing* costs only and do not reflect transaction costs incurred by the portfolio for buying and selling securities. The portfolio's expense ratio does not reflect additional fees and expenses associated with the annuity or life insurance program through which you invest.

The calculations assume no shares were bought or sold during the period. Your actual costs may have been higher or lower, depending on the amount of your investment and the timing of any purchases or redemptions.

You can find more information about the portfolio's expenses, including annual expense ratios, in the Financial Statements section of this report. For additional information on operating expenses and other shareholder costs, please refer to your portfolio's current prospectus.

Six Months Ended June 30, 2023

Real Estate Index Portfolio	Beginning Account Value 12/31/2022	Ending Account Value 6/30/2023	Expenses Paid During Period
Based on Actual Portfolio Return	\$1,000.00	\$1,034.50	\$1.31
Based on Hypothetical 5% Yearly Return	1,000.00	1,023.51	1.30

The calculations are based on expenses incurred in the most recent six-month period. The portfolio's annualized six-month expense ratio for that period is 0.26%. The dollar amounts shown as "Expenses Paid" are equal to the annualized expense ratio multiplied by the average account value over the period, multiplied by the number of days in the most recent six-month period, then divided by the number of days in the most recent 12-month period (181/365).

Real Estate Index Portfolio

Portfolio Allocation

As of June 30, 2023

Data Center REITs	8.2%
Diversified Real Estate Activities	0.2
Diversified REITs	2.1
Health Care REITs	8.0
Hotel & Resort REITs	2.6
Industrial REITs	12.6
Multi-Family Residential REITs	9.4
Office REITs	4.3
Other Specialized REITs	6.1
Real Estate Development	0.3
Real Estate Operating Companies	0.3
Real Estate Services	6.9
Retail REITs	12.3
Self-Storage REITs	6.9
Single-Family Residential REITs	4.7
Telecom Tower REITs	12.6
Timber REITs	2.5

The table reflects the portfolio's investments, except for short-term investments and derivatives. Sector categories are based on the Global Industry Classification Standard ("GICS"), except for the "Other" category (if applicable), which includes securities that have not been provided a GICS classification as of the effective reporting period.

The portfolio may invest in derivatives (such as futures and swap contracts) for various reasons, including, but not limited to, attempting to remain fully invested and tracking its target index as closely as possible.

The Global Industry Classification Standard ("GICS") was developed by and is the exclusive property and a service mark of MSCI Inc. ("MSCI") and Standard and Poor's, a division of McGraw-Hill Companies, Inc. ("S&P"), and is licensed for use by Vanguard. Neither MSCI, S&P nor any third party involved in making or compiling the GICS or any GICS classification makes any express or implied warranties or representations with respect to such standard or classification (or the results to be obtained by the use thereof), and all such parties hereby expressly disclaim all warranties of originality, accuracy, completeness, merchantability or fitness for a particular purpose with respect to any such standard or classification. Without limiting any of the foregoing, in no event shall MSCI, S&P, any of its affiliates or any third party involved in making or compiling the GICS or any GICS classification have any liability for any direct, indirect, special, punitive, consequential or any other damages (including lost profits) even if notified of the possibility of such damages.

Financial Statements (unaudited)

Schedule of Investments

As of June 30, 2023

The portfolio files its complete schedule of portfolio holdings with the Securities and Exchange Commission (SEC) for the first and third quarters of each fiscal year as an exhibit to its reports on Form N-PORT. The portfolio's Form N-PORT reports are available on the SEC's website at www.sec.gov.

		Shares	Market Value* (\$000)		Shares	Market Value* (\$000)
Dispaties Inc. Dispaties Properties Place Sci.34 17.85 10.85	Equity Real Estate Investment Trusts (REITs) (92.2%)			Innovative Industrial Properties Inc.		1,702
Digital Reality Trust Inc.	Data Center REITs (8.1%)		<u> </u>	,		
Multi-Family Residential RETIs (9.4%)	Equinix Inc.	77,852	61,031	Industrial Logistics Properties Trust	53,348	176
Diversified RETIS (2.1%)	Digital Realty Trust Inc.	242,512	27,615			136,953
Sesential Properties Really Tost Inc. 12,812 2,917			88,646		116 EEO	22.061
Essantial Properties Realty Trust Inc.				,		
Browlettone Nett Lease Inc.						
Alexander & Baldwin Inc.	,				,	
Alexander & Baschy Inc. 0,474 1,125 Carnden Property Flust 8,899 9,877						
Part						,
American Assets Tiust Inc. 1898 34,006 Nex Ormanical Cornmercial Corn 33,004 Nex Ormanican Cornmercial Corn 33,004 Nex Ormanican Cornmercial Corn 33,004 Nex Ormanican Cornmercial Corn 34,004 Welflower Inc. 413,173 Welflower Inc. 414,174 Welf						
Armada Hoffler Properties Inc. 5,390 659				·		
Second Properties Inc. Second Properties I				·	,	
Nexponit Diversified Real Estate Trust 26,348 330 Apartment Investment & Management Co. Class A 112,331 957 One Libertry Properties Inc. 14,176 22,734 Rev Promit Residential Trust Inc. 12,157 788 Well tower Inc. 413,173 33,422 Office REITs (4.3%) Vertical Section of Trust Inc. 413,173 33,422 Office REITs (4.3%) Vertical Section of Trust Inc. 136,838 15,533 42,043 41,174 42,043 41,144 42,043 41,144 42,043 41,144 42,043 41,144 42,043 41,144 42,043 41,144 42,043 41,144 42,043 41,144 42,043 41,144 42,043 41,144 42,043 41,144 42,043 41,144 42,043 41,144 42,043 41,444 41,444 42,043 41,444 42,043 41,444 42,044 41,444 43,044 42,044 41,444 42,044 42,044 41,444 42,044 42,044 42,444 42,044 42,044 42,444 42,044 42,144 42,044 <td></td> <td></td> <td></td> <td>* Veris Residential Inc.</td> <td></td> <td></td>				* Veris Residential Inc.		
Dec Dec				Apartment Investment & Management Co. Class A	112,331	957
Melitocare REIT's (8.0%)				NexPoint Residential Trust Inc.	19,216	874
Health Care RETTs (8.0%) Well tower Inc. 413,173 33,422 Alexandria Real Estate Equities Inc. 196,838 15,500 Wentas Inc. 413,6381 9,135 80,800 Properties Inc. 124,041 7,144 Omega Healthcare Investors Inc. 195,030 5,955 Cousins Properties Inc. 126,316 2,880 Healthcare Realty Trust Inc. Class A 317019 5,979 Kilrow Realty Corp. 32,645 2,880 Healthcare Realty Trust Inc. Class A 317019 5,979 Kilrow Realty Corp. 36,678 2,280 Medical Properties Trust Inc. 498,127 4,613 Corporate Office Properties Inc. 33,678 2,226 Physicians Realty Trust (are Realty Trust Inc. 33,627 2,266 Equity Commonweith 36,829 2,788 National Health Investors Inc. 32,481 1,844 1,137 3,226 Equity Commonweith 32,681 1,840 Li C Properties Inc. 34,440 1,137 4,440 1,137 4,440 1,137 4,440 Li C Properties Inc. 51,879 4,74 Pedromon Office Realty Trust Inc. 6,830 4,640 Clobal Medical RETI Inc. 51,879 4,74 Pedromon Office Realty Trust Inc. 6,830 4,640 Clobal Medical RETI Inc. 51,879 4,74 Pedromon Office Realty Trust Inc. 6,830 4,640 Clobal Medical RETI Inc. 51,879 4,74 Pedromon Office Realty Trust Inc. 6,830 4,640 Clobal Medical RETI Inc. 51,879 4,74 Pedromon Office Realty Trust Inc. 6,830 4,640 Clobal Medical RETI Inc. 51,879 4,74 Pedromon Office Realty Trust Inc. 6,830 4,640 Clobal Medical RETI Inc. 51,879 4,74 Pedromon Office Realty Trust Inc. 6,830 4,640 Clobal Medical RETI Inc. 4,846 2,348 Hotel & Resort RETTs (2.6%) 4,440 4,440 4,440 4,440 Hotel & Resort RETTs (2.6%) 4,440 4,440 4,440 4,440 4,440 4,440 4,440 Hotel Alexandria Realty Trust Inc. 6,930 6,930 6,930 6,930 Apple Hotel Star Resorts Inc. 6,930 6,930 6,930 6,930 6,930 6,930 Park Hotels & Resorts Inc. 6,930 6,930 6,930 6,930 6,930 6,930 6,930 6,930 6,930 6,930 6,930 6,930	One Liberty Properties inc.	14,170		Centerspace	12,517	768
Weltase Inc.	Health Care REITs (8.0%)		22,734			102,659
Mestable Mestable	· ,	413.173	33.422			
Healthpaek Properties Inc.				•		
Description	Healthpeak Properties Inc.			·		
Medical Properties Tust Inc.	·					
Physicians Realty Trust 198,599 2,778 198,690 2,778 198,690 2,778 198,690 2,778 198,690 2,788 198,690 2,788 198,690 2,788 198,690 2,788 198,690 2,988 198,690 2,988 198,690 2,988 198,690 2,988 198,690 2,988 198,690 2,988 198,690 2,988 198,690 2,988 198,690 2,988 2,988 2,989	•					
Sabra Health Care RETT Inc. 132,483 2,266 Equity Commonwealth 92,586 1,876 1,870 1,870 1,870 1,870 1,870 1,970	Medical Properties Trust Inc.	498,127	4,613		,	
Salar Arealm Cent Pict 11.0	Physicians Realty Trust	198,599	2,778		,	
Care Fixed REIT Inc. S2,948 1,645 LTC Properties Inc. 34,440 1,137 SL Green Realty Corp. 53,604 1,611 Community Healthcare Trust Inc. 20,636 681 JBG SMITH Properties 90,006 1,357 Universal Health Realty Income Trust 10,923 520 Easterly Government Properties Inc. Class A 76,612 1,111 Global Medical REIT Inc. 51,879 474 Brandywine Realty Trust Inc. Class A 130,009 749 Global Medical REIT inc. 197,348 444 Brandywine Realty Trust Inc. Class A 130,009 749 Fredmont Office Realty Trust Inc. Class A 130,009 749 Fredmont Office Realty Trust Inc. Class A 130,009 749 Fredmont Office Realty Trust Inc. Class A 130,009 749 Fredmont Office Realty Trust Inc. Class A 140,079 670 Fredmont Office Realty Trust Inc. Class A 140,079 670 Fredmont Office Realty Trust Inc. Class A 140,079 670	Sabra Health Care REIT Inc.	192,483	2,266		,	
State Stat	National Health Investors Inc.	36,124	1,894			
LTC Properties Inc.	¹ CareTrust REIT Inc.	82,848	1,645			
Universial Health Realty Income Trust 10,923 520 Easterly Government Properties Inc. Class A 76,612 1,111	LTC Properties Inc.	34,440	1,137	or dieen healty colp.	,	,
Silobal Medical REIT Inc. 51,879 474 Brandywine Realty Trust Inc. Class A 103,009 749	Community Healthcare Trust Inc.	20,636				
Diversified Healthcare Trust 197,348 444 867,344 Paramount Group Inc. 135,759 670	Universal Health Realty Income Trust	10,923	520			,
No. No.					,	
Hotel & Resort REITs (2.6%)	Diversified Healthcare Trust	197,348	444_			
Hotel & Resort REITs (2.6%)			86,734	·	,	
Host Hotels & Resorts Inc.	Hotel & Resort REITs (2.6%)			·		
Ryman Hospitality Properties Inc.	Host Hotels & Resorts Inc.	593,975	9,997			
Apple Hospitality REIT Inc. 181,389 2,741 Franklin Street Properties Corp. 73,740 107 Park Hotels & Resorts Inc. 184,756 2,368 2,368 46,286 Sunstone Hotel Investors Inc. 164,715 1,667 0ther Specialized REITs (6.1%) 46,286 Pebblebrook Hotel Trust 104,067 1,451 VICI Properties Inc. Class A 835,989 26,275 RLJ Lodging Trust 134,606 1,382 Iron Mountain Inc. 242,732 13,792 Service Properties Trust 137,754 1,197 Gaming & Leisure Properties Inc. 218,392 10,583 Service Properties Inc. 92,588 1,140 Lamar Advertising Co. Class A 72,808 7,226 Summit Hotel Properties Inc. 89,072 580 Outfront Media Inc. 123,634 1,944 Chatham Lodging Trust 40,704 381 Four Corners Property Trust Inc. 198,704 918 Industrial REITs (12.6%) 546,799 Safehold Inc. 31,955 758 Prologis Inc. 768,789 94,277 Gladstone Land Corp. <td< td=""><td>Ryman Hospitality Properties Inc.</td><td>43,698</td><td>4,060</td><td></td><td></td><td></td></td<>	Ryman Hospitality Properties Inc.	43,698	4,060			
Park Hotels & Resorts Inc. 184,756 2,368 46,286 Sunstone Hotel Investors Inc. 164,715 1,667 Other Specialized REITs (6.1%) 46,286 Pebblebrook Hotel Trust 104,067 1,451 VICI Properties Inc. Class A 835,989 26,275 RLJ Lodging Trust 134,606 1,382 Iron Mountain Inc. 242,732 13,792 Service Properties Trust 137,754 1,197 Gaming & Leisure Properties Inc. 218,392 10,583 Xenia Hotels & Resorts Inc. 92,588 1,140 Lamar Advertising Co. Class A 72,808 7,226 Summit Hotel Properties Inc. 89,072 580 EPR Properties 62,668 2,933 Chatham Lodging Trust 40,704 381 Four Corners Property Trust Inc. 123,634 1,944 Industrial REITs (12.6%) Safehold Inc. 31,955 758 Prologis Inc. 768,789 94,277 1 Gladstone Land Corp. 28,267 460 Resid Realty Trust Inc. 224,862 7,263 Retail REITs (12.3%) 8ealty Income Corp. 549,891 <td< td=""><td>Apple Hospitality REIT Inc.</td><td>181,389</td><td>2,741</td><td>,</td><td></td><td></td></td<>	Apple Hospitality REIT Inc.	181,389	2,741	,		
Pebblebrook Hotel Trust 104,067 1,451	Park Hotels & Resorts Inc.	184,756	2,368	Transmit de det Freperioe de p.	. 0, 0	
DiamondRock Hospitality Co. 175,665 1,407 VICI Properties Inc. Class A 835,989 26,275		164,715		Other Specialized PEITs (6.19/)		40,280
Part					02E 000	26 275
Service Properties Trust 134,606 1,382 1,197 Service Properties Inc. 218,392 10,583 1,197 Lamar Advertising Co. Class A 72,808 7,226 1				•	,	
Xenia Hotels & Resorts Inc. 92,588 1,140 Lamar Advertising Co. Class A 72,808 7,226					,	
Summit Hotel Properties Inc. Sp.						,
Chatham Lodging Trust						
Four Corners Property Trust Inc. 198,704 918 1,820 198,704 918 1,820 1,935 1,820 1,935 1,820 1,935 1,830 1,935 1,830 1,935 1	,					
Prologis Inc. 768,789 94,277 1	Chatham Lodging Irust	40,704	381			
Industrial REITs (12.6%) Safehold Inc. 31,955 758 Prologis Inc. 768,789 94,277 1 Gladstone Land Corp. 28,267 460 Rexford Industrial Realty Inc. 167,165 8,729 66,709 Americold Realty Trust Inc. 224,862 7,263 Retail REITs (12.3%) 7,703 EastGroup Properties Inc. 36,834 6,394 Realty Income Corp. 549,891 32,878 First Industrial Realty Trust Inc. 149,329 5,358 Simon Property Group Inc. 272,004 31,411 Terreno Realty Corp. 68,915 4,142 Kimco Realty Corp. 516,090 10,177			28,371	' '		
Prologis Inc. 768,789 94,277 1 Gladstone Land Corp. 28,267 460 Rexford Industrial Realty Inc. 167,165 8,729 Fight Americal Realty Trust Inc. 224,862 7,263 Retail REITs (12.3%) Retail REITs (12.3%) Realty Income Corp. 549,891 32,878 STAG Industrial Inc. 149,329 5,358 Simon Property Group Inc. 272,004 31,411 Terreno Realty Corp. 68,915 4,142 Research Corp. 516,090 10,777 Page 200 Control Corp. 516,090 7,777 Page 201 Control Corp. 516,090 7,777	Industrial REITs (12.6%)					
Rexford Industrial Realty Inc. 167,165 8,729	Prologis Inc.	768,789				
EastGroup Properties Inc. 36,834 6,394 First Industrial Realty Trust Inc. 110,060 5,794 STAG Industrial Inc. 149,329 5,358 Terreno Realty Corp. 68,915 4,142 First Industrial Corp. 120,004 31,411 First Industrial Corp. 120,004 31,411 First Industrial Corp. 120,005 10,177	,				-,	
First Industrial Realty Trust Inc. 110,060 5,794 Realty Income Corp. 549,891 32,878 STAG Industrial Inc. 149,329 5,358 Simon Property Group Inc. 272,004 31,411 Terreno Realty Corp. 68,915 4,142 Realty Corp. 516,090 10,177	•			Potoil PEITo (12 20/)		66,709
STAG Industrial Inc. 149,329 5,358 Simon Property Group Inc. 272,004 31,411 Terreno Realty Corp. 68,915 4,142 Recorpt Corp. 516,090 10,177	· ·				E40 001	22 070
Terreno Realty Corp. 516,090 10,177	,					
leffello fledity Corp. 00,915 4,142				· · · · ·		
1 XP Industrial Trust 2/3 573 2 375 Hegenby Centers Corp. 120,002 7,320	, ,					
Ext. industrial rust	LXP Industrial Trust	243,573	2,375		120,002	7,020

	Shares	Market Value* (\$000)
NNN REIT Inc.	151,560	6,485
Federal Realty Investment Trust	61,073	5,910
Brixmor Property Group Inc.	250,178	5,504
Agree Realty Corp.	75,131	4,913
Spirit Realty Capital Inc.	117,629	4,632
Kite Realty Group Trust	182,615	4,080
Phillips Edison & Co. Inc.	97,642	3,328
SITE Centers Corp.	156,820	2,073
Macerich Co.	179,065	2,018
Tanger Factory Outlet Centers Inc.	87,679	1,935
Urban Edge Properties	97,900	1,511
Retail Opportunity Investments Corp.	104,120	1,407
InvenTrust Properties Corp.	56,183	1,300
Getty Realty Corp.	36,988	1,251
Acadia Realty Trust	79,292	1,141
NETSTREIT Corp.	48,523	867
RPT Realty	72,139	754
Necessity Retail REIT Inc. Class A	111,453	753
Urstadt Biddle Properties Inc. Class A	24,120	513
Saul Centers Inc.	10,954	403
Alexander's Inc.	1,914	352
CBL & Associates Properties Inc.	9,212	203
*,2 Spirit MTA REIT	42,040	_
Spill Will Will	12,010	133,727
Self-Storage REITs (6.9%)		
Public Storage	131,716	38,445
Extra Space Storage Inc.	112,398	16,730
Life Storage Inc.	70,838	9,419
CubeSmart	187,753	8,385
National Storage Affiliates Trust	69,846	2,433
		75,412
Single-Family Residential REITs (4.7%)		
Invitation Homes Inc.	509,384	17,523
Sun Communities Inc.	103,587	13,514
Equity LifeStyle Properties Inc.	147,244	9,849
American Homes 4 Rent Class A	270,586	9,592
UMH Properties Inc.	47,497	759
		51,237
Telecom Tower REITs (12.6%)		
American Tower Corp.	387,983	75,245
Crown Castle Inc.	361,039	41,137
SBA Communications Corp. Class A	90,182	20,901
Timber PEITs (2.5%)		137,283
Timber REITs (2.5%)	610 144	20.440
Weyerhaeuser Co.	610,144	20,446
Rayonier Inc.	116,634	3,663
PotlatchDeltic Corp.	66,531	3,516
Total Equity Real Estate InvestmentTrusts (REITs) (C	net \$1 124 322\	27,625 1,004,376
Real Estate Management & Development (7.6%)	υσι ψ1,124,322)	1,004,370
Diversified Real Estate Activities (0.2%)	00.400	1 410
St. Joe Co.	29,160	1,410

	Shares	Market Value* (\$000)
RMR Group Inc. Class A	12,783	296
		1,706
Real Estate Development (0.3%)		,
* Howard Hughes Corp.	29,142	2,300
* Forestar Group Inc.	16,578	374
Real Estate Operating Companies (0.3%)		2,674
DigitalBridge Group Inc.	134,609	1,980
Kennedy-Wilson Holdings Inc.	80,436	1,313
* Seritage Growth Properties Class A	30,385	271
*,1 WeWork Inc. Class A	101,280	26
Vierrein mei Glase / V	.0.,200	3,590
Real Estate Services (6.8%)		3,330
* CoStar Group Inc.	338,646	30,139
* CBRE Group Inc. Class A	258,740	20,883
* Zillow Group Inc. Class C	127,112	6,389
* Jones Lang LaSalle Inc.	39,638	6,175
* Zillow Group Inc. Class A	48,635	2,393
* Opendoor Technologies Inc.	428,022	1,721
eXp World Holdings Inc.	62,080	1,259
* Redfin Corp.	91,379	1,135
* Cushman & Wakefield plc	132,372	1,083
* Compass Inc. Class A	238,406	834
Newmark Group Inc. Class A	120,614	750
Marcus & Millichap Inc.	21,203	668
* Anywhere Real Estate Inc.	82,783	553
RE/MAX Holdings Inc. Class A	15,115	291
Douglas Elliman Inc.	61,142	136
*.1 Offerpad Solutions Inc.	4,691	61
Doma Holdings Inc.	4,358	21
T. 10 15 M	407.400\	74,491
Total Real Estate Management & Development (Cost \$	107,426)	82,461
Temporary Cash Investments (0.8%)		
Money Market Fund (0.8%)		
3.4 Vanguard Market Liquidity Fund, 5.150% (Cost \$8,280)	82,806	8,279
-	02,000	0,279
Total Investments (100.6%) (Cost \$1,240,028)		1,095,116
Other Assets and Liabilities – Net (-0.6%)		(6,309)
Net Assets (100%)		1,088,807
Cost is in \$000.		

- See Note A in Notes to Financial Statements.
 Non-income-producing security.
- 1 Includes partial security positions on loan to broker-dealers. The total value of securities on loan is \$7,750,000.
- Security value determined using significant unobservable inputs.
 Affiliated money market fund available only to Vanguard funds and certain trusts and accounts managed by Vanguard. Rate shown is the 7-day yield.
- 4 Collateral of \$8,265,000 was received for securities on loan. REIT—Real Estate Investment Trust.

Futures Contracts				
				(\$000)
	Expiration	Number of Long (Short) Contracts	Notional Amount	Value and Unrealized Appreciation (Depreciation)
Long Futures Contracts				
Dow Jones U.S. Real Estate Index	September 2023	30	1,011	25
E-mini S&P 500 Index	September 2023	6	1,346	2
				27

Statement of Assets and Liabilities As of June 30, 2023

(\$000s, except shares, footnotes, and per-share amounts)	Amount
Assets	
Investments in Securities, at Value ¹	
Unaffiliated Issuers (Cost \$1,231,748)	1,086,837
Affiliated Issuers (Cost \$8,280)	8,279
Total Investments in Securities	1,095,116
Investment in Vanguard	37
Cash Collateral Pledged—Futures Contracts	72
Receivables for Investment Securities Sold	31,890
Receivables for Accrued Income	4,295
Receivables for Capital Shares Issued	58
Variation Margin Receivable—Futures Contracts	8
Total Assets	1,131,476
Liabilities	
Due to Custodian	2,054
Payables for Investment Securities Purchased	31,697
Collateral for Securities on Loan	8,265
Payables for Capital Shares Redeemed	538
Payables to Vanguard	115
Total Liabilities	42,669
Net Assets	1,088,807

¹ Includes \$7,750,000 of securities on loan.

At June 30, 2023, net assets consisted of:

Paid-in Capital	1,197,518
Total Distributable Earnings (Loss)	(108,711)
Net Assets	1,088,807
Net Assets	
Applicable to 98,632,617 outstanding \$.001 par value shares of beneficial interest (unlimited authorization)	1,088,807
Net Asset Value Per Share	\$11.04

Statement of Operations

Six Months Ended June 30, 2023

	(\$000)
Investment Income	
Income	
Dividends	16,500
Interest ¹	4
Securities Lending—Net	17
Total Income	16,521
Expenses	
The Vanguard Group—Note B	
Investment Advisory Services	12
Management and Administrative	1,314
Marketing and Distribution	34
Custodian Fees	45
Shareholders' Reports	13
Trustees' Fees and Expenses	_
Other Expenses	5
Total Expenses	1,423
Net Investment Income	15,098
Realized Net Gain (Loss)	
Capital Gain Distributions Received	3,760
Investment Securities Sold ¹	16,672
Futures Contracts	(17)
Realized Net Gain (Loss)	20,415
Change in Unrealized Appreciation (Depreciation)	
Investment Securities ¹	1,095
Futures Contracts	44
Change in Unrealized Appreciation (Depreciation)	1,139
Net Increase (Decrease) in Net Assets Resulting from Operations	36,652

¹ Interest income, realized net gain (loss), and change in unrealized appreciation (depreciation) from an affiliated company of the portfolio were \$3,000, less than \$1,000, and (\$1,000), respectively. Purchases and sales are for temporary cash investment purposes.

Statement of Changes in Net Assets

	Six Months Ended June 30, 2023	Year Ended December 31, 2022
	(\$000)	(\$000)
Increase (Decrease) in Net Assets		
Operations		
Net Investment Income	15,098	28,122
Realized Net Gain (Loss)	20,415	49,985
Change in Unrealized Appreciation (Depreciation)	1,139	(476,185)
Net Increase (Decrease) in Net Assets Resulting from Operations	36,652	(398,078)
Distributions		
Total Distributions	(77,195)	(77,984)
Capital Share Transactions		
Issued	54,221	147,195
Issued in Lieu of Cash Distributions	77,195	77,984
Redeemed	(95,950)	(193,133)
Net Increase (Decrease) from Capital Share Transactions	35,466	32,046
Total Increase (Decrease)	(5,077)	(444,016)
Net Assets		
Beginning of Period	1,093,884	1,537,900
End of Period	1,088,807	1,093,884

Financial Highlights

	Six Months Ended					
For a Share Outstanding	June 30,			Year E	nded Dece	ember 31,
Throughout Each Period	2023	2022	2021	2020	2019	2018
Net Asset Value, Beginning of Period	\$11.53	\$16.56	\$12.43	\$13.74	\$11.57	\$13.14
Investment Operations						
Net Investment Income ¹	.155	.297	.257	.259	.329	.367
Net Realized and Unrealized Gain (Loss) on Investments	.180	(4.474)	4.553	(1.054)	2.874	(1.084)
Total from Investment Operations	.335	(4.177)	4.810	(.795)	3.203	(.717)
Distributions						
Dividends from Net Investment Income	(.286)	(.262)	(.293)	(.316)	(.368)	(.383)
Distributions from Realized Capital Gains	(.539)	(.591)	(.387)	(.199)	(.665)	(.470)
Total Distributions	(.825)	(.853)	(.680)	(.515)	(1.033)	(.853)
Net Asset Value, End of Period	\$11.04	\$11.53	\$16.56	\$12.43	\$13.74	\$11.57
Total Return	3.45%	-26.30%	40.21%	-4.85%	28.81%	-5.35%
Ratios/Supplemental Data						
Net Assets, End of Period (Millions)	\$1,089	\$1,094	\$1,538	\$1,077	\$1,242	\$965
Ratio of Total Expenses to Average Net Assets	0.26%	0.26%2	0.26%	0.26%	0.26%	0.26%
Ratio of Net Investment Income to Average Net Assets	2.66%	2.25%	1.79%	2.19%	2.52%	3.04%
Portfolio Turnover Rate	7%	11%	12%	10%	7%	35%

The expense ratio and net investment income ratio for the current period have been annualized.

¹ Calculated based on average shares outstanding.

² The ratio of expenses to average net assets for the period net of reduction from custody fee offset arrangements was 0.26%.

Notes to Financial Statements

The Real Estate Index Portfolio, a portfolio of Vanguard Variable Insurance Funds, is registered under the Investment Company Act of 1940 as an open-end investment company. The portfolio's shares are only available for purchase by separate accounts of insurance companies as investments for variable annuity plans, variable life insurance contracts, or other variable benefit insurance contracts.

- **A.** The following significant accounting policies conform to generally accepted accounting principles for U.S. investment companies. The portfolio consistently follows such policies in preparing its financial statements.
- 1. Security Valuation: Securities are valued as of the close of trading on the New York Stock Exchange (generally 4 p.m., Eastern time) on the valuation date. Equity securities are valued at the latest quoted sales prices or official closing prices taken from the primary market in which each security trades; such securities not traded on the valuation date are valued at the mean of the latest quoted bid and asked prices. Securities for which market quotations are not readily available, or whose values have been affected by events occurring before the portfolio's pricing time but after the close of the securities' primary markets, are valued by methods deemed by the valuation designee to represent fair value and subject to oversight by the board of trustees. Investments in Vanguard Market Liquidity Fund are valued at that fund's net asset value.
- 2. Futures Contracts: The portfolio uses index futures contracts to a limited extent, with the objectives of maintaining full exposure to the stock market, maintaining liquidity, and minimizing transaction costs. The portfolio may purchase futures contracts to immediately invest incoming cash in the market, or sell futures in response to cash outflows, thereby simulating a fully invested position in the underlying index while maintaining a cash balance for liquidity. The primary risks associated with the use of futures contracts are imperfect correlation between changes in market values of stocks held by the portfolio and the prices of futures contracts, and the possibility of an illiquid market. Counterparty risk involving futures is mitigated because a regulated clearinghouse is the counterparty instead of the clearing broker. To further mitigate counterparty risk, the portfolio trades futures contracts on an exchange, monitors the financial strength of its clearing brokers and clearinghouse, and has entered into clearing agreements with its clearing brokers. The clearinghouse imposes initial margin requirements to secure the portfolio's performance and requires daily settlement of variation margin representing changes in the market value of each contract. Any securities pledged as initial margin for open contracts are noted in the Schedule of Investments.

Futures contracts are valued at their quoted daily settlement prices. The notional amounts of the contracts are not recorded in the Statement of Assets and Liabilities. Fluctuations in the value of the contracts are recorded in the Statement of Assets and Liabilities as an asset (liability) and in the Statement of Operations as unrealized appreciation (depreciation) until the contracts are closed, when they are recorded as realized gains (losses) on futures contracts.

During the six months ended June 30, 2023, the portfolio's average investments in long and short futures contracts represented less than 1% and 0% of net assets, respectively, based on the average of the notional amounts at each quarter-end during the period.

- 3. Federal Income Taxes: The portfolio intends to continue to qualify as a regulated investment company and distribute virtually all of its taxable income. The portfolio's tax returns are open to examination by the relevant tax authorities until expiration of the applicable statute of limitations, which is generally three years after the filing of the tax return. Management has analyzed the portfolio's tax positions taken for all open federal and state income tax years, and has concluded that no provision for income tax is required in the portfolio's financial statements.
- 4. Distributions: Distributions to shareholders are recorded on the ex-dividend date. Distributions are determined on a tax basis at the fiscal year-end and may differ from net investment income and realized capital gains for financial reporting purposes.
- 5. Securities Lending: To earn additional income, the portfolio lends its securities to qualified institutional borrowers. Security loans are subject to termination by the portfolio at any time, and are required to be secured at all times by collateral in an amount at least equal to the market value of securities loaned. Daily market fluctuations could cause the value of loaned securities to be more or less than the value of the collateral received. When this occurs, the collateral is adjusted and settled before the opening of the market on the next business day. The portfolio further mitigates its counterparty risk by entering into securities lending transactions only with a diverse group of prequalified counterparties, monitoring their financial strength, and entering into master securities lending agreements with its counterparties. The master securities lending agreements provide that, in the event of a counterparty's default (including bankruptcy), the portfolio may terminate any loans with that borrower, determine the net amount owed, and sell or retain the collateral up to the net amount owed to the portfolio; however, such actions may be subject to legal proceedings. While

collateral mitigates counterparty risk, in the event of a default, the portfolio may experience delays and costs in recovering the securities loaned. The portfolio invests cash collateral received in Vanguard Market Liquidity Fund, and records a liability in the Statement of Assets and Liabilities for the return of the collateral, during the period the securities are on loan. Collateral investments in Vanguard Market Liquidity Fund are subject to market appreciation or depreciation. Securities lending income represents fees charged to borrowers plus income earned on invested cash collateral, less expenses associated with the loan. During the term of the loan, the portfolio is entitled to all distributions made on or in respect of the loaned securities.

6. Credit Facilities and Interfund Lending Program: The portfolio and certain other funds managed by The Vanguard Group ("Vanguard") participate in a \$4.3 billion committed credit facility provided by a syndicate of lenders pursuant to a credit agreement and an uncommitted credit facility provided by Vanguard. Both facilities may be renewed annually. Each fund is individually liable for its borrowings, if any, under the credit facilities. Borrowings may be utilized for temporary or emergency purposes and are subject to the portfolio's regulatory and contractual borrowing restrictions. With respect to the committed credit facility, the participating funds are charged administrative fees and an annual commitment fee of 0.10% of the undrawn committed amount of the facility, which are allocated to the funds based on a method approved by the portfolio's board of trustees and included in Management and Administrative expenses on the portfolio's Statement of Operations. Any borrowings under either facility bear interest at an agreed-upon spread plus the higher of the federal funds effective rate, the overnight bank funding rate, or the Daily Simple Secured Overnight Financing Rate inclusive of an additional agreed-upon spread. However, borrowings under the uncommitted credit facility may bear interest based upon an alternate rate agreed to by the portfolio and Vanguard.

In accordance with an exemptive order (the "Order") from the SEC, the portfolio may participate in a joint lending and borrowing program that allows registered open-end Vanguard funds to borrow money from and lend money to each other for temporary or emergency purposes (the "Interfund Lending Program"), subject to compliance with the terms and conditions of the Order, and to the extent permitted by the portfolio's investment objective and investment policies. Interfund loans and borrowings normally extend overnight but can have a maximum duration of seven days. Loans may be called on one business day's notice. The interest rate to be charged is governed by the conditions of the Order and internal procedures adopted by the board of trustees. The board of trustees is responsible for overseeing the Interfund Lending Program.

For the six months ended June 30, 2023, the portfolio did not utilize the credit facilities or the Interfund Lending Program.

- 7. Other: Distributions received from investment securities are recorded on the ex-dividend date. Non-cash dividends included in income, if any, are recorded at the fair value of the securities received. Each investment security reports annually the tax character of its distributions. Dividend income, capital gain distributions received, and unrealized appreciation (depreciation) reflect the amounts of taxable income, capital gain, and return of capital reported by the REITs, and management's estimates of such amounts for REIT distributions for which actual information has not been reported. Interest income includes income distributions received from Vanguard Market Liquidity Fund and is accrued daily. Security transactions are accounted for on the date securities are bought or sold. Costs used to determine realized gains (losses) on the sale of investment securities are those of the specific securities sold.
- **B.** In accordance with the terms of a Funds' Service Agreement (the "FSA") between Vanguard and the portfolio, Vanguard furnishes to the portfolio investment advisory, corporate management, administrative, marketing, and distribution services at Vanguard's cost of operations (as defined by the FSA). These costs of operations are allocated to the portfolio based on methods and guidelines approved by the board of trustees and are generally settled twice a month.

Upon the request of Vanguard, the portfolio may invest up to 0.40% of its net assets as capital in Vanguard. At June 30, 2023, the portfolio had contributed to Vanguard capital in the amount of \$37,000, representing less than 0.01% of the portfolio's net assets and 0.01% of Vanguard's capital received pursuant to the FSA. The portfolio's trustees and officers are also directors and employees, respectively, of Vanguard.

C. Various inputs may be used to determine the value of the portfolio's investments and derivatives. These inputs are summarized in three broad levels for financial statement purposes. The inputs or methodologies used to value securities are not necessarily an indication of the risk associated with investing in those securities.

Level 1—Quoted prices in active markets for identical securities.

Level 2—Other significant observable inputs (including quoted prices for similar securities, interest rates, prepayment speeds, credit risk, etc.).

Level 3—Significant unobservable inputs (including the portfolio's own assumptions used to determine the fair value of investments). Any investments and derivatives valued with significant unobservable inputs are noted on the Schedule of Investments.

The following table summarizes the market value of the portfolio's investments and derivatives as of June 30, 2023, based on the inputs used to value them:

	Level 1	Level 2	Level 3	Total
	(\$000)	(\$000)	(\$000)	(\$000)
Investments				
Assets				
Common Stocks	1,086,837	_	_	1,086,837
Temporary Cash Investments	8,279	_	_	8,279
Total	1,095,116	_	_	1,095,116
Derivative Financial Instruments				
Assets				_
Futures Contracts ¹	27			27

¹ Includes cumulative appreciation (depreciation) on futures contracts and centrally cleared swaps, if any, as reported in the Schedule of Investments. Only current day's variation margin is reported within the Statement of Assets and Liabilities.

D. As of June 30, 2023, gross unrealized appreciation and depreciation for investments and derivatives based on cost for U.S. federal income tax purposes were as follows:

	Amount (\$000)
Tax Cost	1,241,423
Gross Unrealized Appreciation	123,061
Gross Unrealized Depreciation	(269,341)
Net Unrealized Appreciation (Depreciation)	(146,280)

E. During the six months ended June 30, 2023, the portfolio purchased \$81,715,000 of investment securities and sold \$103,877,000 of investment securities, other than temporary cash investments.

The portfolio purchased securities from and sold securities to other Vanguard funds or accounts managed by Vanguard or its affiliates, in accordance with procedures adopted by the board of trustees in compliance with Rule 17a-7 of the Investment Company Act of 1940. For the six months ended June 30, 2023, such purchases were \$0 and sales were \$35,000, resulting in net realized gain of \$4,000; these amounts, other than temporary cash investments, are included in the purchases and sales of investment securities noted above.

F. Capital shares issued and redeemed were:

	Six Months Ended June 30, 2023	Year Ended December 31, 2022	
	Shares (000)	Shares (000)	
Issued	4,731	11,004	
Issued in Lieu of Cash Distributions	7,524	5,356	
Redeemed	(8,462)	(14,362)	
Net Increase (Decrease) in Shares Outstanding	3,793	1,998	

G. Significant market disruptions, such as those caused by pandemics (e.g., COVID-19 pandemic), natural or environmental disasters, war (e.g., Russia's invasion of Ukraine), acts of terrorism, or other events, can adversely affect local and global markets and normal market operations. Any such disruptions could have an adverse impact on the value of the portfolio's investments and portfolio performance.

To the extent the portfolio's investment portfolio reflects concentration in a particular market, industry, sector, country or asset class, the portfolio may be adversely affected by the performance of these concentrations and may be subject to increased price volatility and other risks.

The use of derivatives may expose the portfolio to various risks. Derivatives can be highly volatile, and any initial investment is generally small relative to the notional amount so that transactions may

be leveraged in terms of market exposure. A relatively small market movement may have a potentially larger impact on derivatives than on standard securities. Leveraged derivatives positions can, therefore, increase volatility. Additional information regarding the portfolio's use of derivative(s) and the specific risks associated is described under significant accounting policies.

At June 30, 2023, one shareholder (an insurance company separate account whose holdings in the portfolio represent the indirect investment of Vanguard Variable Annuity contract holders) was the record or beneficial owner of 38% of the portfolio's net assets. If this shareholder were to redeem its investment in the portfolio, the redemption might result in an increase in the portfolio's expense ratio, cause the portfolio to incur higher transaction costs, or lead to the realization of taxable capital gains.

H. Management has determined that no events or transactions occurred subsequent to June 30, 2023, that would require recognition or disclosure in these financial statements.

Trustees Approve Advisory Arrangement

The board of trustees of Vanguard Variable Insurance Funds Real Estate Index Portfolio has renewed the portfolio's investment advisory arrangement with The Vanguard Group, Inc. (Vanguard), through its Equity Index Group. The board determined that continuing the portfolio's internalized management structure was in the best interests of the portfolio and its shareholders.

The board based its decision upon an evaluation of the advisor's investment staff, portfolio management process, and performance. This evaluation included information provided to the board by Vanguard's Portfolio Review Department, which is responsible for fund and advisor oversight and product management. The Portfolio Review Department met regularly with the advisor and made presentations to the board during the fiscal year that directed the board's focus to relevant information and topics.

The board, or an investment committee made up of board members, also received information throughout the year during advisor presentations. For each advisor presentation, the board was provided with letters and reports that included information about, among other things, the advisory firm and the advisor's assessment of the investment environment, portfolio performance, and portfolio characteristics.

In addition, the board received periodic reports throughout the year, which included information about the portfolio's performance relative to its peers and benchmark, as applicable, and updates, as needed, on the Portfolio Review Department's ongoing assessment of the advisor.

Prior to their meeting, the trustees were provided with a memo and materials that summarized the information they received over the course of the year. They also considered the factors discussed below, among others. However, no single factor determined whether the board approved the arrangement. Rather, it was the totality of the circumstances that drove the board's decision.

Nature, extent, and quality of services

The board reviewed the quality of the portfolio's investment management services over both the short and long term, and took into account the organizational depth and stability of the advisor. The board considered that Vanguard has been managing investments for more than four decades. The Equity Index Group adheres to a sound, disciplined investment management process; the team has considerable experience, stability, and depth.

The board concluded that Vanguard's experience, stability, depth, and performance, among other factors, warranted continuation of the advisory arrangement.

Investment performance

The board considered the short- and long-term performance of the portfolio, including any periods of outperformance or underperformance compared with its target index and peer group. The board concluded that the performance was such that the advisory arrangement should continue.

Cost

The board concluded that the portfolio's expense ratio was below the average expense ratio charged by funds in its peer group and that the portfolio's advisory expenses were also below the peer-group average.

The board does not conduct a profitability analysis of Vanguard because of Vanguard's unique structure. Unlike most other mutual fund management companies, Vanguard is owned by the funds it oversees

The benefit of economies of scale

The board concluded that the portfolio's arrangement with Vanguard ensures that the portfolio will realize economies of scale as it grows, with the cost to shareholders declining as portfolio assets increase

The board will consider whether to renew the advisory arrangement again after a one-year period.

Liquidity Risk Management

Vanguard funds (except for the money market funds) have adopted and implemented a written liquidity risk management program (the "Program") as required by Rule 22e-4 under the Investment Company Act of 1940. Rule 22e-4 requires that each fund adopt a program that is reasonably designed to assess and manage the fund's liquidity risk, which is the risk that the fund could not meet redemption requests without significant dilution of remaining investors' interests in the fund.

Assessment and management of a fund's liquidity risk under the Program take into consideration certain factors, such as the fund's investment strategy and the liquidity of its portfolio investments during normal and reasonably foreseeable stressed conditions, its short- and long-term cash-flow projections during both normal and reasonably foreseeable stressed conditions, and its cash and cash-equivalent holdings and access to other funding sources. As required by the rule, the Program includes policies and procedures for classification of fund portfolio holdings in four liquidity categories, maintaining certain levels of highly liquid investments, and limiting holdings of illiquid investments.

The board of trustees of Vanguard Variable Insurance Funds approved the appointment of liquidity risk management program administrators responsible for administering the Real Estate Index Portfolio's Program and for carrying out the specific responsibilities set forth in the Program, including reporting to the board on at least an annual basis regarding the Program's operation, its adequacy, and the effectiveness of its implementation for the past year (the "Program Administrator Report"). The board has reviewed the Program Administrator Report covering the period from January 1, 2022, through December 31, 2022 (the "Review Period"). The Program Administrator Report stated that during the Review Period the Program operated and was implemented effectively to manage the portfolio's liquidity risk.

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You can obtain a free copy of Vanguard's proxy voting guidelines by visiting vanguard.com/proxyreporting or by calling Vanguard at 800-662-2739. The guidelines are also available from the SEC's website, www.sec.gov. In addition, you may obtain a free report on how your fund voted the proxies for securities it owned during the 12 months ended June 30. To get the report, visit either vanguard.com/proxyreporting or www.sec.gov.

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