

QUARTERLY STATEMENT

OF THE

TIAA-CREF LIFE INSURANCE COMPANY

TO THE

Insurance Department

OF THE

STATE OF

**FOR THE QUARTER ENDED
SEPTEMBER 30, 2022**

☐ **LIFE, ACCIDENT AND HEALTH**

☐ **FRATERNAL BENEFIT SOCIETIES**

2022



LIFE, ACCIDENT AND HEALTH COMPANIES/FRATERNAL BENEFIT SOCIETIES - ASSOCIATION EDITION

QUARTERLY STATEMENT

AS OF SEPTEMBER 30, 2022

OF THE CONDITION AND AFFAIRS OF THE

TIAA-CREF Life Insurance Company

NAIC Group Code 1216 1216 NAIC Company Code 60142 Employer's ID Number 13-3917848
(Current) (Prior)

Organized under the Laws of New York, State of Domicile or Port of Entry NY

Country of Domicile United States of America

Licensed as business type: Life, Accident and Health [X] Fraternal Benefit Societies []

Incorporated/Organized 11/20/1996 Commenced Business 12/18/1996

Statutory Home Office 730 Third Avenue New York, NY, US 10017
(Street and Number) (City or Town, State, Country and Zip Code)

Main Administrative Office 730 Third Avenue
(Street and Number)
New York, NY, US 10017 212-490-9000
(City or Town, State, Country and Zip Code) (Area Code) (Telephone Number)

Mail Address 730 Third Avenue New York, NY, US 10017
(Street and Number or P.O. Box) (City or Town, State, Country and Zip Code)

Primary Location of Books and Records 730 Third Avenue
(Street and Number)
New York, NY, US 10017 212-490-9000
(City or Town, State, Country and Zip Code) (Area Code) (Telephone Number)

Internet Website Address tiaa.org

Statutory Statement Contact Stacy Eisenhauer 704-988-4560
(Name) (Area Code) (Telephone Number)
StatutoryReporting@tiaa.org (E-mail Address) (FAX Number)

OFFICERS

President & Chief Executive Officer	<u>William Gunnar Griesser</u>	Vice President & Chief Financial Officer	<u>Stacy Koon Eisenhauer</u>
Secretary	<u>Wayne Aggrey Agard #</u>	Senior Vice President & Chief Actuary	<u>Keith Elliot Floman #</u>

OTHER

Christopher John Heald #, Vice President & Treasurer

DIRECTORS OR TRUSTEES

<u>Nicholas Carl Calarco</u>	<u>Anne (NMN) Dobkowski</u>	<u>Bradley (NMN) Finkle</u>
<u>Keith Elliot Floman #</u>	<u>William Gunnar Griesser</u>	<u>Mohammad Ali Iqbal</u>
<u>Eric Thomas Jones</u>	<u>Timothy Wayne Penrose</u>	

State of New York SS:
County of New York

The officers of this reporting entity being duly sworn, each depose and say that they are the described officers of said reporting entity, and that on the reporting period stated above, all of the herein described assets were the absolute property of the said reporting entity, free and clear from any liens or claims thereon, except as herein stated, and that this statement, together with related exhibits, schedules and explanations therein contained, annexed or referred to, is a full and true statement of all the assets and liabilities and of the condition and affairs of the said reporting entity as of the reporting period stated above, and of its income and deductions therefrom for the period ended, and have been completed in accordance with the NAIC Annual Statement Instructions and Accounting Practices and Procedures manual except to the extent that: (1) state law may differ; or, (2) that state rules or regulations require differences in reporting not related to accounting practices and procedures, according to the best of their information, knowledge and belief, respectively. Furthermore, the scope of this attestation by the described officers also includes the related corresponding electronic filing with the NAIC, when required, that is an exact copy (except for formatting differences due to electronic filing) of the enclosed statement. The electronic filing may be requested by various regulators in lieu of or in addition to the enclosed statement.

William Gunnar Griesser
President & Chief Executive Officer

Wayne Aggrey Agard
Secretary

Stacy Koon Eisenhauer
Vice President & Chief Financial Officer

Subscribed and sworn to before me this 20th day of October 2022
Vincenza Ieni

- a. Is this an original filing? Yes [X] No []
b. If no,
1. State the amendment number.....
2. Date filed.....
3. Number of pages attached.....

VINCENZA IENI
NOTARY PUBLIC-STATE OF NEW YORK
No. 011E6211858
Qualified in Westchester County
My Commission Expires 09-21-2025

STATEMENT AS OF SEPTEMBER 30, 2022 OF THE TIAA-CREF LIFE INSURANCE COMPANY

ASSETS

	Current Statement Date			4 December 31 Prior Year Net Admitted Assets
	1 Assets	2 Nonadmitted Assets	3 Net Admitted Assets (Cols. 1 - 2)	
1. Bonds	13,341,562,499		13,341,562,499	12,437,852,575
2. Stocks:				
2.1 Preferred stocks	9,951,617		9,951,617	10,022,110
2.2 Common stocks				
3. Mortgage loans on real estate:				
3.1 First liens				
3.2 Other than first liens				
4. Real estate:				
4.1 Properties occupied by the company (less \$ encumbrances)				
4.2 Properties held for the production of income (less \$ encumbrances)				
4.3 Properties held for sale (less \$ encumbrances)				
5. Cash (\$13,962,605), cash equivalents (\$36,992,525) and short-term investments (\$)	50,955,130		50,955,130	165,899,684
6. Contract loans (including \$ premium notes)	47,663,537		47,663,537	44,839,263
7. Derivatives				
8. Other invested assets	4,627,244		4,627,244	4,644,705
9. Receivables for securities	459,431		459,431	5,907,588
10. Securities lending reinvested collateral assets				
11. Aggregate write-ins for invested assets				
12. Subtotals, cash and invested assets (Lines 1 to 11)	13,455,219,458		13,455,219,458	12,669,165,925
13. Title plants less \$ charged off (for Title insurers only)				
14. Investment income due and accrued	101,013,416		101,013,416	90,401,205
15. Premiums and considerations:				
15.1 Uncollected premiums and agents' balances in the course of collection	1,509,076		1,509,076	2,408,629
15.2 Deferred premiums, agents' balances and installments booked but deferred and not yet due (including \$ earned but unbilled premiums)	50,452,861	31,238,479	19,214,382	19,978,798
15.3 Accrued retrospective premiums (\$) and contracts subject to redetermination (\$)				
16. Reinsurance:				
16.1 Amounts recoverable from reinsurers	2,452,678		2,452,678	10,736,246
16.2 Funds held by or deposited with reinsured companies				
16.3 Other amounts receivable under reinsurance contracts	(2,285,487)		(2,285,487)	2,761,997
17. Amounts receivable relating to uninsured plans				
18.1 Current federal and foreign income tax recoverable and interest thereon				
18.2 Net deferred tax asset	49,073,510	33,369,181	15,704,329	17,413,919
19. Guaranty funds receivable or on deposit	151,586		151,586	151,012
20. Electronic data processing equipment and software				
21. Furniture and equipment, including health care delivery assets (\$)				
22. Net adjustment in assets and liabilities due to foreign exchange rates				
23. Receivables from parent, subsidiaries and affiliates	16,911		16,911	
24. Health care (\$) and other amounts receivable				
25. Aggregate write-ins for other than invested assets	4,178,831	721,573	3,457,258	6,548,332
26. Total assets excluding Separate Accounts, Segregated Accounts and Protected Cell Accounts (Lines 12 to 25)	13,661,782,840	65,329,233	13,596,453,607	12,819,566,063
27. From Separate Accounts, Segregated Accounts and Protected Cell Accounts	3,714,077,186		3,714,077,186	4,806,546,351
28. Total (Lines 26 and 27)	17,375,860,026	65,329,233	17,310,530,793	17,626,112,414
DETAILS OF WRITE-INS				
1101.				
1102.				
1103.				
1198. Summary of remaining write-ins for Line 11 from overflow page				
1199. Totals (Lines 1101 through 1103 plus 1198)(Line 11 above)				
2501. Sundry receivables	4,178,831	721,573	3,457,258	6,548,332
2502.				
2503.				
2598. Summary of remaining write-ins for Line 25 from overflow page				
2599. Totals (Lines 2501 through 2503 plus 2598)(Line 25 above)	4,178,831	721,573	3,457,258	6,548,332

The failure of items to add to the totals shown throughout the statement is due to the rounding of figures to the nearest dollar.

STATEMENT AS OF SEPTEMBER 30, 2022 OF THE TIAA-CREF LIFE INSURANCE COMPANY

LIABILITIES, SURPLUS AND OTHER FUNDS

	1 Current Statement Date	2 December 31 Prior Year
1. Aggregate reserve for life contracts \$3,811,717,069 less \$ included in Line 6.3 (including \$258,302,622 Modco Reserve)	3,811,717,069	3,795,289,576
2. Aggregate reserve for accident and health contracts (including \$ Modco Reserve)		
3. Liability for deposit-type contracts (including \$ Modco Reserve)	8,722,656,746	8,026,651,459
4. Contract claims:		
4.1 Life	16,282,608	11,671,415
4.2 Accident and health		
5. Policyholders' dividends/refunds to members \$ and coupons \$ due and unpaid		
6. Provision for policyholders' dividends, refunds to members and coupons payable in following calendar year - estimated amounts:		
6.1 Policyholders' dividends and refunds to members apportioned for payment (including \$ Modco)		
6.2 Policyholders' dividends and refunds to members not yet apportioned (including \$ Modco)		
6.3 Coupons and similar benefits (including \$ Modco)		
7. Amount provisionally held for deferred dividend policies not included in Line 6		
8. Premiums and annuity considerations for life and accident and health contracts received in advance less \$ discount; including \$ accident and health premiums	160,263	136,309
9. Contract liabilities not included elsewhere:		
9.1 Surrender values on canceled contracts		
9.2 Provision for experience rating refunds, including the liability of \$ accident and health experience rating refunds of which \$ is for medical loss ratio rebate per the Public Health Service Act		
9.3 Other amounts payable on reinsurance, including \$ assumed and \$6,529,340 ceded	6,529,340	8,603,389
9.4 Interest Maintenance Reserve	49,591,400	39,155,210
10. Commissions to agents due or accrued-life and annuity contracts \$355,856 , accident and health \$ and deposit-type contract funds \$	355,856	554,359
11. Commissions and expense allowances payable on reinsurance assumed		
12. General expenses due or accrued		
13. Transfers to Separate Accounts due or accrued (net) (including \$(3,470,780) accrued for expense allowances recognized in reserves, net of reinsured allowances)	(6,717,784)	(7,609,690)
14. Taxes, licenses and fees due or accrued, excluding federal income taxes		
15.1 Current federal and foreign income taxes, including \$ on realized capital gains (losses)	3,090,923	5,990,028
15.2 Net deferred tax liability		
16. Unearned investment income		
17. Amounts withheld or retained by reporting entity as agent or trustee	1,363,782	941,689
18. Amounts held for agents' account, including \$ agents' credit balances		
19. Remittances and items not allocated	13,531,719	18,288,460
20. Net adjustment in assets and liabilities due to foreign exchange rates		
21. Liability for benefits for employees and agents if not included above		
22. Borrowed money \$4,000,000 and interest thereon \$	4,000,000	
23. Dividends to stockholders declared and unpaid		
24. Miscellaneous liabilities:		
24.01 Asset valuation reserve	70,706,424	64,957,502
24.02 Reinsurance in unauthorized and certified (\$) companies	5,360,641	12,250,539
24.03 Funds held under reinsurance treaties with unauthorized and certified (\$) reinsurers		
24.04 Payable to parent, subsidiaries and affiliates	7,696,086	11,695,986
24.05 Drafts outstanding		
24.06 Liability for amounts held under uninsured plans		
24.07 Funds held under coinsurance		
24.08 Derivatives		
24.09 Payable for securities	35,484,194	
24.10 Payable for securities lending		
24.11 Capital notes \$ and interest thereon \$		
25. Aggregate write-ins for liabilities	1,294,207	757,745
26. Total liabilities excluding Separate Accounts business (Lines 1 to 25)	12,743,103,474	11,989,333,976
27. From Separate Accounts Statement	3,711,040,298	4,795,121,837
28. Total liabilities (Lines 26 and 27)	16,454,143,772	16,784,455,813
29. Common capital stock	2,500,000	2,500,000
30. Preferred capital stock		
31. Aggregate write-ins for other than special surplus funds		
32. Surplus notes		
33. Gross paid in and contributed surplus	777,500,000	777,500,000
34. Aggregate write-ins for special surplus funds		
35. Unassigned funds (surplus)	76,387,021	61,656,601
36. Less treasury stock, at cost:		
36.1 shares common (value included in Line 29 \$)		
36.2 shares preferred (value included in Line 30 \$)		
37. Surplus (Total Lines 31+32+33+34+35-36) (including \$3,036,889 in Separate Accounts Statement)	853,887,021	839,156,601
38. Totals of Lines 29, 30 and 37	856,387,021	841,656,601
39. Totals of Lines 28 and 38 (Page 2, Line 28, Col. 3)	17,310,530,793	17,626,112,414
DETAILS OF WRITE-INS		
2501. Miscellaneous liabilities	1,294,207	757,745
2502.		
2503.		
2598. Summary of remaining write-ins for Line 25 from overflow page		
2599. Totals (Lines 2501 through 2503 plus 2598)(Line 25 above)	1,294,207	757,745
3101.		
3102.		
3103.		
3198. Summary of remaining write-ins for Line 31 from overflow page		
3199. Totals (Lines 3101 through 3103 plus 3198)(Line 31 above)		
3401.		
3402.		
3403.		
3498. Summary of remaining write-ins for Line 34 from overflow page		
3499. Totals (Lines 3401 through 3403 plus 3498)(Line 34 above)		

STATEMENT AS OF SEPTEMBER 30, 2022 OF THE TIAA-CREF LIFE INSURANCE COMPANY

SUMMARY OF OPERATIONS

	1 Current Year To Date	2 Prior Year To Date	3 Prior Year Ended December 31
1. Premiums and annuity considerations for life and accident and health contracts	193,019,502	324,044,677	433,578,496
2. Considerations for supplementary contracts with life contingencies	1,280,735	2,647,241	2,647,241
3. Net investment income	293,090,370	265,006,264	357,770,639
4. Amortization of Interest Maintenance Reserve (IMR)	4,933,692	3,277,209	4,843,468
5. Separate Accounts net gain from operations excluding unrealized gains or losses	1,296,757	416,713	687,260
6. Commissions and expense allowances on reinsurance ceded	5,040,535	7,105,394	9,731,831
7. Reserve adjustments on reinsurance ceded	(7,492,127)	(7,105,051)	(7,467,539)
8. Miscellaneous Income:			
8.1 Income from fees associated with investment management, administration and contract guarantees from Separate Accounts	14,653,350	15,772,725	21,252,437
8.2 Charges and fees for deposit-type contracts			
8.3 Aggregate write-ins for miscellaneous income	270,857	156,896	201,576
9. Totals (Lines 1 to 8.3)	506,093,671	611,322,068	823,245,409
10. Death benefits	23,993,843	29,968,523	31,330,482
11. Matured endowments (excluding guaranteed annual pure endowments)			
12. Annuity benefits	74,640,722	76,109,591	103,186,424
13. Disability benefits and benefits under accident and health contracts	414,487	325,044	441,685
14. Coupons, guaranteed annual pure endowments and similar benefits			
15. Surrender benefits and withdrawals for life contracts	157,352,481	163,262,836	209,447,009
16. Group conversions			
17. Interest and adjustments on contract or deposit-type contract funds	71,051,769	66,706,868	90,088,139
18. Payments on supplementary contracts with life contingencies	628,654	569,362	758,996
19. Increase in aggregate reserves for life and accident and health contracts	16,427,492	32,324,280	46,123,079
20. Totals (Lines 10 to 19)	344,509,448	369,266,504	481,375,814
21. Commissions on premiums, annuity considerations, and deposit-type contract funds (direct business only)	2,968,387	4,054,161	5,648,518
22. Commissions and expense allowances on reinsurance assumed			
23. General insurance expenses and fraternal expenses	51,134,047	45,759,046	63,617,421
24. Insurance taxes, licenses and fees, excluding federal income taxes	4,453,829	4,764,646	7,389,105
25. Increase in loading on deferred and uncollected premiums	2,480,428	142,354	912,485
26. Net transfers to or (from) Separate Accounts net of reinsurance	(64,046,449)	41,767,953	58,876,840
27. Aggregate write-ins for deductions	33,768,047	37,990,843	53,455,100
28. Totals (Lines 20 to 27)	375,267,737	503,745,507	671,275,283
29. Net gain from operations before dividends to policyholders and federal income taxes (Line 9 minus Line 28)	130,825,934	107,576,561	151,970,126
30. Dividends to policyholders and refunds to members			
31. Net gain from operations after dividends to policyholders, refunds to members and before federal income taxes (Line 29 minus Line 30)	130,825,934	107,576,561	151,970,126
32. Federal and foreign income taxes incurred (excluding tax on capital gains)	23,150,177	19,486,833	29,067,256
33. Net gain from operations after dividends to policyholders, refunds to members and federal income taxes and before realized capital gains or (losses) (Line 31 minus Line 32)	107,675,757	88,089,728	122,902,870
34. Net realized capital gains (losses) (excluding gains (losses) transferred to the IMR) less capital gains tax of \$567,080 (excluding taxes of \$4,085,665 transferred to the IMR)	(711,378)	(1,020,022)	(1,093,131)
35. Net income (Line 33 plus Line 34)	106,964,379	87,069,706	121,809,739
CAPITAL AND SURPLUS ACCOUNT			
36. Capital and surplus, December 31, prior year	841,656,601	818,783,368	818,783,368
37. Net income (Line 35)	106,964,379	87,069,706	121,809,739
38. Change in net unrealized capital gains (losses) less capital gains tax of \$43,816	(114,309)	1,074,613	1,136,990
39. Change in net unrealized foreign exchange capital gain (loss)			
40. Change in net deferred income tax	(2,701,265)	1,546,437	3,346,332
41. Change in nonadmitted assets	3,025,021	(1,479,745)	(2,112,908)
42. Change in liability for reinsurance in unauthorized and certified companies	6,889,898	(6,475,196)	(11,599,920)
43. Change in reserve on account of change in valuation basis, (increase) or decrease		1,568,234	1,568,234
44. Change in asset valuation reserve	(5,748,922)	(7,523,742)	(8,955,986)
45. Change in treasury stock			
46. Surplus (contributed to) withdrawn from Separate Accounts during period			
47. Other changes in surplus in Separate Accounts Statement	(9,684,382)	(446,218)	(719,248)
48. Change in surplus notes			
49. Cumulative effect of changes in accounting principles			
50. Capital changes:			
50.1 Paid in			
50.2 Transferred from surplus (Stock Dividend)			
50.3 Transferred to surplus			
51. Surplus adjustment:			
51.1 Paid in			
51.2 Transferred to capital (Stock Dividend)			
51.3 Transferred from capital			
51.4 Change in surplus as a result of reinsurance			
52. Dividends to stockholders	(83,900,000)	(81,600,000)	(81,600,000)
53. Aggregate write-ins for gains and losses in surplus			
54. Net change in capital and surplus for the year (Lines 37 through 53)	14,730,420	(6,265,911)	22,873,233
55. Capital and surplus, as of statement date (Lines 36 + 54)	856,387,021	812,517,457	841,656,601
DETAILS OF WRITE-INS			
08.301. Miscellaneous income	270,857	156,896	201,576
08.302.			
08.303.			
08.398. Summary of remaining write-ins for Line 8.3 from overflow page			
08.399. Totals (Lines 08.301 through 08.303 plus 08.398) (Line 8.3 above)	270,857	156,896	201,576
2701. Miscellaneous deductions	33,768,047	37,990,843	53,455,100
2702.			
2703.			
2798. Summary of remaining write-ins for Line 27 from overflow page			
2799. Totals (Lines 2701 through 2703 plus 2798)(Line 27 above)	33,768,047	37,990,843	53,455,100
5301.			
5302.			
5303.			
5398. Summary of remaining write-ins for Line 53 from overflow page			
5399. Totals (Lines 5301 through 5303 plus 5398)(Line 53 above)			

STATEMENT AS OF SEPTEMBER 30, 2022 OF THE TIAA-CREF LIFE INSURANCE COMPANY

CASH FLOW

	1 Current Year To Date	2 Prior Year To Date	3 Prior Year Ended December 31
Cash from Operations			
1. Premiums collected net of reinsurance	194,119,144	324,667,430	435,900,841
2. Net investment income	281,191,514	265,460,216	362,284,721
3. Miscellaneous income	19,964,742	19,967,740	31,657,866
4. Total (Lines 1 to 3)	495,275,400	610,095,386	829,843,428
5. Benefit and loss related payments	281,499,449	296,626,410	416,204,502
6. Net transfers to Separate Accounts, Segregated Accounts and Protected Cell Accounts	(64,938,355)	39,575,599	57,632,162
7. Commissions, expenses paid and aggregate write-ins for deductions	58,104,798	54,813,756	76,745,552
8. Dividends paid to policyholders			
9. Federal and foreign income taxes paid (recovered) net of \$ tax on capital gains (losses)	30,702,027	29,407,789	34,053,631
10. Total (Lines 5 through 9)	305,367,919	420,423,554	584,635,847
11. Net cash from operations (Line 4 minus Line 10)	189,907,481	189,671,831	245,207,581
Cash from Investments			
12. Proceeds from investments sold, matured or repaid:			
12.1 Bonds	1,867,843,116	919,180,205	1,222,344,667
12.2 Stocks			
12.3 Mortgage loans			
12.4 Real estate			
12.5 Other invested assets			
12.6 Net gains or (losses) on cash, cash equivalents and short-term investments	(769)	3,855	4,022
12.7 Miscellaneous proceeds	42,372,863	13,697,433	
12.8 Total investment proceeds (Lines 12.1 to 12.7)	1,910,215,210	932,881,493	1,222,348,689
13. Cost of investments acquired (long-term only):			
13.1 Bonds	2,750,936,942	1,393,188,568	1,697,286,216
13.2 Stocks		8,400,000	8,400,000
13.3 Mortgage loans			
13.4 Real estate			
13.5 Other invested assets			
13.6 Miscellaneous applications		1,831,032	7,466,527
13.7 Total investments acquired (Lines 13.1 to 13.6)	2,750,936,942	1,403,419,600	1,713,152,743
14. Net increase (or decrease) in contract loans and premium notes	2,824,274	2,101,274	1,750,449
15. Net cash from investments (Line 12.8 minus Line 13.7 and Line 14)	(843,546,006)	(472,639,381)	(492,554,503)
Cash from Financing and Miscellaneous Sources			
16. Cash provided (applied):			
16.1 Surplus notes, capital notes			
16.2 Capital and paid in surplus, less treasury stock			
16.3 Borrowed funds	4,000,000		
16.4 Net deposits on deposit-type contracts and other insurance liabilities	625,991,145	104,581,957	192,557,582
16.5 Dividends to stockholders	83,900,000	81,600,000	81,600,000
16.6 Other cash provided (applied)	(7,397,173)	20,244,854	19,944,950
17. Net cash from financing and miscellaneous sources (Line 16.1 through Line 16.4 minus Line 16.5 plus Line 16.6)	538,693,972	43,226,811	130,902,532
RECONCILIATION OF CASH, CASH EQUIVALENTS AND SHORT-TERM INVESTMENTS			
18. Net change in cash, cash equivalents and short-term investments (Line 11, plus Lines 15 and 17)	(114,944,553)	(239,740,739)	(116,444,390)
19. Cash, cash equivalents and short-term investments:			
19.1 Beginning of year	165,899,684	282,344,073	282,344,073
19.2 End of period (Line 18 plus Line 19.1)	50,955,130	42,603,335	165,899,684

Note: Supplemental disclosures of cash flow information for non-cash transactions:

20.0001. Exchange/restructure/transfer of bond investments	46,121,122	30,154,602	58,809,484
20.0002. Capitalized interest	2,115,330	2,003,316	2,682,496
20.0003. Interest credited on deposit type contracts	70,550,187	66,271,961	89,488,081
20.0004. Deposits of bond investments on deposit-type contracts		783,823,641	783,823,641

EXHIBIT 1

DIRECT PREMIUMS AND DEPOSIT-TYPE CONTRACTS			
	1 Current Year To Date	2 Prior Year To Date	3 Prior Year Ended December 31
1. Industrial life			
2. Ordinary life insurance	131,640,342	145,215,232	196,226,725
3. Ordinary individual annuities	89,535,934	205,596,638	270,972,705
4. Credit life (group and individual)			
5. Group life insurance	31,212,021	33,612,975	49,212,274
6. Group annuities			
7. A & H - group			
8. A & H - credit (group and individual)			
9. A & H - other	5,180,075	5,024,526	6,871,698
10. Aggregate of all other lines of business			
11. Subtotal (Lines 1 through 10)	257,568,372	389,449,371	523,283,402
12. Fraternal (Fraternal Benefit Societies Only)			
13. Subtotal (Lines 11 through 12)	257,568,372	389,449,371	523,283,402
14. Deposit-type contracts	1,728,685,776	1,714,520,602	2,042,994,560
15. Total (Lines 13 and 14)	1,986,254,148	2,103,969,973	2,566,277,962
DETAILS OF WRITE-INS			
1001.			
1002.			
1003.			
1098. Summary of remaining write-ins for Line 10 from overflow page			
1099. Totals (Lines 1001 through 1003 plus 1098)(Line 10 above)			

NOTES TO FINANCIAL STATEMENTS

1. Summary of Significant Accounting Policies and Going Concern

A. Accounting Principles

The financial statements of TIAA-CREF Life Insurance Company (“TC Life” or the “Company”) have been presented on the basis of statutory accounting principles prescribed or permitted by the New York State Department of Financial Services (“NYDFS” or the “Department”). The Department requires insurance companies domiciled in the State of New York to prepare their statutory basis financial statements in accordance with the National Association of Insurance Commissioners’ (“NAIC”) *Accounting Practices and Procedures Manual* (“NAIC SAP”), subject to any deviation prescribed or permitted by the Department (“New York SAP”).

A reconciliation of the Company’s income and capital and surplus between NAIC SAP and practices prescribed or permitted by the State of New York is shown below:

	SSAP#	F/S Page	F/S Line	09/30/2022	12/31/2021
Net Income (loss), New York SAP				\$ 106,964,379	\$ 121,809,739
New York SAP Prescribed Practices that are an increase/(decrease) from NAIC SAP:					
Additional Reserves for Term Conversions	51R	4	19	(138,422)	377,017
Additional Reserves for Variable Annuities	51R	4	19	(156,497)	(26,659)
Net Income (loss), NAIC SAP				<u>\$ 107,259,298</u>	<u>\$ 121,459,381</u>
Capital and Surplus, New York SAP				\$ 856,387,021	\$ 841,656,601
New York SAP Prescribed Practices that are an increase/(decrease) from NAIC SAP:					
Deferred Premium Asset Limitation	51R, 61R	2	15.2	(646,438)	(668,661)
Additional Reserves for Term Conversions	51R	3	1	(6,237,780)	(6,099,358)
Additional Reserves for Variable Annuities	51R	3	1	(183,156)	(26,659)
Capital and Surplus, NAIC SAP				<u>\$ 863,454,395</u>	<u>\$ 848,451,279</u>

The deferred premium asset limitation results from the NYDFS Circular Letter No. 11 (2010), which prescribed the calculation and clarified the accounting for deferred premium assets when reinsurance is involved.

The additional reserve for the term conversions results from the Department requiring in Regulation No. 147 (11NYCRR 98) Valuation of Life Insurance Reserves Section 98.4 for any policy which guarantees renewal, or conversion to another policy, without evidence of insurability, additional reserves shall be held that account for excess mortality due to anti-selection with appropriate margins to cover expenses and risk of moderately adverse deviations in experience.

The additional reserve for variable annuities results from the Department prescribing a floor under Regulation No. 213 (11 NYCRR 103), Principle-Based Reserving, effective December 31, 2020. Therefore, the Company's reported reserve for variable annuities is the greater of those prescribed under the NAIC Valuation Manual ("VM") in section VM-21 Requirements for Principle-Based Reserves for Variable Annuities ("VM-21"), and Regulation No. 213.

The Company's risk based capital as of September 30, 2022 and December 31, 2021 would not have triggered a regulatory event without the use of the New York SAP prescribed practices.

B. Use of Estimates in Preparation of the Financial Statements

No material change

C. Accounting Policy

- (1) No material change
- (2) Not applicable
- (3) - (5) No material change
- (6) Included within bonds are loan-backed and structured securities. Estimated future cash flows and expected prepayment speeds are used to determine the amortization of loan-backed and structured securities under the prospective method. Expected future cash flows and prepayment speeds are evaluated quarterly. Certain loan-backed and structured securities are reported at the lower of amortized cost or fair value as a result of the NAIC modeling process.

NOTES TO FINANCIAL STATEMENTS

For loan-backed and structured securities, which the Company has the intent and ability to hold for a period of time sufficient to recover the amortized cost basis, when an other-than-temporary impairment ("OTTI") has occurred because the Company does not expect to recover the entire amortized cost basis of the security, the amount of the OTTI recognized as a realized loss is the difference between the security's amortized cost basis and the present value of cash flows expected to be collected, discounted at the loan-backed or structured security's effective interest rate.

For loan-backed and structured securities, when an OTTI has occurred because the Company intends to sell the security or the Company does not have the intent and ability to retain the security for a period of time sufficient to recover the amortized cost basis, the amount of the OTTI realized is the difference between the security's amortized cost basis and fair value at the balance sheet date.

In periods subsequent to the recognition of an OTTI loss for a loan-backed or structured security, the Company accounts for the other-than-temporarily impaired security as if the security had been purchased on the measurement date of the impairment. The difference between the new amortized cost basis and the cash flows expected to be collected is accreted as interest income in future periods based on prospective changes in cash flow estimates.

(7) - (13) No material change

D. Going Concern

The Company does not have any doubt about its ability to continue as a going concern. In addition, the Company has a financial support agreement with its parent, Teachers Insurance and Annuity Association of America ("TIAA"). Under this agreement, TIAA will provide support so the Company will have the greater of (a) capital and surplus of \$250,000,000, (b) the amount of capital and surplus necessary to maintain the Company's capital and surplus at a level not less than 150% of the NAIC Risk Based Capital model or (c) such other amount as necessary to maintain the Company's financial strength rating at least the same as TIAA's rating at all times. This agreement is not an evidence of indebtedness or an obligation or liability of TIAA and does not provide any creditor of the Company with recourse to TIAA.

2. Accounting Changes and Corrections of Errors

Accounting Changes

Adoption of New Accounting Standards

In October 2022, the NAIC adopted certain accounting practices within Interpretation 2022-02, Third Quarter 2022 Reporting of the Inflation Reduction Act (the "Act") - Corporate Alternative Minimum Tax ("CAMT") ("INT 22-02"). The Act imposes a CAMT to the excess of 15% of a corporation's adjusted financial statement income over its corporate alternative minimum tax foreign tax credit. The CAMT goes into effect for tax years beginning after 2022. INT 22-02 addresses the third quarter 2022 transition accounting and reporting aspects of the new CAMT. Because of the timing of the adoption of the Act and the considerable number of unknown variables for September 30, 2022, a reasonable estimate is not determinable for third quarter 2022 interim financial statements for the calculations impacted by the CAMT. INT 22-02 specifies that reporting entities shall not recognize impacts related to CAMT for third quarter 2022 financial statements or as a subsequent event for any estimated CAMT, but shall make certain disclosures for the Act's applicability. See Note 9 for the disclosure.

Corrections of Errors

No material corrections

3. Business Combinations and Goodwill

Not applicable

4. Discontinued Operations

Not applicable

5. Investments

A. Mortgage Loans

Not applicable

B. Debt Restructuring

Not applicable

C. Reverse Mortgages

Not applicable

NOTES TO FINANCIAL STATEMENTS**D. Loan-Backed Securities**

(1) The near-term prepayment assumptions for loan-backed and structured securities are based on historical averages drawing from performance experience for a particular transaction and may vary by security type. The long-term assumptions are adjusted based on expected performance.

(2) For the period ended September 30, 2022, the Company recognized no other-than-temporary impairment ("OTTI") on securities it lacked the ability to hold or had the intent to sell.

(3) The company has no loan-backed and structured securities that recognized OTTI as of September 30, 2022.

(4) All impaired securities (fair value is less than cost or amortized cost) for which an OTTI has not been recognized in earnings as a realized loss (including securities with a recognized OTTI for non-interest related declines when a non-recognized interest related impairment remains):

a. The aggregate amount of unrealized losses:

1. Less than 12 Months	\$	150,669,303
2. 12 Months or Longer	\$	63,467,592

b. The aggregate related fair value of securities with unrealized losses:

1. Less than 12 Months	\$	1,093,980,277
2. 12 Months or Longer	\$	295,971,968

(5) The Company's management periodically reviews the investment portfolios and identifies investments which may have deteriorated in credit quality and are candidates for impairment. The Company develops cash flows as part of its impairment review process. Where the cash flows support the recovery of the principal balance, the Company concludes that the impairment is not other-than-temporary.

E. Dollar Repurchase Agreements and/or Securities Lending Transactions

Not applicable

F. Repurchase Agreements Transactions Accounted for as Secured Borrowing

Not applicable

G. Reverse Repurchase Agreements Transactions Accounted for as Secured Borrowing

Not applicable

H. Repurchase Agreements Transactions Accounted for as a Sale

Not applicable

I. Reverse Repurchase Agreements Transactions Accounted for as a Sale

Not applicable

J. Real Estate

Not applicable

K. Low Income Housing Tax Credits ("LIHTC")

Not applicable

L. Restricted Assets

No material change

M. Working Capital Financial Investments

Not applicable

N. Offsetting and Netting of Assets and Liabilities

Not applicable

O. 5GI Securities

Not applicable

NOTES TO FINANCIAL STATEMENTS**P. Short Sales**

Not applicable

Q. Prepayment Penalty and Acceleration Fees

No material change

R. Reporting Entity's Share of Cash Pool by Asset type

Not applicable

6. Joint Ventures, Partnerships and Limited Liability Companies

Not applicable

7. Investment Income

No material change

8. Derivative Instruments

Not applicable

9. Federal Income Tax

No material changes, however the Inflation Reduction Act ("Act") was enacted during the reporting period on August 16, 2022. The Act included a new corporate alternative minimum tax ("CAMT") which is a 15 percent tax on an applicable corporation's "adjusted financial statement income" for the tax year, reduced by corporate alternative minimum foreign tax credits. The tax is effective for tax years beginning after 2022.

Under general statutory accounting principles, reporting entities filing statutory financial statements would normally have to consider the applicability of the CAMT, and if applicable, determine the impact on the statutory valuation allowance as well as assess DTAs for admissibility. Pursuant to guidance released by the Statutory Accounting Principles Working Group ("SAPWG") within INT 22-02, though TC Life expects to be liable for CAMT in 2023 as a member of the TIAA & Subsidiaries consolidated tax return group, TC Life has not included an estimate of the impact of the CAMT within the third quarter 2022 financial statements, because a reasonable estimate cannot be made at this time.

10. Information Concerning Parent, Subsidiaries, Affiliates and Other Related Parties

No material change

11. Debt

No material change

12. Retirement Plans, Deferred Compensation, Postemployment Benefits and Compensated Absences and Other Post Retirement Benefit Plans

Not applicable

13. Capital and Surplus, Dividend Restrictions and Quasi-Reorganizations

(A) - (C) No material change

(D) An ordinary dividend in the amount of \$83,900,000 was paid by the Company to TIAA in the quarter ending June 30, 2022.

(E) - (M) No material change

14. Liabilities, Contingencies and Assessments

No material change

15. Leases

Not applicable

16. Information About Financial Instruments With Off-Balance Sheet Risk And Financial Instruments With Concentrations of Credit Risk

Not applicable

NOTES TO FINANCIAL STATEMENTS

17. Sale, Transfer and Servicing of Financial Assets and Extinguishments of Liabilities

Not applicable

18. Gain or Loss to the Reporting Entity from Uninsured Plans and the Uninsured Portion of Partially Insured Plans

Not applicable

19. Direct Premium Written/Produced by Managing General Agents/Third Party Administrators

Not applicable

20. Fair Value Measurements

- A. Included in the Company's financial statements are certain financial instruments carried at fair value. Other financial instruments are periodically measured at fair value, such as when impaired, or for certain bonds and preferred stock when carried at the lower of cost or fair value.

Fair value is the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date.

Fair values of financial instruments are based on quoted market prices when available. When market prices are not available, fair values are primarily provided by a third party pricing service for identical or comparable assets, or through the use of valuation methodologies using observable market inputs. These fair values are generally estimated using discounted cash flow analysis, incorporating current market inputs for similar financial instruments with comparable terms and credit quality. In instances where there is little or no market activity for the same or similar instruments, the Company estimates fair value using methods, models and assumptions that management believes market participants would use to determine a current transaction price. These valuation techniques involve management estimation and judgment for many factors including market bid/ask spreads, and such estimations may become significant with increasingly complex instruments or pricing models.

The Company's financial assets and liabilities measured and reported at fair value have been classified, for disclosure purposes, based on a hierarchy defined by SSAP No. 100R, Fair Value. The fair value hierarchy prioritizes the inputs to valuation techniques used to measure fair value into three broad levels. The hierarchy gives the highest ranking to fair values determined using unadjusted quoted prices in active markets for identical assets and liabilities (Level 1) and the lowest ranking to fair values determined using methodologies and models with unobservable inputs (Level 3). An asset's or a liability's classification is based on the lowest level input that is significant to its measurement. For example, a Level 3 fair value measurement may include inputs that are both observable (Levels 1 and Level 2) and unobservable (Level 3). The levels of the fair value hierarchy are as follows:

Level 1 – Inputs are unadjusted quoted prices in active markets for identical assets and liabilities that the Company has the ability to access at the measurement date.

Level 2 – Other than quoted prices within Level 1 inputs that are observable for the asset or liability, either directly or indirectly.

Level 2 inputs include:

- Quoted prices for similar assets or liabilities in active markets,
- Quoted prices for identical or similar assets or liabilities in markets that are not active,
- Inputs other than quoted prices that are observable for the asset or liability,
- Inputs that are derived principally from or corroborated by observable market data by correlation or other means.

Level 3 – Inputs are unobservable inputs for the asset or liability supported by little or no market activity. Unobservable inputs reflect the Company's own assumptions about the assumptions that market participants would use in pricing the asset or liability. The Company's data used to develop unobservable inputs is adjusted if information is reasonably available without undue cost and effort that indicates that market participants would use different assumptions.

Considerable judgment is required to interpret market data in developing the estimates of fair value for financial instruments for which there are no available market value quotations. The estimates presented are not necessarily indicative of the amounts the Company could have realized in a market exchange. The use of different market assumptions and/or estimation methodologies may have a material effect on the estimated fair value amounts.

NOTES TO FINANCIAL STATEMENTS

(1) Financial assets and liabilities measured and reported at fair value

The following table provides information about the Company’s financial assets and liabilities measured and reported at fair value at September 30, 2022:

	Level 1	Level 2	Level 3	Net Asset Value (NAV)	Total
Assets at fair value:					
Preferred stock	\$ 1,551,617	\$ —	\$ —	\$ —	\$ 1,551,617
Separate account assets	\$ 3,698,199,200	\$ 15,877,987	\$ —	\$ —	\$ 3,714,077,187
Total assets at fair value	<u>\$ 3,699,750,817</u>	<u>\$ 15,877,987</u>	<u>\$ —</u>	<u>\$ —</u>	<u>\$ 3,715,628,804</u>
Total liabilities at fair value	<u>\$ —</u>	<u>\$ —</u>	<u>\$ —</u>	<u>\$ —</u>	<u>\$ —</u>

(2) Reconciliation of Level 3 assets and liabilities measured and reported at fair value:

At September 30, 2022 and December 31, 2021, there were no assets or liabilities measured and reported at fair value using Level 3 inputs.

(3) The Company’s policy is to recognize transfers into and out of Level 3 at the actual date of the event or change in circumstances that caused the transfer.

(4) See 20.B.

(5) Not applicable.

B. The estimated fair values of the financial assets and liabilities presented within this note are determined by the Company using market information available as of September 30, 2022. The following is a summary of the valuation techniques and inputs used in the fair value measurements for all financial instruments, including those assets and liabilities carried at fair value in the Company’s statement of financial position.

Level 1 financial instruments

Unadjusted quoted prices for these securities are provided to the Company by independent pricing services. Preferred stocks and separate account assets in Level 1 primarily include exchange traded equities and mutual fund investments valued by the respective mutual fund companies. Cash in Level 1 consists of cash on hand.

Level 2 financial instruments

Bonds in Level 2 are valued principally by third party pricing services using market observable inputs. Because most bonds do not trade daily, independent pricing services regularly derive fair values using recent trades of securities with similar features. When recent trades are not available, pricing models are used to estimate the fair values of securities by discounting future cash flows at estimated market interest rates. Typical inputs to models used by independent pricing services include but are not limited to benchmark yields, reported trades, broker-dealer quotes, issuer spreads, benchmark securities, bids, offers, reference data, and industry and economic events. Additionally, for loan-backed and structured securities, valuation is based primarily on market inputs including benchmark yields, expected prepayment speeds, loss severity, delinquency rates, weighted average coupon, weighted average maturity and issuance specific information. Issuance specific information includes collateral type, payment terms of underlying assets, payment priority within the tranche, structure of the security, deal performance and vintage of loans.

Preferred stocks included in Level 2 include those which are traded in an inactive market for which prices for identical securities are not available. Valuations are based principally on observable inputs including quoted prices in markets that are not considered active.

Other invested assets in level 2 represent surplus notes and are valued by a third party pricing vendor using primarily observable market inputs. Observable inputs include benchmark yields, reported trades, market dealer quotes, issuer spreads, two-sided markets, benchmark securities, bids, offers and reference data.

Separate account assets in Level 2 consist principally of corporate bonds, short term government agency notes and commercial paper.

Cash equivalents and short term investments included in Level 2 are valued principally by third party services using market observable inputs.

Level 3 financial instruments

Valuation techniques for bonds included in Level 3 are generally the same as those described in Level 2 except that the techniques utilize inputs that are not readily observable in the market, including illiquidity premiums and spread adjustments to reflect industry trends or specific credit-related issues. The Company assesses the significance of unobservable inputs for each security and classifies that security in Level 3 as a result of the significance of unobservable inputs.

NOTES TO FINANCIAL STATEMENTS

Contract loans are fully collateralized by the cash surrender value of underlying insurance policies and are valued based on the carrying value of the loan, which approximates fair value, and are classified as Level 3.

Separate account liabilities are accounted for at fair value and reflect the contractual obligations of the insurer arising out of the provisions of the insurance contract.

Deposit-type contracts are valued based on the accumulated account value, which approximates fair value, and are classified as Level 3.

C. Aggregate fair value for all financial instruments:

The aggregate fair value for all financial instruments and the level within the fair value hierarchy:

	Aggregate Fair Value	Admitted Assets	Level 1	Level 2	Level 3	Net Asset Value (NAV)	Not Practicable (Carrying Value)
Assets:							
Bonds	\$11,442,492,012	\$13,341,562,499	\$ —	\$11,436,973,344	\$ 5,518,667	\$ —	\$ —
Preferred stock	7,337,537	9,951,617	1,551,617	5,785,920	—	—	—
Other invested assets	4,834,183	4,627,244	—	4,834,183	—	—	—
Separate account assets	3,714,077,186	3,714,077,186	3,698,199,200	15,877,987	—	—	—
Contract loans	47,663,537	47,663,537	—	—	47,663,537	—	—
Cash, cash equivalents & short term investments ...	50,962,605	50,955,130	13,962,605	37,000,000	—	—	—
Total	<u>\$15,267,367,060</u>	<u>\$17,168,837,213</u>	<u>\$3,713,713,422</u>	<u>\$11,500,471,434</u>	<u>\$ 53,182,204</u>	<u>\$ —</u>	<u>\$ —</u>
Liabilities:	Aggregate Fair Value	Liabilities	Level 1	Level 2	Level 3	Net Asset Value (NAV)	Not Practicable (Carrying Value)
Deposit-type contracts	\$ 8,722,656,746	\$ 8,722,656,746	\$ —	\$ —	\$8,722,656,746	\$ —	\$ —
Separate account liabilities	3,711,040,298	3,711,040,298	—	—	3,711,040,298	—	—
Total	<u>\$12,433,697,044</u>	<u>\$12,433,697,044</u>	<u>\$ —</u>	<u>\$ —</u>	<u>\$12,433,697,044</u>	<u>\$ —</u>	<u>\$ —</u>

D. Not applicable

E. Not applicable

21. Other Items

No material change

22. Events Subsequent

Subsequent events have been considered through November 7, 2022 for the statutory statement issued on November 7, 2022. No subsequent events were noted.

23. Reinsurance

No material change

24. Retrospectively Rated Contracts and Contracts Subject to Redetermination

Not applicable

25. Changes in Incurred Losses and Loss Adjustment Expenses

Not applicable

26. Intercompany Pooling Arrangements

Not applicable

27. Structured Settlements

Not applicable

28. Health Care Receivables

Not applicable

29. Participating Policies

Not applicable

NOTES TO FINANCIAL STATEMENTS

30. Premium Deficiency Reserves

Not applicable

31. Reserves for Life Contracts and Annuity Contracts

No material change

32. Analysis of Annuity Actuarial Reserves and Deposit Type Contract Liabilities by Withdrawal Characteristics

No material change

33. Analysis of Life Actuarial Reserves by Withdrawal Characteristics

No material change

34. Premiums and Annuity Considerations Deferred and Uncollected

No material change

35. Separate Accounts

No material change

36. Loss/Claims Adjustment Expense

No material change

STATEMENT AS OF SEPTEMBER 30, 2022 OF THE TIAA-CREF LIFE INSURANCE COMPANY

GENERAL INTERROGATORIES

PART 1 - COMMON INTERROGATORIES

GENERAL

- 1.1

Did the reporting entity experience any material transactions requiring the filing of Disclosure of Material Transactions with the State of Domicile, as required by the Model Act?

Yes [] No [X]
- 1.2

If yes, has the report been filed with the domiciliary state?

Yes [] No []
- 2.1

Has any change been made during the year of this statement in the charter, by-laws, articles of incorporation, or deed of settlement of the reporting entity?

Yes [] No [X]
- 2.2

If yes, date of change:
- 3.1

Is the reporting entity a member of an Insurance Holding Company System consisting of two or more affiliated persons, one or more of which is an insurer?

If yes, complete Schedule Y, Parts 1 and 1A.

Yes [X] No []
- 3.2

Have there been any substantial changes in the organizational chart since the prior quarter end?

Yes [] No [X]
- 3.3

If the response to 3.2 is yes, provide a brief description of those changes.
- 3.4

Is the reporting entity publicly traded or a member of a publicly traded group?

Yes [] No [X]
- 3.5

If the response to 3.4 is yes, provide the CIK (Central Index Key) code issued by the SEC for the entity/group.
- 4.1

Has the reporting entity been a party to a merger or consolidation during the period covered by this statement?

Yes [] No [X]
- 4.2

If yes, provide the name of the entity, NAIC Company Code, and state of domicile (use two letter state abbreviation) for any entity that has ceased to exist as a result of the merger or consolidation.
- | | | |
|----------------|-------------------|-------------------|
| 1 | 2 | 3 |
| Name of Entity | NAIC Company Code | State of Domicile |
| | | |
5.

If the reporting entity is subject to a management agreement, including third-party administrator(s), managing general agent(s), attorney-in-fact, or similar agreement, have there been any significant changes regarding the terms of the agreement or principals involved?

If yes, attach an explanation.

Yes [] No [X] N/A []
- 6.1

State as of what date the latest financial examination of the reporting entity was made or is being made.

12/31/2018
- 6.2

State the as of date that the latest financial examination report became available from either the state of domicile or the reporting entity. This date should be the date of the examined balance sheet and not the date the report was completed or released.

12/31/2018
- 6.3

State as of what date the latest financial examination report became available to other states or the public from either the state of domicile or the reporting entity. This is the release date or completion date of the examination report and not the date of the examination (balance sheet date).

06/25/2020
- 6.4

By what department or departments?
New York State Department of Financial Services
- 6.5

Have all financial statement adjustments within the latest financial examination report been accounted for in a subsequent financial statement filed with Departments?

Yes [] No [] N/A [X]
- 6.6

Have all of the recommendations within the latest financial examination report been complied with?

Yes [] No [] N/A [X]
- 7.1

Has this reporting entity had any Certificates of Authority, licenses or registrations (including corporate registration, if applicable) suspended or revoked by any governmental entity during the reporting period?

Yes [] No [X]
- 7.2

If yes, give full information:
- 8.1

Is the company a subsidiary of a bank holding company regulated by the Federal Reserve Board?

Yes [] No [X]
- 8.2

If response to 8.1 is yes, please identify the name of the bank holding company.
- 8.3

Is the company affiliated with one or more banks, thrifts or securities firms?

Yes [X] No []
- 8.4

If response to 8.3 is yes, please provide below the names and location (city and state of the main office) of any affiliates regulated by a federal regulatory services agency [i.e. the Federal Reserve Board (FRB), the Office of the Comptroller of the Currency (OCC), the Federal Deposit Insurance Corporation (FDIC) and the Securities Exchange Commission (SEC)] and identify the affiliate's primary federal regulator.

1 Affiliate Name	2 Location (City, State)	3 FRB	4 OCC	5 FDIC	6 SEC
TIAA, FSB	Jacksonville, Florida		YES		
TIAA FSB Holdings, Inc.	Jacksonville, Florida	YES			
Teachers Insurance and Annuity Association of America	New York, New York	YES			
TIAA Board of Governors	New York, New York	YES			
TIAA-CREF Individual & Institutional Services, LLC	New York, New York				YES
Nuveen Securities, LLC	Chicago, Illinois				YES

STATEMENT AS OF SEPTEMBER 30, 2022 OF THE TIAA-CREF LIFE INSURANCE COMPANY

GENERAL INTERROGATORIES

- 9.1

Are the senior officers (principal executive officer, principal financial officer, principal accounting officer or controller, or persons performing similar functions) of the reporting entity subject to a code of ethics, which includes the following standards?
(a) Honest and ethical conduct, including the ethical handling of actual or apparent conflicts of interest between personal and professional relationships;
(b) Full, fair, accurate, timely and understandable disclosure in the periodic reports required to be filed by the reporting entity;
(c) Compliance with applicable governmental laws, rules and regulations;
(d) The prompt internal reporting of violations to an appropriate person or persons identified in the code; and
(e) Accountability for adherence to the code.

Yes ☒ No ☐
- 9.11

If the response to 9.1 is No, please explain:
- 9.2

Has the code of ethics for senior managers been amended?

Yes ☒ No ☐
- 9.21

If the response to 9.2 is Yes, provide information related to amendment(s).
TIAA added a human rights statement to the Code of Business Conduct effective on January 1, 2022. This addition did not impact the items outlined in Question 9.1.
- 9.3

Have any provisions of the code of ethics been waived for any of the specified officers?

Yes ☐ No ☒
- 9.31

If the response to 9.3 is Yes, provide the nature of any waiver(s).

FINANCIAL

- 10.1

Does the reporting entity report any amounts due from parent, subsidiaries or affiliates on Page 2 of this statement?

Yes ☒ No ☐
- 10.2

If yes, indicate any amounts receivable from parent included in the Page 2 amount:

\$

INVESTMENT

- 11.1

Were any of the stocks, bonds, or other assets of the reporting entity loaned, placed under option agreement, or otherwise made available for use by another person? (Exclude securities under securities lending agreements.)

Yes ☒ No ☐
- 11.2

If yes, give full and complete information relating thereto:
As of September 30, 2022, the statement value of the assets on deposit with states is \$7,916,490.
12.

Amount of real estate and mortgages held in other invested assets in Schedule BA:

\$
13.

Amount of real estate and mortgages held in short-term investments:

\$
- 14.1

Does the reporting entity have any investments in parent, subsidiaries and affiliates?

Yes ☐ No ☒
- 14.2

If yes, please complete the following:
- | | 1 | 2 |
|---|---|--|
| | Prior Year-End Book/Adjusted Carrying Value | Current Quarter Book/Adjusted Carrying Value |
| 14.21 Bonds | \$ | \$ |
| 14.22 Preferred Stock | \$ | \$ |
| 14.23 Common Stock | \$ | \$ |
| 14.24 Short-Term Investments | \$ | \$ |
| 14.25 Mortgage Loans on Real Estate | \$ | \$ |
| 14.26 All Other | \$ | \$ |
| 14.27 Total Investment in Parent, Subsidiaries and Affiliates (Subtotal Lines 14.21 to 14.26) | \$ | \$ |
| 14.28 Total Investment in Parent included in Lines 14.21 to 14.26 above | \$ | \$ |
- 15.1

Has the reporting entity entered into any hedging transactions reported on Schedule DB?

Yes ☐ No ☒
- 15.2

If yes, has a comprehensive description of the hedging program been made available to the domiciliary state?
If no, attach a description with this statement.

Yes ☐ No ☐ N/A ☒
16.

For the reporting entity's security lending program, state the amount of the following as of the current statement date:
- 16.1

Total fair value of reinvested collateral assets reported on Schedule DL, Parts 1 and 2.

\$
- 16.2

Total book adjusted/carrying value of reinvested collateral assets reported on Schedule DL, Parts 1 and 2

\$
- 16.3

Total payable for securities lending reported on the liability page.

\$

STATEMENT AS OF SEPTEMBER 30, 2022 OF THE TIAA-CREF LIFE INSURANCE COMPANY

GENERAL INTERROGATORIES

17. Excluding items in Schedule E - Part 3 - Special Deposits, real estate, mortgage loans and investments held physically in the reporting entity's offices, vaults or safety deposit boxes, were all stocks, bonds and other securities, owned throughout the current year held pursuant to a custodial agreement with a qualified bank or trust company in accordance with Section 1, III - General Examination Considerations, F. Outsourcing of Critical Functions, Custodial or Safekeeping Agreements of the NAIC Financial Condition Examiners Handbook? Yes [X] No []
- 17.1 For all agreements that comply with the requirements of the NAIC Financial Condition Examiners Handbook, complete the following:

1 Name of Custodian(s)	2 Custodian Address
Citibank, N.A.	388 Greenwich Street 24th Floor New York, NY 10013
JPMorgan Chase Bank, N.A.	383 Madison Avenue, New York, NY 10017

- 17.2 For all agreements that do not comply with the requirements of the NAIC Financial Condition Examiners Handbook, provide the name, location and a complete explanation:

1 Name(s)	2 Location(s)	3 Complete Explanation(s)

- 17.3 Have there been any changes, including name changes, in the custodian(s) identified in 17.1 during the current quarter? Yes [] No [X]
- 17.4 If yes, give full information relating thereto:

1 Old Custodian	2 New Custodian	3 Date of Change	4 Reason

- 17.5 Investment management – Identify all investment advisors, investment managers, broker/dealers, including individuals that have the authority to make investment decisions on behalf of the reporting entity. For assets that are managed internally by employees of the reporting entity, note as such. ["...that have access to the investment accounts"; "...handle securities"]

1 Name of Firm or Individual	2 Affiliation
Teachers Advisors, LLC	A.....

17.5097 For those firms/individuals listed in the table for Question 17.5, do any firms/individuals unaffiliated with the reporting entity (i.e. designated with a "U") manage more than 10% of the reporting entity's invested assets?..... Yes [] No [X]

17.5098 For firms/individuals unaffiliated with the reporting entity (i.e. designated with a "U") listed in the table for Question 17.5, does the total assets under management aggregate to more than 50% of the reporting entity's invested assets?..... Yes [] No [X]

- 17.6 For those firms or individuals listed in the table for 17.5 with an affiliation code of "A" (affiliated) or "U" (unaffiliated), provide the information for the table below.

1 Central Registration Depository Number	2 Name of Firm or Individual	3 Legal Entity Identifier (LEI)	4 Registered With	5 Investment Management Agreement (IMA) Filed
107157	Teachers Advisors, LLC	Q3EVPQ17HQS1MVRLOU14	Securities and Exchange Commission	DS.....

- 18.1 Have all the filing requirements of the Purposes and Procedures Manual of the NAIC Investment Analysis Office been followed? Yes [X] No []
- 18.2 If no, list exceptions:

19. By self-designating 5GI securities, the reporting entity is certifying the following elements for each self-designated 5GI security:
- a. Documentation necessary to permit a full credit analysis of the security does not exist or an NAIC CRP credit rating for an FE or PL security is not available.
 - b. Issuer or obligor is current on all contracted interest and principal payments.
 - c. The insurer has an actual expectation of ultimate payment of all contracted interest and principal.
- Has the reporting entity self-designated 5GI securities? Yes [] No [X]

20. By self-designating PLGI securities, the reporting entity is certifying the following elements of each self-designated PLGI security:
- a. The security was purchased prior to January 1, 2018.
 - b. The reporting entity is holding capital commensurate with the NAIC Designation reported for the security.
 - c. The NAIC Designation was derived from the credit rating assigned by an NAIC CRP in its legal capacity as a NRSRO which is shown on a current private letter rating held by the insurer and available for examination by state insurance regulators.
 - d. The reporting entity is not permitted to share this credit rating of the PL security with the SVO.
- Has the reporting entity self-designated PLGI securities? Yes [] No [X]

21. By assigning FE to a Schedule BA non-registered private fund, the reporting entity is certifying the following elements of each self-designated FE fund:
- a. The shares were purchased prior to January 1, 2019.
 - b. The reporting entity is holding capital commensurate with the NAIC Designation reported for the security.
 - c. The security had a public credit rating(s) with annual surveillance assigned by an NAIC CRP in its legal capacity as an NRSRO prior to January 1, 2019.
 - d. The fund only or predominantly holds bonds in its portfolio.
 - e. The current reported NAIC Designation was derived from the public credit rating(s) with annual surveillance assigned by an NAIC CRP in its legal capacity as an NRSRO.
 - f. The public credit rating(s) with annual surveillance assigned by an NAIC CRP has not lapsed.
- Has the reporting entity assigned FE to Schedule BA non-registered private funds that complied with the above criteria? Yes [] No [X]

GENERAL INTERROGATORIES

PART 2 - LIFE AND ACCIDENT AND HEALTH COMPANIES/FRATERNAL BENEFIT SOCIETIES

Life and Accident Health Companies/Fraternal Benefit Societies:

1.

Report the statement value of mortgage loans at the end of this reporting period for the following categories:

1

Amount

1.1

Long-Term Mortgages In Good Standing

1.11

Farm Mortgages

\$

1.12

Residential Mortgages

\$

1.13

Commercial Mortgages

\$

1.14

Total Mortgages in Good Standing

\$

1.2

Long-Term Mortgages In Good Standing with Restructured Terms

1.21

Total Mortgages in Good Standing with Restructured Terms

\$

1.3

Long-Term Mortgage Loans Upon which Interest is Overdue more than Three Months

1.31

Farm Mortgages

\$

1.32

Residential Mortgages

\$

1.33

Commercial Mortgages

\$

1.34

Total Mortgages with Interest Overdue more than Three Months

\$

1.4

Long-Term Mortgage Loans in Process of Foreclosure

1.41

Farm Mortgages

\$

1.42

Residential Mortgages

\$

1.43

Commercial Mortgages

\$

1.44

Total Mortgages in Process of Foreclosure

\$

1.5

Total Mortgage Loans (Lines 1.14 + 1.21 + 1.34 + 1.44) (Page 2, Column 3, Lines 3.1 + 3.2)

\$

1.6

Long-Term Mortgages Foreclosed, Properties Transferred to Real Estate in Current Quarter

1.61

Farm Mortgages

\$

1.62

Residential Mortgages

\$

1.63

Commercial Mortgages

\$

1.64

Total Mortgages Foreclosed and Transferred to Real Estate

\$

2.

Operating Percentages:

2.1

A&H loss percent

%

2.2

A&H cost containment percent

%

2.3

A&H expense percent excluding cost containment expenses

%

3.1

Do you act as a custodian for health savings accounts?

Yes [] No [X]

3.2

If yes, please provide the amount of custodial funds held as of the reporting date

\$

3.3

Do you act as an administrator for health savings accounts?

Yes [] No [X]

3.4

If yes, please provide the balance of the funds administered as of the reporting date

\$

4.

Is the reporting entity licensed or chartered, registered, qualified, eligible or writing business in at least two states?

Yes [X] No []

4.1

If no, does the reporting entity assume reinsurance business that covers risks residing in at least one state other than the state of domicile of the reporting entity?

Yes [] No []

Fraternal Benefit Societies Only:

5.1

In all cases where the reporting entity has assumed accident and health risks from another company, provisions should be made in this statement on account of such reinsurances for reserve equal to that which the original company would have been required to establish had it retained the risks. Has this been done?

Yes [] No [] N/A []

5.2

If no, explain:

6.1

Does the reporting entity have outstanding assessments in the form of liens against policy benefits that have increased surplus?

Yes [] No []

6.2

If yes, what is the date(s) of the original lien and the total outstanding balance of liens that remain in surplus?

Date	Outstanding Lien Amount

SCHEDULE S - CEDED REINSURANCE

Showing All New Reinsurance Treaties - Current Year to Date

1	2	3	4	5	6	7	8	9	10
NAIC Company Code	ID Number	Effective Date	Name of Reinsurer	Domiciliary Jurisdiction	Type of Reinsurance Ceded	Type of Business Ceded	Type of Reinsurer	Certified Reinsurer Rating (1 through 6)	Effective Date of Certified Reinsurer Rating
NONE									

STATEMENT AS OF SEPTEMBER 30, 2022 OF THE TIAA-CREF LIFE INSURANCE COMPANY

SCHEDULE T - PREMIUMS AND ANNUITY CONSIDERATIONS

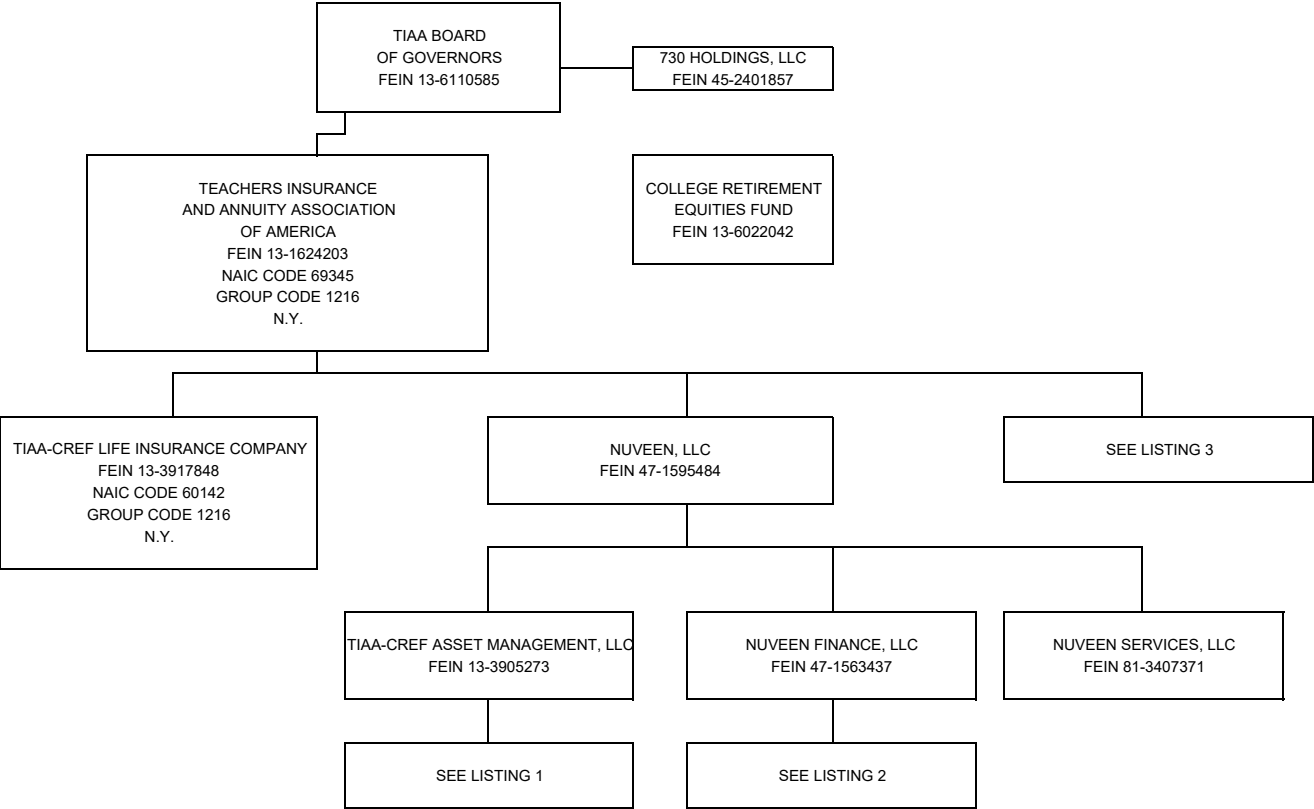
Current Year To Date - Allocated by States and Territories

States, Etc.			1	Direct Business Only					
				Life Contracts		4 Accident and Health Insurance Premiums, Including Policy, Membership and Other Fees	5 Other Considerations	6 Total Columns 2 Through 5	7 Deposit-Type Contracts
				2 Life Insurance Premiums	3 Annuity Considerations				
Active Status (a)									
1.	Alabama	AL	L	2,350,193	636,994	97,523		3,084,710	408,998
2.	Alaska	AK	L	92,636	60,655			153,291	
3.	Arizona	AZ	L	2,743,028	1,749,030	69,530		4,561,588	466,214
4.	Arkansas	AR	L	556,962	280,362	17,138		854,462	
5.	California	CA	L	14,593,167	4,659,527	162,092		19,414,786	1,287,478,844
6.	Colorado	CO	L	2,481,010	1,042,646			3,523,656	43,427,335
7.	Connecticut	CT	L	3,960,233	2,443,553	103,527		6,507,313	515,819
8.	Delaware	DE	L	2,695,207	280,831	32,851		3,008,888	
9.	District of Columbia	DC	L	1,105,593	712,958	76,076		1,894,627	
10.	Florida	FL	L	7,574,023	6,966,092	784,242		15,324,357	1,612,278
11.	Georgia	GA	L	4,164,908	1,748,870	154,054		6,067,833	71,666,574
12.	Hawaii	HI	L	527,771	169,800	8,060		705,631	
13.	Idaho	ID	L	237,540	5,400	27,578		270,518	
14.	Illinois	IL	L	5,199,508	2,411,146	111,559		7,722,213	1,446,285
15.	Indiana	IN	L	2,228,775	1,045,799	91,123		3,365,697	2,500,424
16.	Iowa	IA	L	2,186,639	1,336,914	53,183		3,576,736	1,638,236
17.	Kansas	KS	L	734,530	102,725	22,389		859,645	
18.	Kentucky	KY	L	821,296	79,729	6,280		907,306	
19.	Louisiana	LA	L	803,736	2,000			805,736	
20.	Maine	ME	L	857,807	174,754	18,143		1,050,703	
21.	Maryland	MD	L	4,857,754	3,253,737	217,220		8,328,712	
22.	Massachusetts	MA	L	6,931,161	5,566,702	330,168		12,828,032	4,494,142
23.	Michigan	MI	L	5,411,876	2,151,216	201,857		7,764,950	109,216,898
24.	Minnesota	MN	L	2,975,245	1,637,501	46,632		4,659,379	24,403,784
25.	Mississippi	MS	L	208,318	8,705			217,022	7,118,671
26.	Missouri	MO	L	4,132,161	346,983	76,185		4,555,329	1,562,660
27.	Montana	MT	L	171,974	58,489			230,463	
28.	Nebraska	NE	L	1,979,419	464,026	13,065		2,456,510	30,000
29.	Nevada	NV	L	614,218	556,566	30,706		1,201,491	137,462
30.	New Hampshire	NH	L	947,562	13,862			961,424	
31.	New Jersey	NJ	L	8,056,577	3,386,461	163,526		11,606,564	615,082
32.	New Mexico	NM	L	426,690	2,061,828			2,488,518	144,994
33.	New York	NY	L	21,808,352	11,226,004	931,736		33,966,091	8,045,642
34.	North Carolina	NC	L	5,073,281	5,156,737	81,778		10,311,796	193,883
35.	North Dakota	ND	L	167,806	17,250			185,056	
36.	Ohio	OH	L	3,591,456	1,734,230	135,007		5,460,693	876,441
37.	Oklahoma	OK	L	906,654	504,346	45,268		1,456,268	14,185,248
38.	Oregon	OR	L	1,739,998	4,491,068	67,324		6,298,390	
39.	Pennsylvania	PA	L	10,595,529	6,653,667	361,211		17,610,407	1,690,169
40.	Rhode Island	RI	L	975,134	1,097,972	43,252		2,116,358	308,302
41.	South Carolina	SC	L	1,127,230	819,813	55,090		2,002,133	43,215
42.	South Dakota	SD	L	2,014,109	24,358			2,038,467	
43.	Tennessee	TN	L	2,149,885	951,719	43,861		3,145,465	184,812
44.	Texas	TX	L	6,975,954	3,617,573	56,574		10,650,101	670,069
45.	Utah	UT	L	1,055,009	539,021	5,153		1,599,182	37,626
46.	Vermont	VT	L	852,503	308,099	33,753		1,194,355	6,605,334
47.	Virginia	VA	L	5,603,763	1,294,084	154,475		7,052,322	1,082,261
48.	Washington	WA	L	4,511,247	3,023,456	85,372		7,620,075	590,366
49.	West Virginia	WV	L	476,702	290,994	52,917		820,612	119,285
50.	Wisconsin	WI	L	1,496,846	1,741,233	106,878		3,344,958	135,113,518
51.	Wyoming	WY	L	300,889	628,450	5,716		935,056	54,908
52.	American Samoa	AS	N						
53.	Guam	GU	N						
54.	Puerto Rico	PR	N	91,295				91,295	
55.	U.S. Virgin Islands	VI	N	3,798				3,798	
56.	Northern Mariana Islands	MP	N						
57.	Canada	CAN	N						
58.	Aggregate Other Aliens	OT	XXX	11,416				11,416	
59.	Subtotal	XXX		164,156,373	89,535,934	5,180,075		258,872,382	1,728,685,776
90.	Reporting entity contributions for employee benefits plans	XXX							
91.	Dividends or refunds applied to purchase paid-up additions and annuities	XXX							
92.	Dividends or refunds applied to shorten endowment or premium paying period	XXX							
93.	Premium or annuity considerations waived under disability or other contract provisions	XXX		414,487				414,487	
94.	Aggregate or other amounts not allocable by State	XXX							
95.	Totals (Direct Business)	XXX		164,570,860	89,535,934	5,180,075		259,286,869	1,728,685,776
96.	Plus Reinsurance Assumed	XXX							
97.	Totals (All Business)	XXX		164,570,860	89,535,934	5,180,075		259,286,869	1,728,685,776
98.	Less Reinsurance Ceded	XXX		59,368,796		5,180,075		64,548,871	
99.	Totals (All Business) less Reinsurance Ceded	XXX		105,202,064	89,535,934			194,737,998	1,728,685,776
DETAILS OF WRITE-INS									
58001.	ZZZ Other Alien	XXX		11,416				11,416	
58002.		XXX							
58003.		XXX							
58998.	Summary of remaining write-ins for Line 58 from overflow page	XXX							
58999.	Totals (Lines 58001 through 58003 plus 58998)(Line 58 above)	XXX		11,416				11,416	
9401.		XXX							
9402.		XXX							
9403.		XXX							
9498.	Summary of remaining write-ins for Line 94 from overflow page	XXX							
9499.	Totals (Lines 9401 through 9403 plus 9498)(Line 94 above)	XXX							

(a) Active Status Counts:
L - Licensed or Chartered - Licensed Insurance carrier or domiciled RRG.....51
E - Eligible - Reporting entities eligible or approved to write surplus lines in the state.....
N - None of the above - Not allowed to write business in the state.....6
R - Registered - Non-domiciled RRGs.....
Q - Qualified - Qualified or accredited reinsurer.....

Ordinary Life Insurance, Individual Accident and Health, and Individual Annuity Premiums allocated by current residence. Group Life Insurance allocated according to location of group contract holder.

SCHEDULE Y - INFORMATION CONCERNING ACTIVITIES OF INSURER MEMBERS OF A HOLDING COMPANY GROUP
PART 1 - ORGANIZATIONAL CHART
STATEMENT AS OF SEPTEMBER 30, 2022 OF THE TIAA-CREF LIFE INSURANCE COMPANY



SCHEDULE Y - INFORMATION CONCERNING ACTIVITIES OF INSURER MEMBERS OF A HOLDING COMPANY GROUP
PART 1 - ORGANIZATIONAL CHART

STATEMENT AS OF SEPTEMBER 30, 2022 OF THE TIAA-CREF LIFE INSURANCE COMPANY

LISTING 1 (TIAA-CREF ASSET MANAGEMENT, LLC):

COMPANY	FEIN	RELATIONSHIP
L&C Special Member Holdco, LLC	81-1272900	SUBSIDIARY
GTR Special Member Holdco LLC	46-3889185	SUBSIDIARY
TIAA International GP LLC	81-4374969	SUBSIDIARY
TIAA-CREF Investment Management, LLC	13-3586142	SUBSIDIARY
Nuveen Alternative Holdings, LLC	46-3870972	SUBSIDIARY
AGR Partners LLC	81-1467545	SUBSIDIARY
AGR Ag Infrastructure GP, LLC		SUBSIDIARY
AGR Services LLC	36-4853278	SUBSIDIARY (1)
AGR Special Opportunities GP, LLC		SUBSIDIARY
Nuveen Agribusiness Fund III GP, LLC	83-4328253	SUBSIDIARY
Nuveen Agribusiness Fund III, LP	83-4307097	SUBSIDIARY
TGAM Agribusiness Fund GP LLC	81-1870559	SUBSIDIARY
AGR Services LLC	36-4853278	SUBSIDIARY (1)
CAM HR Resources LLC	36-4851864	SUBSIDIARY (2)
Churchill Asset Management LLC	47-3156644	SUBSIDIARY
CAM HR Resources LLC	36-4851864	SUBSIDIARY (2)
CNV Investor GP, LLC		SUBSIDIARY
Churchill Agency Services LLC	82-3187734	SUBSIDIARY
Churchill Co-Investment Partners GP, LLC		SUBSIDIARY
Churchill Feeder Fund GP I S.a.r.l.		SUBSIDIARY
Churchill Fund GP II LLC	83-1177850	SUBSIDIARY
Churchill Junior Capital Opportunities Fund II Carry-Co, LLC		SUBSIDIARY
Churchill Junior Capital Opportunities Fund II GP, LLC		SUBSIDIARY
Churchill Junior Capital Opportunities Fund II GP Sarl		SUBSIDIARY
Churchill MMSLF Special GP LLC	85-3272173	SUBSIDIARY
Churchill Secondary Partners GP, LLC		SUBSIDIARY
Churchill Fund GP II Sarl	98-1449979	SUBSIDIARY
Churchill Special Member LLC	82-0735838	SUBSIDIARY
Churchill Warehouse LLC	82-3784145	SUBSIDIARY
CMIC Funding GP LLC	87-2329839	SUBSIDIARY
Nuveen Churchill Administration LLC		SUBSIDIARY
Senior MPD Fund GP LLC	88-1339633	SUBSIDIARY
Global Ag AIV (CN) GP, LLC	45-5044435	SUBSIDIARY
TGAM Churchill Fund GP LLC	81-1817732	SUBSIDIARY
Global Agriculture AIV (CN), LP	45-5044681	SUBSIDIARY
Global Ag II AIV GP LLC	47-1192644	SUBSIDIARY
Global Agriculture II AIV, LP	47-1197292	SUBSIDIARY
GTR Investor Fund GP LLC	47-1208361	SUBSIDIARY
NAP Investors GP, LLC	83-2245173	SUBSIDIARY
NCBDC Holdings LLC		SUBSIDIARY
Nuveen Churchill Advisors LLC		SUBSIDIARY
NGC Master HoldCo LLC	88-1590237	SUBSIDIARY
NGC Senior Master Holdco LLC	88-3758314	SUBSIDIARY
NGTF GP, LLC	88-2217234	SUBSIDIARY
Nuveen Alternatives Advisors, LLC	45-4288013	SUBSIDIARY
Churchill Fund III GP LLC		SUBSIDIARY
Nuveen Churchill Direct Lending Corp.		SUBSIDIARY
TPS Investors GP, LLC		SUBSIDIARY
Nuveen Alternatives Services, LLC	45-4288091	SUBSIDIARY
GAP II NZ GP Limited		SUBSIDIARY
TIAA European Farmland Fund GP LP	98-1310748	SUBSIDIARY (3)
TCAS Global Investments LLC	47-1515836	SUBSIDIARY

COMPANY	FEIN	RELATIONSHIP
Nuveen Alternative Holdings, LLC (continued)		
Nuveen CP Holdings 1 LLC		
Nuveen CP LLC	86-3136043	SUBSIDIARY
Nuveen CP Holdings 2 LLC	47-5515604	SUBSIDIARY (4)
Nuveen CP LLC	86-3147529	SUBSIDIARY
Greenworks Lending LLC	47-5515604	SUBSIDIARY (4)
Greenworks SPV LLC	47-3234364	SUBSIDIARY
PACEWell 1 LLC	35-2597261	SUBSIDIARY
PACEWell 3 LLC	30-1140743	SUBSIDIARY
PACEWell 4 LLC	87-1326451	SUBSIDIARY
PACEWell 5 Depositor LLC	87-3650389	SUBSIDIARY
PACEWell 5 LLC	87-3649944	SUBSIDIARY
PACE Financial Servicing LLC	46-4998151	SUBSIDIARY
Nuveen Global Farmland Fund GP, LLC	84-1819349	SUBSIDIARY
Nuveen Global Farmland Fund Lux GP S.a.r.l.	98-1638974	SUBSIDIARY
Nuveen Global Impact Fund GP, LLC	84-5180164	SUBSIDIARY
Nuveen Global Impact Fund Lux GP S.a.r.l.		SUBSIDIARY
Nuveen International Holdings LLC	26-2719001	SUBSIDIARY
Nuveen Canada Company LLC		SUBSIDIARY
Nuveen Japan Co., Limited		SUBSIDIARY
Nuveen Korea Co., Ltd.		SUBSIDIARY
TGAM Subsidiary HC LLC		SUBSIDIARY
TGAM APAC LLC	81-4290269	SUBSIDIARY (5)
TGAM HK HC LLC	81-4323796	SUBSIDIARY (6)
Nuven Hong Kong Limited		SUBSIDIARY
TGAM Asia LLC	81-4306975	SUBSIDIARY (7)
TGAM HK HC LLC	81-4323796	SUBSIDIARY (6)
TIAA International APAC LLC	81-4499397	SUBSIDIARY (8)
TGAM HK HC LLC	81-4323796	SUBSIDIARY (6)
TIAA International Asia LLC	81-4359164	SUBSIDIARY (9)
TGAM HK HC LLC	81-4323796	SUBSIDIARY (6)
TIAA International Subsidiary HC LLC	81-4390558	SUBSIDIARY
TGAM APAC LLC	81-4290269	SUBSIDIARY (5)
TGAM Asia LLC	81-4306975	SUBSIDIARY (7)
TIAA International APAC LLC	81-4499397	SUBSIDIARY (8)
TIAA International Asia LLC	81-4359164	SUBSIDIARY (9)
TGAM APAC LLC	81-4290269	SUBSIDIARY (5)
TGAM Asia LLC	81-4306975	SUBSIDIARY (7)
TIAA International APAC LLC	81-4499397	SUBSIDIARY (8)
TIAA International Asia LLC	81-4359164	SUBSIDIARY (9)
Nuveen Junior Capital Opportunities Fund GP S.a.r.l		SUBSIDIARY
Nuveen Natural Capital, LLC	87-4688838	SUBSIDIARY
Beaver Investments Holdings, LLC	45-5558395	SUBSIDIARY
GreenWood Resources Capital Management, LLC	45-1875074	SUBSIDIARY
Greenwood Resources Forest Management, LLC	47-4557075	SUBSIDIARY
GWR Uruguay S.A.		SUBSIDIARY
Greenwood Resources Colombia SAS		SUBSIDIARY

COMPANY	FEIN	RELATIONSHIP
Nuveen Alternative Holdings, LLC (continued)		
Nuveen Natural Capital, LLC (continued)		
Westchester Group Investment Management Holding Company, Inc.	27-3416812	SUBSIDIARY
Westchester Group Investment Management, Inc.	27-3417683	SUBSIDIARY
Plata Wine Partners, LLC	87-0735518	SUBSIDIARY
Terra Land Co.	37-1261935	SUBSIDIARY
The Plata Wine Partners Trust	37-6589484	SUBSIDIARY
Westchester Group Farm Management, Inc.	37-1193973	SUBSIDIARY
Westchester Group Chile Investment Management, SpA		SUBSIDIARY
Westchester Group of Europe Ltd.		SUBSIDIARY
Westchester Group SRL		SUBSIDIARY (10)
Westchester Group of Poland Sp. Z.o.o.		SUBSIDIARY
Westchester Group SRL		SUBSIDIARY (10)
Westchester Group Real Estate, Inc.	37-1194491	SUBSIDIARY
Westchester Group South America Gestao de Investimentos Ltda.		SUBSIDIARY
Westchester NGFF Investment LLC	84-3766552	SUBSIDIARY
Nuveen Real Estate Global LLC	81-4262460	SUBSIDIARY
Nuveen Global Investments LLC	26-2748598	SUBSIDIARY
Nuveen Casa Bonita SMA GP LLC	88-4085231	SUBSIDIARY
Nuveen CRED GP LLC	82-4598778	SUBSIDIARY
CRED GP LLC		SUBSIDIARY
CRED Rated Feeder GP LLC	85-2413081	SUBSIDIARY
Nuveen Real Estate U.S. Strategic Alternatives Fund I GP LLC	86-1561520	SUBSIDIARY
Nuveen Real Estate U.S. Impact Housing Fund GP LLC	88-1469500	SUBSIDIARY
Nuveen Real Estate U.S. Strategic Lab Vehicle GP LLC	88-1444180	SUBSIDIARY
Nuveen Real Estate U.S. Strategic Lab Vehicle LP	88-1443255	SUBSIDIARY
Nuveen Real Estate U.S. Strategic Lab Vehicle Holdings LP	88-2640357	SUBSIDIARY
Nuveen Real Estate U.S. Strategic Lab Vehicle REIT LLC	88-1443830	SUBSIDIARY
Nuveen Real Estate U.S. Strategic Lab Vehicle Non-REIT LLC	88-2561353	SUBSIDIARY
Nuveen Real Estate U.S. Strategic Lab Vehicle REIT Sub GP LLC		SUBSIDIARY
Nuveen Real Estate U.S. Strategic Lab Vehicle REIT Sub LP		SUBSIDIARY
U.S. Cities Retail Fund GP LLC	82-4054235	SUBSIDIARY
U.S. Cities Workplace Fund GP LLC		SUBSIDIARY
U.S. Single-Family Rental Fund I GP LLC	88-0587813	SUBSIDIARY
U.S. Single-Family Rental Fund I LP	88-0582227	SUBSIDIARY
U.S. Single-Family Rental Fund I Holding Company LLC	88-0582051	SUBSIDIARY
U.S. Strategic Industrial Fund II GP LLC	85-2037572	SUBSIDIARY
Nuveen Imajin Holdings Member LLC	85-2857187	SUBSIDIARY
Imajin Homes Holdings, LLC		SUBSIDIARY
Imajin Services LLC		SUBSIDIARY
Imajin Asset Manager LLC		SUBSIDIARY
Sparrow Realty Investment I Managing Member LLC	88-2603676	SUBSIDIARY
Nuveen Permian Investor Asset Manager Member LLC	81-5466713	SUBSIDIARY
Permian Investor Asset Manager LLC	82-0631410	SUBSIDIARY
Greenwood Resources Poland sp. Z.o.o.	85-1016335	SUBSIDIARY
Nuveen Real Estate Global Cities Advisors LLC	82-3426937	SUBSIDIARY
Nuveen Real Estate Project Management Services LLC	84-2502695	SUBSIDIARY

(1) AGR Services LLC is ultimately controlled and owned entirely by TIAA, with 99% owned by AGR Partners LLC and 1% owned by Nuveen Alternative Holdings, LLC.

(2) CAM HR Resources LLC is ultimately controlled and owned entirely by TIAA, with 99% owned by Churchill Asset Management LLC and 1% owned by Nuveen Alternative Holdings, LLC.

(3) TIAA European Farmland Fund GP LP is ultimately controlled and owned entirely by TIAA, with 50% owned by Nuveen Alternative Services, LLC and 50% owned by TEFF Holdco LLC

(4) Nuveen CP LLC is owned 79.2% by Nuveen CP Holdings 1 LLC and 0.8% by Nuveen CP Holdings 2 LLC

(5) TGAM APAC LLC is ultimately controlled and owned entirely by TIAA, with TGAM Subsidiary HC LLC, TIAA International Subsidiary HC LLC and Nuveen International Holdings LLC each owning 33.33%

(6) TGAM HK HC LLC is ultimately controlled and owned entirely by TIAA, with TGAM APAC LLC, TGAM Asia LLC, TIAA International APAC LLC and TIAA International Asia LLC each owning 25%

(7) TGAM Asia LLC is ultimately controlled and owned entirely by TIAA, with TGAM Subsidiary HC LLC, TIAA International Subsidiary HC LLC and Nuveen International Holdings LLC each owning 33.33%

(8) TIAA International APAC LLC is ultimately controlled and owned entirely by TIAA, with TGAM Subsidiary HC LLC, TIAA International Subsidiary HC LLC and Nuveen International Holdings LLC each owning 33.33%

(9) TIAA International Asia LLC is ultimately controlled and owned entirely by TIAA, with TGAM Subsidiary HC LLC, TIAA International Subsidiary HC LLC and Nuveen International Holdings LLC each owning 33.33%

(10) Westchester Group SRL is controlled and owned entirely by TIAA, with 99% owned by Westchester Group of Europe Ltd. and 1% owned by Westchester Group of Poland Sp. Z.o.o.

SCHEDULE Y - INFORMATION CONCERNING ACTIVITIES OF INSURER MEMBERS OF A HOLDING COMPANY GROUP
PART 1 - ORGANIZATIONAL CHART

STATEMENT AS OF SEPTEMBER 30, 2022 OF THE TIAA-CREF LIFE INSURANCE COMPANY

LISTING 1 (TIAA-CREF ASSET MANAGEMENT, LLC) (continued):

LISTING 2 (NUVEEN FINANCE, LLC):

COMPANY	FEIN	RELATIONSHIP	COMPANY	FEIN	RELATIONSHIP	COMPANY	FEIN	RELATIONSHIP
Nuveen Alternative Holdings, LLC (continued)			Nuveen Alternative Holdings, LLC (continued)			Nuveen Holdings 1, Inc.	81-3425820	SUBSIDIARY
TIAA International Holdings 1 Limited	46-1162850	SUBSIDIARY	Nuveen Real Estate Debt Partners II (GP) S.à.r.l		SUBSIDIARY	Nuveen Holdings, Inc.	26-0373324	SUBSIDIARY
Clean Energy Partners HoldCo LLP		SUBSIDIARY (11)	Global Real Estate Debt Partners – Fund II (UK) SCSp		AFFILIATE (13)	Nuveen Investments, Inc.	36-3817266	SUBSIDIARY
Nuveen Investment Management Holdings Limited	98-1125673	SUBSIDIARY (12)	Nuveen Real Estate Debt Partners III (GP) S.à.r.l		SUBSIDIARY	Gresham Asset Management LLC	26-0627593	SUBSIDIARY
TIAA International Holdings 2 Limited	46-1163394	SUBSIDIARY	Nuveen Switzerland GmbH		SUBSIDIARY	Gresham Investment Management LLC	20-1930384	SUBSIDIARY
Clean Energy Partners HoldCo LLP		SUBSIDIARY (11)	Nuveen Singapore Private Limited		SUBSIDIARY	Gresham Investment Management Asia Pte. Ltd.		SUBSIDIARY
Clean Energy Partners LLP		SUBSIDIARY	OMP (GP) Limited		SUBSIDIARY	NIS/R&T, Inc.	36-3253941	SUBSIDIARY
Glennmont Asset Management Limited		SUBSIDIARY	T-C Lux Investments GP S.à.r.l		SUBSIDIARY	Nuveen Alternative Investments, LLC	36-4839486	SUBSIDIARY
Clean Energy Partners CEP 2012 Limited		SUBSIDIARY	UK OM (LP1) (GP) Limited		SUBSIDIARY	Nuveen Fund Advisors, LLC	31-0942504	SUBSIDIARY
Glennmont Partners I Limited		SUBSIDIARY	UK OM (LP1) Limited		SUBSIDIARY	Nuveen Asset Management, LLC	27-4357327	SUBSIDIARY
Clean Energy Partners CEP Services Limited		SUBSIDIARY	UK OM (LP1) Limited		SUBSIDIARY	Nuveen Funds GP I, LLC		SUBSIDIARY
Glennmont Partners III S.à.r.l.		SUBSIDIARY	UK OM (LP2) (GP) Limited		SUBSIDIARY	Symphony Alternative Asset Management LLC	83-4025630	SUBSIDIARY
Glennmont Partners IV S.à.r.l.		SUBSIDIARY	UK OM (LP2) Limited		SUBSIDIARY	Symphony Risk Retention Finance LLC	94-3252504	SUBSIDIARY
Glennmont REBS Europe S.à.r.l.		SUBSIDIARY	UK OM (LP3) (GP) Limited		SUBSIDIARY	SRR 1 LLC	30-1032009	SUBSIDIARY
TIAA International Holdings 3 Limited		SUBSIDIARY	UK OM (LP3) Limited		SUBSIDIARY	Nuveen Investments Holdings, Inc.	36-7364377	SUBSIDIARY
Nuveen Investment Management Holdings Limited	98-1125673	SUBSIDIARY (12)	Nuveen Real Estate NYC Property Fund GP Member LLC	82-4266474	SUBSIDIARY	Nuveen NWQ Holdings, LLC	36-4709028	SUBSIDIARY
Nuveen Administration Ltd	98-1127648	SUBSIDIARY	New York City Property Fund GP LLC	82-4213248	SUBSIDIARY	NWQ Partners, LLC	30-0892190	SUBSIDIARY
Nuveen Europe Holdings Limited	98-1128805	SUBSIDIARY	Nuveen Real Estate Property Holdings L.L.C.	06-1217855	SUBSIDIARY	NWQ Investment Management Company, LLC	47-0875103	SUBSIDIARY
Henderson European Retail Property Fund Management Sarl		SUBSIDIARY	Casa Partners VI GP, LLC	30-0794692	SUBSIDIARY	Nuveen WCM Holdings, LLC	37-1695518	SUBSIDIARY
Nuveen Alternatives Europe S.à.r.l		SUBSIDIARY	Casa Partners VII GP, LLC	47-5190671	SUBSIDIARY	Windsor Capital Management, LLC	90-0860898	SUBSIDIARY
Nuveen Asset Management Europe S.à.r.l		SUBSIDIARY	CASA Partners VIII GP, LLC	82-4363605	SUBSIDIARY	Growth Capital GP I, LLC	81-0730906	SUBSIDIARY
Nuveen Fund Management (Jersey) Limited		SUBSIDIARY	CASA Partners IX GP, LLC	86-1845840	SUBSIDIARY	Nuveen Securities, LLC	36-2639476	SUBSIDIARY
Nuveen Management AIFM Limited		SUBSIDIARY	Global Investors GP, L.L.C.	36-4477806	SUBSIDIARY	Santa Barbara Asset Management, LLC	20-3432117	SUBSIDIARY
Nuveen Management Company (Luxembourg) No 1 S.à.r.l		SUBSIDIARY	Global Investors GP II, L.L.C.	20-2537749	SUBSIDIARY	Teachers Advisors, LLC	13-3760073	SUBSIDIARY
Nuveen Property Management (Jersey) Limited		SUBSIDIARY	Global Investors GP IV, L.L.C.	20-3070768	SUBSIDIARY	Colinvest Member LLC	82-1157427	SUBSIDIARY
Nuveen FCACO Ltd	98-1128787	SUBSIDIARY	TCAM DOF GP, LLC	26-3561391	SUBSIDIARY	Nuveen TALF Opportunity GP, LLC		SUBSIDIARY
Nuveen Investment Management International Limited		SUBSIDIARY	TCGA BT AIV, LLC	46-5367344	SUBSIDIARY			
Nuveen Group Holdings Ltd	98-1127632	SUBSIDIARY	TCGA Investor Fund GP, LLC	45-5139523	SUBSIDIARY			
Anglo-Sino Henderson Investment Consultancy (Beijing) Co Limited		SUBSIDIARY	TCGA II Investor Fund GP, LLC	47-3511076	SUBSIDIARY			
CLOF II (GP) Limited		SUBSIDIARY	TGAM International GP LLC	81-4330570	SUBSIDIARY			
CLOF II Vanquish Limited		SUBSIDIARY	TIAA Global Ag Special Member LLC	45-1532009	SUBSIDIARY			
CLOF II (No 1 GP) Limited		SUBSIDIARY	TIAA Global Ag II Special Member LLC	81-1749609	SUBSIDIARY			
CLOF II (No1 Nominee) Limited		SUBSIDIARY	T-C U.S. Super Regional Mall Fund GP LLC	47-3126089	SUBSIDIARY			
CLOF II (No 2 GP) Limited		SUBSIDIARY	U.S. Cities Industrial Fund GP LLC	36-4922991	SUBSIDIARY			
CLOF II (No 3 GP) Limited	98-1165678	SUBSIDIARY						
Enhanced Debt Carry (GP) S.à.r.l		SUBSIDIARY						
ERES APAC II (GP) S.à.r.l		SUBSIDIARY						
ERES Europe II (GP) S.à.r.l		SUBSIDIARY						
European Cities Partnership (GP) S.à.r.l		SUBSIDIARY						
European Core-Plus Logistics Fund (GP) S.à.r.l		SUBSIDIARY						
European Core Renewable Infrastructure S.à.r.l		SUBSIDIARY						
Islazul General Partner S.à.r.l		SUBSIDIARY						
Japan Alternatives Living GP Pte. Ltd.		SUBSIDIARY						
Matador LP General Partner Limited		SUBSIDIARY						
NRE Storage Portfolio Limited		SUBSIDIARY						
Nugreen Services AB		SUBSIDIARY						
Nuveen Consulting (Shanghai) Co Ltd		SUBSIDIARY						
Nuveen Corporate Secretarial Services Limited		SUBSIDIARY						
Nuveen (France) SAS		SUBSIDIARY						
Nuveen Italy Srl		SUBSIDIARY						
Nuveen Management Austria GmbH		SUBSIDIARY						
Nuveen Management Finland Oy		SUBSIDIARY						
Nuveen Operations Limited		SUBSIDIARY						
Nuveen Real Estate (Australia) Ltd.		SUBSIDIARY						
Nuveen Real Estate Debt Partners (GP) Sarl		SUBSIDIARY						

(11) Clean Energy Partners HoldCo LLP is ultimately controlled and owned entirely by TIAA, with 99% owned by TIAA International Holdings 2, Ltd. and 1% owned by TIAA International Holdings 1, Ltd.

(12) Nuveen Investment Management Holdings Limited is ultimately controlled and owned entirely by TIAA, with 99% owned by TIAA International Holdings 3, Ltd. and 1% owned by TIAA International Holdings 1, Ltd.

(13) Global Real Estate Debt Partners – Fund II (UK) SCSp is ultimately controlled by TIAA, with 18.75% owned by TIAA and 0.5% owned by Nuveen Real Estate Debt Partners II (GP) S.à.r.l.

SCHEDULE Y - INFORMATION CONCERNING ACTIVITIES OF INSURER MEMBERS OF A HOLDING COMPANY GROUP
PART 1 - ORGANIZATIONAL CHART

STATEMENT AS OF SEPTEMBER 30, 2022 OF THE TIAA-CREF LIFE INSURANCE COMPANY

LISTING 3:

COMPANY	FEIN	RELATIONSHIP
485 Properties, LLC	13-3987258	SUBSIDIARY
730 Data Centers, LLC	81-3091169	SUBSIDIARY
730 Databridge, LLC	81-3106043	SUBSIDIARY
Rocket 730 Data Bridge, LP		SUBSIDIARY
730 Fiber, LLC		SUBSIDIARY
Arcadian Infracom 1, LLC	85-2250697	SUBSIDIARY
730 Lighting, LLC		SUBSIDIARY
730 Power Development, LLC	47-2616735	SUBSIDIARY
730 Carroll, LLC		SUBSIDIARY
730 Cricket, LLC		SUBSIDIARY
730 Rail LLC		SUBSIDIARY
730 Ctrvail LLC		SUBSIDIARY
730 Telecom LLC	47-5363027	SUBSIDIARY
730 Transmission, LLC		SUBSIDIARY
730 Hotspur, LLC		SUBSIDIARY
730 Texas Forest Holdings, Inc.	13-4042885	SUBSIDIARY
730 Texas Timberlands II, Ltd.	51-0494351	SUBSIDIARY (14)
730 Texas Timberlands, Ltd.	13-4042888	SUBSIDIARY (15)
730 Texas Timberlands II, Ltd.	51-0494351	SUBSIDIARY (14)
TIAA Timberlands I LLC	13-4042888	SUBSIDIARY (15)
730 Texas Timberlands, Ltd.	13-4042888	SUBSIDIARY (15)
TIAA Timberlands II, LLC	13-4085431	SUBSIDIARY
Actoll, LLC	46-3373066	SUBSIDIARY
Broadleaf Timberland Investments, LLC	46-1952974	SUBSIDIARY
Quercus Forestland Account, LLC	26-4647417	SUBSIDIARY
Quercus Algoma Corporation		SUBSIDIARY
Quercus Algoma Land Corporation		SUBSIDIARY
Quercus West Virginia, LLC	46-2916514	SUBSIDIARY
Quercus Panama, LLC		SUBSIDIARY
Casa Student Housing Fund Holdings, LLC	47-2167228	SUBSIDIARY
PEP-TH CASA Student Housing, LLC	47-4455610	SUBSIDIARY
CSHF-PEP Purdue LLC	47-4455303	SUBSIDIARY
Ceres Agricultural Properties, LLC	56-2672630	SUBSIDIARY
Premiere Agricultural Properties, LLC	37-1555322	SUBSIDIARY
Loma del Rio Vineyards, LLC	80-0843991	SUBSIDIARY (16)
Premiere Columbia Properties, LLC	36-4620107	SUBSIDIARY
Premiere Farm Properties, LLC	30-0449681	SUBSIDIARY
Demeter Agricultural Properties II, LLC	26-3484719	SUBSIDIARY
International Agricultural Investors, LLC	26-0352203	SUBSIDIARY
IAI Australia Pty. Ltd.		SUBSIDIARY
IAI Australia Trust		SUBSIDIARY
IAI USA, LLC	26-0460488	SUBSIDIARY
International Agricultural Investors Fund II, LLC		SUBSIDIARY
IAI Australia Fund II, Pty. Ltd.		SUBSIDIARY
IAI Australia Fund II Trust		SUBSIDIARY
Churchill Junior Capital Opportunities Fund II, L.P.		SUBSIDIARY
Churchill Middle Market CLO IV Ltd.	98-1402136	SUBSIDIARY
Churchill Middle Market Senior Loan Fund, LP	81-1810508	SUBSIDIARY
Churchill Middle Market Senior Loan Fund III, LP		SUBSIDIARY
Distressed Opportunities Fund, L.P.	26-3561447	SUBSIDIARY
DWM Inclusive Finance Equity Fund II		AFFILIATE
DWM Microfinance Equity Fund I	98-0580879	AFFILIATE

COMPANY	FEIN	RELATIONSHIP
CPF/UIR JV Member LLC	81-2914954	SUBSIDIARY
CPF/UIR Joint Venture LLC	81-2928112	SUBSIDIARY
CPF 636 Sixth Avenue LLC	81-2955427	SUBSIDIARY
T-C 636 Sixth Avenue Retail LLC	47-2264739	SUBSIDIARY
CPF 856 Market Street LLC	81-2982618	SUBSIDIARY
CPF 1511 Third Avenue LLC	81-2973332	SUBSIDIARY
T-C 1608 Chestnut General Partner LLC	47-3357982	SUBSIDIARY
1608 Chestnut Partners LP	23-3049052	SUBSIDIARY (17)
T-C 1608 Chestnut Limited Partner LLC	47-3337561	SUBSIDIARY
1608 Chestnut Partners LP	23-3049052	SUBSIDIARY (17)
Demeter Agricultural Properties, LLC	26-3049305	SUBSIDIARY
Dionysus Properties, LLC	45-2632248	SUBSIDIARY
Silverado Premium Properties, LLC	94-3306131	SUBSIDIARY
Arroya Loma, LLC	68-0436609	SUBSIDIARY
Chalk Ridge Vineyard, LLC	75-3025596	SUBSIDIARY
Hobson Avenue Vineyard, LLC	20-3964695	SUBSIDIARY
Marsino Vineyard, LLC	26-1542713	SUBSIDIARY
Silverado Los Alamos Vineyards, LLC	20-2103733	SUBSIDIARY
Mesa Del Rio Vineyard, LLC	85-1933477	SUBSIDIARY
Silverado Sonoma Vineyard, LLC	20-2103788	SUBSIDIARY
SPP Napa Vineyards, LLC	68-0466083	SUBSIDIARY
Suscol Mountain Vineyards, LLC	26-3774024	SUBSIDIARY
Terra Ventosa Vineyards, LLC	26-2766605	SUBSIDIARY
Silverado Winegrowers Holdings, LLC	43-3997217	SUBSIDIARY
Silverado Winegrowers LLC	68-0443927	SUBSIDIARY
Alta Loma Vineyard, LLC	94-3357571	SUBSIDIARY
Oak Knoll Napa Vineyards, LLC	94-3312405	SUBSIDIARY
Silverado Suscol, LLC	91-1806950	SUBSIDIARY
SWG Paso Vineyard, LLC	45-4820104	SUBSIDIARY
EPP LFG I, LLC	30-0701953	AFFILIATE
Global Real Estate Debt Partners – Fund I (UK) SCSp		SUBSIDIARY (18)
Global Real Estate Debt Partners – Fund II (UK) SCSp		AFFILIATE (13)
Global Real Estate Debt Partners – Fund III (UK) SCSp		AFFILIATE
GreshamQuant Systematic Fixed Income Fund		SUBSIDIARY
Growth Capital Fund I, L.P.	81-0737062	SUBSIDIARY
Inception GP LLC		SUBSIDIARY
Infra Alpha, LLC	27-4149157	SUBSIDIARY
L.A. Teak Holdings, LLC	85-4309290	SUBSIDIARY
Apical Reforestadora S.A.		AFFILIATE
Landed Educator Retention Fund, LP	84-2323824	AFFILIATE
Lewis & Clark Timberlands, LLC	47-4169877	SUBSIDIARY
L&C Log Co, LLC	47-4187541	SUBSIDIARY
L&C Tree Farm, LLC	47-5300478	SUBSIDIARY
L&C TRS LLC	47-5300478	SUBSIDIARY
MM Funding, LLC	13-1624203	SUBSIDIARY
NGFF Holdco, LLC	84-2320652	SUBSIDIARY
Nuveen Global Farmland Fund, LP	84-1895540	SUBSIDIARY
Global Farmland Properties LLC	84-1834824	SUBSIDIARY
NGFF FFI, LLC	85-3631808	SUBSIDIARY
US Horticulture Farmland, LLC	84-1857338	SUBSIDIARY
US Row Farmland, LLC	84-1842298	SUBSIDIARY
US Viticulture Farmland, LLC	84-1880235	SUBSIDIARY

COMPANY	FEIN	RELATIONSHIP
Mansilla Participacoes LTDA		SUBSIDIARY
Radar Propriedades Agricolas S.A.		SUBSIDIARY (19)
Nova Amaralina Propriedades Agricolas S.A		SUBSIDIARY
Nova Agricola Ponte Alta S.A		SUBSIDIARY
Nova Santa Barbara Agricola S.A.		SUBSIDIARY
Terras da Ponte Alta S.P		SUBSIDIARY
Radar II Propriedades Agricolas S.A.		AFFILIATE
Aguaes de Ponte Alta S.A.		AFFILIATE
Castanheira Propriedades Agricolas S.A		AFFILIATE
Manacá Propriedades Agricolas S.A		AFFILIATE
Paineira Propriedades Agricolas S.A		AFFILIATE
Proud Participacoes S.A.		AFFILIATE
Radar Propriedades Agricolas S.A.		AFFILIATE (19)
Vale De Ponte Alta S.A.		AFFILIATE
New York City Property Fund II LP	82-4183425	SUBSIDIARY
15 Laight Street Holdings LLC	87-4474636	SUBSIDIARY
15 Laight Street Lender LLC	87-4553231	SUBSIDIARY
Cory Road REIT LLC	87-3846434	SUBSIDIARY
Cory Road Operating LP	87-3847573	SUBSIDIARY
Cory Road Associates LLC		SUBSIDIARY
Cory Road TRS LP	87-4032308	SUBSIDIARY
NYCPE II 84th Street Pooling LP	87-3783669	SUBSIDIARY
309 East 94th Street Holdings LLC		SUBSIDIARY
309 East 94th Street Associates LLC		SUBSIDIARY
New York City Property Fund REIT LLC	83-4678924	SUBSIDIARY
New York City Fund Operating GP LLC	83-4701919	SUBSIDIARY
New York City Property Fund Operating LP	83-4671194	SUBSIDIARY
125 West End Investors LLC	84-3389831	SUBSIDIARY
125 West End Holdings LLC	84-3408615	SUBSIDIARY
125 West End Associates LLC	83-4653622	SUBSIDIARY
125 West Studio Holdings LLC	84-3408615	SUBSIDIARY
Ridge Hill Holdings LLC		SUBSIDIARY
Ridge Hill Associates LLC	86-5047530	SUBSIDIARY
NBPT Aggregator LLC		SUBSIDIARY
NGTF Holdco, LLC	92-0403836	SUBSIDIARY
NRFC Inception IV, LP	46-2031403	SUBSIDIARY
NRFC Inception V, LP	46-2062147	SUBSIDIARY
Nuveen CLO Issuance Fund LP		SUBSIDIARY
Nuveen Global Impact Fund LP	84-5180286	SUBSIDIARY
Nuveen High Yield Municipal Opportunities Fund LP	83-4357309	SUBSIDIARY
Nuveen Municipal Opportunities Fund LP	83-4341275	SUBSIDIARY
Nuveen Real Estate U.S. Impact Housing Fund LP	88-1470999	SUBSIDIARY
Nuveen Real Estate U.S. Impact Housing Fund REIT LLC	88-1539505	SUBSIDIARY
Nuveen Real Estate U.S. Impact Housing Fund Operating GP LLC	88-1470626	SUBSIDIARY
Nuveen Real Estate U.S. Impact Housing Fund Operating LP	88-1472235	SUBSIDIARY
IHF FA Woodbridge Investor Member LLC	88-3423227	SUBSIDIARY
Nuveen Real Estate U.S. Single Industrial Fund I LP	81-2429791	SUBSIDIARY
Occator Agricultural Properties, LLC	26-4750562	SUBSIDIARY
AGR Agricultural Investments, LLC	46-1768969	SUBSIDIARY
Mandala Food Co-Investment Holdings II SPV		SUBSIDIARY
Canadian Infrastructure Investments, LLC	26-4248579	SUBSIDIARY
2234328 Alberta ULC	98-1523334	SUBSIDIARY
Polar Star Canadian Oil and Gas Holding, ULC		SUBSIDIARY
Oto's South Vineyard, LLC	85-1933477	SUBSIDIARY
Pinnacle Third Avenue, LP	26-3821015	AFFILIATE
Renewable Timber Europe, LLC	45-2792614	SUBSIDIARY
Renewable Timber Netherlands B.V.		SUBSIDIARY
Topola Lasy Spolka z o.o.		SUBSIDIARY
Renewable Timber Resources, LLC	61-1640765	SUBSIDIARY
REP Coinvest III TEC, L.P.		AFFILIATE

(14) 730 Texas Timberlands II, Ltd. is ultimately controlled and owned entirely by TIAA, which directly owns 99.5%. 730 Texas Forest Holdings, Inc., which is owned 100% by TIAA, owns .5%.

(15) 730 Texas Timberlands, Ltd. is ultimately controlled and owned entirely by TIAA, with 99.5% owned by TIAA Timberlands I, LLC and .5% owned by 730 Texas Forest Holdings, Inc.

(16) Loma del Rio Vineyards, LLC is ultimately controlled and owned entirely by TIAA, with 45% owned by Premiere Agricultural Properties, LLC and 55% owned by Global Ag Properties USA, LLC.

(17) 1608 Chestnut Partners LP is ultimately controlled by TIAA, with 99% owned by T-C 1608 Chestnut Limited Partner LLC and 1% owned by T-C 1608 Chestnut General Partner LLC.

(18) Global Real Estate Debt Partners – Fund I (UK) SCSp is controlled by TIAA, which owns 36.3%. T-C Lux Investments Special Limited Partnership, which is 100% owned by TIAA, owns 24.3%.

(13) Global Real Estate Debt Partners – Fund II (UK) SCSp is ultimately controlled by TIAA, with 18.75% owned by TIAA and 0.5% owned by Nuveen Real Estate Debt Partners II (GP) S.A.r.l.

(19) Radar Propriedades Agricolas S.A. is owned 65.77% by Mansilla Participacoes LTDA and 15.31% by Radar II Propriedades Agricolas S.A..

SCHEDULE Y - INFORMATION CONCERNING ACTIVITIES OF INSURER MEMBERS OF A HOLDING COMPANY GROUP
PART 1 - ORGANIZATIONAL CHART

STATEMENT AS OF SEPTEMBER 30, 2022 OF THE TIAA-CREF LIFE INSURANCE COMPANY

LISTING 3 (CONTINUED):

COMPANY	FEIN	RELATIONSHIP	COMPANY	FEIN	RELATIONSHIP	COMPANY	FEIN	RELATIONSHIP
ND Properties, Inc.	11-3034756	SUBSIDIARY	ND Properties, Inc. (continued)			T-C SV Member LLC		
Norteshopping Retail and Leisure Centre BV		SUBSIDIARY	Cityhold UK Investment S.à r.l.		AFFILIATE	T-C S-T REIT LLC		SUBSIDIARY
Norteshopping - Centro Commercial, S.A.		SUBSIDIARY	London Belgrave Unit Trust		AFFILIATE	(24) T-C The Edge at Flagler Village, LLC	81-2204918	SUBSIDIARY
ND Europe S.à r.l.		SUBSIDIARY	New Fetter Lane Unit Trust		AFFILIATE	(25) T-C Australia RE Holdings I, LLC	81-2490530	SUBSIDIARY
ND Europe Office Holding S.à r.l.		SUBSIDIARY	60 Great Portland Street Unit Trust		AFFILIATE	(26) T-C Australia RE Holdings II, LLC	81-2506975	SUBSIDIARY
Cityhold Nymphe S.à r.l.		AFFILIATE	(20) 70 St Mary Axe Unit Trust		AFFILIATE	(27) TIAA Australia Real Estate Trust		SUBSIDIARY
Cityhold Propco 11 S.à r.l.		AFFILIATE	London Belgrave Unit Trust		AFFILIATE	(24) TIAA Melbourne Retail Holding 1 Trust		SUBSIDIARY
OVG Cloud S.à r.l.		AFFILIATE	(21) CLOF Victoria Nominee 1 Limited		AFFILIATE	TGA Miller Street Trust		SUBSIDIARY
Cityhold Office Partnership S.à r.l.		AFFILIATE	(22) New Fetter Lane Unit Trust		AFFILIATE	(25) TIAA Melbourne Retail Asset 1 Trust		SUBSIDIARY
CHOP OPCI		AFFILIATE	60 Great Portland Street Unit Trust		AFFILIATE	(26) TGA Australia Real Estate Trust 2		SUBSIDIARY
Cityhold Iconic Holding SAS	98-1435873	AFFILIATE	SMA Holding S.à r.l.		AFFILIATE	TGA PBSA Hold Trust		SUBSIDIARY
Cityhold Iconic Hotel SNC	98-1433967	AFFILIATE	70 St Mary Axe Unit Trust		AFFILIATE	(27) TGA PBSA Asset Trust 1		SUBSIDIARY
Cityhold Iconic Office SCI	98-1433956	AFFILIATE	HV Properties S.à r.l.		AFFILIATE	TGA PBSA Asset Trust 2		SUBSIDIARY
Cityhold Iconic Retail SNC	98-1433960	AFFILIATE	HV Freehold S.à r.l.		AFFILIATE	TGA PBSA Asset Trust 3		SUBSIDIARY
Cityhold Iconic Youth Hostel SNC	98-1433975	AFFILIATE	TIAA Lux 9 S.à r.l.		AFFILIATE	TGA PBSA Hold Trust 2		SUBSIDIARY
Cityhold EST Investment S.à r.l.		AFFILIATE	SAS Malachite		AFFILIATE	TGA PBSA Asset Trust 4		SUBSIDIARY
Cityhold Prinses Cooperatief U.A.		AFFILIATE	SNC Garnet-TIAA		AFFILIATE	T-C Europe Holding Inc.	47-2363168	SUBSIDIARY
Cityhold Prinses AcquiCo B.V.		AFFILIATE	SNC La Defense		AFFILIATE	T-C Europe LP	47-2369576	SUBSIDIARY
Cityhold Euro S.à r.l.		AFFILIATE	SNC Lazuli		AFFILIATE	(29) T-C Europe LP		SUBSIDIARY
Cityhold Jobbe SAS		AFFILIATE	SNC Peridot		AFFILIATE	T-C Europe S.à r.l.		SUBSIDIARY
Cityhold Jobbe SCI		AFFILIATE	T-C Pep Holding S.à r.l.		SUBSIDIARY	Nightingale LuxCo S.à r.l.		SUBSIDIARY
Cityhold Nymphe S.à r.l.		AFFILIATE	(20) T-C Pep Property S.à r.l.		AFFILIATE	T-C Nordics Investment AB		SUBSIDIARY
Cityhold Propco 6 S.à r.l.		AFFILIATE	T-C Pep Asset S.à r.l.		SUBSIDIARY	Sweden Nova Lund 1 AB		SUBSIDIARY
Cityhold Iconic Hotel OPOC SAS	98-1433939	AFFILIATE	TIAA Lux 11 S.à r.l.		SUBSIDIARY	Sweden Nova Lund 2 AB		SUBSIDIARY
Cityhold Iconic Investment S.à r.l.	98-1435880	AFFILIATE	Gropius Passagen Verwaltungs GmbH		SUBSIDIARY	T-C Denmark ApS		SUBSIDIARY
Cityhold Propco 9 S.à r.l.		AFFILIATE	Gropius Passagen GmbH & Co KG		SUBSIDIARY	(28) Nordsjællandshusene 2 ApS		SUBSIDIARY
36 Rue La Fayette SAS		AFFILIATE	Gropius S.à r.l.		SUBSIDIARY	Nordsjællandshusene 3 ApS		SUBSIDIARY
SAS Roosevelt		AFFILIATE	Gropius Passagen GmbH & Co KG		SUBSIDIARY	(28) T-C Europe LuxCo 1 S.à r.l.		SUBSIDIARY
SNC Roosevelt		AFFILIATE	TIAA Lux 5 S.à r.l.		SUBSIDIARY	OBP 2700 Jersey Property Unit Trust		SUBSIDIARY
Roosevelt Participation S.à r.l.		AFFILIATE	Elfangen Arcaden GmbH & Co. KG		SUBSIDIARY	T-C Luxembourg Neptune Holdings S.à r.l.		SUBSIDIARY
SNC Roosevelt		AFFILIATE	(23) Shf-33d North Apts, LLC	47-3994280	SUBSIDIARY	T-C Neptune Holdings S.à r.l.		SUBSIDIARY
Courcelles 70 SAS		AFFILIATE	Shf-Millennium One Apts, LLC	47-4155469	SUBSIDIARY	Neptune Property Venture S.à r.l.		SUBSIDIARY
Cityhold Euro S.à r.l.		AFFILIATE	(22) Shf-The Rocks Apts, LLC	81-2450195	SUBSIDIARY	Cityhold Euro S.à r.l.		SUBSIDIARY
Cityhold Propco 10 S.à r.l.		AFFILIATE	Siguler Guff Third Avenue, L.P.	03-0543113	SUBSIDIARY	Neptune Holding Spain, S.L.		SUBSIDIARY
Cityhold Gouden Bocht B.V.		AFFILIATE	Social Infra, LLC		SUBSIDIARY	Promcat Alternativa, S.L.		SUBSIDIARY
Cityhold Gouden Bocht Monumenten B.V.		AFFILIATE	Stichting Bewaarder Ziemia Fund		AFFILIATE	Neptune Madrid Holdco S.L.		SUBSIDIARY
Redevelopment Property II B.V.	98-1438380	AFFILIATE	T-C 699 Bourke Street LLC	46-4969690	SUBSIDIARY	Neptune Nassica Propco S.L.		SUBSIDIARY
Cityhold Propco 12 S.à r.l.		AFFILIATE	T-C MV Member LLC	81-4583865	SUBSIDIARY	Neptune Getafe Propco S.L.		SUBSIDIARY
Cityhold GC Investment S.à r.l.		AFFILIATE	T-C M-T REIT LLC	81-4599024	SUBSIDIARY	Neptune Las Rozas Outlet S.L.		SUBSIDIARY
OVG Cloud S.à r.l.		AFFILIATE	T-C MV Member II LLC		SUBSIDIARY	Neptune San Sebastian Outlet S.L.		SUBSIDIARY
Cityhold Grand Central Berlin SCS		AFFILIATE	(21) T-C M-T REIT II LLC	84-3224525	SUBSIDIARY	Neptune Ursus SP, z.o.o.		SUBSIDIARY
Cityhold Sterling S.à r.l.		AFFILIATE	T-C MT II Originations TRS LLC	85-2937933	SUBSIDIARY	Neptune Krakow SP, z.o.o.		SUBSIDIARY
Cityhold UK Holding S.à r.l.		AFFILIATE	T-C Mt. Ommaney Centre Holding Company LLC	47-1954609	SUBSIDIARY	Neptune Annapol SP, z.o.o.		SUBSIDIARY
Cityhold Belgrave Operational Investment S.à r.l.		AFFILIATE	T-C Mt. Ommaney Centre LLC	47-1828871	SUBSIDIARY	T-C BS Orianey SP, z.o.o.		SUBSIDIARY
Cityhold Belgrave Operational Holding S.à r.l.		AFFILIATE	T-C Permian Investor LLC	82-1023309	SUBSIDIARY	Neptune OPCI SAS		SUBSIDIARY
Belgrave House Operational Unit Trust		AFFILIATE	T-C SBMC Joint Venture LLC	46-3007720	SUBSIDIARY	Roppenheim Holding SAS		SUBSIDIARY
Belgrave House Operational Trustee 1 Limited		AFFILIATE	PennMuni-TIAA U.S. Real Estate Fund, LLC	36-4619988	SUBSIDIARY	(30) T-C SBMC Joint Venture LLC		SUBSIDIARY
Belgrave House Operational Trustee 2 Limited		AFFILIATE				Neptune Property Holding S.à r.l.		SUBSIDIARY
						Neptune Amsterdam B.V.		SUBSIDIARY
						Neptune Gilvice Sp. z o.o.		SUBSIDIARY
						Neptune Roppenheim Holding S.à r.l.		SUBSIDIARY
						Roppenheim Holding S.à r.l.		SUBSIDIARY
						Roppenheim Outlet SNC		SUBSIDIARY
						Neptune Viculungo I S.r.l.		SUBSIDIARY
						T-C Storage Portfolio HoldCo S.à r.l.		SUBSIDIARY
						T-C Storage HoldCo AB		SUBSIDIARY
						Green S AB		SUBSIDIARY
						T-C Storage BidCo AB		SUBSIDIARY
						Blittveien 6 AS		SUBSIDIARY
						Lonningsflaten 22 Eiendom AS		SUBSIDIARY
						Skedsmo Logistik AS		SUBSIDIARY

(20) Cityhold Nymphe S.à r.l. (Nymphe) is owned by TIAA via a 25% ownership of Cityhold Office Partnership S.à r.l., which owns 88% of Nymphe, and 3% owned by wholly-owned ND Europe Office Holding S.à r.l.

(21) OVG Cloud S.à r.l. (OVG) is owned by TIAA via a 25% ownership of Cityhold Propco 11 S.à r.l. (10.1% of OVG) and Cityhold Propco 12 S.à r.l. (89.9% of OVG).

(22) Cityhold Euro S.à r.l. (CES) is owned by TIAA via a 25% ownership of Cityhold Propco 9 S.à r.l., which owns 88% of CES, and 3% owned by wholly-owned ND Europe Office Holding S.à r.l.

(23) SNC Roosevelt is owned by TIAA via a 25% ownership of Cityhold Propco 9 S.à r.l., which owns SAS Roosevelt (99.99% of SNC Roosevelt) and Roosevelt Participation S.à r.l. (0.01%).

(24) London Belgrave Unit Trust (LBUT) is owned by TIAA via a 25% ownership of Cityhold Office Partnership S.à r.l., which owns Cityhold UK Holding S.à r.l. (99.8% of LBUT) and Cityhold UK Investment S.à r.l. (0.2%).

(25) New Fetter Lane Unit Trust (NFLUT) is owned by TIAA via a 25% ownership of Cityhold Office Partnership S.à r.l., which owns Cityhold UK Holding S.à r.l. (99.9% of NFLUT) and Cityhold UK Investment S.à r.l. (0.1%).

(26) 60 Great Portland Street Unit Trust (60GPS) is owned by TIAA via a 25% ownership of Cityhold Office Partnership S.à r.l., which owns Cityhold UK Holding S.à r.l. (99.4% of 60GPS) and Cityhold UK Investment S.à r.l. (0.6%).

(27) 70 St. Mary Axe Unit Trust (SMAUT) is owned by TIAA via a 25% ownership of Cityhold Office Partnership S.à r.l., which owns SMA Holding S.à r.l. (99.9% of SMAUT) and Cityhold UK Investment S.à r.l. (0.1%).

(28) Gropius Passagen GmbH & Co KG is controlled by TIAA, and partially owned by Gropius S.à r.l. and TIAA Lux 11 S.à r.l. which owns 0.16%.

(29) T-C Europe LP is ultimately controlled and owned entirely by TIAA, with 99% owned by TIAA and 1% owned by T-C Europe Holding, Inc.

(30) Roppenheim Outlet SNC (ROSNC) is ultimately controlled by TIAA via a 61.8% ownership of Neptune Property Venture S.à r.l., which owns Roppenheim Holding SAS (99.99% of ROSNC) Neptune Roppenheim Holding S.à r.l. (0.01%).

SCHEDULE Y - INFORMATION CONCERNING ACTIVITIES OF INSURER MEMBERS OF A HOLDING COMPANY GROUP
PART 1 - ORGANIZATIONAL CHART
STATEMENT AS OF SEPTEMBER 30, 2022 OF THE TIAA-CREF LIFE INSURANCE COMPANY

LISTING 3 (CONTINUED):

COMPANY	FEIN	RELATIONSHIP	COMPANY	FEIN	RELATIONSHIP	COMPANY	FEIN	RELATIONSHIP
T-C GA Real Estate Holdings, LLC	45-2877772	SUBSIDIARY	T-C GA Real Estate Holdings, LLC (continued)			T-C Waterford Blue Lagoon General Partner, LLC		
8 Spruce Street GA Investor, LLC	46-0959792	SUBSIDIARY	The Flats Holding Company LLC	47-1379500	SUBSIDIARY	Waterford Blue Lagoon LP	47-5392075	SUBSIDIARY (33)
FC 8 Spruce Holdings, LLC	46-1403221	AFFILIATE	The Flats 130 DC Residential LLC	47-1347366	SUBSIDIARY	T-C Waterford Blue Lagoon, LLC	47-5375805	SUBSIDIARY
FC 8 Spruce Street Residential, LLC		AFFILIATE	The Flats 140 DC Residential LLC	47-1363564	SUBSIDIARY	Waterford Blue Lagoon LP	47-5392075	SUBSIDIARY (33)
2300 Broadway Storage Operator LLC	84-2144204	SUBSIDIARY	The Flats DC Grocery LLC	47-1367530	SUBSIDIARY	Westland At Waterford REIT General Partner LLC	81-0779817	SUBSIDIARY
Nuveen Global Cities REIT, Inc.	82-1419222	AFFILIATE	Nuveen Real Estate U.S. Strategic Alternatives Fund I LP	86-1702891	SUBSIDIARY	Waterford Blue Lagoon REIT General Partner LLC		SUBSIDIARY
T-C 2 Herald Square Member LLC	47-1535030	SUBSIDIARY	Nuveen Real Estate U.S. Strategic Alternatives Fund I Master Holdco LLC	87-4504685	SUBSIDIARY	Waterford Blue Lagoon REIT LP	47-5305678	SUBSIDIARY
T-C 2 Herald Square Venture LLC	47-1650509	SUBSIDIARY	Nuveen Real Estate U.S. Strategic Alternatives Fund I Holding Company LLC	86-1660063	SUBSIDIARY	5201-5301 Waterford General Partner LLC	47-5642524	SUBSIDIARY
T-C 1101 Pennsylvania Avenue LLC	47-1488131	SUBSIDIARY	SAF MOB Reno Member LLC	88-2049607	SUBSIDIARY	5200 Waterford General Partner LLC	47-5672651	SUBSIDIARY
T-C 1101 Pennsylvania Avenue Venture LLC	27-2952349	SUBSIDIARY	Nuveen Real Estate U.S. Strategic Alternatives Fund I SFR Holding Company LLC	87-3052744	SUBSIDIARY	5200 Waterford Operating LP	47-5498987	SUBSIDIARY
T-C 1101 Pennsylvania Avenue Owner LLC	27-2952617	SUBSIDIARY	SAF MP Venture Investor Member LLC	88-0701644	SUBSIDIARY	1000 Waterford General Partner LLC	81-0722154	SUBSIDIARY
T-C 33 Arch Street Member, LLC	46-1851206	SUBSIDIARY	SAF SFR Investor Member LLC		SUBSIDIARY	1000 Waterford Operating LP	47-5479437	SUBSIDIARY
T-C 33 Arch Street Venture, LLC	46-1805501	SUBSIDIARY	SAF SS Investor Member LLC	87-3223918	SUBSIDIARY	701-703 Waterford General Partner LLC	47-5445045	SUBSIDIARY
T-C 33 Arch Street, LLC	45-2792699	SUBSIDIARY	Nuveen Real Estate U.S. Strategic Alternatives Fund I Holding Company (NR) LLC	87-3113236	SUBSIDIARY	701-703 Waterford Operating LP	47-5471474	SUBSIDIARY
T-C 470 Park Avenue South Member LLC	46-1754709	SUBSIDIARY	SAF MOB Amarillo Member LLC	87-1593045	SUBSIDIARY	Waterford Core REIT General Partner LLC	82-2631273	SUBSIDIARY
T-C 470 Park Avenue South Venture LLC	46-1744112	SUBSIDIARY	SAF MOB Orange Member LLC	87-3638758	SUBSIDIARY	Waterford Core REIT LP	82-2646233	SUBSIDIARY
T-C 475 Fifth Avenue Member, LLC	46-1828055	SUBSIDIARY	T-C JK I, LLC	46-4567368	SUBSIDIARY	Waterford Core 800 REIT General Partner LLC		SUBSIDIARY
T-C 475 Fifth Avenue Venture LLC	46-1839003	SUBSIDIARY	Adeoti Empreendimentos Imobiliários Ltda		SUBSIDIARY (31)	Waterford Core 800 REIT LP	84-3541603	SUBSIDIARY
T-C 800 17th Street NW Member LLC	47-2189075	SUBSIDIARY	T-C JK II, LLC	46-4587093	SUBSIDIARY	Waterford Core II General Partner LLC	84-0733072	SUBSIDIARY
T-C 800 17th Street NW Venture LLC	47-2118640	SUBSIDIARY	Adeoti Empreendimentos Imobiliários Ltda		SUBSIDIARY (31)	Waterford Core Operating LP	47-5587163	SUBSIDIARY
T-C 888 Brannan Member LLC	47-4665824	SUBSIDIARY	T-C Lux Fund Holdings LLC	47-4095803	SUBSIDIARY	Waterford Core II Operating LP	82-2663579	SUBSIDIARY
T-C 888 Brannan Venture LLC	47-4684031	SUBSIDIARY	T-C Lux Investments Special Limited Partnership		SUBSIDIARY	TGA Boulder Creek LLC	85-4073425	SUBSIDIARY
T-C 888 Brannan Owner LLC	47-4674147	SUBSIDIARY	European Cities Partnership SCSp		AFFILIATE	TGA Bridge Creek LLC	85-4073222	SUBSIDIARY
T-C 888 Brannan TRS, LLC	47-5605380	SUBSIDIARY	Global Real Estate Debt Partners – Fund I (UK) SCSp		SUBSIDIARY (18)	TGA Bridge Point LLC	84-3441362	SUBSIDIARY
T-C 2300 Broadway, LLC	45-3479701	SUBSIDIARY	T-C UK RE Holdings I, LLC	81-2676936	SUBSIDIARY	TGA Cactus DC I LLC	84-2939313	SUBSIDIARY
T-C Aspira LLC	46-1220681	SUBSIDIARY	T-C UK RE Holdings II, LLC	81-2691474	SUBSIDIARY	TGA Cactus DC II LLC	84-2939493	SUBSIDIARY
T-C Franklin Square Member, LLC	46-1791581	SUBSIDIARY	T-C UK RE Holdings III, LLC	81-3299073	SUBSIDIARY	TGA Capital Beltway CC LLC	84-3523623	SUBSIDIARY
T-C Franklin Square Venture LLC	46-1794486	SUBSIDIARY	T-C U.S. Super Regional Mall Fund LP	47-3148337	SUBSIDIARY	TGA Center Square DC LLC	84-3487859	SUBSIDIARY
TIAA Franklin Square, LLC	26-0011770	SUBSIDIARY	TGA 10th Street Business Park LLC	84-3332496	SUBSIDIARY	TGA Centerpoints LLC	84-3314029	SUBSIDIARY
T-C Hall of States Member LLC	47-2023405	SUBSIDIARY	TGA 127-137 Franklin LLC	82-1645257	SUBSIDIARY	TGA Central Green LLC	83-3799476	SUBSIDIARY
T-C Hall of States Venture LLC	47-2034237	SUBSIDIARY	TGA 26600 26700 Aliso Viejo Parkway LLC	87-1739826	SUBSIDIARY	TGA Central Square Investor Member LLC	84-4376282	SUBSIDIARY
T-C Hall of States Owner LLC	45-4045658	SUBSIDIARY	TGA 299 Franklin LLC	81-2769108	SUBSIDIARY	TGA Central Square LLC	84-4893448	SUBSIDIARY
T-C Kings Crossing, LLC	46-1120016	SUBSIDIARY	TGA 3401 North Blvd LLC	81-3988795	SUBSIDIARY	TGACSE Central Square LLC	84-4893383	SUBSIDIARY
T-C Legacy Place Member, LLC	46-0876833	SUBSIDIARY	TGA 3851 Grandpine Way LLC	88-0637658	SUBSIDIARY	TGACSE Morningside LLC	84-4924033	SUBSIDIARY
Legacy Place Associates, LLC	46-0876833	SUBSIDIARY	TGA 600 College Road LLC	83-2548459	SUBSIDIARY	TGACSE Triangle LLC	83-0780652	SUBSIDIARY
300 Legacy Place Boulevard LLC	30-0769316	SUBSIDIARY	TGA 601D Operating Member LLC	87-1740428	SUBSIDIARY	TGA Connections at Athens Investor Member LLC	61-1892161	SUBSIDIARY
Legacy Place Properties, LLC	47-2903922	SUBSIDIARY	TGA 730 Third Avenue Owner LLC	88-0634999	SUBSIDIARY	PEP-TH Athens, LLC	83-1011296	SUBSIDIARY
T-C Republic Square Member LLC	47-2867784	SUBSIDIARY	TGA 8500 8551 Research Way LLC	82-2225812	SUBSIDIARY	PEP Athens, LLC	85-1065983	SUBSIDIARY
T-C Republic Square Venture LLC	47-3033681	SUBSIDIARY	TGA Adairsville DC LLC	98-1429292	SUBSIDIARY (32)	TGA Creekside Village Investor Member LLC	84-3740496	SUBSIDIARY
T-C Republic Square REIT LLC	47-3091198	SUBSIDIARY	TGA APAC Fund Holdings, LLC	87-4097244	SUBSIDIARY	TGA East Miraloma Industrial LLC	84-3740590	SUBSIDIARY
T-C Republic Square Mezzanine LLC	47-3091198	SUBSIDIARY	Asia Pacific Cities Fund, FCP	88-1120507	SUBSIDIARY	TGA Eastridge Investor Member LLC	87-1762569	SUBSIDIARY
TGA Cass White 75 LLC	87-3992388	SUBSIDIARY	TGA APAC RE Holdings Pte. Ltd.	88-0634999	SUBSIDIARY	TGA King EastRidge Owner LLC		SUBSIDIARY
TGA Forum on Peachtree Investor Member LLC	88-1007987	SUBSIDIARY	TGA Real Estate Fund Holdings, LLC	82-2311300	SUBSIDIARY	TGA King EastRidge Venture LLC		SUBSIDIARY
TGA NAP Forum on Peachtree Venture LLC	88-1007172	SUBSIDIARY	TGA ASI Eagles Landing Investor Member LLC	87-4097244	SUBSIDIARY	TGA Emerald Corporate Park LLC	84-3740669	SUBSIDIARY
TGA NAP Forum on Peachtree Owner LLC	88-1007172	SUBSIDIARY	TGA ASI Mission Trails Investor Member LLC	88-1120507	SUBSIDIARY	TGA Enterprise Park Business Center LLC	85-4076202	SUBSIDIARY
TGA Lonestar Investor Member LLC	88-1913177	SUBSIDIARY	TGA ASI Riverstone Investor Member LLC	86-2376987	SUBSIDIARY	TGA FC Investor Member LLC		SUBSIDIARY
TGA BSL Lonestar JV LLC	88-2029531	SUBSIDIARY	TGA ASI Sage Investor Member LLC	87-3063209	SUBSIDIARY	Fenway Center Holding 1-2, LLC	82-2708488	SUBSIDIARY
TGA BSL Lonestar Owner LLC	88-1913518	SUBSIDIARY	TGA ASI Sierra Vista Investor Member LLC	88-1120056	SUBSIDIARY	Fenway Center Owner 1-2, LLC	82-2708488	SUBSIDIARY
TGA Midway Distribution Center LLC	87-4019549	SUBSIDIARY	TGA Auburn Business Park LLC	84-3830265	SUBSIDIARY	TGA Franklin Square IC I LLC	84-3523773	SUBSIDIARY
TGA MOB 5005 McConnell Member LLC	88-0655999	SUBSIDIARY	TGA Aurora DC III LLC	84-3285557	SUBSIDIARY	TGA Franklin Square IC II LLC	84-3523813	SUBSIDIARY
TGANX MOB 5005 McConnell Venture LLC	88-0656194	SUBSIDIARY	TGA Baltimore IC LLC	84-3475931	SUBSIDIARY	TGA Freeport DC LLC	84-3332846	SUBSIDIARY
TGA MOB 5005 McConnell LLC	88-0655748	SUBSIDIARY	TGA Barnes Canyon Life Science LLC	83-1851559	SUBSIDIARY	TGA Greystone Logistics Center LLC	84-3740749	SUBSIDIARY
TGA Speedway Distribution Center LLC	88-0635252	SUBSIDIARY	TGA Beckwith Farms LLC	84-3303586	SUBSIDIARY	TGA Hagerstown DC LLC	84-3463522	SUBSIDIARY
			TGA Bedford Park LLC	84-3314123	SUBSIDIARY	TGA Hollins End LLC	84-3475313	SUBSIDIARY
						TGA I-95 DC LLC	84-3523721	SUBSIDIARY

(31) Adeoti Empreendimentos Imobiliários Ltda is ultimately controlled and owned entirely by TIAA, with 51% of ownership with T-C JK I, LLC and 49% of ownership with T-C JK II, LLC

(18) Global Real Estate Debt Partners – Fund I (UK) SCSp is controlled by TIAA, which owns 36.3%. T-C Lux Investments Special Limited Partnership, which is 100% owned by TIAA, owns 24.3%.

(32) Asia Pacific Cities Fund, FCP is owned 23.98% by TGA APAC Fund Holdings, LLC and 23.98% by TGA Real Estate Fund Holdings, LLC

(33) Waterford Blue Lagoon LP is controlled by TIAA, and partially owned indirectly by T-C Waterford Blue Lagoon LLC, which owns 50%, and T-C Waterford Blue Lagoon General Partner, LLC, which owns 1%.

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(36) U.S. Cities Office Fund Maryland Farms Co-Invest is ultimately controlled and owned entirely by TIAA, with 51% owned by USCOF Maryland Farms Holdings LLC and 49% owned by TGA Maryland Farms Holdings LLC.

SCHEDULE Y - INFORMATION CONCERNING ACTIVITIES OF INSURER MEMBERS OF A HOLDING COMPANY GROUP
PART 1 - ORGANIZATIONAL CHART

STATEMENT AS OF SEPTEMBER 30, 2022 OF THE TIAA-CREF LIFE INSURANCE COMPANY

LISTING 3 (CONTINUED):

COMPANY	FEIN	RELATIONSHIP	COMPANY	FEIN	RELATIONSHIP	COMPANY	FEIN	RELATIONSHIP
TGA SP-MPC Housing Investor Member LLC	83-2063402	SUBSIDIARY	TGA SS Self Storage Portfolio Investor Member LLC	86-1741788	SUBSIDIARY	TIAA CMBS I, LLC	13-4173396	SUBSIDIARY
TGA-SP Housing Venture I LLC	83-2147240	SUBSIDIARY	TGA SS Self Storage Tranche I Venture LP	87-2470916	SUBSIDIARY	TIAA CMBS I Trust	13-4173396	SUBSIDIARY
TGA SP-MPC Housing Venture I LLC	83-2123785	SUBSIDIARY	Seminole Storage Units I LP	83-1608525	SUBSIDIARY	TIAA Diversified Public Investments, LLC	47-4570655	SUBSIDIARY
MPSP Ashwood Homes LLC	83-1869400	SUBSIDIARY	TGA T1 SC Durbin Park LP		SUBSIDIARY	TIAA GBS Holding LLC	81-1241294	SUBSIDIARY
MPSP Ashwood MHC LLC	83-1869494	SUBSIDIARY	TGA T1 SC Millenia LP		SUBSIDIARY	TIAA GBS Singapore Holding Company Pte. Ltd.		SUBSIDIARY
MPSP Bellline Homes LLC	84-2331138	SUBSIDIARY	TGA T1 SC San Marco LP		SUBSIDIARY	TIAA Global Business Services (India) Private Limited		SUBSIDIARY
MPSP Bellline Lender LLC	84-2345909	SUBSIDIARY	TGA T1 SC San Antonio LP		SUBSIDIARY	TIAA Global Ag Holdco LLC	27-5551198	SUBSIDIARY
MPSP Bellline MHC LLC	84-2216330	SUBSIDIARY	TGA SS Self Storage Portfolio Venture LP	86-1714431	SUBSIDIARY	Global Agriculture AIV (US) LLC	45-5044364	SUBSIDIARY
MPSP Center Grove Homes LLC	83-1088601	SUBSIDIARY	TGA SC Bonita Springs LP		SUBSIDIARY	Global Agriculture AIV (US) LLC	45-5044364	SUBSIDIARY
MPSP Center Grove Lender LLC	83-2290040	SUBSIDIARY	TGA SC Gainesville LP	86-1623454	SUBSIDIARY	Loma del Rio Vineyards, LLC	80-0843991	SUBSIDIARY
MPSP Center Grove MHC LLC	83-1076792	SUBSIDIARY	TGA SC Columbus Veterans LP	86-1623724	SUBSIDIARY	Sugarloaf Vineyard, LLC	46-2577906	SUBSIDIARY
MPSP Colinas South Homes LLC	84-2158715	SUBSIDIARY	TGA SC Columbus Ford LP	86-1624012	SUBSIDIARY	Global Agriculture II AIV (US) LLC	47-1083514	SUBSIDIARY
MPSP Colinas South Lender LLC	84-2158791	SUBSIDIARY	TGA SC Global Indy I LP	86-1638763	SUBSIDIARY	Global Ag Properties II USA LLC	47-1069783	SUBSIDIARY
MPSP Colinas South MHC LLC	84-2169896	SUBSIDIARY	TGA SC Indianapolis 29th Street LP	86-1638905	SUBSIDIARY	TIAA-CREF Global Agriculture LLC	27-5551341	SUBSIDIARY
MPSP Estancia Homes LLC	84-2169973	SUBSIDIARY	TGA SC Erie Avenue LP	86-1639097	SUBSIDIARY	Global AG Properties Australia Pty. Ltd		SUBSIDIARY
MPSP Estancia Lender LLC	84-2277681	SUBSIDIARY	TGA SC Kensington LP	86-1639231	SUBSIDIARY	Global AG Properties Australia Trust		SUBSIDIARY
MPSP Estancia MHC LLC	84-1976109	SUBSIDIARY	TGA SC Germantown LP	86-1639333	SUBSIDIARY	Nova Gaia Brasil Participacao Ltda.		SUBSIDIARY
MPSP Fairlane Oaks Homes LLC	83-4260197	SUBSIDIARY	TGA SC Lancaster LP	86-1676331	SUBSIDIARY	Tellus Brasil Participaco S.A.		SUBSIDIARY
MPSP Fairlane Oaks Lender LLC	83-4283444	SUBSIDIARY	TGA SC Beaumont LP	86-1676505	SUBSIDIARY	Terraviva Brasil Participaco Ltda.		SUBSIDIARY
MPSP Fairlane Oaks MHC LLC	83-2700633	SUBSIDIARY	TGA SC Glen Head LP	86-1676505	SUBSIDIARY	Tellus Brasil Participaco S.A.		SUBSIDIARY
MPSP Lakeview Homes LLC	84-2290488	SUBSIDIARY	TGA SC Houston LP	86-1677082	SUBSIDIARY	Agrobio Investimentos e Participações S.A.		SUBSIDIARY
MPSP Lakeview Lender LLC	84-2319726	SUBSIDIARY	TGA SC Hansboro Avenue LP	86-1677222	SUBSIDIARY	Cerpon Participações S.A.		SUBSIDIARY
MPSP Lakeview MHC LLC	84-2277774	SUBSIDIARY	TGA The Warehouse at CH I Investor Member LLC	86-1548653	SUBSIDIARY	TGA The Warehouse at CH I Investor Member LLC	86-1749550	SUBSIDIARY
MPSP Lemon Tree Homes LLC	83-1213262	SUBSIDIARY	TGAP The Warehouse at CH II LLC	86-1548653	SUBSIDIARY	Tellus Bahia Propriedades Agricolas Ltda.		SUBSIDIARY
MPSP Lemon Tree MHC LLC	83-2548459	SUBSIDIARY	TGAP The Warehouse at CH II Owner LLC	86-1548790	SUBSIDIARY	Terra do Sol Propriedades Agricolas S.A.		SUBSIDIARY
MPSP Mobile Gardens Homes LLC	83-1230821	SUBSIDIARY	TGA The Yield Investor Member LLC	87-4300717	SUBSIDIARY	Terrainvest Propriedades Agricolas S.A.		SUBSIDIARY
MPSP Mobile Gardens MHC LLC	83-1230714	SUBSIDIARY	CC TGA The Yield Venture, LLC		SUBSIDIARY	Tparone Participações S.A.		SUBSIDIARY
MPSP Parker Homes LLC	84-2379528	SUBSIDIARY	CC TGA The Yield, LLC		SUBSIDIARY	Toperone Agrícola S.A.		SUBSIDIARY
MPSP Parker Lender LLC	84-2389423	SUBSIDIARY	TGA TMO Gladstone GP JV Investor Member LLC	88-0947969	SUBSIDIARY	Tpartwo Participações S.A.		SUBSIDIARY
MPSP Parker MHC LLC	84-2247177	SUBSIDIARY	TGA TMO In Portfolio Investor Member LLC	88-1150650	SUBSIDIARY	Topertwo Agrícola S.A.		SUBSIDIARY
MPSP Seven Oaks Homes LLC	84-2277774	SUBSIDIARY	TGA Tri-State Commerce Center LLC	84-3759437	SUBSIDIARY	TIAA-CREF Global Agriculture BR, LLC	45-1502187	SUBSIDIARY
MPSP Seven Oaks Lender LLC	84-2290439	SUBSIDIARY	TGA Twelve100 Apartments LLC	85-3917654	SUBSIDIARY	Nova Gaia Brasil Participacao Ltda.		SUBSIDIARY
MPSP Seven Oaks MHC LLC	84-2198856	SUBSIDIARY	TGA UMH Properties Investor Member LLC	87-3992892	SUBSIDIARY	Terraviva Brasil Participaco Ltda.		SUBSIDIARY
MPSP Shiloh Homes LLC	83-2725391	SUBSIDIARY	TGA UMH Properties Investor Member LLC	87-3992892	SUBSIDIARY	TGA UMH Properties Investor Member LLC	87-3992892	SUBSIDIARY
MPSP Shiloh MHC LLC	83-2700544	SUBSIDIARY	Sebring Square MHC TGA, LLC		SUBSIDIARY	TIAA-CREF Global Agriculture II LLC	47-1062423	SUBSIDIARY
MPSP South Concho Homes LLC	84-2428644	SUBSIDIARY	TGA University Trails Investor Member LLC	87-4552535	SUBSIDIARY	TIAA Global Public Investments, LLC	26-3594208	SUBSIDIARY
MPSP South Concho Lender LLC	84-2436652	SUBSIDIARY	TGAP University Trails LLC		SUBSIDIARY	TIAA GTR HoldCo, LLC	46-3881813	SUBSIDIARY
MPSP South Concho MHC LLC	84-2261982	SUBSIDIARY	TGAP University Trails Owner LLC		SUBSIDIARY	Global Timber Resources LLC	46-3210500	SUBSIDIARY
MPSP Stonegate Homes LLC	83-2736822	SUBSIDIARY	TGA Van Dorens West LLC	84-3830895	SUBSIDIARY	Global Timber SA LLC	46-3909387	SUBSIDIARY
MPSP Stonegate Lender LLC	83-2736936	SUBSIDIARY	TGA Vista Point South LLC	84-3441799	SUBSIDIARY	Forestal GTR Chile Limitada		SUBSIDIARY
MPSP Stonegate MHC LLC	83-2725560	SUBSIDIARY	TGA Washington DC CC LLC	84-3527380	SUBSIDIARY	Global Timber International LLC	46-3899490	SUBSIDIARY
MPSP TC GH Homes LLC	84-2319873	SUBSIDIARY	TGA Westport Distribution Center LLC	84-2939589	SUBSIDIARY	Global Timber Spain, SL		SUBSIDIARY
MPSP TC GH Lender LLC	84-2331064	SUBSIDIARY	TGA Yorktown Apartments LLC	83-0723201	SUBSIDIARY	Forestal Monterrey Colombia SAS	98-1206384	SUBSIDIARY
MPSP TC GH MHC LLC	84-2216156	SUBSIDIARY	TGAM Agribusiness Fund LP	81-1994278	SUBSIDIARY	Global Timber Resources Colombia, S.A.S.		SUBSIDIARY
MPSP TC Sherman Homes LLC	84-2389479	SUBSIDIARY	TGA-MJC MHC LLC	87-3750130	SUBSIDIARY	TGA-MJC MHC LLC	87-3750130	SUBSIDIARY
MPSP TC Sherman Lender LLC	84-2428588	SUBSIDIARY	TGA-MJC Palladian LLC	87-3750130	SUBSIDIARY	Monte Fresnos, S.A.		SUBSIDIARY
MPSP TC Sherman MHC LLC	84-2248588	SUBSIDIARY	TGA-MJC Van Alen LLC	87-3750414	SUBSIDIARY	Taurion Asociacion Agraria de Responsabilidad LTDA		SUBSIDIARY
MPSP Wildwood Acres Homes LLC	84-2345969	SUBSIDIARY	TIAA Admin LLC		SUBSIDIARY	TIAA Admin LLC	82-2861837	SUBSIDIARY
MPSP Wildwood Acres Lender LLC	84-2361787	SUBSIDIARY	TIAA CLO I Ltd		SUBSIDIARY	GT Europe Cooperatief U.A.		SUBSIDIARY
MPSP Wildwood Acres MHC LLC	84-2239609	SUBSIDIARY	TIAA CLO I LLC		SUBSIDIARY	Global Timber NL, B.V.		SUBSIDIARY
MPSP Wildwood Village Homes LLC	84-2361842	SUBSIDIARY	TIAA CLO I Holding, LLC	84-1905731	SUBSIDIARY	GTR Brasil Participacoes Ltda		SUBSIDIARY
MPSP Wildwood Village Lender LLC	84-2379481	SUBSIDIARY	TIAA CLO II Ltd		SUBSIDIARY	Brasilwood Reflorestamento S.A.		SUBSIDIARY
MPSP Wildwood Village MHC LLC	84-2239646	SUBSIDIARY	TIAA CLO II LLC		SUBSIDIARY	Brasilwood Terras Florestais S.A.		SUBSIDIARY
MPSP Windsong Homes LLC	83-2848324	SUBSIDIARY	TIAA CLO II Holding, LLC		SUBSIDIARY	Mogno das Alterosas Investimentos Florestais S.A.		SUBSIDIARY
MPSP Windsong Lender LLC	83-2848439	SUBSIDIARY	TIAA CLO III Ltd		SUBSIDIARY	Mamoneira Agropastoral S.A.		AFFILIATE
MPSP Windsong MHC LLC	83-2861026	SUBSIDIARY	TIAA CLO III LLC		SUBSIDIARY	Jatoba Brasil Investimentos Florestais Ltda		SUBSIDIARY
			TIAA CLO IV Ltd		SUBSIDIARY	Paineira Investimentos Florestais S.A.		SUBSIDIARY
						TIAA Oil and Gas Investments, LLC	45-2665869	SUBSIDIARY
						Actgas, LLC	45-1286237	SUBSIDIARY
						Actoil Bakken, LLC	46-3410649	SUBSIDIARY
						Actoil Utica, LLC	46-3628993	SUBSIDIARY

(16) Loma del Rio Vineyards, LLC is ultimately controlled and owned entirely by TIAA, with 45% owned by Premiere Agricultural Properties, LLC and 55% owned by Global Ag Properties USA, LLC.

(37) Nova Gaia Brasil Participacao Ltda. is owned 99.99% by TIAA-CREF Global Agriculture LLC and 0.01% by TIAA-CREF Global Agriculture BR, LLC.

(38) Tellus Brasil Participaco S.A. is owned 48.9% by Terraviva Brasil Participaco Ltda. and 0.47% by Nova Gaia Brasil Participaco Ltda.

(39) Terraviva Brasil Participaco Ltda. is owned 99.99% by Nova Gaia Brasil Participaco Ltda. and 0.01% by TIAA-CREF Global Agriculture BR, LLC.

SCHEDULE Y - INFORMATION CONCERNING ACTIVITIES OF INSURER MEMBERS OF A HOLDING COMPANY GROUP
PART 1 - ORGANIZATIONAL CHART

STATEMENT AS OF SEPTEMBER 30, 2022 OF THE TIAA-CREF LIFE INSURANCE COMPANY

LISTING 3 (CONTINUED):

COMPANY	FEIN	RELATIONSHIP	COMPANY	FEIN	RELATIONSHIP
TIAA FSB Holdings, Inc.	90-0615674	SUBSIDIARY	TIAA-CREF Redwood, LLC	20-5591124	SUBSIDIARY
Everbank Funding, LLC	37-1718179	SUBSIDIARY	TIAA Kapsick, LLC	20-5631854	SUBSIDIARY
TIAA, FSB	59-3531592	SUBSIDIARY	TIAA-CREF Tuition Financing, Inc.	13-4026557	SUBSIDIARY
AMC Holding, Inc.	59-3547521	SUBSIDIARY	UK PPP Investments, LP		SUBSIDIARY
Customerone Financial Network, Inc.	43-1823879	SUBSIDIARY	Wigg (Holdings) Limited		SUBSIDIARY
Business Property Lending, Inc.	36-1208070	SUBSIDIARY	Wigg Investments Limited		SUBSIDIARY
TIAA Commercial Finance, Inc.	20-0716627	SUBSIDIARY	Merseylink (Holdings) Limited		AFFILIATE
TIAA Infrastructure Investments, LLC	45-3479281	SUBSIDIARY	Merseylink (Finance) Limited		AFFILIATE
730 Darwin Holdings LLC	87-3292924	SUBSIDIARY	Merseylink (Issuer) plc		AFFILIATE
Glennmont Clean Energy Fund IV A SCSF		SUBSIDIARY	Union Property Operations NRE III LLC	87-1101091	SUBSIDIARY
730 Parking LLC	81-5307354	SUBSIDIARY	U.S. Cities Industrial Fund LP	36-4932527	AFFILIATE
730 Interpark, LLC	81-5302296	SUBSIDIARY	U.S. Cities Multifamily Fund LP	30-1108455	AFFILIATE
A-30 Canadian Transport Inc.		SUBSIDIARY	U.S. Cities Workplace Fund LP	38-4104483	SUBSIDIARY
1867 Infrastructure Holdings Inc.		SUBSIDIARY	U.S. Cities Office Fund REIT LLC	61-1914684	SUBSIDIARY
Holding 1867 NA30 Inc.		SUBSIDIARY	U.S. Cities Workplace Fund Operating GP LLC		SUBSIDIARY
I 595 Toll Road, LLC	38-3857916	SUBSIDIARY	U.S. Cities Workplace Fund Operating LP	36-4919858	SUBSIDIARY
North American Sustainable Energy Fund, L.P.	46-5279686	SUBSIDIARY	USCOF 5500 Jefferson LLC	87-4526709	SUBSIDIARY
Energy Power Investment Company, LLC		SUBSIDIARY	USCOF Maryland Farms Holdings LLC	84-4773752	SUBSIDIARY
EPP Renewable Energy, LLC		SUBSIDIARY	U.S. Cities Office Fund Maryland Farms Co-Invest	84-4775239	SUBSIDIARY
North American Sustainable Energy GP, LLC		SUBSIDIARY	VRE-NRE Maryland Farms Venture	84-4775394	SUBSIDIARY
North American Sustainable Energy Manager, LLC		SUBSIDIARY	USCOF Mobius Operating Member LLC	87-1365205	SUBSIDIARY
TIAA Realty, LLC	11-3519531	SUBSIDIARY	USCOF Optical Court LLC	85-3371600	SUBSIDIARY
T-C 77 Central LLC	81-0902394	SUBSIDIARY	U.S. Cities Retail Fund LP	82-3970010	SUBSIDIARY
T-C 680 Belleville LLC	47-2249307	SUBSIDIARY	U.S. Cities Retail Fund REIT LLC	82-4016503	SUBSIDIARY
T-C Port Northwest Development, LLC	46-2678242	SUBSIDIARY	U.S. Cities Retail Fund Operating GP LLC	82-4069923	SUBSIDIARY
TGA 70 Federal Street LLC	81-3961919	SUBSIDIARY	U.S. Cities Retail Fund Operating LP	82-4037905	SUBSIDIARY
TIAA RFS, LLC	82-2885306	SUBSIDIARY	T-C 919 N. Michigan Avenue Retail, LLC	46-0750331	SUBSIDIARY
TIAA Advisory, LLC	82-2335773	SUBSIDIARY	USCRF KRG JV Investor Member LLC		SUBSIDIARY
TIAA-CREF Insurance Agency, LLC	20-2904312	SUBSIDIARY	KRG – USCRF Retail Portfolio LLC	37-1904986	SUBSIDIARY
TIAA Shared Services, LLC	85-3343718	SUBSIDIARY	KRG 951 & 41, LLC		SUBSIDIARY
TIAA SMA Strategies, LLC	81-2755014	SUBSIDIARY	KRG Livingston Center, LLC		SUBSIDIARY
TIAA-Stonepeak Investments I, LLC	45-3029655	SUBSIDIARY	KRG-USCRF Plaza Volente, LLC		SUBSIDIARY
TIAA-Stonepeak Investments II, LLC	45-3030923	SUBSIDIARY	U.S. Core-Plus Real Estate Fund LP	82-3989257	SUBSIDIARY
TIAA Super Regional Mall Member Sub, LLC	45-3164764	SUBSIDIARY	CRED REIT LLC	82-3760575	SUBSIDIARY
T-C Super Regional Mall Venture, LLC	45-3164764	SUBSIDIARY	CRED REIT Holdco LLC	47-1938723	SUBSIDIARY
T-C International Plaza REIT LLC	46-4623585	SUBSIDIARY	CRED Glenhardie LLC	84-2113010	SUBSIDIARY
T-C International Plaza Investor GP LLC	46-4653326	SUBSIDIARY	CRED HQ LLC	85-1296109	SUBSIDIARY
T-C International Plaza Investor LP LLC	46-4680948	SUBSIDIARY	CRED REIT Holdco Alta LLC	86-3290456	SUBSIDIARY
Tampa Westshore Associates Limited Partnership	38-3173536	AFFILIATE	CRED REIT Holdco Hacienda LLC	87-1440716	SUBSIDIARY
T-C Las Vegas Retail REIT LLC	46-2713521	SUBSIDIARY	CRED REIT Holdco Phoenix Industrial LLC	87-0979505	SUBSIDIARY
T-C Las Vegas Retail Investor LLC	46-2726147	SUBSIDIARY	CRED REIT Holdco Seller LLC	83-2024014	SUBSIDIARY
Grand Canal Shoppes Holdings, LLC		AFFILIATE	CRED REIT Holdco TRS LLC	81-1392434	SUBSIDIARY
T-C Midwest REIT, LLC	45-3165203	SUBSIDIARY	CRED REIT Holdco Velocity LLC	81-1392434	SUBSIDIARY
T-C Midwest Retail, LLC	45-2211957	SUBSIDIARY	CBUT/C, LLC	82-4800804	SUBSIDIARY
T-C Montgomery Mall REIT, LLC	45-3164998	SUBSIDIARY	CRED REIT Member LP	82-5347019	SUBSIDIARY
T-C Montgomery Mall, LLC	27-4117159	SUBSIDIARY	CRED SJA 555 Mangum, LLC	87-2932666	SUBSIDIARY
Montgomery Mall of Maryland, LLC	95-4658637	SUBSIDIARY	CRED SJA Cornerstone LLC	88-1712199	SUBSIDIARY
TIAA SynGas, LLC	45-1286386	SUBSIDIARY	CRED SJA Norcross LLC	88-3419951	SUBSIDIARY
730 Catsolar, LLC	13-1624203	SUBSIDIARY	CRED SJA Sonoma LLC	88-1712389	SUBSIDIARY
TIAA Union Place Phase I, LLC	20-8892977	SUBSIDIARY	CRED SJA Vistas LLC	88-2696709	SUBSIDIARY
Union Place Phase I, LLC	20-8281443	SUBSIDIARY	CRED SJA Woodland LLC	88-3419525	SUBSIDIARY
TIAA Ventures LLC	88-3094952	SUBSIDIARY	CRED Slabtown LLC	83-3184068	SUBSIDIARY
TIAA Wind Investments, LLC	45-4486211	SUBSIDIARY	CRED West Coast Industrial LLC	83-4107560	SUBSIDIARY
Capistrano Wind Partners, LLC	45-3743502	AFFILIATE	U.S. Strategic Industrial Fund II LP	85-2116787	AFFILIATE
TIAA-CREF Individual & Institutional Services, LLC	55-0856733	SUBSIDIARY	Western A Midwest TN, LLC	84-3440905	SUBSIDIARY
TIAA-CREF LPHC, LLC	20-8384004	SUBSIDIARY	Winslow Growth Capital Fund II, L.P.	83-1931152	SUBSIDIARY
TIAA-CREF Real Property Fund GP, LLC	46-1191235	SUBSIDIARY	WRC Properties, LLC	51-0141732	SUBSIDIARY

(36)

(36) U.S. Cities Office Fund Maryland Farms Co-Invest is ultimately controlled and owned entirely by TIAA, with 51% owned by USCOF Maryland Farms Holdings LLC and 49% owned by TGA Maryland Farms Holdings LLC.

SCHEDULE Y
PART 1A - DETAIL OF INSURANCE HOLDING COMPANY SYSTEM

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Group Code	Group Name	NAIC Company Code	ID Number	Federal RSSD	CIK	Name of Securities Exchange if Publicly Traded (U.S. or International)	Names of Parent, Subsidiaries Or Affiliates	Domi-ciliary Location	Relation-ship to Reporting Entity	Directly Controlled by (Name of Entity/Person)	Type of Control (Ownership, Board, Management, Attorney-in-Fact, Influence, Other)	If Control is Owner-ship Provide Percen-tage	Ultimate Controlling Entity(ies)/Person(s)	Is an SCA Filing Re-quired? (Yes/No)	*
			13-6110585	3792687			TIAA Board of Governors	NY	UIP						
1216	Teachers Insurance and Annuity Association of America	69345	13-1624203	1607170	315038		Teachers Insurance and Annuity Association of America	NY	UDP	TIAA Board of Governors	Ownership	100.000	TIAA Board of Governors		
			45-2401857	4618298			730 Holdings, LLC	DE	NIA	TIAA Board of Governors	Ownership	100.000	TIAA Board of Governors		
			13-6022042	2378057	777535		College Retirement Equities Fund	NY	NIA	CREF Board of Governors	Board		CREF Board of Governors		
1216	Teachers Insurance and Annuity Association of America	60142	13-3917848	4314415	1429401		TIAA-CREF Life Insurance Company	NY		Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			47-1595484	4747826			Nuveen, LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			81-3407371	5042621			Nuveen Services, LLC	DE	NIA	Nuveen, LLC	Ownership	100.000	TIAA Board of Governors		
			13-3905273	4599865			TIAA-CREF Asset Management, LLC	DE	NIA	Nuveen, LLC	Ownership	100.000	TIAA Board of Governors		
			81-1272900	4952732			L&C Special Member Holdco, LLC	DE	NIA	TIAA-CREF Asset Management, LLC	Ownership	100.000	TIAA Board of Governors		
			46-3889185	4866932			GTR Special Member Holdco LLC	DE	NIA	TIAA-CREF Asset Management, LLC	Ownership	100.000	TIAA Board of Governors		
			81-4374969	5659467			TIAA International GP LLC	DE	NIA	TIAA-CREF Asset Management, LLC	Ownership	100.000	TIAA Board of Governors		
			13-3586142	4314303	887793		TIAA-CREF Investment Management, LLC	DE	NIA	TIAA-CREF Asset Management, LLC	Ownership	100.000	TIAA Board of Governors		
			46-3870972	4716541			Nuveen Alternative Holdings, LLC	DE	NIA	TIAA-CREF Asset Management, LLC	Ownership	100.000	TIAA Board of Governors		
			81-1467545	4974190			AGR Partners LLC	DE	NIA	Nuveen Alternative Holdings, LLC	Ownership	75.000	TIAA Board of Governors		
							AGR Ag Infrastructure GP, LLC	DE	NIA	AGR Partners LLC	Ownership	100.000	TIAA Board of Governors		
			36-4853278	5279520			AGR Services LLC	DE	NIA	Nuveen Alternative Holdings, LLC	Ownership	1.000	TIAA Board of Governors		100
			36-4853278	5279520			AGR Services LLC	DE	NIA	AGR Partners LLC	Ownership	99.000	TIAA Board of Governors		100
				5616938			AGR Special Opportunities GP, LLC	DE	NIA	AGR Partners LLC	Ownership	100.000	TIAA Board of Governors		
			83-4328253	5613245			Nuveen Agribusiness Fund III GP, LLC	DE	NIA	AGR Partners LLC	Ownership	100.000	TIAA Board of Governors		
			83-4307097	5652936			Nuveen Agribusiness Fund III, LP	DE	NIA	Nuveen Agribusiness Fund III GP, LLC	Management		TIAA Board of Governors		
			81-1870559	5010657			TGAM Agribusiness Fund GP LLC	DE	NIA	AGR Partners LLC	Ownership	100.000	TIAA Board of Governors		
			47-3156644	4844369			Churchill Asset Management LLC	DE	NIA	Nuveen Alternative Holdings, LLC	Ownership	75.000	TIAA Board of Governors		
			36-4851864	5083688			CAM HR Resources LLC	DE	NIA	Nuveen Alternative Holdings, LLC	Ownership	1.000	TIAA Board of Governors		200
			36-4851864	5083688			CAM HR Resources LLC	DE	NIA	Churchill Asset Management LLC	Ownership	99.000	TIAA Board of Governors		200
				5695102			CNV Investor GP, LLC	DE	NIA	Churchill Asset Management LLC	Ownership	100.000	TIAA Board of Governors		
			82-3187734	5349928			Churchill Agency Services LLC	DE	NIA	Churchill Asset Management LLC	Ownership	100.000	TIAA Board of Governors		
				5720219			Churchill Co-Investment Partners GP, LLC	DE	NIA	Churchill Asset Management LLC	Ownership	100.000	TIAA Board of Governors		
				5375132			Churchill Feeder Fund GP II S.a.r.l.	LUX	NIA	Churchill Asset Management LLC	Ownership	100.000	TIAA Board of Governors		
			83-1177850	5349937			Churchill Fund GP II LLC	DE	NIA	Churchill Asset Management LLC	Ownership	100.000	TIAA Board of Governors		
			98-1449979	5349919			Churchill Fund GP II S.a.r.l.	LUX	NIA	Churchill Asset Management LLC	Ownership	100.000	TIAA Board of Governors		
							Churchill Junior Capital Opportunities Fund II Carry-Co, LLC	DE	NIA	Churchill Asset Management LLC	Ownership	100.000	TIAA Board of Governors		
				5616545			Churchill Junior Capital Opportunities Fund II GP, LLC	DE	NIA	Churchill Asset Management LLC	Ownership	100.000	TIAA Board of Governors		
				5616536			Churchill Junior Capital Opportunities Fund II GP Sarl	LUX	NIA	Churchill Asset Management LLC	Ownership	100.000	TIAA Board of Governors		
				5616554			Churchill MMSLF Special GP LLC	DE	NIA	Churchill Asset Management LLC	Ownership	100.000	TIAA Board of Governors		
			85-3272173	5585986			Churchill Secondary Partners GP, LLC	DE	NIA	Churchill Asset Management LLC	Ownership	100.000	TIAA Board of Governors		
				5720200			Churchill Special Member LLC	DE	NIA	Churchill Asset Management LLC	Ownership	100.000	TIAA Board of Governors		
			82-0735838	5106484			Churchill Warehouse LLC	DE	NIA	Churchill Asset Management LLC	Ownership	100.000	TIAA Board of Governors		
			82-3784145	5375525			CMIC Funding GP LLC	DE	NIA	Churchill Asset Management LLC	Ownership	100.000	TIAA Board of Governors		
			87-2329839	5724413			Nuveen Churchill Administration LLC	DE	NIA	Churchill Asset Management LLC	Ownership	100.000	TIAA Board of Governors		
				5511565			Senior MPD Fund GP LLC	DE	NIA	Churchill Asset Management LLC	Ownership	100.000	TIAA Board of Governors		
			88-1339633				TGAM Churchill Fund GP LLC	DE	NIA	Churchill Asset Management LLC	Ownership	100.000	TIAA Board of Governors		
			81-1817732	5041615			Global AG AIV (CN) GP, LLC	DE	NIA	Nuveen Alternative Holdings, LLC	Ownership	100.000	TIAA Board of Governors		
			45-5044435	4867658			Global Agriculture AIV (CN), LP	DE	NIA	Global AG AIV (CN) GP, LLC	Management		TIAA Board of Governors		
			45-5044681	4867667			Global AG II AIV GP LLC	DE	NIA	Nuveen Alternative Holdings, LLC	Ownership	100.000	TIAA Board of Governors		
			47-1192644	4753564			Global Agriculture II AIV, LP	DE	NIA	Global AG II AIV GP LLC	Management		TIAA Board of Governors		
			47-1197292	4754776			GTR Investor Fund GP LLC	DE	NIA	Nuveen Alternative Holdings, LLC	Ownership	100.000	TIAA Board of Governors		
			47-1208361	4866969			NAP Investors GP, LLC	DE	NIA	Nuveen Alternative Holdings, LLC	Ownership	100.000	TIAA Board of Governors		
			83-2245173	5510120			NCBDC Holdings LLC	DE	NIA	Nuveen Alternative Holdings, LLC	Ownership	100.000	TIAA Board of Governors		
				5497584											

SCHEDULE Y
PART 1A - DETAIL OF INSURANCE HOLDING COMPANY SYSTEM

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Group Code	Group Name	NAIC Company Code	ID Number	Federal RSSD	CIK	Name of Securities Exchange if Publicly Traded (U.S. or International)	Names of Parent, Subsidiaries Or Affiliates	Domi-ciliary Location	Relation-ship to Reporting Entity	Directly Controlled by (Name of Entity/Person)	Type of Control (Ownership, Board, Management, Attorney-in-Fact, Influence, Other)	If Control is Owner-ship Provide Percen-tage	Ultimate Controlling Entity(ies)/Person(s)	Is an SCA Filing Re-quired? (Yes/No)	*
				5511622			Nuveen Churchill Advisors LLC	DE	NIA	NCBC Holdings LLC	Ownership	100.000	TIAA Board of Governors		
			88-1590237	5729940			NGC Master HoldCo LLC	DE	NIA	Nuveen Alternative Holdings, LLC	Ownership	100.000	TIAA Board of Governors		
			88-2217234				NGTF GP, LLC	DE	NIA	Nuveen Alternative Holdings, LLC	Ownership	100.000	TIAA Board of Governors		
			45-4288013	4866941			Nuveen Alternatives Advisors, LLC	DE	NIA	Nuveen Alternative Holdings, LLC	Ownership	100.000	TIAA Board of Governors		
				5656831			Churchill Fund III GP LLC	DE	NIA	Nuveen Alternatives Advisors, LLC	Ownership	100.000	TIAA Board of Governors		
				5511604			Nuveen Churchill Direct Lending Corp.	MD	NIA	Nuveen Alternatives Advisors, LLC	Ownership	100.000	TIAA Board of Governors		
			82-1917856	5652703			TPS Investors GP, LLC	DE	NIA	Nuveen Alternatives Advisors, LLC	Ownership	100.000	TIAA Board of Governors		
			45-4288091	4801858			Nuveen Alternatives Services, LLC	DE	NIA	Nuveen Alternative Holdings, LLC	Ownership	100.000	TIAA Board of Governors		
				5041697			GAP II NZ GP Limited	NZL	NIA	Nuveen Alternatives Services, LLC	Ownership	100.000	TIAA Board of Governors		
			98-1310748	5041660			TIAA European Farmland Fund GP LP	CYM	NIA	Nuveen Alternatives Services, LLC	Ownership	50.000	TIAA Board of Governors		300
			47-1515836	4802819			TCAS Global Investments LLC	DE	NIA	Nuveen Alternatives Services, LLC	Ownership	100.000	TIAA Board of Governors		
			86-3136043	5655825			Nuveen CP Holdings 1 LLC	DE	NIA	Nuveen Alternative Holdings, LLC	Ownership	100.000	TIAA Board of Governors		
			47-5515604	5657324			Nuveen CP LLC	DE	NIA	Nuveen CP Holdings 1 LLC	Ownership	79.200	TIAA Board of Governors		400
			86-3147529	5655816			Nuveen CP Holdings 2 LLC	DE	NIA	Nuveen Alternative Holdings, LLC	Ownership	100.000	TIAA Board of Governors		
			47-5515604	5657324			Nuveen CP LLC	DE	NIA	Nuveen CP Holdings 2 LLC	Ownership	0.800	TIAA Board of Governors		400
			47-3234364	5660557			Greenworks Lending LLC	DE	NIA	Nuveen CP LLC	Ownership	100.000	TIAA Board of Governors		
							Greenworks SPV LLC	DE	NIA	Greenworks Lending LLC	Ownership	100.000	TIAA Board of Governors		
			35-2597261	5660593			PACEWell 1 LLC	DE	NIA	Greenworks Lending LLC	Ownership	100.000	TIAA Board of Governors		
			30-1002711	5660614			PACEWell 2 LLC	DE	NIA	Greenworks Lending LLC	Ownership	100.000	TIAA Board of Governors		
			30-1140743	5660605			PACEWell 3 LLC	DE	NIA	Greenworks Lending LLC	Ownership	100.000	TIAA Board of Governors		
			87-1326451	5660623			PACEWell 4 LLC	DE	NIA	Greenworks Lending LLC	Ownership	100.000	TIAA Board of Governors		
			87-3650389	5678561			PACEWell 5 Depositor LLC	DE	NIA	Greenworks Lending LLC	Ownership	100.000	TIAA Board of Governors		
			87-3649944	5678570			PACEWell 5 LLC	DE	NIA	PACEWell 5 Depositor LLC	Ownership	100.000	TIAA Board of Governors		
			46-4998151	5660641			PACE Financial Servicing LLC	DE	NIA	Nuveen CP LLC	Ownership	100.000	TIAA Board of Governors		
			84-1819349	5486935			Nuveen Global Farmland Fund GP, LLC	DE	NIA	Nuveen Alternative Holdings, LLC	Ownership	100.000	TIAA Board of Governors		
			98-1638974	5487101			Nuveen Global Farmland Fund Lux GP S.à r.l.	LUX	NIA	Nuveen Global Farmland Fund GP, LLC	Ownership	100.000	TIAA Board of Governors		
			84-5180164	5599714			Nuveen Global Impact Fund GP, LLC	DE	NIA	Nuveen Alternative Holdings, LLC	Ownership	100.000	TIAA Board of Governors		
				5652776			Nuveen Global Impact Fund Lux GP S.à r.l.	LUX	NIA	Nuveen Alternative Holdings, LLC	Ownership	100.000	TIAA Board of Governors		
			26-2719001	4313155			Nuveen International Holdings LLC	DE	NIA	Nuveen Alternative Holdings, LLC	Ownership	100.000	TIAA Board of Governors		
				5659412			Nuveen Canada Company	CAN	NIA	Nuveen International Holdings LLC	Ownership	100.000	TIAA Board of Governors		
				5695166			Nuveen Japan Co., Limited	JPN	NIA	Nuveen International Holdings LLC	Ownership	100.000	TIAA Board of Governors		
							Nuveen Korea Co., Ltd.	KOR	NIA	Nuveen International Holdings LLC	Ownership	100.000	TIAA Board of Governors		
			81-4349631	5079083			TGAM Subsidiary HC LLC	DE	NIA	Nuveen International Holdings LLC	Ownership	100.000	TIAA Board of Governors		
			81-4290269	5079104			TGAM APAC LLC	DE	NIA	TGAM Subsidiary HC LLC	Ownership	33.300	TIAA Board of Governors		500
			81-4323796	5083718			TGAM HK HC LLC	DE	NIA	TGAM APAC LLC	Ownership	25.000	TIAA Board of Governors		600
				4908355			Nuveen Hong Kong Limited	HKG	NIA	TGAM HK HC LLC	Ownership	100.000	TIAA Board of Governors		
			81-4306975	5079113			TGAM Asia LLC	DE	NIA	TGAM Subsidiary HC LLC	Ownership	33.300	TIAA Board of Governors		700
			81-4323796	5083718			TGAM HK HC LLC	DE	NIA	TGAM Asia LLC	Ownership	25.000	TIAA Board of Governors		600
			81-4499397	5079122			TIAA International APAC LLC	DE	NIA	TGAM Subsidiary HC LLC	Ownership	33.300	TIAA Board of Governors		800
			81-4323796	5083718			TGAM HK HC LLC	DE	NIA	TIAA International APAC LLC	Ownership	25.000	TIAA Board of Governors		600
			81-4359164	5079131			TIAA International Asia LLC	DE	NIA	TGAM Subsidiary HC LLC	Ownership	33.300	TIAA Board of Governors		900
			81-4323796	5083718			TGAM HK HC LLC	DE	NIA	TIAA International Asia LLC	Ownership	25.000	TIAA Board of Governors		600
			81-4390558	5079092			TIAA International Subsidiary HC LLC	DE	NIA	Nuveen International Holdings LLC	Ownership	100.000	TIAA Board of Governors		
			81-4290269	5079104			TGAM APAC LLC	DE	NIA	TIAA International Subsidiary HC LLC	Ownership	33.300	TIAA Board of Governors		500
			81-4306975	5079113			TGAM Asia LLC	DE	NIA	TIAA International Subsidiary HC LLC	Ownership	33.300	TIAA Board of Governors		700
			81-4499397	5079122			TIAA International APAC LLC	DE	NIA	TIAA International Subsidiary HC LLC	Ownership	33.300	TIAA Board of Governors		800
			81-4359164	5079131			TIAA International Asia LLC	DE	NIA	TIAA International Subsidiary HC LLC	Ownership	33.300	TIAA Board of Governors		900
			81-4290269	5079104			TGAM APAC LLC	DE	NIA	Nuveen International Holdings LLC	Ownership	33.300	TIAA Board of Governors		500
			81-4306975	5079113			TGAM Asia LLC	DE	NIA	Nuveen International Holdings LLC	Ownership	33.300	TIAA Board of Governors		700
			81-4499397	5079122			TIAA International APAC LLC	DE	NIA	Nuveen International Holdings LLC	Ownership	33.300	TIAA Board of Governors		800
			81-4359164	5079131			TIAA International Asia LLC	DE	NIA	Nuveen International Holdings LLC	Ownership	33.300	TIAA Board of Governors		900
				5659403			Nuveen Junior Capital Opportunities Fund GP S.à r.l.	LUX	NIA	Nuveen Alternative Holdings, LLC	Ownership	100.000	TIAA Board of Governors		
			87-4688838	5721449			Nuveen Natural Capital, LLC	DE	NIA	Nuveen Alternative Holdings, LLC	Ownership	100.000	TIAA Board of Governors		

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Group Code	Group Name	NAIC Company Code	ID Number	Federal RSSD	CIK	Name of Securities Exchange if Publicly Traded (U.S. or International)	Names of Parent, Subsidiaries Or Affiliates	Domi-ciliary Location	Relation-ship to Reporting Entity	Directly Controlled by (Name of Entity/Person)	Type of Control (Ownership, Board, Management, Attorney-in-Fact, Influence, Other)	If Control is Ownership Provide Percen-tage	Ultimate Controlling Entity(ies)/Person(s)	Is an SCA Filing Re-quired? (Yes/No)	*
			45-5558395	4724096			Beaver Investments Holdings, LLC .....	.DE	NIA.....	Nuveen Natural Capital, LLC	Ownership.....	100.000	TIAA Board of Governors		
			80-0026976	4724108	1392090		GreenWood Resources, Inc. ....	.DE	NIA.....	Beaver Investments Holdings, LLC	Ownership.....	100.000	TIAA Board of Governors		
			45-1875074	4724153			GreenWood Resources Capital Management, LLC .....	.DE	NIA.....	GreenWood Resources, Inc.	Ownership.....	100.000	TIAA Board of Governors		
			20-8501127	4868413			GTFF GP, LLC .....	.DE	NIA.....	GreenWood Resources, Inc.	Ownership.....	100.000	TIAA Board of Governors		
			20-8955976	4867863			GWR-GTFF Investment, LLC .....	.DE	NIA.....	GreenWood Resources, Inc.	Ownership.....	100.000	TIAA Board of Governors		
			47-4557075	4887580			Greenwood Resources Forest Management, LLC .....	.DE	NIA.....	GreenWood Resources, Inc.	Ownership.....	100.000	TIAA Board of Governors		
							Greenwood Resources Forest Management, LLC			Greenwood Resources Forest Management, LLC					
			98-1016335	4868404			GreenWood Resources Poland sp Z.o.o. ....	.POL	NIA.....	Greenwood Resources Forest Management, LLC	Ownership.....	100.000	TIAA Board of Governors		
							GWR Uruguay S.A. ....	.URY	NIA.....	Greenwood Resources Forest Management, LLC	Ownership.....	100.000	TIAA Board of Governors		
				5371666			Greenwood Resources Colombia SAS .....	.COL	NIA.....	GreenWood Resources, Inc.	Ownership.....	100.000	TIAA Board of Governors		
				4796600			Westchester Group Investment Management								
			27-3416812	4312916			Holding Company, Inc. ....	.DE	NIA.....	Nuveen Natural Capital, LLC	Ownership.....	100.000	TIAA Board of Governors		
			27-3417683	4312925			Westchester Group Investment Management, Inc. ....	.DE	NIA.....	Westchester Group Investment Management	Ownership.....	100.000	TIAA Board of Governors		
							Westchester Group Investment Management, Inc.			Holding Company, Inc.	Ownership.....	100.000	TIAA Board of Governors		
			87-0735518	4746977			Plata Wine Partners, LLC .....	.CA	NIA.....	Westchester Group Investment Management, Inc.	Ownership.....	91.110	TIAA Board of Governors		
							Greenwood Resources Brasil, Ltda. ....	.BRA	NIA.....	Westchester Group Investment Management, Inc.	Ownership.....	100.000	TIAA Board of Governors		
				4961006						Westchester Group Investment Management, Inc.	Ownership.....	100.000	TIAA Board of Governors		
			37-1261935	4617693			Terra Land Co. ....	.IL	NIA.....	Westchester Group Investment Management, Inc.	Ownership.....	100.000	TIAA Board of Governors		
										Westchester Group Investment Management, Inc.	Ownership.....	100.000	TIAA Board of Governors		
			37-6589484	4747200			The Plata Wine Partners Trust .....	.CA	NIA.....	Westchester Group Investment Management, Inc.	Ownership.....	100.000	TIAA Board of Governors		
							Westchester Group Farm Management, Inc. ....	.IL	NIA.....	Westchester Group Investment Management, Inc.	Ownership.....	100.000	TIAA Board of Governors		
							Westchester Group Farm Management, Inc.			Westchester Group Investment Management, Inc.	Ownership.....	100.000	TIAA Board of Governors		
				4618207			Westchester Group of Australia Pty Ltd. ....	.AUS	NIA.....	Westchester Group Investment Management, Inc.	Ownership.....	100.000	TIAA Board of Governors		
							Westchester Group Chile Investment Management, SpA .....	.CHL	NIA.....	Westchester Group Investment Management, Inc.	Ownership.....	100.000	TIAA Board of Governors		
							Westchester Group of Europe Ltd. ....	.GBR	NIA.....	Westchester Group Investment Management, Inc.	Ownership.....	100.000	TIAA Board of Governors		
				4794482			Westchester Group SRL .....	.ROU	NIA.....	Westchester Group of Europe Ltd.	Ownership.....	99.000	TIAA Board of Governors		1000
				5279539			Westchester Group of Poland Sp. Z.o.o. ....	.POL	NIA.....	Westchester Group of Europe Ltd.	Ownership.....	100.000	TIAA Board of Governors		
				4914730			Westchester Group SRL .....	.ROU	NIA.....	Westchester Group of Poland Sp. Z.o.o.	Ownership.....	1.000	TIAA Board of Governors		1000
				5279539						Westchester Group Investment Management, Inc.	Ownership.....	100.000	TIAA Board of Governors		
			37-1194491	4618225			Westchester Group Real Estate, Inc. ....	.IL	NIA.....	Westchester Group Investment Management, Inc.	Ownership.....	100.000	TIAA Board of Governors		
							Westchester Group South America Gestao de Investimentos Ltda. ....	.BRA	NIA.....	Westchester Group Investment Management, Inc.	Ownership.....	100.000	TIAA Board of Governors		
				5280003						Westchester Group Investment Management, Inc.	Ownership.....	100.000	TIAA Board of Governors		
			84-3766552	5483541			Westchester NGFF Investment LLC .....	.DE	NIA.....	Westchester Group Investment Management, Inc.	Ownership.....	100.000	TIAA Board of Governors		
			81-4262460	5079074			Nuveen Real Estate Global LLC .....	.DE	NIA.....	Nuveen Alternative Holdings, LLC	Ownership.....	100.000	TIAA Board of Governors		
			26-2748598	4601487			Nuveen Global Investments LLC .....	.DE	NIA.....	Nuveen Real Estate Global LLC	Ownership.....	100.000	TIAA Board of Governors		
			82-2986445	5533503			Nuveen GP Holding Company LLC .....	.DE	NIA.....	Nuveen Real Estate Global LLC	Ownership.....	100.000	TIAA Board of Governors		
			82-4598778	5534685			Nuveen CRED GP Member LLC .....	.DE	NIA.....	Nuveen GP Holding Company LLC	Ownership.....	100.000	TIAA Board of Governors		
			82-3751720	5593413			CRED GP LLC .....	.DE	NIA.....	Nuveen CRED GP Member LLC	Ownership.....	50.000	TIAA Board of Governors		
			85-2413081	5593422			CRED Rated Feeder GP LLC .....	.DE	NIA.....	CRED GP LLC	Ownership.....	100.000	TIAA Board of Governors		
							Nuveen Real Estate U.S. Strategic Alternatives Fund I GP LLC .....	.DE	NIA.....	Nuveen GP Holding Company LLC	Ownership.....	100.000	TIAA Board of Governors		
			86-1561520	5618745			Nuveen Real Estate U.S. Impact Housing Fund GP LLC .....	.DE	NIA.....	Nuveen GP Holding Company LLC	Ownership.....	100.000	TIAA Board of Governors		
			88-1469500	5729203			Nuveen Real Estate U.S. Impact Housing Fund LP .....	.DE	NIA.....	Nuveen Real Estate U.S. Impact Housing Fund GP LLC	Ownership.....	100.000	TIAA Board of Governors		
			88-1470999	5729230			Nuveen Real Estate U.S. Impact Housing Fund REIT LLCDE	NIA.....	Nuveen Real Estate U.S. Impact Housing Fund LP	Ownership.....	100.000	TIAA Board of Governors		
			88-1539505	5729276											

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Group Code	Group Name	NAIC Company Code	ID Number	Federal RSSD	CIK	Name of Securities Exchange if Publicly Traded (U.S. or International)	Names of Parent, Subsidiaries Or Affiliates	Domi-ciliary Location	Relation-ship to Reporting Entity	Directly Controlled by (Name of Entity/Person)	Type of Control (Ownership, Board, Management, Attorney-in-Fact, Influence, Other)	If Control is Ownership Provide Percen-tage	Ultimate Controlling Entity(ies)/Person(s)	Is an SCA Filing Re-quired? (Yes/No)	*
			88-1470699	5729315			Nuveen Real Estate U.S. Impact Housing Fund Operating GP LLC	.DE	.NIA	Nuveen Real Estate U.S. Impact Housing Fund REIT LLC	Ownership	100.000	TIAA Board of Governors		
			88-1472235	5729306			Nuveen Real Estate U.S. Impact Housing Fund Operating LP	.DE	.NIA	Nuveen Real Estate U.S. Impact Housing Fund REIT LLC	Ownership	100.000	TIAA Board of Governors		
			88-1444180	5729137			Nuveen Real Estate U.S. Strategic Lab Vehicle GP LLC	.DE	.NIA	Nuveen GP Holding Company LLC	Ownership	100.000	TIAA Board of Governors		
			88-1443255	5729267			Nuveen Real Estate U.S. Strategic Lab Vehicle LP	.DE	.NIA	Nuveen Real Estate U.S. Strategic Lab Vehicle GP LLC	Ownership	100.000	TIAA Board of Governors		
							Nuveen Real Estate U.S. Strategic Lab Vehicle Holdings LP	.DE	.NIA	Nuveen Real Estate U.S. Strategic Lab Vehicle LP	Ownership	100.000	TIAA Board of Governors		
			88-1443830	5729324			Nuveen Real Estate U.S. Strategic Lab Vehicle REIT LLC	.DE	.NIA	Nuveen Real Estate U.S. Strategic Lab Vehicle Holdings LP	Ownership	100.000	TIAA Board of Governors		
			88-2561353				Nuveen Real Estate U.S. Strategic Lab Vehicle Non-REIT LLC	.DE	.NIA	Nuveen Real Estate U.S. Strategic Lab Vehicle LP	Ownership	100.000	TIAA Board of Governors		
				5116625			U.S. Cities Office Fund GP LLC	.DE	.NIA	Nuveen GP Holding Company LLC	Ownership	100.000	TIAA Board of Governors		
			35-2633108	5116616			U.S. Cities Multifamily Fund GP LLC	.DE	.NIA	Nuveen GP Holding Company LLC	Ownership	100.000	TIAA Board of Governors		
			82-4054235	5672019			U.S. Cities Retail Fund GP LLC	.DE	.NIA	Nuveen GP Holding Company LLC	Ownership	100.000	TIAA Board of Governors		
			88-0587813	5720170			U.S. Single-Family Rental Fund I GP LLC	.DE	.NIA	Nuveen GP Holding Company LLC	Ownership	100.000	TIAA Board of Governors		
			88-0582227	5720161			U.S. Single-Family Rental Fund I LP	.DE	.NIA	U.S. Single-Family Rental Fund I GP LLC	Ownership	100.000	TIAA Board of Governors		
							U.S. Single-Family Rental Fund I Holding Company LLC	.DE	.NIA	U.S. Single-Family Rental Fund I LP	Ownership	100.000	TIAA Board of Governors		
			85-2037572	5599705			U.S. Strategic Industrial Fund II GP LLC	.DE	.NIA	Nuveen GP Holding Company LLC	Ownership	100.000	TIAA Board of Governors		
			85-2857187	5656765			Nuveen Imajn Holdings Member LLC	.DE	.NIA	Nuveen Real Estate Global LLC	Ownership	100.000	TIAA Board of Governors		
							Imajn Homes Holdings, LLC	.DE	.NIA	Nuveen Imajn Holdings Member LLC	Ownership	72.000	TIAA Board of Governors		
							Imajn Services LLC	.DE	.NIA	Imajn Homes Holdings, LLC	Ownership	100.000	TIAA Board of Governors		
							Imajn Asset Manager LLC	.DE	.NIA	Imajn Homes Holdings, LLC	Ownership	100.000	TIAA Board of Governors		
			85-2603852	5616022			Sparrow Realty Investment I Managing Member LLC	.DE	.NIA	Imajn Homes Holdings, LLC	Ownership	100.000	TIAA Board of Governors		
			81-5466713	5157909			Nuveen Permian Investor Asset Manager Member LLC	.DE	.NIA	Nuveen Real Estate Global LLC	Ownership	100.000	TIAA Board of Governors		
			82-0631410	5613311			Permian Investor Asset Manager LLC	.DE	.NIA	Nuveen Permian Investor Asset Manager Member LLC	Ownership	50.000	TIAA Board of Governors		
			82-0607358	5137929			Nuveen Permian Investor GP Member LLC	.DE	.NIA	Nuveen Real Estate Global LLC	Ownership	50.000	TIAA Board of Governors		
							Nuveen Real Estate Global Cities Advisors LLC	.DE	.NIA	Nuveen Real Estate Global LLC	Ownership	100.000	TIAA Board of Governors		
			82-3426937	5659458			Nuveen Real Estate Project Management Services LLC	.DE	.NIA	Nuveen Real Estate Global LLC	Ownership	100.000	TIAA Board of Governors		
			84-2502695	5652794			TIAA International Holdings 1 Limited	.GBR	.NIA	Nuveen Real Estate Global LLC	Ownership	100.000	TIAA Board of Governors		
			46-1162850	4617620			Clean Energy Partners HoldCo LLP	.GBR	.NIA	TIAA International Holdings 1 Limited	Ownership	1.000	TIAA Board of Governors		1100
			46-1163394	4617639			TIAA International Holdings 2 Limited	.GBR	.NIA	Nuveen Real Estate Global LLC	Ownership	100.000	TIAA Board of Governors		
				5691908			Clean Energy Partners HoldCo LLP	.GBR	.NIA	TIAA International Holdings 2 Limited	Ownership	99.000	TIAA Board of Governors		1100
				5691917			Clean Energy Partners LLP	.GBR	.NIA	Clean Energy Partners HoldCo LLP	Ownership	100.000	TIAA Board of Governors		
				5691926			Glennmont Asset Management Limited	.GBR	.NIA	Clean Energy Partners HoldCo LLP	Ownership	100.000	TIAA Board of Governors		
				5692035			Clean Energy Partners CEP 2012 Limited	.GBR	.NIA	Glennmont Asset Management Limited	Ownership	100.000	TIAA Board of Governors		
				5692080			Glennmont Partners I Limited	.GBR	.NIA	Clean Energy Partners CEP 2012 Limited	Ownership	100.000	TIAA Board of Governors		
				5692062			Clean Energy Partners CEP Services Limited	.GBR	.NIA	Glennmont Asset Management Limited	Ownership	100.000	TIAA Board of Governors		
				5692044			Glennmont Partners III S.à r.l.	.LUX	.NIA	Glennmont Asset Management Limited	Ownership	100.000	TIAA Board of Governors		
				5692053			Glennmont Partners IV S.à r.l.	.LUX	.NIA	Glennmont Asset Management Limited	Ownership	100.000	TIAA Board of Governors		
				5692071			Glennmont REBS Europe S.à r.l.	.LUX	.NIA	Glennmont Asset Management Limited	Ownership	100.000	TIAA Board of Governors		
				4618074			TIAA International Holdings 3 Limited	.GBR	.NIA	TIAA International Holdings 2 Limited	Ownership	100.000	TIAA Board of Governors		
			98-1125673	4617705			Nuveen Investment Management Holdings Limited	.GBR	.NIA	TIAA International Holdings 3 Limited	Ownership	99.000	TIAA Board of Governors		1200
			98-1125673	4617705			Nuveen Investment Management Holdings Limited	.GBR	.NIA	TIAA International Holdings 1 Limited	Ownership	1.000	TIAA Board of Governors		1200

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Group Code	Group Name	NAIC Company Code	ID Number	Federal RSSD	CIK	Name of Securities Exchange if Publicly Traded (U.S. or International)	Names of Parent, Subsidiaries Or Affiliates	Domi-ciliary Location	Relation-ship to Reporting Entity	Directly Controlled by (Name of Entity/Person)	Type of Control (Ownership, Board, Management, Attorney-in-Fact, Influence, Other)	If Control is Owner-ship Provide Percen-tage	Ultimate Controlling Entity(ies)/Person(s)	Is an SCA Filing Re-quired? (Yes/No)	*
			98-1127648	4618195			Nuveen Administration Ltd	.GBR	.NIA	Nuveen Investment Management Holdings Limited	Ownership	100.000	TIAA Board of Governors		
			98-1128805	4618216			Nuveen Europe Holdings Limited	.GBR	.NIA	Nuveen Investment Management Holdings Limited	Ownership	100.000	TIAA Board of Governors		
			4715955				Henderson European Retail Property Fund Management Sarl	.LUX	.NIA	Nuveen Europe Holdings Limited	Ownership	94.900	TIAA Board of Governors		
			5704246				Nuveen Alternatives Europe S.à.r.l	.LUX	.NIA	Nuveen Europe Holdings Limited	Ownership	100.000	TIAA Board of Governors		
			5704237				Nuveen Asset Management Europe S.à.r.l	.LUX	.NIA	Nuveen Europe Holdings Limited	Ownership	100.000	TIAA Board of Governors		
			4716756				Nuveen Fund Management (Jersey) Limited	.JEY	.NIA	Nuveen Europe Holdings Limited	Ownership	100.000	TIAA Board of Governors		
			4716774				Nuveen Management AIFM Limited	.GBR	.NIA	Nuveen Europe Holdings Limited	Ownership	100.000	TIAA Board of Governors		
							Nuveen Management Company (Luxembourg) No 1 Sarl	.LUX	.NIA	Nuveen Europe Holdings Limited	Ownership	94.900	TIAA Board of Governors		
							Nuveen Property Management (Jersey) Limited	.JEY	.NIA	Nuveen Europe Holdings Limited	Ownership	100.000	TIAA Board of Governors		
			98-1128787	4618243			Nuveen FCACO Ltd	.GBR	.NIA	Nuveen Investment Management Holdings Limited	Ownership	100.000	TIAA Board of Governors		
							Nuveen Investment Management International Limited	.GBR	.NIA	Nuveen FCACO Ltd	Ownership	100.000	TIAA Board of Governors		
			98-1127632	4618261			Nuveen Group Holdings Ltd	.GBR	.NIA	Nuveen Investment Management Holdings Limited	Ownership	100.000	TIAA Board of Governors		
							Anglo-Sino Henderson Investment Consultancy (Beijing) Co Limited	.CHN	.NIA	Nuveen Group Holdings Ltd	Ownership	100.000	TIAA Board of Governors		
			4715311				CLOF II (GP) Limited	.GBR	.NIA	Nuveen Group Holdings Ltd	Ownership	100.000	TIAA Board of Governors		
			5154010				CLOF II Vanquish Limited	.JEY	.NIA	CLOF II (GP) Limited	Ownership	100.000	TIAA Board of Governors		
			4715263				CLOF II (No 1 GP) Limited	.GBR	.NIA	Nuveen Group Holdings Ltd	Ownership	100.000	TIAA Board of Governors		
			4841304				CLOF II (No1 Nominee) Limited	.GBR	.NIA	CLOF II (No 1 GP) Limited	Ownership	100.000	TIAA Board of Governors		
			4715281				CLOF II (No 2 GP) Limited	.GBR	.NIA	Nuveen Group Holdings Ltd	Ownership	100.000	TIAA Board of Governors		
			98-1165678	4715302			CLOF II (No 3 GP) Limited	.GBR	.NIA	Nuveen Group Holdings Ltd	Ownership	100.000	TIAA Board of Governors		
				4908328			Enhanced Debt Carry (GP) Sarl	.LUX	.NIA	Nuveen Group Holdings Ltd	Ownership	100.000	TIAA Board of Governors		
				5147003			ERES APAC II (GP) S.à.r.l	.LUX	.NIA	Nuveen Group Holdings Ltd	Ownership	100.000	TIAA Board of Governors		
				5704200			ERES Europe II (GP) S.à.r.l	.LUX	.NIA	Nuveen Group Holdings Ltd	Ownership	100.000	TIAA Board of Governors		
				4949116			European Cities Partnership (GP) S.à.r.l	.LUX	.NIA	Nuveen Group Holdings Ltd	Ownership	100.000	TIAA Board of Governors		
							European Core-Plus Logistics Fund (GP) S.à.r.l	.LUX	.NIA	Nuveen Group Holdings Ltd	Ownership	100.000	TIAA Board of Governors		
							Islazul General Partner Sarl	.LUX	.NIA	Nuveen Group Holdings Ltd	Ownership	100.000	TIAA Board of Governors		
							Japan Alternatives Living GP Pte. Ltd.	.SGP	.NIA	Nuveen Group Holdings Ltd	Ownership	100.000	TIAA Board of Governors		
			4715245				Matador LP General Partner Limited	.GBR	.NIA	Nuveen Group Holdings Ltd	Ownership	100.000	TIAA Board of Governors		
							NRE Storage Portfolio Limited	.GBR	.NIA	Nuveen Group Holdings Ltd	Ownership	100.000	TIAA Board of Governors		
							Nugreen Services AB	.SWE	.NIA	NRE Storage Portfolio Limited	Ownership	100.000	TIAA Board of Governors		
			4912763				Nuveen Consulting (Shanghai) Co Ltd	.CHN	.NIA	Nuveen Group Holdings Ltd	Ownership	100.000	TIAA Board of Governors		
							Nuveen Corporate Secretarial Services Limited	.GBR	.NIA	Nuveen Group Holdings Ltd	Ownership	100.000	TIAA Board of Governors		
							Nuveen (France) SAS	.FRA	.NIA	Nuveen Group Holdings Ltd	Ownership	100.000	TIAA Board of Governors		
							Nuveen Italy Srl	.ITA	.NIA	Nuveen Group Holdings Ltd	Ownership	100.000	TIAA Board of Governors		
							Nuveen Management Austria GmbH	.AUT	.NIA	Nuveen Group Holdings Ltd	Ownership	65.000	TIAA Board of Governors		
							Nuveen Management Finland Oy	.FIN	.NIA	Nuveen Group Holdings Ltd	Ownership	100.000	TIAA Board of Governors		
							Nuveen Operations Limited	.GBR	.NIA	Nuveen Group Holdings Ltd	Ownership	100.000	TIAA Board of Governors		
							Nuveen Real Estate (Australia) Ltd.	.AUS	.NIA	Nuveen Group Holdings Ltd	Ownership	100.000	TIAA Board of Governors		
							Nuveen Real Estate Debt Partners (GP) Sarl	.LUX	.NIA	Nuveen Group Holdings Ltd	Ownership	100.000	TIAA Board of Governors		
							Nuveen Real Estate Debt Partners II (GP) S.à.r.l	.LUX	.NIA	Nuveen Group Holdings Ltd	Ownership	100.000	TIAA Board of Governors		
							Global Real Estate Debt Partners Fund II (UK) SCSp	.LUX	.NIA	Nuveen Real Estate Debt Partners II (GP) S.à.r.l	Influence		TIAA Board of Governors		1300
							Nuveen Real Estate Debt Partners III (GP) S.à.r.l	.LUX	.NIA	Nuveen Group Holdings Ltd	Ownership	100.000	TIAA Board of Governors		

SCHEDULE Y
PART 1A - DETAIL OF INSURANCE HOLDING COMPANY SYSTEM

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Group Code	Group Name	NAIC Company Code	ID Number	Federal RSSD	CIK	Name of Securities Exchange if Publicly Traded (U.S. or International)	Names of Parent, Subsidiaries Or Affiliates	Domi-ciliary Loca-tion	Relation-ship to Reporting Entity	Directly Controlled by (Name of Entity/Person)	Type of Control (Ownership, Board, Management, Attorney-in-Fact, Influence, Other)	If Control is Owner-ship Provide Percen-tage	Ultimate Controlling Entity(ies)/Person(s)	Is an SCA Filing Re-quired? (Yes/No)	*
				4715919			Nuveen Singapore Private Limited	.SGP	NIA	Nuveen Group Holdings Ltd	Ownership	100.000	TIAA Board of Governors		
				4715254			Nuveen Switzerland GmbH	.SWZ	NIA	Nuveen Group Holdings Ltd	Ownership	100.000	TIAA Board of Governors		
				4901235			OMP (GP) Limited	.GBR	NIA	Nuveen Group Holdings Ltd	Ownership	100.000	TIAA Board of Governors		
			98-1014834	4617675			T-C Lux Investments GP Sarl	.LUX	NIA	Nuveen Group Holdings Ltd	Ownership	100.000	TIAA Board of Governors		
				5700538			TIAA-CREF Luxembourg S.a.r.l.	.LUX	NIA	Nuveen Group Holdings Ltd	Ownership	100.000	TIAA Board of Governors		
				4715272			Tokyo Multifamily GP PTE Ltd	.LUX	NIA	Nuveen Group Holdings Ltd	Ownership	100.000	TIAA Board of Governors		
				4841292			UK OM (LP1) (GP) Limited	.GBR	NIA	Nuveen Group Holdings Ltd	Ownership	100.000	TIAA Board of Governors		
				4715290			UK OM (LP1) Limited	.GBR	NIA	UK OM (LP1) (GP) Limited	Ownership	100.000	TIAA Board of Governors		
				4841283			UK OM (LP2) (GP) Limited	.GBR	NIA	Nuveen Group Holdings Ltd	Ownership	100.000	TIAA Board of Governors		
				4715320			UK OM (LP2) Limited	.GBR	NIA	UK OM (LP2) (GP) Limited	Ownership	100.000	TIAA Board of Governors		
				4841274			UK OM (LP3) (GP) Limited	.GBR	NIA	Nuveen Group Holdings Ltd	Ownership	100.000	TIAA Board of Governors		
							UK OM (LP3) Limited	.GBR	NIA	UK OM (LP3) (GP) Limited	Ownership	100.000	TIAA Board of Governors		
			82-4266474	5586518			Nuveen Real Estate NYC Property Fund GP Member LLC	.DE	NIA	Nuveen Alternative Holdings, LLC	Ownership	100.000	TIAA Board of Governors		
										Nuveen Real Estate NYC Property Fund GP Member LLC	Ownership	50.000	TIAA Board of Governors		
			82-4213248	5586545			New York City Property Fund GP LLC	.DE	NIA	Member LLC	Ownership	50.000	TIAA Board of Governors		
			06-1217855	4680325			Nuveen Real Estate Property Holdings L.L.C.	.DE	NIA	Nuveen Alternative Holdings, LLC	Ownership	100.000	TIAA Board of Governors		
										Nuveen Real Estate Property Holdings L.L.C.	Ownership	100.000	TIAA Board of Governors		
			30-0794692	4683559			Casa Partners VI GP, LLC	.DE	NIA		Ownership	100.000	TIAA Board of Governors		
										Nuveen Real Estate Property Holdings L.L.C.	Ownership	100.000	TIAA Board of Governors		
			47-5190671	4912772			Casa Partners VII GP, LLC	.DE	NIA		Ownership	100.000	TIAA Board of Governors		
										Nuveen Real Estate Property Holdings L.L.C.	Ownership	100.000	TIAA Board of Governors		
			82-4363605	5687965			Casa Partners VIII GP, LLC	.DE	NIA		Ownership	100.000	TIAA Board of Governors		
										Nuveen Real Estate Property Holdings L.L.C.	Ownership	100.000	TIAA Board of Governors		
			86-1845840	5609819			Casa Partners IX GP, LLC	.DE	NIA		Ownership	100.000	TIAA Board of Governors		
										Nuveen Real Estate Property Holdings L.L.C.	Ownership	100.000	TIAA Board of Governors		
			36-4477806	4681797			Global Investors GP, L.L.C.	.DE	NIA		Ownership	100.000	TIAA Board of Governors		
										Nuveen Real Estate Property Holdings L.L.C.	Ownership	100.000	TIAA Board of Governors		
			20-2537749	4681809			Global Investors GP II, L.L.C.	.DE	NIA		Ownership	100.000	TIAA Board of Governors		
										Nuveen Real Estate Property Holdings L.L.C.	Ownership	100.000	TIAA Board of Governors		
			20-3070768	4681818			Global Investors GP IV, L.L.C.	.DE	NIA		Ownership	100.000	TIAA Board of Governors		
			26-3561391	4863539			TCAM DOF GP, LLC	.DE	NIA	Nuveen Alternative Holdings, LLC	Ownership	100.000	TIAA Board of Governors		
			46-5367344	4747170			TOGA BT AIV, LLC	.DE	NIA	Nuveen Alternative Holdings, LLC	Ownership	100.000	TIAA Board of Governors		
			45-5139523	4867368			TOGA Investor Fund GP, LLC	.DE	NIA	Nuveen Alternative Holdings, LLC	Ownership	100.000	TIAA Board of Governors		
			47-3511076	4843278			TOGA II Investor Fund GP, LLC	.DE	NIA	Nuveen Alternative Holdings, LLC	Ownership	100.000	TIAA Board of Governors		
			81-4330570	5659449			TGAM International GP LLC	.DE	NIA	Nuveen Alternative Holdings, LLC	Ownership	100.000	TIAA Board of Governors		
			45-1532009	4801867			TIAA Global Ag Special Member LLC	.DE	NIA	Nuveen Alternative Holdings, LLC	Ownership	100.000	TIAA Board of Governors		
			81-1749609	4843287			TIAA Global Ag II Special Member LLC	.DE	NIA	Nuveen Alternative Holdings, LLC	Ownership	100.000	TIAA Board of Governors		
			47-3126089	4847388			T-C U.S. Super Regional Mall Fund GP LLC	.DE	NIA	Nuveen Alternative Holdings, LLC	Ownership	100.000	TIAA Board of Governors		
			36-4922991	5620412			U.S. Cities Industrial Fund GP LLC	.DE	NIA	Nuveen Alternative Holdings, LLC	Ownership	100.000	TIAA Board of Governors		
			47-1563437	4749941			Nuveen Finance, LLC	.DE	NIA	Nuveen, LLC	Ownership	100.000	TIAA Board of Governors		
			81-3425820	5110025			Nuveen Holdings 1, Inc.	.DE	NIA	Nuveen Finance, LLC	Ownership	100.000	TIAA Board of Governors		
			26-0373324	4767758			Nuveen Holdings, Inc.	.DE	NIA	Nuveen Holdings 1, Inc.	Ownership	100.000	TIAA Board of Governors		
			36-3817266	3707551	885708		Nuveen Investments, Inc.	.DE	NIA	Nuveen Investments, Inc.	Ownership	100.000	TIAA Board of Governors		
			26-0627593	4774710			Gresham Asset Management LLC	.DE	NIA	Nuveen Investments, Inc.	Ownership	78.900	TIAA Board of Governors		
			20-1930384	4349828			Gresham Investment Management LLC	.DE	NIA	Nuveen Investments, Inc.	Ownership	78.900	TIAA Board of Governors		
							Gresham Investment Management Asia Pte. Ltd.								
				4781941				.SGP	NIA	Gresham Investment Management LLC	Ownership	100.000	TIAA Board of Governors		
			36-3293941	5694589			NIS/R&T, Inc.	.IL	NIA	Nuveen Investments, Inc.	Ownership	100.000	TIAA Board of Governors		
			36-4839486	5153992			Nuveen Alternative Investments, LLC	.DE	NIA	Nuveen Investments, Inc.	Ownership	100.000	TIAA Board of Governors		
			31-0942504	4774792	1311016		Nuveen Fund Advisors, LLC	.DE	NIA	Nuveen Investments, Inc.	Ownership	100.000	TIAA Board of Governors		
			27-4357327	4781624	1521019		Nuveen Asset Management, LLC	.DE	NIA	Nuveen Fund Advisors, LLC	Ownership	100.000	TIAA Board of Governors		
				5719398			Nuveen Funds GP I, LLC	.DE	NIA	Nuveen Asset Management, LLC	Ownership	100.000	TIAA Board of Governors		
			83-4025630	5486681			Symphony Alternative Asset Management LLC	.DE	NIA	Nuveen Asset Management, LLC	Ownership	100.000	TIAA Board of Governors		

STATEMENT AS OF SEPTEMBER 30, 2022 OF THE TIAA-CREF LIFE INSURANCE COMPANY

SCHEDULE Y
PART 1A - DETAIL OF INSURANCE HOLDING COMPANY SYSTEM

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Group Code	Group Name	NAIC Company Code	ID Number	Federal RSSD	CIK	Name of Securities Exchange if Publicly Traded (U.S. or International)	Names of Parent, Subsidiaries Or Affiliates	Domi-ciliary Loca-tion	Rela-tion-ship to Reporting Entity	Directly Controlled by (Name of Entity/Person)	Type of Control (Ownership, Board, Management, Attorney-in-Fact, Influence, Other)	If Control is Owner-ship Provide Percen-tage	Ultimate Controlling Entity(ies)/Person(s)	Is an SCA Filing Re-quired? (Yes/No)	*
			94-3252504	5280982			Symphony Risk Retention Finance LLC	DE	NIA	Nuveen Asset Management, LLC	Ownership	100.000	TIAA Board of Governors		
			30-1032009	5354968			SRR 1 LLC	DE	NIA	Symphony Risk Retention Finance LLC	Ownership	51.000	TIAA Board of Governors		
			36-7364377	4774783			Nuveen Investments Holdings, Inc.	DE	NIA	Nuveen Investments, Inc.	Ownership	100.000	TIAA Board of Governors		
			36-4709028	4774868	1602171		Nuveen NIQ Holdings, LLC	DE	NIA	Nuveen Investments, Inc.	Ownership	100.000	TIAA Board of Governors		
			30-0892190	4981189	1661847		NIQ Partners, LLC	DE	NIA	Nuveen NIQ Holdings, LLC	Ownership	100.000	TIAA Board of Governors		
			47-0875103	4776518	763848		NIQ Investment Management Company, LLC	DE	NIA	NIQ Partners, LLC	Ownership	100.000	TIAA Board of Governors		
			37-1695518	4774831	1602161		Nuveen WCM Holdings, LLC	DE	NIA	Nuveen Investments, Inc.	Ownership	100.000	TIAA Board of Governors		
			90-0860898	4776527	900973		Winslow Capital Management, LLC	DE	NIA	Nuveen WCM Holdings, LLC	Ownership	100.000	TIAA Board of Governors		
			81-0730906	5147021			Growth Capital GP I, LLC	DE	NIA	Winslow Capital Management, LLC	Ownership	100.000	TIAA Board of Governors		
			36-2639476	4775137	73387		Nuveen Securities, LLC	DE	NIA	Nuveen Investments, Inc.	Ownership	100.000	TIAA Board of Governors		
			20-3432117	4774822	1109426		Santa Barbara Asset Management, LLC	DE	NIA	Nuveen Investments, Inc.	Ownership	100.000	TIAA Board of Governors		
			13-3760073	4313306	939222		Teachers Advisors, LLC	DE	NIA	Nuveen Finance, LLC	Ownership	100.000	TIAA Board of Governors		
			82-1157427	5659364			CoInvest Member LLC	DE	NIA	Teachers Advisors, LLC	Ownership	100.000	TIAA Board of Governors		
							Nuveen TALF Opportunity GP, LLC	DE	NIA	Teachers Advisors, LLC	Ownership	100.000	TIAA Board of Governors		
			13-3987258	4599052			485 Properties, LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			81-3091169	5026603			730 Data Centers, LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			81-3106043	5036303			730 Databridge, LLC	DE	NIA	730 Data Centers, LLC	Ownership	100.000	TIAA Board of Governors		
				5729182			Rocket 730 Data Bridge, LP	DE	NIA	730 Databridge, LLC	Ownership	99.000	TIAA Board of Governors		
				5704228			730 Fiber, LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			85-2250697	5704433			Arcadian Infracom I, LLC	DE	NIA	730 Fiber, LLC	Ownership	92.500	TIAA Board of Governors		
				5719400			730 Lighting, LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			47-2616735	4801719			730 Power Development, LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			47-2622825	4810784			730 Carroll, LLC	DE	NIA	730 Power Development, LLC	Ownership	100.000	TIAA Board of Governors		
				4949107			730 Cricket, LLC	DE	NIA	730 Power Development, LLC	Ownership	100.000	TIAA Board of Governors		
			47-5363027	4936116			730 Telecom LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
				5515518			730 Transmission, LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
				5515527			730 Hotspur, LLC	DE	NIA	730 Transmission, LLC	Ownership	100.000	TIAA Board of Governors		
			13-4042885	4599801			730 Texas Forest Holdings, Inc.	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			51-0494351	4599838			730 Texas Timberlands II, Ltd.	TX	NIA	Teachers Insurance and Annuity Association of America	Ownership	99.500	TIAA Board of Governors		1400
			51-0494351	4599838			730 Texas Timberlands II, Ltd.	TX	NIA	730 Texas Forest Holdings, Inc.	Ownership	0.500	TIAA Board of Governors		1400
			13-4040842	4601722			TIAA Timberlands I, LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			13-4085431	4601740			TIAA Timberlands II, LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			13-4042888	4601713			730 Texas Timberlands, Ltd.	TX	NIA	TIAA Timberlands I, LLC	Ownership	99.500	TIAA Board of Governors		1500
			13-4042888	4601713			730 Texas Timberlands, Ltd.	TX	NIA	730 Texas Forest Holdings, Inc.	Ownership	0.500	TIAA Board of Governors		1500
			38-3847245	4602840			Actoil, LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			46-3373066	4602916			Actoil Colorado, LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			46-1952974	4599940			Broadleaf Timberland Investments, LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			26-4647417	4601768			Quercus Forestland Account, LLC	NC	NIA	Broadleaf Timberland Investments, LLC	Ownership	100.000	TIAA Board of Governors		
				4618346			Quercus Panama, LLC	DE	NIA	Quercus Forestland Account, LLC	Ownership	99.000	TIAA Board of Governors		
				4651503			Quercus Algoma Corporation	CAN	NIA	Quercus Forestland Account, LLC	Ownership	99.000	TIAA Board of Governors		

SCHEDULE Y
PART 1A - DETAIL OF INSURANCE HOLDING COMPANY SYSTEM

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Group Code	Group Name	NAIC Company Code	ID Number	Federal RSSD	CIK	Name of Securities Exchange if Publicly Traded (U.S. or International)	Names of Parent, Subsidiaries Or Affiliates	Domi-ciliary Loca-tion	Relation-ship to Reporting Entity	Directly Controlled by (Name of Entity/Person)	Type of Control (Ownership, Board, Management, Attorney-in-Fact, Influence, Other)	If Control is Owner-ship Provide Percen-tage	Ultimate Controlling Entity(ies)/Person(s)	Is an SCA Filing Re-quired? (Yes/No)	*
			46-2916514	4860538 4613426			Quercus Algoma Land Corporation Quercus West Virginia, LLC	CAN DE	NIA NIA	Quercus Algoma Corporation Quercus Forestland Account, LLC	Ownership Ownership	100.000 97.800	TIAA Board of Governors TIAA Board of Governors		
			47-2167228 47-4455610 47-4455303 30-0965548	4776451 4990967 5194418 5195237			Casa Student Housing Fund Holdings, LLC PEP-TH CASA Student Housing, LLC CSHF-PEP Purdue LLC CSHF-PEP USF LLC	DE DE DE DE	NIA NIA NIA NIA	Teachers Insurance and Annuity Association of America Casa Student Housing Fund Holdings, LLC PEP-TH CASA Student Housing, LLC PEP-TH CASA Student Housing, LLC	Ownership Ownership Ownership Ownership	100.000 90.000 100.000 100.000	TIAA Board of Governors TIAA Board of Governors TIAA Board of Governors TIAA Board of Governors		
			56-2672630 37-1555322 80-0843991 36-4620107 30-0449681 26-3484719 26-0352203	4600033 4601816 4628596 4601825 4601834 4601843 4628372			Ceres Agricultural Properties, LLC Premiere Agricultural Properties, LLC Loma del Rio Vineyards, LLC Premiere Columbia Properties, LLC Premiere Farm Properties, LLC Demeter Agricultural Properties II, LLC International Agricultural Investors, LLC	DE DE DE DE DE DE DE	NIA NIA NIA NIA NIA NIA NIA	Teachers Insurance and Annuity Association of America Ceres Agricultural Properties, LLC Premiere Agricultural Properties, LLC Ceres Agricultural Properties, LLC Ceres Agricultural Properties, LLC Ceres Agricultural Properties, LLC Ceres Agricultural Properties, LLC	Ownership Ownership Ownership Ownership Ownership Ownership Ownership	100.000 100.000 45.000 100.000 100.000 100.000 99.240	TIAA Board of Governors TIAA Board of Governors TIAA Board of Governors TIAA Board of Governors TIAA Board of Governors TIAA Board of Governors TIAA Board of Governors		
			4633321 4633330 26-0460488 26-2745365	4633321 4633358 4633358 4628363			IAI Australia Pty., Ltd. IAI Australia Trust IAI USA, LLC International Agricultural Investors Fund II, LLC	AUS AUS DE DE	NIA NIA NIA NIA	International Agricultural Investors, LLC International Agricultural Investors, LLC International Agricultural Investors, LLC Ceres Agricultural Properties, LLC	Ownership Ownership Ownership Ownership	100.000 100.000 100.000 99.000	TIAA Board of Governors TIAA Board of Governors TIAA Board of Governors TIAA Board of Governors		
			4633303 4633312 26-2747755	4633303 4633312 4633349			IAI Australia Fund II, Pty., Ltd. IAI Australia Fund II Trust IAI USA Fund II, LLC	AUS AUS DE	NIA NIA NIA	International Agricultural Investors Fund II, LLC International Agricultural Investors Fund II, LLC International Agricultural Investors Fund II, LLC	Ownership Ownership Ownership	100.000 100.000 100.000	TIAA Board of Governors TIAA Board of Governors TIAA Board of Governors		
			98-1402136 81-1810508	5227521 5041624			Churchill Junior Capital Opportunities Fund II, L.P. Churchill Middle Market CLO IV Ltd. Churchill Middle Market Senior Loan Fund, LP	DE CYM DE	NIA NIA NIA	Teachers Insurance and Annuity Association of America Teachers Insurance and Annuity Association of America Teachers Insurance and Annuity Association of America	Management Ownership Management		TIAA Board of Governors TIAA Board of Governors TIAA Board of Governors		
			81-2914954 81-2928112 81-2955427 47-2264739 81-2982618 81-2973332 47-3357982 23-3049052 47-3337561 23-3049052	5656859 5106457 5110034 5110490 4785949 5110511 5110502 4785930 4843371 4785958 4843371			Churchill Middle Market Senior Loan Fund III, LP CPF/UIR JV Member LLC CPF/UIR Joint Venture LLC CPF 636 Sixth Avenue LLC T-C 636 Sixth Avenue Retail LLC CPF 856 Market Street LLC CPF 1511 Third Avenue LLC T-C 1608 Chestnut General Partner LLC 1608 Chestnut Partners LP T-C 1608 Chestnut Limited Partner LLC 1608 Chestnut Partners LP	DE DE DE DE DE DE DE DE DE DE DE	NIA NIA NIA NIA NIA NIA NIA NIA NIA NIA NIA	Teachers Insurance and Annuity Association of America Teachers Insurance and Annuity Association of America CPF/UIR JV Member LLC CPF/UIR Joint Venture LLC CPF 636 Sixth Avenue LLC CPF/UIR Joint Venture LLC CPF/UIR Joint Venture LLC CPF/UIR Joint Venture LLC T-C 1608 Chestnut General Partner LLC CPF/UIR Joint Venture LLC T-C 1608 Chestnut Limited Partner LLC	Management Ownership Ownership Ownership Ownership Ownership Ownership Ownership Ownership Ownership Ownership		TIAA Board of Governors TIAA Board of Governors TIAA Board of Governors TIAA Board of Governors TIAA Board of Governors TIAA Board of Governors TIAA Board of Governors TIAA Board of Governors TIAA Board of Governors TIAA Board of Governors TIAA Board of Governors		
			26-3049305 45-2632248 94-3306131 68-0436609 75-3025596 20-3964695 26-1542713	4601928 4600770 4601861 4612764 4612867 4613314 4613417			Demeter Agricultural Properties, LLC Dionysus Properties, LLC Silverado Premium Properties, LLC Arroya Loma, LLC Chalk Ridge Vineyard, LLC Hobson Avenue Vineyard, LLC Marsino Vineyard, LLC	DE DE CA DE CA CA CA	NIA NIA NIA NIA NIA NIA NIA	Teachers Insurance and Annuity Association of America Dionysus Properties, LLC Silverado Premium Properties, LLC Silverado Premium Properties, LLC Silverado Premium Properties, LLC Silverado Premium Properties, LLC Silverado Premium Properties, LLC	Ownership Ownership Ownership Ownership Ownership Ownership Ownership	100.000 100.000 100.000 100.000 100.000 100.000 100.000	TIAA Board of Governors TIAA Board of Governors TIAA Board of Governors TIAA Board of Governors TIAA Board of Governors TIAA Board of Governors TIAA Board of Governors		

SCHEDULE Y
PART 1A - DETAIL OF INSURANCE HOLDING COMPANY SYSTEM

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Group Code	Group Name	NAIC Company Code	ID Number	Federal RSSD	CIK	Name of Securities Exchange if Publicly Traded (U.S. or International)	Names of Parent, Subsidiaries Or Affiliates	Domi-ciliary Location	Relation-ship to Reporting Entity	Directly Controlled by (Name of Entity/Person)	Type of Control (Ownership, Board, Management, Attorney-in-Fact, Influence, Other)	If Control is Ownership Provide Per-centage	Ultimate Controlling Entity(ies)/Person(s)	Is an SCA Filing Re-quired? (Yes/No)	*
			20-2103733	4613864			Silverado Los Alamos Vineyards, LLC	.CA	NIA	Silverado Premium Properties, LLC	Ownership	100.000	TIAA Board of Governors		
			85-1933477	5618334			Mesa Del Rio Vineyard, LLC	.CA	NIA	Silverado Premium Properties, LLC	Ownership	100.000	TIAA Board of Governors		
			20-2490906	4613882			Silverado SLO Vineyards, LLC	.CA	NIA	Silverado Premium Properties, LLC	Ownership	100.000	TIAA Board of Governors		
			20-2103788	4613891			Silverado Sonoma Vineyard, LLC	.CA	NIA	Silverado Premium Properties, LLC	Ownership	100.000	TIAA Board of Governors		
			68-0466083	4613949			SPP Napa Vineyards, LLC	.DE	NIA	Silverado Premium Properties, LLC	Ownership	100.000	TIAA Board of Governors		
			94-3361818	4613967			Stanly Ranch Vineyards, LLC	.CA	NIA	Silverado Premium Properties, LLC	Ownership	100.000	TIAA Board of Governors		
			26-3774024	4613976			Suscol Mountain Vineyards, LLC	.CA	NIA	Silverado Premium Properties, LLC	Ownership	100.000	TIAA Board of Governors		
			26-2766605	4614665			Terra Ventosa Vineyards, LLC	.CA	NIA	Silverado Premium Properties, LLC	Ownership	100.000	TIAA Board of Governors		
			43-3997217	4601870			Silverado Winegrowers Holdings, LLC	.DE	NIA	Dionysus Properties, LLC	Ownership	100.000	TIAA Board of Governors		
			68-0443927	4613921			Silverado Winegrowers LLC	.CA	NIA	Silverado Winegrowers Holdings, LLC	Ownership	100.000	TIAA Board of Governors		
			94-3357571	4614759			Alta Loma Vineyard, LLC	.CA	NIA	Silverado Winegrowers LLC	Ownership	100.000	TIAA Board of Governors		
			94-3312405	4615671			Oak Knoll Napa Vineyards, LLC	.CA	NIA	Silverado Winegrowers LLC	Ownership	100.000	TIAA Board of Governors		
			91-1806950	4615783			Silverado Suscol, LLC	.CA	NIA	Silverado Winegrowers LLC	Ownership	100.000	TIAA Board of Governors		
			45-4820104	4617077			SWG Paso Vineyard, LLC	.CA	NIA	Silverado Winegrowers LLC	Ownership	100.000	TIAA Board of Governors		
			26-3561447	4599708	1454640		Distressed Opportunities Fund, L.P.	.DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	50.000	TIAA Board of Governors		
				4680307			DWM Inclusive Finance Equity Fund II	.LUX	NIA	Teachers Insurance and Annuity Association of America	Influence		TIAA Board of Governors		
			98-0580879	4633947			DWM Microfinance Equity Fund I	.LUX	NIA	Teachers Insurance and Annuity Association of America	Influence		TIAA Board of Governors		
			30-0701953	4633974			EPP LFG I, LLC	.DE	NIA	Teachers Insurance and Annuity Association of America	Influence		TIAA Board of Governors		
				4894805			Global Real Estate Debt Partners Fund I (UK) SCSp	.LUX	NIA	Teachers Insurance and Annuity Association of America	Ownership	36.300	TIAA Board of Governors		1800
				5485004			Global Real Estate Debt Partners Fund II (UK) SCSp	.LUX	NIA	Teachers Insurance and Annuity Association of America	Influence		TIAA Board of Governors		1300
							Global Real Estate Debt Partners Fund III (UK) SCSp	.LUX	NIA	Teachers Insurance and Annuity Association of America	Influence		TIAA Board of Governors		
							GreshamQuant Systematic Fixed Income Fund	.DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			81-0737062	4952750			Growth Capital Fund I, L.P.	.DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	94.000	TIAA Board of Governors		
				4860556			Inception GP LLC	.DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			27-4149157	4860846			Infra Alpha, LLC	.DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			85-4309290	5615892			L.A. Teak Holdings, LLC	.DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			84-2323824	5708794			Landed Educator Retention Fund, LP	.DE	NIA	Teachers Insurance and Annuity Association of America	Influence		TIAA Board of Governors		
			47-4169877	4874656			Lewis & Clark Timberlands, LLC	.DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	57.400	TIAA Board of Governors		
			47-4187541	4876436			L&C Log Co, LLC	.DE	NIA	Lewis & Clark Timberlands, LLC	Ownership	100.000	TIAA Board of Governors		
			47-4196668	4945967			L&C Tree Farms, LLC	.DE	NIA	Lewis & Clark Timberlands, LLC	Ownership	100.000	TIAA Board of Governors		
			47-5300478	4946384			L&C TRS LLC	.DE	NIA	L&C Tree Farms, LLC	Ownership	100.000	TIAA Board of Governors		
				4601852			Mansilla Participacoes LTDA	.BRA	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
				4634654			Radar Propriedades Agricolas S.A.	.BRA	NIA	Mansilla Participacoes LTDA	Ownership	65.770	TIAA Board of Governors		1900
				4643320			Nova Agricola Ponte Alta S.A.	.BRA	NIA	Radar Propriedades Agricolas S.A.	Ownership	100.000	TIAA Board of Governors		
				4643049			Nova Amaralina Propriedades Agricolas S.A.	.BRA	NIA	Radar Propriedades Agricolas S.A.	Ownership	100.000	TIAA Board of Governors		
				4643058			Nova Santa Barbara Agricola S.A.	.BRA	NIA	Radar Propriedades Agricolas S.A.	Ownership	100.000	TIAA Board of Governors		
				4644523			Terras da Ponte Alta S.A.	.BRA	NIA	Radar Propriedades Agricolas S.A.	Ownership	100.000	TIAA Board of Governors		
				4634645			Radar II Propriedades Agricolas S.A.	.BRA	NIA	Mansilla Participacoes LTDA	Influence		TIAA Board of Governors		
				4644309			Aguas da Ponte Alta S.A.	.BRA	NIA	Radar II Propriedades Agricolas S.A.	Ownership	100.000	TIAA Board of Governors		

SCHEDULE Y
PART 1A - DETAIL OF INSURANCE HOLDING COMPANY SYSTEM

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Group Code	Group Name	NAIC Company Code	ID Number	Federal RSSD	CIK	Name of Securities Exchange if Publicly Traded (U.S. or International)	Names of Parent, Subsidiaries Or Affiliates	Domi-ciliary Location	Relation-ship to Reporting Entity	Directly Controlled by (Name of Entity/Person)	Type of Control (Ownership, Board, Management, Attorney-in-Fact, Influence, Other)	If Control is Ownership Provide Per-centage	Ultimate Controlling Entity(ies)/Person(s)	Is an SCA Filing Re-quired? (Yes/No)	*
				4644318			Bioinvestments Negocios e Participacoes	.BRA	NIA	Radar II Propriedades Agricolas S.A.	Ownership	99.990	TIAA Board of Governors		
							Castanheira Propriedades Agricolas S.A	.BRA	NIA	Radar II Propriedades Agricolas S.A.	Ownership	58.550	TIAA Board of Governors		
							Manacá Propriedades Agricolas S.A	.BRA	NIA	Radar II Propriedades Agricolas S.A.	Ownership	58.550	TIAA Board of Governors		
							Paineira Propriedades Agricolas S.A	.BRA	NIA	Radar II Propriedades Agricolas S.A.	Ownership	58.550	TIAA Board of Governors		
				4643085			Proud Participacoes S.A.	.BRA	NIA	Radar II Propriedades Agricolas S.A.	Ownership	99.990	TIAA Board of Governors		
				4634654			Radar Propriedades Agricolas S.A.	.BRA	NIA	Radar II Propriedades Agricolas S.A.	Ownership	15.310	TIAA Board of Governors		1900
				4644336			Vale De Ponte Alta S.A.	.BRA	NIA	Radar II Propriedades Agricolas S.A.	Ownership	99.990	TIAA Board of Governors		
			13-1624203	5077137			MM Funding, LLC	.DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			47-0902011	5043075			MyVest Corporation	.DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
							NBPT Aggregator LLC	.DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			11-3034756	4600789			ND Properties, Inc.	.DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
				4634917			Norteshopping Retail and Leisure Centre BV	.NLD	NIA	ND Properties, Inc.	Ownership	50.000	TIAA Board of Governors		
							Norteshopping - Centro Commercial, S.A.	.PRT	NIA	Norteshopping Retail and Leisure Centre BV	Ownership	100.000	TIAA Board of Governors		
				4611824			ND Europe S.a.r.l.	.LUX	NIA	ND Properties, Inc.	Ownership	100.000	TIAA Board of Governors		
				4912781			ND Europe Office Holding S.à r.l.	.LUX	NIA	ND Europe S.a.r.l.	Ownership	100.000	TIAA Board of Governors		
				4925558			Cityhold Nymphe S.à r.l.	.LUX	NIA	ND Europe Office Holding S.à r.l.	Influence		TIAA Board of Governors		2000
				4925530			Cityhold Propco 11 S.à r.l.	.LUX	NIA	ND Europe Office Holding S.à r.l.	Influence		TIAA Board of Governors		
				5596807			OVG Cloud S.à r.l.	.LUX	NIA	Cityhold Propco 11 S.à r.l.	Ownership	10.100	TIAA Board of Governors		2100
				4914776			Cityhold Euro S.à r.l.	.LUX	NIA	ND Europe Office Holding S.à r.l.	Influence		TIAA Board of Governors		2200
				4913416			Cityhold Office Partnership S.à r.l.	.LUX	NIA	ND Europe Office Holding S.à r.l.	Influence		TIAA Board of Governors		
				5354829			CHOP OPCl	.FRA	NIA	Cityhold Office Partnership S.à r.l.	Ownership	100.000	TIAA Board of Governors		
			98-1435873	5356373			Cityhold Iconic Holding SAS	.FRA	NIA	CHOP OPCl	Ownership	100.000	TIAA Board of Governors		
			98-1433967	5371554			Cityhold Iconic Hotel SNC	.FRA	NIA	Cityhold Iconic Holding SAS	Ownership	100.000	TIAA Board of Governors		
			98-1433956	5371563			Cityhold Iconic Office SCI	.FRA	NIA	Cityhold Iconic Holding SAS	Ownership	100.000	TIAA Board of Governors		
			98-1433960	5371572			Cityhold Iconic Retail SNC	.FRA	NIA	Cityhold Iconic Holding SAS	Ownership	100.000	TIAA Board of Governors		
			98-1433975	5371590			Cityhold Iconic Youth Hostel SNC	.FRA	NIA	Cityhold Iconic Holding SAS	Ownership	100.000	TIAA Board of Governors		
				5585128			Cityhold EST Investment S.à r.l.	.LUX	NIA	Cityhold Office Partnership S.à r.l.	Ownership	100.000	TIAA Board of Governors		
				5618558			Cityhold Prinses Cooperatief U.A.	.NLD	NIA	Cityhold EST Investment S.à r.l.	Ownership	100.000	TIAA Board of Governors		
				5618567			Cityhold Prinses AcquiCo B.V.	.NLD	NIA	Cityhold Prinses Cooperatief U.A.	Ownership	100.000	TIAA Board of Governors		
				5618576			Ark Portfolio Owner Prinses B.V.	.NLD	NIA	Cityhold Prinses AcquiCo B.V.	Ownership	100.000	TIAA Board of Governors		
							Cityhold Jobbe SAS	.FRA	NIA	Cityhold Office Partnership S.à r.l.	Ownership	100.000	TIAA Board of Governors		
							Cityhold Jobbe SCI	.FRA	NIA	Cityhold Jobbe SAS	Ownership	100.000	TIAA Board of Governors		
				4925558			Cityhold Nymphe S.à r.l.	.LUX	NIA	Cityhold Office Partnership S.à r.l.	Ownership	88.000	TIAA Board of Governors		2000
				4920094			Cityhold Propco 6 S.à r.l.	.LUX	NIA	Cityhold Office Partnership S.à r.l.	Ownership	100.000	TIAA Board of Governors		
			98-1433939	5354847			Cityhold Iconic Hotel OPCO SAS	.FRA	NIA	Cityhold Propco 6 S.à r.l.	Ownership	100.000	TIAA Board of Governors		
			98-1435880	5354856			Cityhold Iconic Investment S.à r.l.	.LUX	NIA	Cityhold Propco 6 S.à r.l.	Ownership	100.000	TIAA Board of Governors		
				4925521			Cityhold Propco 9 S.à r.l.	.LUX	NIA	Cityhold Office Partnership S.à r.l.	Ownership	100.000	TIAA Board of Governors		
				4612746			36 Rue La Fayette SAS	.FRA	NIA	Cityhold Propco 9 S.à r.l.	Ownership	100.000	TIAA Board of Governors		
				4613828			SAS Roosevelt	.FRA	NIA	Cityhold Propco 9 S.à r.l.	Ownership	100.000	TIAA Board of Governors		
				4914767			Roosevelt Participation S.à r.l.	.LUX	NIA	Cityhold Propco 9 S.à r.l.	Ownership	100.000	TIAA Board of Governors		
				4615578			SNC Roosevelt	.FRA	NIA	SAS Roosevelt	Ownership	99.990	TIAA Board of Governors		2300
				4615578			SNC Roosevelt	.FRA	NIA	Roosevelt Participation S.à r.l.	Ownership	0.010	TIAA Board of Governors		2300
				4612876			Courcelles 70 SAS	.FRA	NIA	Cityhold Propco 9 S.à r.l.	Ownership	100.000	TIAA Board of Governors		
				4914776			Cityhold Euro S.à r.l.	.LUX	NIA	Cityhold Propco 9 S.à r.l.	Ownership	88.000	TIAA Board of Governors		2200
				4925549			Cityhold Propco 7 S.à r.l.	.LUX	NIA	Cityhold Euro S.à r.l.	Ownership	100.000	TIAA Board of Governors		
				4925615			Cityhold Propco 10 S.à r.l.	.LUX	NIA	Cityhold Euro S.à r.l.	Ownership	100.000	TIAA Board of Governors		
				5612501			Cityhold Gouden Bocht B.V.	.NLD	NIA	Cityhold Propco 9 S.à r.l.	Ownership	100.000	TIAA Board of Governors		
				5486962			Cityhold Gouden Bocht Monumenten B.V.	.NLD	NIA	Cityhold Propco 9 S.à r.l.	Ownership	100.000	TIAA Board of Governors		
			98-1438380	5354838			Redevelopment Property II B.V.	.NLD	NIA	Cityhold Propco 9 S.à r.l.	Ownership	100.000	TIAA Board of Governors		

SCHEDULE Y
PART 1A - DETAIL OF INSURANCE HOLDING COMPANY SYSTEM

1	2	3	4	5	6	7	8	9	10	11	12 Type of Control (Ownership, Board, Management, Attorney-in-Fact, Influence, Other)	13 If Control is Owner- ship Provide Percen- tage	14 Ultimate Controlling Entity(ies)/Person(s)	15 Is an SCA Filing Re- quired? (Yes/No)	16 *
Group Code	Group Name	NAIC Company Code	ID Number	Federal RSSD	CIK	Name of Securities Exchange if Publicly Traded (U.S. or International)	Names of Parent, Subsidiaries Or Affiliates	Domi- ciliary Loca- tion	Relation- ship to Reporting Entity	Directly Controlled by (Name of Entity/Person)					
				4925633			Cityhold Propco 12 S.à r.l.	LUX	NIA	Cityhold Office Partnership S.à r.l.	Ownership	100.000	TIAA Board of Governors		
				5593178			Cityhold GC Investment S.à r.l.	LUX	NIA	Cityhold Propco 12 S.à r.l.	Ownership	100.000	TIAA Board of Governors		
				5596807			OVG Cloud S.à r.l.	LUX	NIA	Cityhold Propco 12 S.à r.l.	Ownership	89.900	TIAA Board of Governors		2100
							Cityhold Grand Central Berlin SCS	LUX	NIA	OVG Cloud S.à r.l.	Ownership	100.000	TIAA Board of Governors		
				4914785			Cityhold Sterling S.à r.l.	LUX	NIA	Cityhold Office Partnership S.à r.l.	Ownership	100.000	TIAA Board of Governors		
				4914758			Cityhold UK Holding S.à r.l.	LUX	NIA	Cityhold Sterling S.à r.l.	Ownership	100.000	TIAA Board of Governors		
							Cityhold Belgrave Operational Investment S. à r.l.	LUX	NIA	Cityhold UK Holding S.à r.l.	Ownership	100.000	TIAA Board of Governors		
							Cityhold Belgrave Operational Holding S. à r.l.	LUX	NIA	Cityhold UK Holding S.à r.l.	Ownership	100.000	TIAA Board of Governors		
							Belgrave House Operational Unit Trust	JEY	NIA	Cityhold Belgrave Operational Holding S. à r.l.	Ownership	100.000	TIAA Board of Governors		
							Belgrave House Operational Trustee 1 Limited	GBR	NIA	Belgrave House Operational Unit Trust	Ownership	100.000	TIAA Board of Governors		
							Belgrave House Operational Trustee 2 Limited	GBR	NIA	Belgrave House Operational Unit Trust	Ownership	100.000	TIAA Board of Governors		
				4919753			Cityhold UK Investment S.à r.l.	LUX	NIA	Cityhold UK Holding S.à r.l.	Ownership	100.000	TIAA Board of Governors		
				4651343			London Belgrave Unit Trust	JEY	NIA	Cityhold UK Holding S.à r.l.	Ownership	99.800	TIAA Board of Governors		2400
				4651343			London Belgrave Unit Trust	JEY	NIA	Cityhold UK Investment S.à r.l.	Ownership	0.200	TIAA Board of Governors		2400
				4949198			CLOF Victoria Nominee 1 Limited	GBR	NIA	London Belgrave Unit Trust	Ownership	100.000	TIAA Board of Governors		
				4949228			CLOF Victoria Nominee 2 Limited	GBR	NIA	London Belgrave Unit Trust	Ownership	100.000	TIAA Board of Governors		
				4844341			New Fetter Lane Unit Trust	JEY	NIA	Cityhold UK Holding S.à r.l.	Ownership	99.900	TIAA Board of Governors		2500
				4844341			New Fetter Lane Unit Trust	JEY	NIA	Cityhold UK Investment S.à r.l.	Ownership	0.100	TIAA Board of Governors		2500
				4919744			60 Great Portland Street Unit Trust	JEY	NIA	Cityhold UK Holding S.à r.l.	Ownership	99.400	TIAA Board of Governors		2600
				4919744			60 Great Portland Street Unit Trust	JEY	NIA	Cityhold UK Investment S.à r.l.	Ownership	0.600	TIAA Board of Governors		2600
				4920076			SMA Holding S.à r.l.	LUX	NIA	Cityhold UK Investment S.à r.l.	Ownership	100.000	TIAA Board of Governors		
				4919744			70 St Mary Axe Unit Trust	JEY	NIA	SMA Holding S.à r.l.	Ownership	99.900	TIAA Board of Governors		2700
				4919744			70 St Mary Axe Unit Trust	JEY	NIA	Cityhold UK Investment S.à r.l.	Ownership	0.100	TIAA Board of Governors		2700
				4920067			HV Properties S.à r.l.	LUX	NIA	Cityhold UK Holding S.à r.l.	Ownership	100.000	TIAA Board of Governors		
				4925763			HV Freehold S.à r.l.	LUX	NIA	HV Properties S.à r.l.	Ownership	100.000	TIAA Board of Governors		
				4614704			TIAA Lux 9 S.à r.l.	LUX	NIA	Cityhold Office Partnership S.à r.l.	Ownership	100.000	TIAA Board of Governors		
				4615738			SAS Malachite	FRA	NIA	TIAA Lux 9 S.a.r.l	Ownership	100.000	TIAA Board of Governors		
				4616847			SNC Garnet-TIAA	FRA	NIA	SAS Malachite	Ownership	100.000	TIAA Board of Governors		
				4616856			SNC La Defense	FRA	NIA	SAS Malachite	Ownership	100.000	TIAA Board of Governors		
				4616865			SNC Lazuli	FRA	NIA	SAS Malachite	Ownership	100.000	TIAA Board of Governors		
				4616874			SNC Peridot	FRA	NIA	SAS Malachite	Ownership	100.000	TIAA Board of Governors		
				4613015			T-C Pep Holding S.a.r.l.	LUX	NIA	ND Europe S.a.r.l.	Ownership	51.000	TIAA Board of Governors		
				4617497			T-C Pep Property S.a.r.l.	LUX	NIA	T-C Pep Holding S.a.r.l.	Ownership	100.000	TIAA Board of Governors		
				4617488			T-C Pep Asset S.a.r.l.	LUX	NIA	T-C Pep Holding S.a.r.l.	Ownership	100.000	TIAA Board of Governors		
				4614674			TIAA Lux 11 S.a.r.l	LUX	NIA	ND Europe S.a.r.l.	Ownership	51.000	TIAA Board of Governors		
				4615635			Gropius Passagen Verwaltungs GmbH	DEU	NIA	TIAA Lux 11 S.a.r.l	Ownership	80.000	TIAA Board of Governors		
				4615644			Gropius S.a.r.l	LUX	NIA	TIAA Lux 11 S.a.r.l	Ownership	80.000	TIAA Board of Governors		
				4615626			Gropius Passagen GmbH & Co KG	DEU	NIA	Gropius S.a.r.l	Ownership	99.800	TIAA Board of Governors		2800
				4615626			Gropius Passagen GmbH & Co KG	DEU	NIA	TIAA Lux 11 S.a.r.l	Ownership	0.160	TIAA Board of Governors		2800
				4611842			TIAA Lux 5 S.a.r.l	LUX	NIA	ND Properties, Inc.	Ownership	100.000	TIAA Board of Governors		
				4612906			Erlangen Arcaden Verwaltungs GmbH	DEU	NIA	TIAA Lux 5 S.a.r.l.	Ownership	100.000	TIAA Board of Governors		
				82-4183425	5613357		New York City Property Fund II LP	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	86.300	TIAA Board of Governors		
				87-4474636	5704134		15 Laight Street Holdings LLC	DE	NIA	New York City Property Fund II LP	Influence		TIAA Board of Governors		
				87-4553231	5704394		15 Laight Street Lender LLC	DE	NIA	15 Laight Street Holdings LLC	Ownership	100.000	TIAA Board of Governors		
				87-3846434	5704125		Cory Road REIT LLC	DE	NIA	New York City Property Fund II LP	Influence		TIAA Board of Governors		
				87-3847578	5704143		Cory Road Operating LP	DE	NIA	Cory Road REIT LLC	Ownership	98.620	TIAA Board of Governors		
							Cory Road Associates LLC	DE	NIA	Cory Road Operating LP	Ownership	100.000	TIAA Board of Governors		
				87-4032308	5704406		Cory Road TRS LP	DE	NIA	Cory Road Associates LLC	Ownership	100.000	TIAA Board of Governors		

SCHEDULE Y
PART 1A - DETAIL OF INSURANCE HOLDING COMPANY SYSTEM

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Group Code	Group Name	NAIC Company Code	ID Number	Federal RSSD	CIK	Name of Securities Exchange if Publicly Traded (U.S. or International)	Names of Parent, Subsidiaries Or Affiliates	Domi-ciliary Location	Relation-ship to Reporting Entity	Directly Controlled by (Name of Entity/Person)	Type of Control (Ownership, Board, Management, Attorney-in-Fact, Influence, Other)	If Control is Ownership Provide Percentage	Ultimate Controlling Entity(ies)/Person(s)	Is an SCA Filing Re-quired? (Yes/No)	*
			87-3783569	5704161			NYCPF II 94th Street Pooling LP	DE	NIA	New York City Property Fund II LP	Influence		TIAA Board of Governors		
							309 East 94th Street Holdings LLC	DE	NIA	NYCPF II 94th Street Pooling LP	Ownership	98.670	TIAA Board of Governors		
							309 East 94th Street Associates LLC	DE	NIA	309 East 94th Street Holdings LLC	Ownership	100.000	TIAA Board of Governors		
			83-4678924	5589537			New York City Property Fund REIT LLC	DE	NIA	New York City Property Fund II LP	Influence		TIAA Board of Governors		
			83-4701919	5588473			New York City Fund Operating GP LLC	DE	NIA	New York City Property Fund REIT LLC	Ownership	100.000	TIAA Board of Governors		
			83-4671194	5587841			New York City Property Fund Operating LP	DE	NIA	New York City Property Fund REIT LLC	Ownership	98.620	TIAA Board of Governors		
			84-3388831	5620690			125 West End Investors LLC	DE	NIA	New York City Property Fund Operating LP	Ownership	97.500	TIAA Board of Governors		
			84-3408615	5620702			125 West End Holdings LLC	DE	NIA	125 West End Investors LLC	Ownership	100.000	TIAA Board of Governors		
			83-4653622	5694600			125 West End Associates LLC	DE	NIA	125 West End Holdings LLC	Ownership	100.000	TIAA Board of Governors		
			84-3408615	5620702			125 West Studio Holdings LLC	DE	NIA	125 West End Holdings LLC	Ownership	100.000	TIAA Board of Governors		
							Ridge Hill Holdings LLC	DE	NIA	New York City Property Fund II LP	Influence		TIAA Board of Governors		
			36-5014830				Ridge Hill Associates LLC	DE	NIA	Ridge Hill Holdings LLC	Ownership	83.330	TIAA Board of Governors		
							NGFF Holdco, LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			84-2320652	5486944			Nuveen Global Farmland Fund, LP	DE	NIA	NGFF Holdco, LLC	Ownership	100.000	TIAA Board of Governors		
			84-1895540	5535329			Global Farmland Properties LLC	DE	NIA	Nuveen Global Farmland Fund, LP	Ownership	100.000	TIAA Board of Governors		
			84-1834824	5535347			NGFF FFI, LLC	DE	NIA	Global Farmland US Properties, LLC	Ownership	100.000	TIAA Board of Governors		
			85-3631808	5596740			US Horticulture Farmland, LLC	DE	NIA	Global Farmland US Properties, LLC	Ownership	100.000	TIAA Board of Governors		
			84-1857338	5535383			US Row Farmland, LLC	DE	NIA	Global Farmland US Properties, LLC	Ownership	100.000	TIAA Board of Governors		
			84-1842298	5535374			US Viticulture Farmland, LLC	DE	NIA	Global Farmland US Properties, LLC	Ownership	100.000	TIAA Board of Governors		
			84-1880235	5535365						Teachers Insurance and Annuity Association of America	Influence		TIAA Board of Governors		
			46-2031403	4860800			NRFC Inception IV, LP	DE	NIA	Teachers Insurance and Annuity Association of America	Influence		TIAA Board of Governors		
			46-2062147	4860819			NRFC Inception V, LP	DE	NIA	Teachers Insurance and Annuity Association of America	Influence		TIAA Board of Governors		
							Nuveen CLO Issuance Fund LP	CYM	NIA	Teachers Insurance and Annuity Association of America	Management		TIAA Board of Governors		
			84-5180286	5633029			Nuveen Global Impact Fund LP	DE	NIA	Teachers Insurance and Annuity Association of America	Management		TIAA Board of Governors		
			83-4357309	5400584			Nuveen High Yield Municipal Opportunities Fund LP	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	68.860	TIAA Board of Governors		
			83-4341275	5400511			Nuveen Municipal Opportunities Fund LP	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	74.420	TIAA Board of Governors		
			86-1702891	5614260			Nuveen Real Estate U.S. Strategic Alternatives Fund I LP	DE	NIA	Teachers Insurance and Annuity Association of America	Management		TIAA Board of Governors		
			87-4504685	5721476			Nuveen Real Estate U.S. Strategic Alternatives Fund I Master Holdco LLC	DE	NIA	Nuveen Real Estate U.S. Strategic Alternatives Fund I LP	Ownership	100.000	TIAA Board of Governors		
			86-1560063	5618736			Nuveen Real Estate U.S. Strategic Alternatives Fund I Holding Company LLC	DE	NIA	Nuveen Real Estate U.S. Strategic Alternatives Fund I Master Holdco LLC	Ownership	100.000	TIAA Board of Governors		
			87-1132368	5618754			Nuveen Real Estate U.S. Strategic Alternatives Fund I SFR Holding Company LLC	DE	NIA	Nuveen Real Estate U.S. Strategic Alternatives Fund I Holding Company LLC	Ownership	100.000	TIAA Board of Governors		
			88-2049607	5752256			SAF MOB Reno Member LLC	DE	NIA	Nuveen Real Estate U.S. Strategic Alternatives Fund I Holding Company LLC	Ownership	100.000	TIAA Board of Governors		
			87-3052744	5657315			SAF MOB South Jordan LLC	DE	NIA	Nuveen Real Estate U.S. Strategic Alternatives Fund I Holding Company LLC	Ownership	100.000	TIAA Board of Governors		
			88-0701644				SAF MP Venture Investor Member LLC	DE	NIA	Nuveen Real Estate U.S. Strategic Alternatives Fund I Holding Company LLC	Ownership	100.000	TIAA Board of Governors		
				5741586			SAF SFR Investor Member LLC	DE	NIA	Nuveen Real Estate U.S. Strategic Alternatives Fund I Holding Company LLC	Ownership	100.000	TIAA Board of Governors		
			87-3223918	5725689			SAF SS Investor Member LLC	DE	NIA	Nuveen Real Estate U.S. Strategic Alternatives Fund I Holding Company LLC	Ownership	100.000	TIAA Board of Governors		
			87-3113236	5708785			Nuveen Real Estate U.S. Strategic Alternatives Fund I Holding Company (NR) LLC	DE	NIA	Nuveen Real Estate U.S. Strategic Alternatives Fund I Master Holdco LLC	Ownership	100.000	TIAA Board of Governors		

SCHEDULE Y
PART 1A - DETAIL OF INSURANCE HOLDING COMPANY SYSTEM

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Group Code	Group Name	NAIC Company Code	ID Number	Federal RSSD	CIK	Name of Securities Exchange if Publicly Traded (U.S. or International)	Names of Parent, Subsidiaries Or Affiliates	Domi-ciliary Location	Relation-ship to Reporting Entity	Directly Controlled by (Name of Entity/Person)	Type of Control (Ownership, Board, Management, Attorney-in-Fact, Influence, Other)	If Control is Owner-ship Provide Percen-tage	Ultimate Controlling Entity(ies)/Person(s)	Is an SCA Filing Re-quired? (Yes/No)	*
			87-1593045	5619108			SAF MOB Amarillo Member LLC	DE	NIA	Nuveen Real Estate U.S. Strategic Alternatives Fund I Holding Company (NR) LLC	Ownership	100.000	TIAA Board of Governors		
			87-3638758	5694495			SAF MOB Orange Member LLC	DE	NIA	Nuveen Real Estate U.S. Strategic Alternatives Fund I Holding Company (NR) LLC	Ownership	100.000	TIAA Board of Governors		
			81-2429791	5194061			Nuveen Real Estate U.S. Strategic Industrial Fund I LP	DE	NIA	Teachers Insurance and Annuity Association of America	Management		TIAA Board of Governors		
			26-4750562	4600846			Occator Agricultural Properties, LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			46-1768969	4611860			AGR Agricultural Investments, LLC	DE	NIA	Occator Agricultural Properties, LLC	Ownership	100.000	TIAA Board of Governors		
				5106475			Mandala Food Co-Investment Holdings II SPV	MUS	NIA	Occator Agricultural Properties, LLC	Ownership	100.000	TIAA Board of Governors		
			26-4248579	4313025			Canadian Infrastructure Investments, LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			98-1523334				2234328 Alberta ULC	CAN	NIA	Canadian Infrastructure Investments, LLC	Ownership	100.000	TIAA Board of Governors		
				4313100			Polar Star Canadian Oil and Gas Holding, Inc	CAN	NIA	Canadian Infrastructure Investments, LLC	Ownership	100.000	TIAA Board of Governors		
			85-1933477	5596731			Otto's South Vineyard, LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			26-3821015	4630133			Pinnacle Third Avenue, LP	DE	NIA	Teachers Insurance and Annuity Association of America	Influence		TIAA Board of Governors		
			45-2792614	4601142			Renewable Timber Europe, LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
				4990994			Renewable Timber Netherlands B.V.	POL	NIA	Renewable Timber Europe, LLC	Ownership	100.000	TIAA Board of Governors		
				4614713			Topola Lasy Spolka z.o.o.	POL	NIA	Renewable Timber Netherlands B.V.	Ownership	100.000	TIAA Board of Governors		
			61-1640765	4601759			Renewable Timber Resources, LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
							REP Coinvest III TEC, L.P.	DE	NIA	Teachers Insurance and Annuity Association of America	Influence		TIAA Board of Governors		
			47-3994280	4865047			Shf-33d North Apts, LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			47-4155469	4865056			Shf-Millennium One Apts, LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			81-2450195	4990958			Shf-The Rocks Apts, LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			03-0543113	4868637			Siguler Guff Third Avenue, L.P.	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
				4858629			Social Infra, LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
				4630601			Stichting Bewaarder Ziemia Fund	NLD	NIA	Teachers Insurance and Annuity Association of America	Influence		TIAA Board of Governors		
			46-4969690	4653972			T-C 699 Bourke Street LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			81-2490530	4998431			T-C Australia RE Holdings I, LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			81-2506975	5003426			T-C Australia RE Holdings II, LLC	DE	NIA	T-C Australia RE Holdings I, LLC	Ownership	100.000	TIAA Board of Governors		
				5084966			TIAA Australia Real Estate Trust	AUS	NIA	T-C Australia RE Holdings II, LLC	Ownership	100.000	TIAA Board of Governors		
				5195255			TGA Miller Holding Trust	AUS	NIA	TIAA Australia Real Estate Trust	Ownership	100.000	TIAA Board of Governors		
				5201820			TGA Miller Street Trust	AUS	NIA	TGA Miller Holding Trust	Ownership	100.000	TIAA Board of Governors		
				5085749			TIAA Melbourne Retail Holding 1 Trust	AUS	NIA	TIAA Australia Real Estate Trust	Ownership	100.000	TIAA Board of Governors		
				5087891			TIAA Melbourne Retail Asset 1 Trust	AUS	NIA	TIAA Melbourne Retail Holding 1 Trust	Ownership	100.000	TIAA Board of Governors		
				5399969			TGA Australia Real Estate Trust 2	AUS	NIA	T-C Australia RE Holdings II, LLC	Ownership	100.000	TIAA Board of Governors		
				5400481			TGA PBSA Hold Trust	AUS	NIA	TGA Australia Real Estate Trust 2	Ownership	100.000	TIAA Board of Governors		

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				5424133			TGA PBSA Asset Trust 1	.AUS	NIA	TGA PBSA Hold Trust	Ownership	100.000	TIAA Board of Governors		
				5596768			TGA PBSA Asset Trust 2	.AUS	NIA	TGA PBSA Hold Trust	Ownership	100.000	TIAA Board of Governors		
				5596777			TGA PBSA Asset Trust 3	.AUS	NIA	TGA PBSA Hold Trust	Ownership	100.000	TIAA Board of Governors		
				5699865			TGA PBSA Hold Trust 2	.AUS	NIA	TGA Australia Real Estate Trust 2	Ownership	100.000	TIAA Board of Governors		
				5708749			TGA PBSA Asset Trust 4	.AUS	NIA	TGA PBSA Hold Trust 2	Ownership	100.000	TIAA Board of Governors		
			47-2363168	4794503			T-C Europe Holding Inc.	.DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			47-2369576	4794473			T-C Europe LP	.DE	NIA	T-C Europe Holding Inc.	Ownership	1.000	TIAA Board of Governors		2900
			47-2369576	4794473			T-C Europe LP	.DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	99.000	TIAA Board of Governors		2900
				4843410			T-C Europe S.à r.l.	.LUX	NIA	T-C Europe LP	Ownership	100.000	TIAA Board of Governors		
				4873501			Nightingale LuxCo S.à r.l.	.LUX	NIA	T-C Europe S.à r.l.	Ownership	100.000	TIAA Board of Governors		
				4874665			T-C Nordics Investment AB	.SWE	NIA	Nightingale LuxCo S.à r.l.	Ownership	100.000	TIAA Board of Governors		
				4908391			Sweden Nova Lund 1 AB	.SWE	NIA	T-C Nordics Investment AB	Ownership	100.000	TIAA Board of Governors		
				4908403			Sweden Nova Lund 2 AB	.SWE	NIA	T-C Nordics Investment AB	Ownership	100.000	TIAA Board of Governors		
				4841443			T-C Luxembourg Neptune Holdings S.à r.l.	.LUX	NIA	T-C Europe S.à r.l.	Ownership	100.000	TIAA Board of Governors		
				4841993			T-C Neptune Holdings S. à r.l.	.LUX	NIA	T-C Luxembourg Neptune Holdings S.à r.l.	Ownership	100.000	TIAA Board of Governors		
				4843401			Neptune Property Venture S.à r.l.	.LUX	NIA	T-C Neptune Holdings S. à r.l.	Ownership	61.800	TIAA Board of Governors		
				5472901			Castel Guelfo I SRL	.ITA	NIA	Neptune Property Venture S.à r.l.	Ownership	100.000	TIAA Board of Governors		
				4908364			Neptune Holding Spain, S.L.	.ESP	NIA	Neptune Property Venture S.à r.l.	Ownership	100.000	TIAA Board of Governors		
				4912709			Promcat Alternativa, S.L.	.ESP	NIA	Neptune Holding Spain, S.L.	Ownership	100.000	TIAA Board of Governors		
				5083651			Neptune Madrid Holdco S.L.	.ESP	NIA	Neptune Property Venture S.à r.l.	Ownership	100.000	TIAA Board of Governors		
				5085691			Neptune Nassica Propco S.L.	.ESP	NIA	Neptune Madrid Holdco S.L.	Ownership	100.000	TIAA Board of Governors		
				5085703			Neptune Getafe Propco S.L.	.ESP	NIA	Neptune Madrid Holdco S.L.	Ownership	100.000	TIAA Board of Governors		
				5084920			Neptune Las Rozas Outlet S.L.	.ESP	NIA	Neptune Madrid Holdco S.L.	Ownership	100.000	TIAA Board of Governors		
				5084939			Neptune San Sebastian Outlet S.L.	.ESP	NIA	Neptune Madrid Holdco S.L.	Ownership	100.000	TIAA Board of Governors		
				4948687			Neptune OPCI SAS	.FRA	NIA	Neptune Property Venture S.à r.l.	Ownership	100.000	TIAA Board of Governors		
				4952648			Roppenheim Holding SAS	.FRA	NIA	Neptune OPCI SAS	Ownership	100.000	TIAA Board of Governors		
				4901383			Roppenheim Outlet SNC	.FRA	NIA	Roppenheim Holding SAS	Ownership	99.990	TIAA Board of Governors		3000
				5198779			Neptune Ursus SP. z.o.o.	.POL	NIA	Neptune Property Venture S.à r.l.	Ownership	100.000	TIAA Board of Governors		
				4912736			Neptune Krakow SP. z.o.o.	.POL	NIA	Neptune Property Venture S.à r.l.	Ownership	100.000	TIAA Board of Governors		
				4912745			Neptune Annopol SP. z.o.o.	.POL	NIA	Neptune Property Venture S.à r.l.	Ownership	100.000	TIAA Board of Governors		
				5083633			Neptune Poznan SP. z.o.o.	.POL	NIA	Neptune Property Venture S.à r.l.	Ownership	100.000	TIAA Board of Governors		
				5354865			Neptune Property Holding S.à r.l.	.LUX	NIA	Neptune Property Venture S.à r.l.	Ownership	100.000	TIAA Board of Governors		
				5356382			Neptune Amsterdam B.V.	.NLD	NIA	Neptune Property Holding S.à r.l.	Ownership	100.000	TIAA Board of Governors		
				5659476			Neptune Gliwice Sp. z o.o.	.POL	NIA	Neptune Property Holding S.à r.l.	Ownership	100.000	TIAA Board of Governors		
				4949095			Neptune Roppenheim Holding S.à r.l	.FRA	NIA	Neptune Property Venture S.à r.l.	Ownership	100.000	TIAA Board of Governors		
				4901383			Roppenheim Outlet SNC	.FRA	NIA	Neptune Roppenheim Holding S.à r.l	Ownership	0.010	TIAA Board of Governors		3000
				5083642			Neptune Vicolungo I S.r.l.	.ITA	NIA	Neptune Property Venture S.à r.l.	Ownership	100.000	TIAA Board of Governors		
							T-C Storage Portfolio HoldCo S.à r.l.	.LUX	NIA	T-C Europe S.à r.l.	Ownership	100.000	TIAA Board of Governors		
							T-C Storage HoldCo AB	.SWE	NIA	T-C Storage Portfolio HoldCo S.à r.l.	Ownership	100.000	TIAA Board of Governors		
							T-C Storage BidCo AB	.SWE	NIA	T-C Storage HoldCo AB	Ownership	100.000	TIAA Board of Governors		
							Green S AB	.SWE	NIA	T-C Storage HoldCo AB	Ownership	95.000	TIAA Board of Governors		
							TC-Norway AS	.NOR	NIA	T-C Europe S.à r.l.	Ownership	100.000	TIAA Board of Governors		
							Billittveien 6 AS	.NOR	NIA	TC-Norway AS	Ownership	100.000	TIAA Board of Governors		
							Lonningsflaten 22 Eiendom AS	.NOR	NIA	TC-Norway AS	Ownership	100.000	TIAA Board of Governors		
							Skedsmo Logistikk AS	.NOR	NIA	TC-Norway AS	Ownership	100.000	TIAA Board of Governors		
										Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			45-2877772	4601786			T-C GA Real Estate Holdings, LLC	.DE	NIA	T-C GA Real Estate Holdings, LLC	Ownership	100.000	TIAA Board of Governors		
			46-0959792	4611936			8 Spruce Street GA Investor, LLC	.DE	NIA	T-C GA Real Estate Holdings, LLC	Ownership	100.000	TIAA Board of Governors		
			46-1403221	4619567			FC 8 Spruce Holdings, LLC	.DE	NIA	8 Spruce Street GA Investor, LLC	Influence		TIAA Board of Governors		
			4511867				FC 8 Spruce Street Residential, LLC	.NY	NIA	FC 8 Spruce Holdings, LLC	Ownership	100.000	TIAA Board of Governors		
			84-2144204	5482311			2300 Broadway Storage Operator LLC	.DE	NIA	T-C GA Real Estate Holdings, LLC	Ownership	100.000	TIAA Board of Governors		
			82-1419222	5194360			Nuveen Global Cities REIT, Inc.	.MD	NIA	T-C GA Real Estate Holdings, LLC	Management		TIAA Board of Governors		

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PART 1A - DETAIL OF INSURANCE HOLDING COMPANY SYSTEM

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			47-1535030	4750022			T-C 2 Herald Square Member LLC	DE	NIA	T-C GA Real Estate Holdings, LLC	Ownership	100.000	TIAA Board of Governors		
			47-1650509	4751711			T-C 2 Herald Square Venture LLC	DE	NIA	T-C 2 Herald Square Member LLC	Ownership	51.000	TIAA Board of Governors		
			47-1488131	4753573	1629144		T-C 2 Herald Square Owner LLC	DE	NIA	T-C 2 Herald Square Venture LLC	Ownership	100.000	TIAA Board of Governors		
			27-2952349	4612045			T-C 1101 Pennsylvania Avenue LLC	DE	NIA	T-C GA Real Estate Holdings, LLC	Ownership	100.000	TIAA Board of Governors		
			27-2952617	4651398			T-C 1101 Pennsylvania Avenue Venture LLC	DE	NIA	T-C 1101 Pennsylvania Avenue LLC	Ownership	51.000	TIAA Board of Governors		
			27-2952860	4863472	1577584		T-C 1101 Pennsylvania Avenue Owner LLC	DE	NIA	T-C 1101 Pennsylvania Avenue Venture LLC	Ownership	100.000	TIAA Board of Governors		
			46-1851206	4611954			T-C 33 Arch Street Member, LLC	DE	NIA	T-C GA Real Estate Holdings, LLC	Ownership	100.000	TIAA Board of Governors		
			46-1805501	4613985			T-C 33 Arch Street Venture, LLC	DE	NIA	T-C 33 Arch Street Member, LLC	Ownership	51.000	TIAA Board of Governors		
			45-2792699	4617198	1577586		T-C 33 Arch Street, LLC	DE	NIA	T-C 33 Arch Street Venture, LLC	Ownership	100.000	TIAA Board of Governors		
			46-1754709	4612018			T-C 470 Park Avenue South Member LLC	DE	NIA	T-C GA Real Estate Holdings, LLC	Ownership	100.000	TIAA Board of Governors		
			46-1744112	4613994			T-C 470 Park Avenue South Venture LLC	DE	NIA	T-C 470 Park Avenue South Member LLC	Ownership	51.000	TIAA Board of Governors		
			46-1828055	4612036			T-C 475 Fifth Avenue Member, LLC	DE	NIA	T-C GA Real Estate Holdings, LLC	Ownership	100.000	TIAA Board of Governors		
			46-1839003	4614889			T-C 475 Fifth Avenue Venture LLC	DE	NIA	T-C 475 Fifth Avenue Member, LLC	Ownership	51.000	TIAA Board of Governors		
			45-3229803	4617330	1577564		T-C 475 Fifth Avenue, LLC	DE	NIA	T-C 475 Fifth Avenue Venture LLC	Ownership	100.000	TIAA Board of Governors		
			47-2189075	4763312			T-C 800 17th Street NW Member LLC	DE	NIA	T-C GA Real Estate Holdings, LLC	Ownership	100.000	TIAA Board of Governors		
			47-2118640	4763787			T-C 800 17th Street NW Venture LLC	DE	NIA	T-C 800 17th Street NW Member LLC	Ownership	50.100	TIAA Board of Governors		
			47-2069910	4767730	1629146		T-C 800 17th Street NW Owner LLC	DE	NIA	T-C 800 17th Street NW Venture LLC	Ownership	100.000	TIAA Board of Governors		
			47-4665824	4904366			T-C 888 Brannan Member LLC	DE	NIA	T-C GA Real Estate Holdings, LLC	Ownership	100.000	TIAA Board of Governors		
			47-4684031	4904955			T-C 888 Brannan Venture LLC	DE	NIA	T-C 888 Brannan Member LLC	Ownership	50.100	TIAA Board of Governors		
			47-4674147	4908319			T-C 888 Brannan Owner LLC	DE	NIA	T-C 888 Brannan Venture LLC	Ownership	100.000	TIAA Board of Governors		
			47-5605380	4971845			T-C 888 Brannan TRS, LLC	DE	NIA	T-C 888 Brannan Owner LLC	Ownership	100.000	TIAA Board of Governors		
			45-3479701	4612081			T-C 2300 Broadway, LLC	DE	NIA	T-C GA Real Estate Holdings, LLC	Ownership	100.000	TIAA Board of Governors		
			46-1220681	4612139			T-C Aspira LLC	DE	NIA	T-C GA Real Estate Holdings, LLC	Ownership	100.000	TIAA Board of Governors		
			46-1791581	4612054			T-C Franklin Square Member, LLC	DE	NIA	T-C GA Real Estate Holdings, LLC	Ownership	100.000	TIAA Board of Governors		
			46-1794486	4615569			T-C Franklin Square Venture LLC	DE	NIA	T-C Franklin Square Member, LLC	Ownership	51.000	TIAA Board of Governors		
			26-0011770	4617611	1577581		TIAA Franklin Square, LLC	DE	NIA	T-C Franklin Square Venture LLC	Ownership	100.000	TIAA Board of Governors		
			47-2023405	4763303			T-C Hall of States Member LLC	DE	NIA	T-C GA Real Estate Holdings, LLC	Ownership	100.000	TIAA Board of Governors		
			47-2043468	4763796			T-C Hall of States Venture LLC	DE	NIA	T-C Hall of States Member LLC	Ownership	50.100	TIAA Board of Governors		
			47-2034237	4767749	1629145		T-C Hall of States Owner LLC	DE	NIA	T-C Hall of States Venture LLC	Ownership	100.000	TIAA Board of Governors		
			45-4045658	4612148			T-C Kings Crossing, LLC	DE	NIA	T-C GA Real Estate Holdings, LLC	Ownership	100.000	TIAA Board of Governors		
			46-1120016	4601973			T-C Legacy Place Member, LLC	DE	NIA	T-C GA Real Estate Holdings, LLC	Ownership	100.000	TIAA Board of Governors		
			46-0876833	4628550			Legacy Place Associates, LLC	MA	NIA	T-C Legacy Place Member, LLC	Ownership	50.000	TIAA Board of Governors		
			30-0769316				300 Legacy Place Boulevard LLC	DE	NIA	Legacy Place Associates, LLC	Ownership	100.000	TIAA Board of Governors		
			47-2903922	4843326			Legacy Place Properties, LLC	MA	NIA	Legacy Place Associates, LLC	Ownership	100.000	TIAA Board of Governors		
			47-2867784	4843979			T-C Republic Square Member LLC	DE	NIA	T-C GA Real Estate Holdings, LLC	Ownership	100.000	TIAA Board of Governors		
			47-3033681	4844659			T-C Republic Square Venture LLC	DE	NIA	T-C Republic Square Member LLC	Ownership	50.100	TIAA Board of Governors		
			47-3091198	4844798			T-C Republic Square REIT LLC	DE	NIA	T-C Republic Square Venture LLC	Ownership	100.000	TIAA Board of Governors		
			47-2793452	4847735			T-C Republic Square Mezzanine LLC	DE	NIA	T-C Republic Square REIT LLC	Ownership	100.000	TIAA Board of Governors		
			88-0634999	5720134			T-C Republic Square Owner LLC	DE	NIA	T-C Republic Square Mezzanine LLC	Ownership	100.000	TIAA Board of Governors		
			87-3992388	5689660			TGA Adairsville DC LLC	DE	NIA	T-C GA Real Estate Holdings, LLC	Ownership	100.000	TIAA Board of Governors		
			88-1007987				TGA Cass White 75 LLC	DE	NIA	T-C GA Real Estate Holdings, LLC	Ownership	100.000	TIAA Board of Governors		
							TGA Forum on Peachtree Investor Member LLC	DE	NIA	T-C GA Real Estate Holdings, LLC	Ownership	100.000	TIAA Board of Governors		
			88-1007587				TGA NAP Forum on Peachtree Venture LLC	DE	NIA	TGA Forum on Peachtree Investor Member LLC	Ownership	96.000	TIAA Board of Governors		
			88-1007172				TGA NAP Forum on Peachtree Owner LLC	DE	NIA	TGA NAP Forum on Peachtree Venture LLC	Ownership	100.000	TIAA Board of Governors		
			87-4019549	5689651			TGA Midway Distribution Center LLC	DE	NIA	T-C GA Real Estate Holdings, LLC	Ownership	100.000	TIAA Board of Governors		
			88-0655999	5720675			TGA MOB 5005 McConnell Member LLC	DE	NIA	T-C GA Real Estate Holdings, LLC	Ownership	100.000	TIAA Board of Governors		
			88-0656194	5720693			TGANX MOB 5005 McConnell Venture LLC	DE	NIA	TGA MOB 5005 McConnell Member LLC	Ownership	100.000	TIAA Board of Governors		
			88-0655748	5720705			TGA MOB 5005 McConnell LLC	DE	NIA	TGANX MOB 5005 McConnell Venture LLC	Ownership	100.000	TIAA Board of Governors		
			88-0635252	5720125			TGA Speedway Distribution Center LLC	DE	NIA	T-C GA Real Estate Holdings, LLC	Ownership	100.000	TIAA Board of Governors		
			47-1379500	4749969			The Flats Holding Company LLC	DE	NIA	T-C GA Real Estate Holdings, LLC	Ownership	100.000	TIAA Board of Governors		
			47-1347366	4752503			The Flats 130 DC Residential LLC	DE	NIA	The Flats Holding Company LLC	Ownership	100.000	TIAA Board of Governors		
			47-1363564	4752512			The Flats 140 DC Residential LLC	DE	NIA	The Flats Holding Company LLC	Ownership	100.000	TIAA Board of Governors		
			47-1367530	4751766			The Flats DC Grocery LLC	DE	NIA	The Flats Holding Company LLC	Ownership	100.000	TIAA Board of Governors		

STATEMENT AS OF SEPTEMBER 30, 2022 OF THE TIAA-CREF LIFE INSURANCE COMPANY

SCHEDULE Y
PART 1A - DETAIL OF INSURANCE HOLDING COMPANY SYSTEM

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Group Code	Group Name	NAIC Company Code	ID Number	Federal RSSD	CIK	Name of Securities Exchange if Publicly Traded (U.S. or International)	Names of Parent, Subsidiaries Or Affiliates	Domi-ciliary Location	Relation-ship to Reporting Entity	Directly Controlled by (Name of Entity/Person)	Type of Control (Ownership, Board, Management, Attorney-in-Fact, Influence, Other)	If Control is Owner-ship Provide Percen-tage	Ultimate Controlling Entity(ies)/Person(s)	Is an SCA Filing Re-quired? (Yes/No)	*
			46-4567368	4651473			T-C JK I, LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			4680316	4680316			Adeoti Empreendimentos Imobiliários Ltda	BRA	NIA	T-C JK I, LLC	Ownership	51.000	TIAA Board of Governors		3100
			46-4587620	4651482			T-C JK II, LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			4680316	4680316			Adeoti Empreendimentos Imobiliários Ltda	BRA	NIA	T-C JK II, LLC	Ownership	49.000	TIAA Board of Governors		3100
			47-4095803	4864022			T-C Lux Fund Holdings LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
				4896256			T-C Lux Investments Special Limited Partnership	LUX	NIA	T-C Lux Fund Holdings LLC	Ownership	100.000	TIAA Board of Governors		
				5474053			European Cities Partnership SCSp	LUX	NIA	T-C Lux Investments Special Limited Partnership	Management		TIAA Board of Governors		
				4894805			Global Real Estate Debt Partners Fund I (UK) SCSp	LUX	NIA	T-C Lux Investments Special Limited Partnership	Ownership	24.300	TIAA Board of Governors		1800
			81-4583865	5137956			T-C MV Member LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			81-4599024	5147049			T-C M-T REIT LLC	DE	NIA	T-C MV Member LLC	Ownership	99.900	TIAA Board of Governors		
				5482281			T-C MV Member II LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			84-3224525	5492075			T-C M-T REIT II LLC	DE	NIA	T-C MV Member II LLC	Ownership	51.000	TIAA Board of Governors		
			85-2937933	5586013			T-C MT II Originations TRS LLC	DE	NIA	T-C M-T REIT II LLC	Ownership	100.000	TIAA Board of Governors		
			47-1954609	4759605			T-C Mt. Ommaney Centre Holding Company LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
										T-C Mt. Ommaney Centre Holding Company LLC					
			47-1828871	4749905			T-C Mt. Ommaney Centre LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			82-1023309	5117800			T-C Permian Investor LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			46-3007720	4599874			T-C SBMC Joint Venture LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			36-4620008	4599128			T-C SMA 2, LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			36-4619998	4634029			PennMuni-TIAA U.S. Real Estate Fund, LLC	DE	NIA	T-C SMA 2, LLC	Management		TIAA Board of Governors		
							T-C SV Member LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
							T-C S-T REIT LLC	DE	NIA	T-C SV Member LLC	Management		TIAA Board of Governors		
			81-2204918	4990976			T-C The Edge at Flagler Village, LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			81-2676934	5012370			T-C UK RE Holdings I, LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			81-2691474	5014299			T-C UK RE Holdings II, LLC	DE	NIA	T-C UK RE Holdings I, LLC	Ownership	100.000	TIAA Board of Governors		
			81-3299073	5018635			T-C UK RE Holdings III, LLC	DE	NIA	T-C UK RE Holdings II, LLC	Ownership	100.000	TIAA Board of Governors		
			47-3148337	4894869			T-C U.S. Super Regional Mall Fund LP	DE	NIA	Teachers Insurance and Annuity Association of America	Management		TIAA Board of Governors		
			47-5379777	4925512			T-C Waterford Blue Lagoon General Partner, LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			47-5392075	4927785			Waterford Blue Lagoon LP	DE	NIA	T-C Waterford Blue Lagoon General Partner, LLC	Ownership	1.000	TIAA Board of Governors		3200
			47-5375805	4925503			T-C Waterford Blue Lagoon, LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			47-5392075	4927785			Waterford Blue Lagoon LP	DE	NIA	T-C Waterford Blue Lagoon, LLC	Ownership	50.000	TIAA Board of Governors		3200
			81-0779817	4930226			Westland At Waterford REIT General Partner LLC	DE	NIA	Waterford Blue Lagoon LP	Ownership	100.000	TIAA Board of Governors		
				4930244			Waterford Blue Lagoon REIT General Partner LLC	DE	NIA	Waterford Blue Lagoon LP	Ownership	100.000	TIAA Board of Governors		

SCHEDULE Y
PART 1A - DETAIL OF INSURANCE HOLDING COMPANY SYSTEM

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Group Code	Group Name	NAIC Company Code	ID Number	Federal RSSD	CIK	Name of Securities Exchange if Publicly Traded (U.S. or International)	Names of Parent, Subsidiaries Or Affiliates	Domi-ciliary Location	Relation-ship to Reporting Entity	Directly Controlled by (Name of Entity/Person)	Type of Control (Ownership, Board, Management, Attorney-in-Fact, Influence, Other)	If Control is Ownership Provide Percen-tage	Ultimate Controlling Entity(ies)/Person(s)	Is an SCA Filing Re-quired? (Yes/No)	*
			47-5305678	4930208			Waterford Blue Lagoon REIT LP	.DE	NIA	Waterford Blue Lagoon LP	Ownership	100.000	TIAA Board of Governors		
			47-5642524	4933067			5201-5301 Waterford General Partner LLC	.DE	NIA	Waterford Blue Lagoon REIT LP	Ownership	100.000	TIAA Board of Governors		
			47-5541032	4933012			5201-5301 Waterford Operating LP	.DE	NIA	Waterford Blue Lagoon REIT LP	Ownership	100.000	TIAA Board of Governors		
			47-5672651	4933076			5200 Waterford General Partner LLC	.DE	NIA	Waterford Blue Lagoon REIT LP	Ownership	100.000	TIAA Board of Governors		
			47-5498897	4933021			5200 Waterford Operating LP	.DE	NIA	Waterford Blue Lagoon REIT LP	Ownership	100.000	TIAA Board of Governors		
			81-0722154	4933085			1000 Waterford General Partner LLC	.DE	NIA	Waterford Blue Lagoon REIT LP	Ownership	100.000	TIAA Board of Governors		
			47-5479437	4933030			1000 Waterford Operating LP	.DE	NIA	Waterford Blue Lagoon REIT LP	Ownership	100.000	TIAA Board of Governors		
			47-5445045	4933115			701-703 Waterford General Partner LLC	.DE	NIA	Waterford Blue Lagoon REIT LP	Ownership	100.000	TIAA Board of Governors		
			47-5471474	4933049			701-703 Waterford Operating LP	.DE	NIA	Waterford Blue Lagoon REIT LP	Ownership	100.000	TIAA Board of Governors		
			82-2631273	5165557			Waterford Core REIT General Partner LLC	.DE	NIA	Waterford Blue Lagoon LP	Ownership	100.000	TIAA Board of Governors		
			82-2646233	5165566			Waterford Core REIT LP	.DE	NIA	Waterford Blue Lagoon LP	Ownership	100.000	TIAA Board of Governors		
				5483578			Waterford Core 800 REIT General Partner LLC	.DE	NIA	Waterford Core REIT LP	Ownership	100.000	TIAA Board of Governors		
			84-3541603	5483523			Waterford Core 800 REIT LP	.DE	NIA	Waterford Core REIT LP	Ownership	100.000	TIAA Board of Governors		
			81-0733012	4930217			Waterford Core General Partner LLC	.DE	NIA	Waterford Core 800 REIT LP	Ownership	100.000	TIAA Board of Governors		
			47-5587163	4928661			Waterford Core Operating LP	.DE	NIA	Waterford Core 800 REIT LP	Ownership	100.000	TIAA Board of Governors		
			82-2672297	5165539			Waterford Core II General Partner LLC	.DE	NIA	Waterford Core REIT LP	Ownership	100.000	TIAA Board of Governors		
			82-2663579	5165548			Waterford Core II Operating LP	.DE	NIA	Waterford Core REIT LP	Ownership	100.000	TIAA Board of Governors		
							Teachers Insurance and Annuity Association of America								
			81-2146865	5041688			TEFF Holdco LLC	.DE	NIA	TEFF Holdco LLC	Ownership	100.000	TIAA Board of Governors		
			98-1310748	5041660			TIAA European Farmland Fund GP LP	.CYM	NIA	TEFF Holding S.a.r.l	Ownership	50.000	TIAA Board of Governors		300
			98-1310748	5042658			TIAA European Farmland Fund LP	.CYM	NIA	TEFF Holdco LLC	Management		TIAA Board of Governors		
				5043066			TEFF Holding S.a.r.l	.LUX	NIA	TIAA European Farmland Fund LP	Ownership	100.000	TIAA Board of Governors		
				5354810			Areal III Spolka z o.o.	.POL	NIA	TEFF Holding S.a.r.l	Ownership	100.000	TIAA Board of Governors		
							Hodowla Zwierząt Zarodowych Choczewo Spolka z o.o.	.POL	NIA	Areal III SP. z o.o.	Ownership	100.000	TIAA Board of Governors		
				5424151			Hodowla Zwierząt Zarodowych Wierzychucino Spolka z o.o.	.POL	NIA	Areal III SP. z o.o.	Ownership	100.000	TIAA Board of Governors		
				5425082			Hodowla Zwierząt Zarodowych Zarnowiec Spolka z o.o.	.POL	NIA	Areal III SP. z o.o.	Ownership	100.000	TIAA Board of Governors		
				5424094			Dangro Invest SA	.DNK	NIA	TEFF Holding S.a.r.l	Ownership	100.000	TIAA Board of Governors		
			5093856				AGAT Spolka z o.o.	.POL	NIA	Dangro Invest SA	Ownership	100.000	TIAA Board of Governors		
			5116456				AGRA Spolka z o.o.	.POL	NIA	Dangro Invest SA	Ownership	100.000	TIAA Board of Governors		
			5117408				AGRAMAX Spolka z o.o.	.POL	NIA	Dangro Invest SA	Ownership	100.000	TIAA Board of Governors		
			5116447				AGRIFARM Spolka z o.o.	.POL	NIA	Dangro Invest SA	Ownership	100.000	TIAA Board of Governors		
			5116429				AGRO - DUBLINY SP. z o.o.	.POL	NIA	Dangro Invest SA	Ownership	100.000	TIAA Board of Governors		
			5117332				AGROLAND Spolka z o.o.	.POL	NIA	Dangro Invest SA	Ownership	100.000	TIAA Board of Governors		
			5117417				AGROSERVICE Spolka z o.o.	.POL	NIA	Dangro Invest SA	Ownership	100.000	TIAA Board of Governors		
			5117341				AMAL Spolka z o.o.	.POL	NIA	Dangro Invest SA	Ownership	100.000	TIAA Board of Governors		
			5117350				CISY Spolka z o.o.	.POL	NIA	Dangro Invest SA	Ownership	100.000	TIAA Board of Governors		
			5474763				KOLNO Spolka z o.o.	.POL	NIA	Dangro Invest SA	Ownership	100.000	TIAA Board of Governors		
			5117369				MILKOWO Sp. Z o.o.	.POL	NIA	Dangro Invest SA	Ownership	100.000	TIAA Board of Governors		
			5117378				SATOPY Spolka z o.o.	.POL	NIA	Dangro Invest SA	Ownership	100.000	TIAA Board of Governors		
			5117396				SEE-AGRO SP. z o.o.	.POL	NIA	Dangro Invest SA	Ownership	100.000	TIAA Board of Governors		
			5117387				SOBIERADZ Spolka z o.o.	.POL	NIA	Dangro Invest SA	Ownership	100.000	TIAA Board of Governors		
			5117695				Pszenrol SA	.POL	NIA	Dangro Invest SA	Ownership	100.000	TIAA Board of Governors		
			5104556				BUDUS Spolka z o.o.	.POL	NIA	Pszenrol SA	Ownership	100.000	TIAA Board of Governors		
			5117435				LOZICE Sp. z o.o.	.POL	NIA	Pszenrol SA	Ownership	100.000	TIAA Board of Governors		
			5117798				OGARDY SP. z o.o.	.POL	NIA	Pszenrol SA	Ownership	100.000	TIAA Board of Governors		
			5116492				ROLA Spolka z o.o.	.POL	NIA	Pszenrol SA	Ownership	100.000	TIAA Board of Governors		
			5117640				ROLPOL Spolka z o.o.	.POL	NIA	Pszenrol SA	Ownership	100.000	TIAA Board of Governors		
			5117659				ROLZBUD Spolka z o.o.	.POL	NIA	Pszenrol SA	Ownership	100.000	TIAA Board of Governors		
			5117668				SZAFIR SP. z o.o.	.POL	NIA	Pszenrol SA	Ownership	100.000	TIAA Board of Governors		
			5116465				WALICHNOWY Sp. z o.o.	.POL	NIA	Pszenrol SA	Ownership	100.000	TIAA Board of Governors		
			5117761				WIEZINY SP. z o.o.	.POL	NIA	Pszenrol SA	Ownership	100.000	TIAA Board of Governors		
			5117770												

SCHEDULE Y
PART 1A - DETAIL OF INSURANCE HOLDING COMPANY SYSTEM

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				5117789			ZIEMROL Spolka z o.o.	.POL	NIA	Pszenrol SA	Ownership	100.000	TIAA Board of Governors		
				5098486			Adamas SA	.POL	NIA	Pszenrol SA	Ownership	100.000	TIAA Board of Governors		
				5116586			AMBER SP. z o.o.	.POL	NIA	Adamas SA	Ownership	100.000	TIAA Board of Governors		
				5117444			CIESZYSLAW SP z o.o.	.POL	NIA	Adamas SA	Ownership	100.000	TIAA Board of Governors		
				5116522			JAROSLAWSKO I SP. z o.o.	.POL	NIA	Adamas SA	Ownership	100.000	TIAA Board of Governors		
				5116513			JAROSLAWSKO II SP. z o.o.	.POL	NIA	Adamas SA	Ownership	100.000	TIAA Board of Governors		
				5117462			JASIONNO Spolka z o.o.	.POL	NIA	Adamas SA	Ownership	100.000	TIAA Board of Governors		
				5116483			OPAL SP z o.o.	.POL	NIA	Adamas SA	Ownership	100.000	TIAA Board of Governors		
				5117677			TETYN SP. z o.o.	.POL	NIA	Adamas SA	Ownership	100.000	TIAA Board of Governors		
				5354801			Gospodarstwo Okopy Sp. z o.o.	.POL	NIA	TEFF Holding S.a.r.l	Ownership	100.000	TIAA Board of Governors		
				5724115			Agrohop Bielice Sp. z o.o.	.POL	NIA	Gospodarstwo Okopy Sp. z o.o.	Ownership	100.000	TIAA Board of Governors		
				5473458			Agrohop Service Sp. z o.o.	.POL	NIA	Agrohop Bielice Sp. z o.o.	Ownership	100.000	TIAA Board of Governors		
				5473467			Agrohop Sp. z o.o.	.POL	NIA	Agrohop Bielice Sp. z o.o.	Ownership	100.000	TIAA Board of Governors		
				5473476			Agrohop Bis Sp. z o.o.	.POL	NIA	Agrohop Sp. z o.o.	Ownership	100.000	TIAA Board of Governors		
				5700613			Cieszanowice Solar Park sp. z o.o.	.POL	NIA	Gospodarstwo Okopy Sp. z o.o.	Ownership	100.000	TIAA Board of Governors		
				5424085			Przedsiębiorstwo Rolne Okopy Sp. z o.o.	.POL	NIA	Gospodarstwo Okopy Sp. z o.o.	Ownership	100.000	TIAA Board of Governors		
			84-3332496	5482272			TGA 10th Street Business Park LLC	.DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			82-1645257	5183412			TGA 127-137 Franklin LLC	.DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			87-1739826	5653607			TGA 26600 26700 Aliso Viejo Parkway LLC	.DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			81-2769108	5012389			TGA 299 Franklin LLC	.DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			83-2957526	5353747			TGA 3401 North Ashton Blvd LLC	.DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			82-4830474	5371899			TGA 3851 Grandpine Way LLC	.DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			81-3988795	5049479			TGA 600 College Road LLC	.DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			88-0637658	5720152			TGA 601D Operating Member LLC	.DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			83-2548459	5474231			TGA 730 Third Avenue Owner LLC	.DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			87-1740428	5653081			TGA 8500 8551 Research Way LLC	.DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			82-2225812	5353886			TGA APAC Fund Holdings, LLC	.DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			98-1429292	5593169			Asia Pacific Cities Fund, FCP	.LUX	NIA	TGA APAC Fund Holdings, LLC	Management		TIAA Board of Governors		3300
			82-2311300	5477027			TGA APAC RE Holdings Pte. Ltd.	.SGP	NIA	TGA APAC Fund Holdings, LLC	Ownership	100.000	TIAA Board of Governors		
			98-1429292	5593169			TGA Real Estate Fund Holdings, LLC	.DE	NIA	TGA APAC Fund Holdings, LLC	Ownership	100.000	TIAA Board of Governors		
							Asia Pacific Cities Fund, FCP	.LUX	NIA	TGA Real Estate Fund Holdings, LLC	Management		TIAA Board of Governors		3300
			87-4097244	5687929			TGA ASI Eagles Landing Investor Member LLC	.DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			88-1120507				TGA ASI Mission Trails Investor Member LLC	.DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			86-3673675	5606014			TGA ASI Monte Vista Investor Member LLC	.DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			86-2376987	5609800			TGA ASI Riverstone Investor Member LLC	.DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			87-3063209	5657306			TGA ASI Sage Investor Member LLC	.DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			88-1120056				TGA ASI Sierra Vista Investor Member LLC	.DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		

SCHEDULE Y
PART 1A - DETAIL OF INSURANCE HOLDING COMPANY SYSTEM

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			84-3830265	5500363			TGA Auburn Business Park LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			84-3285557	5495487			TGA Aurora DC III LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			84-3475931	5515237			TGA Baltimore IC LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			83-1851559	5353868			TGA Barnes Canyon Life Science LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			84-3303586	5482245			TGA Beckwith Farms LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			84-3314123	5482236			TGA Bedford Park LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			85-4073425	5592649			TGA Boulder Creek LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			85-4073222	5592667			TGA Bridge Creek LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			84-3441362	5514119			TGA Bridge Point LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			84-2939313	5482209			TGA Cactus DC I LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			84-2939493	5482900			TGA Cactus DC II LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			84-3523623	5515228			TGA Capital Beltway CC LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			84-3487859	5515321			TGA Center Square DC LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			84-3314029	5482861			TGA Centerpointe LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			83-3799476	5424142			TGA Central Green LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			84-4376282	5586385			TGA Central Square Investor Member LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			84-4880676	5586394			TGACSE Central Square Holdings LLC	DE	NIA	TGA Central Square Investor Member LLC	Ownership	95.000	TIAA Board of Governors		
			84-4893448	5586433			TGACSE Central Square LLC	DE	NIA	TGACSE Central Square Holdings LLC	Ownership	100.000	TIAA Board of Governors		
			84-4893383	5586406			TGACSE Morningside LLC	DE	NIA	TGACSE Central Square Holdings LLC	Ownership	100.000	TIAA Board of Governors		
			84-4924033	5586424			TGACSE Triangle LLC	DE	NIA	TGACSE Central Square Holdings LLC	Ownership	100.000	TIAA Board of Governors		
							TGA Connections at Athens Investor Member LLC			Teachers Insurance and Annuity Association of America					
			83-0780652	5375123				DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
							PEP-TH Athens, LLC	DE	NIA	TGA Connections at Athens Investor Member LLC	Ownership	98.000	TIAA Board of Governors		
			61-1892161	5597989			PEP Athens, LLC	DE	NIA	PEP-TH Athens, LLC	Ownership	100.000	TIAA Board of Governors		
			83-1011298	5597998						Teachers Insurance and Annuity Association of America					
			85-1065983	5592706			TGA Creekside Village Investor Member LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			84-3740496	5482964			TGA East Coronado Industrial LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			84-3740590	5482937			TGA East Miraloma Industrial LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			87-1762569	5620476			TGA Eastridge Investor Member LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
							TGA King EastRidge Venture LLC	DE	NIA	TGA Eastridge Investor Member LLC	Ownership	95.000	TIAA Board of Governors		
							TGA King EastRidge Owner LLC	DE	NIA	TGA King EastRidge Venture LLC	Ownership	100.000	TIAA Board of Governors		
			84-3740669	5482946			TGA Emerald Corporate Park LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		

SCHEDULE Y
PART 1A - DETAIL OF INSURANCE HOLDING COMPANY SYSTEM

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Group Code	Group Name	NAIC Company Code	ID Number	Federal RSSD	CIK	Name of Securities Exchange if Publicly Traded (U.S. or International)	Names of Parent, Subsidiaries Or Affiliates	Domi-ciliary Location	Relation-ship to Reporting Entity	Directly Controlled by (Name of Entity/Person)	Type of Control (Ownership, Board, Management, Attorney-in-Fact, Influence, Other)	If Control is Ownership Provide Percen-tage	Ultimate Controlling Entity(ies)/Person(s)	Is an SCA Filing Re-quired? (Yes/No)	*
			84-3502383	5515291			TGA Englewood DC LLC	.DE	.NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			85-4076202	5615883			TGA Enterprise Park Business Center LLC	.DE	.NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			83-2810033	5353774			TGA European RE Holdings I, LLC	.DE	.NIA	Teachers Insurance and Annuity Association of America	Ownership	99.000	TIAA Board of Governors		3400
				5371620			Eagle GPCo S.à r.l.	.LUX	.NIA	TGA European RE Holdings I, LLC	Ownership	89.500	TIAA Board of Governors		
				5371639			Eagle Partnership SCSp	.LUX	.NIA	TGA European RE Holdings I, LLC	Ownership	89.500	TIAA Board of Governors		
				5482348			Eagle JVCo S.à r.l.	.LUX	.NIA	Eagle Partnership SCSp	Ownership	100.000	TIAA Board of Governors		
				5482375			CB Krieau Dzwei GmbH	.AUT	.NIA	Eagle JVCo S.à r.l.	Ownership	100.000	TIAA Board of Governors		
				5493867			VIE Student House A GmbH & Co KG	.AUT	.NIA	CB Krieau Dzwei GmbH	Ownership	6.000	TIAA Board of Governors		3500
				5486373			Eagle Austria Holdings S.à r.l.	.LUX	.NIA	Eagle JVCo S.à r.l.	Ownership	100.000	TIAA Board of Governors		
				5493867			VIE Student House A GmbH & Co KG	.AUT	.NIA	Eagle Austria Holdings S.à r.l.	Ownership	94.000	TIAA Board of Governors		3500
							Eagle DevCo, Lda	.PRT	.NIA	Eagle JVCo S.à r.l.	Ownership	100.000	TIAA Board of Governors		
							Eagle Italy 1 S.r.l.	.ITA	.NIA	Eagle JVCo S.à r.l.	Ownership	100.000	TIAA Board of Governors		
				5482366			Studenthouse Rua Manuel Pereira, S.A	.PRT	.NIA	Eagle JVCo S.à r.l.	Ownership	100.000	TIAA Board of Governors		
				5654631			Wroc?aw Fabryczna 22 sp. z o.o.	.POL	.NIA	Eagle JVCo S.à r.l.	Ownership	100.000	TIAA Board of Governors		
				5654622			Wroc?aw Prusa 9 sp. z o.o.	.POL	.NIA	Eagle JVCo S.à r.l.	Ownership	100.000	TIAA Board of Governors		
							Preferred Housing Living Limited	.GBR	.NIA	TGA European RE Holdings I, LLC	Ownership	100.000	TIAA Board of Governors		
							PHL Leeds Limited								
							PHL Nottingham Limited	.GBR	.NIA	Preferred Housing Living Limited	Ownership	100.000	TIAA Board of Governors		
							PHL Telford Limited	.GBR	.NIA	Preferred Housing Living Limited	Ownership	100.000	TIAA Board of Governors		
							TGA Housing Holding S.à r.l.	.LUX	.NIA	TGA European RE Holdings I, LLC	Ownership	100.000	TIAA Board of Governors		
							TIAA General Account Housing German Services GmbH	.DEU	.NIA	TGA Housing Holding S.à r.l.	Ownership	100.000	TIAA Board of Governors		
							TIAA General Account Housing German Property GmbH	.DEU	.NIA	TGA Housing Holding S.à r.l.	Ownership	100.000	TIAA Board of Governors		
				5726921			TK Living GPCo Sarl	.LUX	.NIA	TGA European RE Holdings I, LLC	Ownership	90.000	TIAA Board of Governors		
				5353812			TK Living Partnership SCSp	.LUX	.NIA	TGA European RE Holdings I, LLC	Ownership	90.000	TIAA Board of Governors		
				5653803			TK Living JVCo Sarl	.LUX	.NIA	TK Living Partnership SCSp	Ownership	100.000	TIAA Board of Governors		
				5653830			Lotomint S.L.	.ESP	.NIA	TK Living JVCo Sarl	Ownership	100.000	TIAA Board of Governors		
				5653876			Carminsin S.L.	.ESP	.NIA	Lotomint S.L.	Ownership	100.000	TIAA Board of Governors		
							Crisatino S.L.	.ESP	.NIA	Lotomint S.L.	Ownership	100.000	TIAA Board of Governors		
							Lucerini, S.L.	.ESP	.NIA	Lotomint S.L.	Ownership	100.000	TIAA Board of Governors		
				5653867			Naraliso S.L.	.ESP	.NIA	Lotomint S.L.	Ownership	100.000	TIAA Board of Governors		
				5653858			Sanfergar S.L.	.ESP	.NIA	Lotomint S.L.	Ownership	100.000	TIAA Board of Governors		
				5653885			Tinesen S.L.	.ESP	.NIA	Lotomint S.L.	Ownership	100.000	TIAA Board of Governors		
							Vesterone, S.L.	.ESP	.NIA	Lotomint S.L.	Ownership	100.000	TIAA Board of Governors		
							Weslinero S.L.	.ESP	.NIA	Lotomint S.L.	Ownership	100.000	TIAA Board of Governors		
			88-1762996	5729164			TGA European RE Holdings II LLC	.DE	.NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			83-2810033	5353774			TGA European RE Holdings I, LLC	.DE	.NIA	TGA European RE Holdings II LLC	Ownership	1.000	TIAA Board of Governors		3400
				5049497			TGA FC Investor Member LLC	.DE	.NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			82-2708488	5709018			Fenway Center Holding 1-2, LLC	.DE	.NIA	TGA FC Investor Member LLC	Ownership	50.000	TIAA Board of Governors		
			82-2708488				Fenway Center Owner 1-2, LLC	.DE	.NIA	Fenway Center Holding 1-2, LLC	Ownership	100.000	TIAA Board of Governors		
			84-3523773	5515282			TGA Franklin Square IC I LLC	.DE	.NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			84-3523813	5533530			TGA Franklin Square IC II LLC	.DE	.NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			84-3332846	5482919			TGA Freeport DC LLC	.DE	.NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		

STATEMENT AS OF SEPTEMBER 30, 2022 OF THE TIAA-CREF LIFE INSURANCE COMPANY

SCHEDULE Y

PART 1A - DETAIL OF INSURANCE HOLDING COMPANY SYSTEM

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Group Code	Group Name	NAIC Company Code	ID Number	Federal RSSD	CIK	Name of Securities Exchange if Publicly Traded (U.S. or International)	Names of Parent, Subsidiaries Or Affiliates	Domi-ciliary Location	Relation-ship to Reporting Entity	Directly Controlled by (Name of Entity/Person)	Type of Control (Ownership, Board, Management, Attorney-in-Fact, Influence, Other)	If Control is Owner-ship Provide Percen-tage	Ultimate Controlling Entity(ies)/Person(s)	Is an SCA Filing Re-quired? (Yes/No)	*
			84-3740749	5482928			TGA Greenstone Logistics Center LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			84-3463522	3997186			TGA Hagerstown DC LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			84-3475313	5515264			TGA Hollins End LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			84-3523721	5515312			TGA I-95 DC LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			81-3602072	5040551			TGA Japan Holdings, LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			84-3718861	5444908			TGA JL Investor Member LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			84-4376472	5613320			TGA JL II Investor Member LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			87-1280436	5619096			TGA JL III CT Investor Member LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			85-1292481	5656783			TGA JL MCF Investor Member LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			87-4248374	590451			TGA JL MCF II Investor Member LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			85-4075985	5592676			TGA Lakes at Indian Creek Investor Member LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			84-3523582	5586349			TGA Landover DC LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			88-1913177	5729931			TGA Lonestar Investor Member LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			88-2029531	5741559			TGA BSL Lonestar JV LLC	DE	NIA	TGA Lonestar Investor Member LLC	Ownership	75.000	TIAA Board of Governors		
			88-1913518	5741607			TGA BSL Lonestar Owner LLC	DE	NIA	TGA BSL Lonestar JV LLC	Ownership	100.000	TIAA Board of Governors		
			87-3398451	5687947			TGA Los Tres Investor Member LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			84-4773958	5592902			TGA Maryland Farms Holdings LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			84-4775239	5538834			U.S. Cities Office Fund Maryland Farms Co-Invest	DE	NIA	TGA Maryland Farms Holdings LLC	Ownership	49.000	TIAA Board of Governors		3600
			84-2765297	5483028			TGA MH Investor Member LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			86-2908291	5653979			TGA MH III Investor Member LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			82-1169084	5354799			TGA MKP Member LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			82-1198745	5510214			TGA MKP Venture LLC	DE	NIA	TGA MKP Member LLC	Ownership	60.000	TIAA Board of Governors		
			82-1187131	5529038			TGA MKP REIT LLC	DE	NIA	TGA MKP Venture LLC	Ownership	100.000	TIAA Board of Governors		
			87-3883343	5690479			TGA MOB Prescott Member LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			87-3883887	5690518			TGANX MOB Prescott Venture LLC	DE	NIA	TGA MOB Prescott Member LLC	Ownership	90.000	TIAA Board of Governors		
			87-3883657	5690527			TGANX MOB Prescott LLC	DE	NIA	TGANX MOB Prescott Venture LLC	Ownership	100.000	TIAA Board of Governors		
			85-3566018	5615847			TGA MOB South Boerne LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			81-4232788	5075722			TGA Montague Investor Member, LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
				5093780			RCD TGA Pierrepont Partners LLC	DE	NIA	TGA Montague Investor Member, LLC	Ownership	51.600	TIAA Board of Governors		
			81-3542251	5040542			TGA Montrose Residences Investor Member, LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		

SCHEDULE Y
PART 1A - DETAIL OF INSURANCE HOLDING COMPANY SYSTEM

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
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			81-2872565	5047635			The Residences at La Colombe d'Or Investors LLC	DE	NIA	TGA Montrose Residences Investor Member, LLC	Ownership	90.000	TIAA Board of Governors		
			83-1916152	5353877			TGA MS Self Storage Investor Member LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			83-2379583	5354922			Morningstar NRE Self Storage Portfolio LLC	DE	NIA	TGA MS Self Storage Investor Member LLC	Ownership	90.000	TIAA Board of Governors		
							MSC Bentonville, LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Governors		
							MSC Boerne, LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Governors		
							MSC Buda, LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Governors		
							MSC Carolinas, LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Governors		
							MSC Dam Storage, LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Governors		
							MSC Evans Rd, LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Governors		
							MSC Greenhouse, LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Governors		
							MSC Highway 521 Storage, LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Governors		
							MSC Kemps Landing, LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Governors		
							MSC Midtown Atlanta, LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Governors		
							MSC MTP, LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Governors		
							MSC Peachtree, LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Governors		
							MSC South End, LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Governors		
							MSC Spring Branch, LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Governors		
							MSC SW Austin, LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Governors		
							MSC Tallahassee, LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Governors		
							MSC Yorktown, LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Governors		
			83-4153778	5482870			TGA Near East LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			85-1291326	5652785			TGA Nex Investor LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			83-4139835	5482889			TGA NJAHP Investor Member LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			84-4574378	5613263			TGA NJAHP II Investor Member LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			85-2859128	5585753			TGA NYCAHP I Investor Member LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			84-3740851	5482898			TGA North Miller Industrial LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			84-3759605	5482852			TGA North Orange Industrial LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		

SCHEDULE Y
PART 1A - DETAIL OF INSURANCE HOLDING COMPANY SYSTEM

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			84-4774106	5586965			TGA Ohare Logistics Center IV LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			83-1934291	5354454			TGA Oak View Mall LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			85-3510351	5595369			TGA Octave Apartments LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			87-3969114	5689642			TGA One Norman Square LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			85-4396119	5596795			TGA Pacific Landing LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			87-1595214	5619087			TGA Pacific Landing Phase II LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			84-3254652	5482982			TGA Park 355 LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			84-3254103	5482991			TGA Park 55 LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			84-3254979	5482955			TGA Park 88 LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			87-3029971	5687956			TGA PC Charleston Club Investor Member LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			85-3076626	5586004			TGA PC MCF Investor Member LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			87-2112453	5655665			TGA PC Richmond Investor Member LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
							TGA Peaceable Investor Member LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
							TGA Peaceable Investor Member II LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
							TGA Peaceable Investor Member III LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			88-3094495				TGA Peaceable Investor Member 2022 LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			83-3250233	5400605			TGA Pleasant Prairie Center LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			84-3285659	5482973			TGA Prairie Point LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			84-3830675	5514070			TGA Renton Park 405 LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			87-3533472	5687910			TGA River Club Apartments LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			87-3533710	5690488			TGA River Club Townhomes LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			83-2938932	5353765			TGA Sandy Commerce Park LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			84-3487605	5586451			TGA Somerset IC LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			84-3476142	5515255			TGA Somerset IC II LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			85-2863856	5592694			TGA Sparrow Investor LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			85-2574637	5616031			Sparrow Realty Investment I LLC	DE	NIA	TGA Sparrow Investor LLC	Ownership	95.000	TIAA Board of Governors		
							Sparrow Realty Investment WHF, LLC	DE	NIA	Sparrow Realty Investment I LLC	Ownership	100.000	TIAA Board of Governors		
							SN Arizona LLC	DE	NIA	Sparrow Realty Investment WHF, LLC	Ownership	100.000	TIAA Board of Governors		
							SN DFW LLC	DE	NIA	Sparrow Realty Investment WHF, LLC	Ownership	100.000	TIAA Board of Governors		

SCHEDULE Y
PART 1A - DETAIL OF INSURANCE HOLDING COMPANY SYSTEM

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Group Code	Group Name	NAIC Company Code	ID Number	Federal RSSD	CIK	Name of Securities Exchange if Publicly Traded (U.S. or International)	Names of Parent, Subsidiaries Or Affiliates	Domi-ciliary Loca-tion	Rela-tion-ship to Reporting Entity	Directly Controlled by (Name of Entity/Person)	Type of Control (Ownership, Board, Management, Attorney-in-Fact, Influence, Other)	If Control is Owner-ship Provide Percen-tage	Ultimate Controlling Entity(ies)/Person(s)	Is an SCA Filing Re-quired? (Yes/No)	*
			86-1703020	5652721			SN SA LLC	DE	NIA	Sparrow Realty Investment WHF, LLC	Ownership	100.000	TIAA Board of Governors		
			85-3330672	5656840			SN Tampa LLC	DE	NIA	Sparrow Realty Investment WHF, LLC	Ownership	100.000	TIAA Board of Governors		
							Sparrow Homes US LLC	DE	NIA	Sparrow Realty Investment WHF, LLC	Ownership	100.000	TIAA Board of Governors		
			87-4748024	5704796			TGA Sparrow II Investor LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
							Teachers Insurance and Annuity Association of America								
			83-2063402	5353804			TGA SP-MPC Housing Investor Member LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			83-2147240	5354904			TGA-SP Housing Venture I LLC	DE	NIA	TGA SP-MPC Housing Investor Member LLC	Ownership	87.500	TIAA Board of Governors		
			83-2123785	5371611			TGA SP-MPC Housing Venture I LLC	DE	NIA	TGA-SP Housing Venture I LLC	Ownership	97.000	TIAA Board of Governors		
			83-1869400	5593208			MPSP Ashwood Homes LLC	DE	NIA	TGA SP-MPC Housing Venture I LLC	Ownership	100.000	TIAA Board of Governors		
							Morningstar NRE Self Storage Portfolio LLC								
			83-1869494	5593196			MPSP Ashwood MHC LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Governors		
			84-2331138	5492963			MPSP Beltline Homes LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Governors		
			84-2345909	5492833			MPSP Beltline Lender LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Governors		
			84-2216330	5492860			MPSP Beltline MHC LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Governors		
			83-1088601				MPSP Center Grove Homes LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Governors		
			83-2290040				MPSP Center Grove Lender LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Governors		
			83-1076792				MPSP Center Grove MHC LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Governors		
			84-2158715	5492824			MPSP Colinas South Homes LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Governors		
			84-2158791	5492851			MPSP Colinas South Lender LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Governors		
			84-2169896	5492842			MPSP Colinas South MHC LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Governors		
			84-2169973	5492712			MPSP Estancia Homes LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Governors		
			84-2277681	5492682			MPSP Estancia Lender LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Governors		
			84-1976109	5492691			MPSP Estancia MHC LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Governors		
			83-4260197	5493232			MPSP Fairlane Oaks Homes LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Governors		
			83-4283444	5493175			MPSP Fairlane Oaks Lender LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Governors		
			83-4241248	5493308			MPSP Fairlane Oaks MHC LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Governors		
			84-2290488	5492954			MPSP Lakeview Homes LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Governors		
			84-2319726	5492972			MPSP Lakeview Lender LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Governors		
			84-2199063	5492703			MPSP Lakeview MHC LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Governors		
			83-1213262	5593226			MPSP Lemon Tree Homes LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Governors		
			83-2548459	5593217			MPSP Lemon Tree MHC LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Governors		
			83-1230821	5593244			MPSP Mobile Gardens Homes LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Governors		

SCHEDULE Y
PART 1A - DETAIL OF INSURANCE HOLDING COMPANY SYSTEM

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			83-1230714	5593262			MPSP Mobile Gardens MHC LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Governors		
			84-2379528	5492646			MPSP Parker Homes LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Governors		
			84-2389423	5493269			MPSP Parker Lender LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Governors		
			84-2247177	5493250			MPSP Parker MHC LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Governors		
			84-2277774	5493223			MPSP Seven Oaks Homes LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Governors		
			84-2290439	5493241			MPSP Seven Oaks Lender LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Governors		
			84-2198856	5493205			MPSP Seven Oaks MHC LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Governors		
			83-2700633	5593253			MPSP Shiloh Homes LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Governors		
			83-2725391	5593235			MPSP Shiloh Lender LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Governors		
			83-2700544	5595529			MPSP Shiloh MHC LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Governors		
			84-2428644	5493214			MPSP South Concho Homes LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Governors		
			84-2436652	5493184			MPSP South Concho Lender LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Governors		
			84-2261982	5493193			MPSP South Concho MHC LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Governors		
			83-2736822	5595547			MPSP Stonegate Homes LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Governors		
			83-2736936	5595538			MPSP Stonegate Lender LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Governors		
			83-2725560	5595510			MPSP Stonegate MHC LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Governors		
			84-2319873	5493296			MPSP TC GH Homes LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Governors		
			84-2331064	5493317			MPSP TC GH Lender LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Governors		
			84-2216156	5493278			MPSP TC GH MHC LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Governors		
			84-2389479	5493287			MPSP TC Sherman Homes LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Governors		
			84-2428588	5493027			MPSP TC Sherman Lender LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Governors		
			84-2247220	5493009			MPSP TC Sherman MHC LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Governors		
			84-2345969	5492655			MPSP Wildwood Acres Homes LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Governors		
			84-2361787	5492664			MPSP Wildwood Acres Lender LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Governors		
			84-2239609	5492600			MPSP Wildwood Acres MHC LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Governors		
			84-2361842	5492619			MPSP Wildwood Village Homes LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Governors		
			84-2379481	5492589			MPSP Wildwood Village Lender LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Governors		

STATEMENT AS OF SEPTEMBER 30, 2022 OF THE TIAA-CREF LIFE INSURANCE COMPANY

SCHEDULE Y
PART 1A - DETAIL OF INSURANCE HOLDING COMPANY SYSTEM

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Group Code	Group Name	NAIC Company Code	ID Number	Federal RSSD	CIK	Name of Securities Exchange if Publicly Traded (U.S. or International)	Names of Parent, Subsidiaries Or Affiliates	Domi-ciliary Location	Relation-ship to Reporting Entity	Directly Controlled by (Name of Entity/Person)	Type of Control (Ownership, Board, Management, Attorney-in-Fact, Influence, Other)	If Control is Owner-ship Provide Percen-tage	Ultimate Controlling Entity(ies)/Person(s)	Is an SCA Filing Re-quired? (Yes/No)	*
			84-2239646	5492598			MPSP Wildwood Village MHC LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Governors		
			83-2848324				MPSP Windsong Homes LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Governors		
			83-2848439				MPSP Windsong Lender LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Governors		
			83-2861026				MPSP Windsong MHC LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Governors		
			86-1741788	5606005			TGA SS Self Storage Portfolio Investor Member LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			87-2470916	5652730			TGA SS Self Storage Tranche I Venture LP	DE	NIA	TGA SS Self Storage Portfolio Investor Member LLC	Ownership	96.000	TIAA Board of Governors		
			83-1608525				Seminole Storage Units I LP	DE	NIA	TGA SS Self Storage Tranche I Venture LP	Ownership	100.000	TIAA Board of Governors		
				5742480			TGA T1 SC Durbin Park LP	DE	NIA	TGA SS Self Storage Tranche I Venture LP	Ownership	100.000	TIAA Board of Governors		
				5742462			TGA T1 SC Millenia LP	DE	NIA	TGA SS Self Storage Tranche I Venture LP	Ownership	100.000	TIAA Board of Governors		
				5742471			TGA T1 SC San Marco LP	DE	NIA	TGA SS Self Storage Tranche I Venture LP	Ownership	100.000	TIAA Board of Governors		
				5742453			TGA T1 SC San Antonio LP	DE	NIA	TGA SS Self Storage Tranche I Venture LP	Ownership	100.000	TIAA Board of Governors		
			86-1714431	5606032			TGA SS Self Storage Portfolio Venture LP	DE	NIA	TGA SS Self Storage Portfolio Investor Member LLC	Ownership	96.000	TIAA Board of Governors		
			86-1676505	5608148			TGA SC Beaumont LP	DE	NIA	TGA SS Self Storage Portfolio Venture LP	Ownership	100.000	TIAA Board of Governors		
			86-1623164	5608166			TGA SC Bonita Springs LP	DE	NIA	TGA SS Self Storage Portfolio Venture LP	Ownership	100.000	TIAA Board of Governors		
			86-1624012	5608157			TGA SC Columbus Ford LP	DE	NIA	TGA SS Self Storage Portfolio Venture LP	Ownership	100.000	TIAA Board of Governors		
			86-1623724	5608175			TGA SC Columbus Veterans LP	DE	NIA	TGA SS Self Storage Portfolio Venture LP	Ownership	100.000	TIAA Board of Governors		
			86-1639097	5608205			TGA SC Erie Avenue LP	DE	NIA	TGA SS Self Storage Portfolio Venture LP	Ownership	100.000	TIAA Board of Governors		
			86-1623454	5608193			TGA SC Gainesville LP	DE	NIA	TGA SS Self Storage Portfolio Venture LP	Ownership	100.000	TIAA Board of Governors		
			86-1639333	5608184			TGA SC Germantown LP	DE	NIA	TGA SS Self Storage Portfolio Venture LP	Ownership	100.000	TIAA Board of Governors		
			86-1676901	5608287			TGA SC Glenn Heights LP	DE	NIA	TGA SS Self Storage Portfolio Venture LP	Ownership	100.000	TIAA Board of Governors		
			86-1638763	5608278			TGA SC Global Indy I LP	DE	NIA	TGA SS Self Storage Portfolio Venture LP	Ownership	100.000	TIAA Board of Governors		
			86-1677222	5608269			TGA SC Hansboro Avenue LP	DE	NIA	TGA SS Self Storage Portfolio Venture LP	Ownership	100.000	TIAA Board of Governors		
			86-1677082	5608250			TGA SC Houston LP	DE	NIA	TGA SS Self Storage Portfolio Venture LP	Ownership	100.000	TIAA Board of Governors		
			86-1638905	5608241			TGA SC Indianapolis 29th Street LP	DE	NIA	TGA SS Self Storage Portfolio Venture LP	Ownership	100.000	TIAA Board of Governors		
			86-1639231	5608232			TGA SC Kensington LP	DE	NIA	TGA SS Self Storage Portfolio Venture LP	Ownership	100.000	TIAA Board of Governors		
			86-1676331	5608223			TGA SC Lancaster LP	DE	NIA	TGA SS Self Storage Portfolio Venture LP	Ownership	100.000	TIAA Board of Governors		
			84-3255382	5482665			TGA Sterling DC LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			87-1763260	5620485			TGA TCA Durham Logistics Center Investor Member LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
							TGA TCA Durham Logistics Center LLC	DE	NIA	TGA TCA Durham Logistics Center Investor Member LLC	Ownership	90.000	TIAA Board of Governors		
			85-3509669	5601402			TGA The Apartments at Blakeney LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			84-3093962	5497614			TGA The Warehouse At CH Investor Member LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			84-3055701	5582239			TGAP The Warehouse At CH LLC	DE	NIA	TGA The Warehouse At CH Investor Member LLC	Ownership	98.500	TIAA Board of Governors		
			84-3055465	5586273			TGAP The Warehouse At CH Owner LLC	DE	NIA	TGAP The Warehouse At CH LLC	Ownership	100.000	TIAA Board of Governors		
			86-1749539	5609891			TGA The Warehouse At Ch II Investor Member LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			86-1548653	5727544			TGAP The Warehouse at CH II LLC	DE	NIA	TGA The Warehouse At Ch II Investor Member LLC	Ownership	90.000	TIAA Board of Governors		
			86-1548790	5727571			TGAP The Warehouse at CH II Owner LLC	DE	NIA	TGAP The Warehouse at CH II LLC	Ownership	100.000	TIAA Board of Governors		
			87-4300717	5691609			TGA The Yield Investor Member LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
				5691560			CC TGA The Yield Venture, LLC	DE	NIA	TGA The Yield Investor Member LLC	Ownership	75.000	TIAA Board of Governors		

SCHEDULE Y
PART 1A - DETAIL OF INSURANCE HOLDING COMPANY SYSTEM

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				5691645			CC TGA The Yield, LLC	DE	NIA	CC TGA The Yield Venture, LLC	Ownership	100.000	TIAA Board of Governors		
			88-0947969	5721618			TGA TMO Gladstone GP JV Investor Member LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			88-1150650	5721430			TGA TMO IN Portfolio Investor Member LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			84-3759437	5482601			TGA Tri-State Commerce Center LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			85-3917654	5592685			TGA Twelve100 Apartments LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			87-3992892	5692213			TGA UMH Properties Investor Member LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
							TGA UMH Venture Tranche 1 LLC	DE	NIA	TGA UMH Properties Investor Member LLC	Ownership	60.000	TIAA Board of Governors		
							Sebring Square MHC TGA, LLC	DE	NIA	TGA UMH Venture Tranche 1 LLC	Ownership	100.000	TIAA Board of Governors		
			85-3554787	5615904			TGA University Parcels LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			87-4552535	5704198			TGA University Trails Investor Member LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
				5704415			TGAP University Trails LLC	DE	NIA	TGA University Trails Investor Member LLC	Ownership	97.000	TIAA Board of Governors		
				5704424			TGAP University Trails Owner LLC	DE	NIA	TGAP University Trails LLC	Ownership	100.000	TIAA Board of Governors		
			84-3830895	5514098			TGA Van Dorens West LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			84-3441798	5514100			TGA Vista Point South LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			84-3527380	5515273			TGA Washington DC CC LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			84-2939589	5482571			TGA Westport Distribution Center LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			83-0723201	5375114			TGA Yorktown Apartments LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			81-1994278	5018626			TGAM Agribusiness Fund LP	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	99.700	TIAA Board of Governors		
			87-3750360	5690460			TGAMJC MHC LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			87-3750130	5690497			TGA-MJC Palladian LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			87-3750414	5687938			TGAMJC Van Alen LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			82-2826183	5692679			TIAA Administrative Services LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
				4900500			TIAA CLO I Ltd	CYM	NIA	Teachers Insurance and Annuity Association of America	Management		TIAA Board of Governors		
				5049965			TIAA CLO I LLC	DE	NIA	TIAA CLO I Ltd	Ownership	100.000	TIAA Board of Governors		
			84-1905731				TIAA CLO I Holding, LLC	DE	NIA	TIAA CLO I Ltd	Ownership	100.000	TIAA Board of Governors		
				5157860			TIAA CLO III Ltd	CYM	NIA	Teachers Insurance and Annuity Association of America	Management		TIAA Board of Governors		
				5354780			TIAA CLO III LLC	DE	NIA	TIAA CLO III Ltd	Ownership	100.000	TIAA Board of Governors		
				5371910			TIAA CLO IV Ltd	CYM	NIA	Teachers Insurance and Annuity Association of America	Management		TIAA Board of Governors		
			13-4173396	4599203			TIAA CMBS I, LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			13-4173396	4602774			TIAA CMBS I Trust	DE	NIA	TIAA CMBS I, LLC	Ownership	100.000	TIAA Board of Governors		
			47-4570655	4900498			TIAA Diversified Public Investments, LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		

STATEMENT AS OF SEPTEMBER 30, 2022 OF THE TIAA-CREF LIFE INSURANCE COMPANY

SCHEDULE Y
PART 1A - DETAIL OF INSURANCE HOLDING COMPANY SYSTEM

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			90-0615674	3838857	1502749		TIAA FSB Holdings, Inc.DE	.NIA	Teachers Insurance and Annuity Association of America	Ownership.....	100.000	TIAA Board of Governors		
			37-1718179	5279511			Everbank Funding, LLC .....	.DE	.NIA	TIAA FSB Holdings, Inc.	Ownership.....	100.000	TIAA Board of Governors		
			59-3531592	2735146			TIAA, FSB .....	.US	.NIA	TIAA FSB Holdings, Inc.	Ownership.....	100.000	TIAA Board of Governors		
			59-3547521	4318057			AMC Holding, Inc. ....	.FL	.NIA	TIAA, FSB	Ownership.....	100.000	TIAA Board of Governors		
			43-1823879	4318066			Customerone Financial Network, Inc. ....	.DE	.NIA	AMC Holding, Inc.	Ownership.....	100.000	TIAA Board of Governors		
			36-1208070	4460817			Business Property Lending, Inc. ....	.DE	.NIA	TIAA, FSB	Ownership.....	100.000	TIAA Board of Governors		
			20-0716627	4318226			TIAA Commercial Finance, Inc. ....	.DE	.NIA	TIAA, FSB	Ownership.....	100.000	TIAA Board of Governors		
			81-1241294	4979391			TIAA GBS Holding LLC .....	.DE	.NIA	Teachers Insurance and Annuity Association of America	Ownership.....	100.000	TIAA Board of Governors		
							TIAA GBS Singapore Holding Company Pte. Ltd. ....	.SGP	.NIA	TIAA GBS Holding LLC	Ownership.....	100.000	TIAA Board of Governors		
				5003789			TIAA Global Business Services (India) Private Limited .....	.IND	.NIA	TIAA GBS Singapore Holding Company Pte. Ltd.	Ownership.....	100.000	TIAA Board of Governors		
				5006838						Teachers Insurance and Annuity Association of America	Ownership.....	100.000	TIAA Board of Governors		
			27-5551198	4599267			TIAA Global Ag Holdco LLC .....	.DE	.NIA	TIAA Global Ag Holdco LLC	Ownership.....	100.000	TIAA Board of Governors		
			45-5044364	4627124			Global Agriculture AIV (US), LLC .....	.DE	.NIA	TIAA Global Ag Holdco LLC	Ownership.....	98.100	TIAA Board of Governors		
			45-1531685	4643580			Global Ag Properties USA LLC .....	.DE	.NIA	Global Agriculture AIV (US), LLC	Management.....		TIAA Board of Governors		
			80-0843991	4644877			Loma del Rio Vineyards, LLC .....	.DE	.NIA	Global Ag Properties USA LLC	Ownership.....	55.000	TIAA Board of Governors		1600
			46-2577906	4643973			Sugarloaf Vineyard, LLC .....	.DE	.NIA	Global Ag Properties USA LLC	Ownership.....	100.000	TIAA Board of Governors		
			47-1083514	4753582			Global Agriculture II AIV (US) LLC .....	.DE	.NIA	TIAA Global Ag Holdco LLC	Ownership.....	100.000	TIAA Board of Governors		
			47-1069783	4755438			Global Ag Properties II USA LLC .....	.DE	.NIA	Global Agriculture II AIV (US) LLC	Ownership.....	50.000	TIAA Board of Governors		
			27-5551341	4639994			TIAA-CREF Global Agriculture LLC .....	.DE	.NIA	TIAA Global Ag Holdco LLC	Management.....		TIAA Board of Governors		
				4643357			Global AG Properties Australia Pty, Ltd .....	.AUS	.NIA	TIAA-CREF Global Agriculture LLC	Ownership.....	100.000	TIAA Board of Governors		
				4643571			Global AG Properties Australia Trust .....	.AUS	.NIA	TIAA-CREF Global Agriculture LLC	Ownership.....	100.000	TIAA Board of Governors		
				4643094			Nova Gaia Brasil Participaco Ltda. ....	.BRA	.NIA	TIAA-CREF Global Agriculture LLC	Ownership.....	99.990	TIAA Board of Governors		3700
				4644493			Tellus Brasil Participaco S.A. ....	.BRA	.NIA	Nova Gaia Brasil Participaco Ltda.	Management.....		TIAA Board of Governors		3800
				4644484			Terraviva Brasil Participaco Ltda. ....	.BRA	.NIA	Nova Gaia Brasil Participaco Ltda.	Ownership.....	99.990	TIAA Board of Governors		3900
				4644493			Terraviva Brasil Participaco S.A. ....	.BRA	.NIA	Terraviva Brasil Participaco Ltda.	Management.....		TIAA Board of Governors		3800
				4863490			Agrobio Investimentos e Participações S.A. ....	.BRA	.NIA	Tellus Brasil Participaco S.A.	Ownership.....	100.000	TIAA Board of Governors		
				4646321			Cerpon Participações S.A. ....	.BRA	.NIA	Tellus Brasil Participaco S.A.	Ownership.....	100.000	TIAA Board of Governors		
				4725758			Nova Ibiajara Propriedades Agrícolas S.A. ....	.BRA	.NIA	Tellus Brasil Participaco S.A.	Ownership.....	100.000	TIAA Board of Governors		
				4653954			Tellus Bahia Propriedades Agrícolas Ltda. ....	.BRA	.NIA	Tellus Brasil Participaco S.A.	Ownership.....	100.000	TIAA Board of Governors		
				4644505			Terra do Sol Propriedades Agrícolas S.A. ....	.BRA	.NIA	Tellus Brasil Participaco S.A.	Ownership.....	100.000	TIAA Board of Governors		
				4644514			Terrainvest Propriedades Agrícolas S.A. ....	.BRA	.NIA	Tellus Brasil Participaco S.A.	Ownership.....	100.000	TIAA Board of Governors		
				4646282			Tparone Participações S.A. ....	.BRA	.NIA	Tellus Brasil Participaco S.A.	Ownership.....	100.000	TIAA Board of Governors		
				4646303			Toperone Agrícola S.A. ....	.BRA	.NIA	Tparone Participações S.A.	Ownership.....	100.000	TIAA Board of Governors		
				4646291			Topartwo Participações S.A. ....	.BRA	.NIA	Tellus Brasil Participaco S.A.	Ownership.....	100.000	TIAA Board of Governors		
				4646312			Topertwo Agrícola S.A. ....	.BRA	.NIA	Tpartwo Participações S.A.	Ownership.....	100.000	TIAA Board of Governors		
			45-1502187	4640011			TIAA-CREF Global Agriculture BR, LLC .....	.DE	.NIA	TIAA-CREF Global Agriculture LLC	Ownership.....	100.000	TIAA Board of Governors		
				4643094			Nova Gaia Brasil Participaco Ltda. ....	.BRA	.NIA	TIAA-CREF Global Agriculture BR, LLC	Ownership.....	0.010	TIAA Board of Governors		3700
				4644484			Terraviva Brasil Participaco Ltda. ....	.BRA	.NIA	TIAA-CREF Global Agriculture BR, LLC	Ownership.....	0.010	TIAA Board of Governors		3900
			47-0974399	4753591	1616610		TIAA-CREF Global Agriculture II LLC .....	.DE	.NIA	TIAA Global Ag Holdco LLC	Management.....		TIAA Board of Governors		
			47-1062423	4755447			TIAA-CREF Global Agriculture II BR, LLC .....	.DE	.NIA	TIAA-CREF Global Agriculture II LLC	Ownership.....	100.000	TIAA Board of Governors		
			26-3594208	4863502			TIAA Global Public Investments, LLC .....	.DE	.NIA	Teachers Insurance and Annuity Association of America	Ownership.....	100.000	TIAA Board of Governors		
										Teachers Insurance and Annuity Association of America	Ownership.....	100.000	TIAA Board of Governors		
			46-3881813	4599892			TIAA GTR HoldCo, LLC .....	.DE	.NIA	TIAA GTR HoldCo, LLC	Ownership.....	50.000	TIAA Board of Governors		
			46-3210500	4724023			Global Timber Resources LLC .....	.DE	.NIA	Global Timber Resources LLC	Ownership.....	100.000	TIAA Board of Governors		
			46-3909387	4868431			Global Timber SA LLC .....	.DE	.NIA	Global Timber Resources LLC	Ownership.....	100.000	TIAA Board of Governors		
			98-1206384	4803151			Forestal Monterrey Colombia SAS .....	.COL	.NIA	Global Timber SA LLC	Ownership.....	100.000	TIAA Board of Governors		
			46-3899490	4801906			Global Timber International LLC .....	.DE	.NIA	Global Timber Resources LLC	Ownership.....	100.000	TIAA Board of Governors		
				4802789			Global Timber Spain, SL .....	.ESP	.NIA	Global Timber International LLC	Ownership.....	100.000	TIAA Board of Governors		
				4868440			Forestal GTR Chile LimitadaCHL	.NIA	Global Timber Spain, SL	Ownership.....	99.900	TIAA Board of Governors		

SCHEDULE Y
PART 1A - DETAIL OF INSURANCE HOLDING COMPANY SYSTEM

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Group Code	Group Name	NAIC Company Code	ID Number	Federal RSSD	CIK	Name of Securities Exchange if Publicly Traded (U.S. or International)	Names of Parent, Subsidiaries Or Affiliates	Domi-ciliary Location	Relation-ship to Reporting Entity	Directly Controlled by (Name of Entity/Person)	Type of Control (Ownership, Board, Management, Attorney-in-Fact, Influence, Other)	If Control is Ownership Provide Per-cent-age	Ultimate Controlling Entity(ies)/Person(s)	Is an SCA Filing Re-quired? (Yes/No)	*
				5165454			Global Timber Resources Colombia, S.A.S. ....	.COL	NIA	Global Timber Spain, SL	Ownership	100.000	TIAA Board of Governors		
				5183458			Monte Fresnos Asociacion Agraria de	.URY	NIA	Global Timber Spain, SL	Ownership	100.000	TIAA Board of Governors		
				5183421			Responsabilidad LTDA	.URY	NIA	Global Timber Spain, SL	Ownership	100.000	TIAA Board of Governors		
							Monte Fresnos, S.A.								
							Taurion Asociacion Agraria de Responsabilidad								
				5183430			LTDA	.URY	NIA	Global Timber Spain, SL	Ownership	100.000	TIAA Board of Governors		
				5183449			Taurion, S.A. ....	.URY	NIA	Global Timber Spain, SL	Ownership	100.000	TIAA Board of Governors		
				4866905			GT Europe Cooperatief U.A. ....	.NLD	NIA	Global Timber International LLC	Ownership	100.000	TIAA Board of Governors		
				4900425			Global Timber NL, B.V. ....	.NLD	NIA	GT Europe Cooperatief U.A.	Ownership	100.000	TIAA Board of Governors		
				4901543			GTR Brasil Participacoes Ltda	.BRA	NIA	Global Timber NL, B.V.	Ownership	100.000	TIAA Board of Governors		
				4902380			Brasilwood Reflorestamento S.A. ....	.BRA	NIA	GTR Brasil Participacoes Ltda	Ownership	75.000	TIAA Board of Governors		
				5484995			Brasilwood Terras Florestais S.A. ....	.BRA	NIA	GTR Brasil Participacoes Ltda	Ownership	97.000	TIAA Board of Governors		
				5481903			Khaya Woods Investimentos Florestais LTDA	.BRA	NIA	GTR Brasil Participacoes Ltda	Influence		TIAA Board of Governors		
				5481891			Mamoneira Agropastoril S.A. ....	.BRA	NIA	GTR Brasil Participacoes Ltda	Influence		TIAA Board of Governors		
				5198809			Jatoba Brasil Investimentos Florestais Ltda	.BRA	NIA	GTR Brasil Participacoes Ltda	Ownership	100.000	TIAA Board of Governors		
				5198818			Paineira Investimentos Florestais S.A. ....	.BRA	NIA	GTR Brasil Participacoes Ltda	Ownership	97.000	TIAA Board of Governors		
							IPOPEMA 95 Closed Investment Fund of Non-								
				4801915			Public Assets	.POL	NIA	Global Timber NL, B.V.	Ownership	100.000	TIAA Board of Governors		
							EKO Topola Sp. z.o.o. ....	.POL	NIA	IPOPEMA 95 Closed Investment Fund of Non-	Ownership	50.000	TIAA Board of Governors		
							Brusno Resort Sp. z.o.o. ....	.POL	NIA	IPOPEMA 95 Closed Investment Fund of Non-	Ownership	100.000	TIAA Board of Governors		
										Public Assets					
										Teachers Insurance and Annuity Association					
				45-3479281	4599306		TIAA Infrastructure Investments, LLC	.DE	NIA	of America	Ownership	100.000	TIAA Board of Governors		
				87-3292924	5660632		730 Darwin Holdings LLC	.DE	NIA	TIAA Infrastructure Investments, LLC	Ownership	100.000	TIAA Board of Governors		
					5683266		Glennmont Clean Energy Fund IV A SCSP	.LUX	NIA	730 Darwin Holdings LLC	Ownership	100.000	TIAA Board of Governors		
				81-5307354	5153983		730 Parking LLC	.DE	NIA	TIAA Infrastructure Investments, LLC	Ownership	100.000	TIAA Board of Governors		
				81-5302296	5157879		730 Interpark, LLC	.DE	NIA	730 Parking LLC	Ownership	100.000	TIAA Board of Governors		
					4936107		A-30 Canadian Transport Inc.	.CAN	NIA	TIAA Infrastructure Investments, LLC	Ownership	100.000	TIAA Board of Governors		
					4987571		1867 Infrastructure Holdings Inc.	.CAN	NIA	A-30 Canadian Transport Inc.	Ownership	51.000	TIAA Board of Governors		
					4946843		Holding 1867 NA30 Inc.	.CAN	NIA	1867 Infrastructure Holdings Inc.	Ownership	100.000	TIAA Board of Governors		
					4947327		1867 Nouvelle Autoroute 30 Inc.	.CAN	NIA	Iridium Nouvelle Autoroute 30 Inc.	Ownership	50.000	TIAA Board of Governors		
				38-3857916	4602813		I 595 Toll Road, LLC	.DE	NIA	TIAA Infrastructure Investments, LLC	Ownership	100.000	TIAA Board of Governors		
							North American Sustainable Energy Fund, L.P.								
				46-5279686	4810775			.DE	NIA	TIAA Infrastructure Investments, LLC	Ownership	100.000	TIAA Board of Governors		
										North American Sustainable Energy Fund,					
							McCommas Bluff Holdings LLC	.DE	NIA	L.P.	Influence		TIAA Board of Governors		
				4895660			Dallas Clean Energy, LLC	.DE	NIA	McCommas Bluff Holdings LLC	Ownership	51.000	TIAA Board of Governors		
				4896331			Dallas Clean Energy McCommas Bluff, LLC	.DE	NIA	Dallas Clean Energy, LLC	Ownership	100.000	TIAA Board of Governors		
										North American Sustainable Energy Fund,					
							Energy Power Investment Company, LLC	.DE	NIA	L.P.	Ownership	90.500	TIAA Board of Governors		
				4947318			EPP Renewable Energy, LLC	.DE	NIA	Energy Power Investment Company, LLC	Ownership	100.000	TIAA Board of Governors		
				4810597			North American Sustainable Energy GP, LLC	.DE	NIA	TIAA Infrastructure Investments, LLC	Ownership	99.900	TIAA Board of Governors		
							North American Sustainable Energy Manager,								
							LLC	.DE	NIA	TIAA Infrastructure Investments, LLC	Ownership	100.000	TIAA Board of Governors		
										Teachers Insurance and Annuity Association					
				45-2665869	4601115		TIAA Oil and Gas Investments, LLC	.DE	NIA	of America	Ownership	100.000	TIAA Board of Governors		
				45-1286237	4602877		Actgas, LLC	.DE	NIA	TIAA Oil and Gas Investments, LLC	Ownership	100.000	TIAA Board of Governors		
				46-3410649	4602925		Actoil Bakken, LLC	.DE	NIA	TIAA Oil and Gas Investments, LLC	Ownership	100.000	TIAA Board of Governors		
				46-3628993	4602934		Actoil Utica, LLC	.DE	NIA	TIAA Oil and Gas Investments, LLC	Ownership	100.000	TIAA Board of Governors		
										Teachers Insurance and Annuity Association					
				11-3519531	4601133		TIAA Realty, LLC	.DE	NIA	of America	Ownership	100.000	TIAA Board of Governors		
				81-0902394	4949125		T-C 77 Central LLC	.DE	NIA	TIAA Realty, LLC	Ownership	100.000	TIAA Board of Governors		
				47-2249307	4763161		T-C 680 Belleville LLC	.DE	NIA	TIAA Realty, LLC	Ownership	100.000	TIAA Board of Governors		

STATEMENT AS OF SEPTEMBER 30, 2022 OF THE TIAA-CREF LIFE INSURANCE COMPANY

SCHEDULE Y
PART 1A - DETAIL OF INSURANCE HOLDING COMPANY SYSTEM

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Group Code	Group Name	NAIC Company Code	ID Number	Federal RSSD	CIK	Name of Securities Exchange if Publicly Traded (U.S. or International)	Names of Parent, Subsidiaries Or Affiliates	Domi-ciliary Location	Relation-ship to Reporting Entity	Directly Controlled by (Name of Entity/Person)	Type of Control (Ownership, Board, Management, Attorney-in-Fact, Influence, Other)	If Control is Ownership Provide Perce-n-tage	Ultimate Controlling Entity(ies)/Person(s)	Is an SCA Filing Re-quired? (Yes/No)	*
			46-2678242 81-3961919	4611721 5047626			T-C Port Northwest Development, LLC TGA 70 Federal Street LLC	DE DE	NIA NIA	TIAA Realty, LLC TIAA Realty, LLC	Ownership Ownership	100.000 100.000	TIAA Board of Governors TIAA Board of Governors		
			82-2885306 82-2335773 20-2904312	5688542 4314479			TIAA RFS, LLC TIAA Advisory, LLC TIAA-CREF Insurance Agency, LLC	DE DE DE	NIA NIA NIA	Teachers Insurance and Annuity Association of America TIAA RFS, LLC TIAA RFS, LLC	Ownership Ownership Ownership	100.000 100.000 100.000	TIAA Board of Governors TIAA Board of Governors TIAA Board of Governors		
			85-3343718 81-2755014	5601390 5011346			TIAA Shared Services, LLC TIAA SMA Strategies, LLC	DE DE	NIA NIA	Teachers Insurance and Annuity Association of America Teachers Insurance and Annuity Association of America	Ownership Ownership	100.000 100.000	TIAA Board of Governors TIAA Board of Governors		
			45-3029655 45-3030923	4601197 4601245			TIAA-Stonepeak Investments I, LLC TIAA-Stonepeak Investments II, LLC	DE DE	NIA NIA	Teachers Insurance and Annuity Association of America Teachers Insurance and Annuity Association of America	Ownership Ownership	100.000 100.000	TIAA Board of Governors TIAA Board of Governors		
			45-3164600 45-3164764 46-4623585 46-4653326 46-4680948	4601348 4644055 4801821 4801830 4801849	1614181		TIAA Super Regional Mall Member Sub, LLC T-C Super Regional Mall Venture, LLC T-C International Plaza REIT LLC T-C International Plaza Investor GP LLC T-C International Plaza Investor LP LLC Tampa Westshore Associates Limited Partnership	DE DE DE DE DE	NIA NIA NIA NIA NIA	Teachers Insurance and Annuity Association of America TIAA Super Regional Mall Member Sub, LLC T-C Super Regional Mall Venture, LLC T-C International Plaza REIT LLC T-C International Plaza REIT LLC	Ownership Ownership Ownership Ownership Ownership	100.000 51.000 100.000 100.000 100.000	TIAA Board of Governors TIAA Board of Governors TIAA Board of Governors TIAA Board of Governors TIAA Board of Governors		
			38-3173536 46-2713521 46-2726147	2884259 4604116 4612979	1595474		T-C International Plaza Investor LP LLC T-C Las Vegas Retail REIT LLC T-C Las Vegas Retail Investor LLC	DE DE DE	NIA NIA NIA	T-C International Plaza Investor LP LLC T-C Super Regional Mall Venture, LLC T-C Las Vegas Retail REIT LLC	Influence Ownership Ownership	 100.000 100.000	TIAA Board of Governors TIAA Board of Governors TIAA Board of Governors		
			4615617 45-3165203 45-2211957	4644064 4644073	1544129		Grand Canal Shoppes Holdings, LLC T-C Midwest REIT, LLC T-C Midwest Retail, LLC	DE DE DE	NIA NIA NIA	T-C Las Vegas Retail Investor LLC T-C Super Regional Mall Venture, LLC T-C Midwest REIT, LLC	Influence Ownership Ownership	 99.800 100.000	TIAA Board of Governors TIAA Board of Governors TIAA Board of Governors		
			4644288 45-3164998 27-4117159 95-4658637	4644082 4644091 4644886	1544127		CBL/T-C, LLC T-C Montgomery Mall REIT, LLC T-C Montgomery Mall, LLC Montgomery Mall of Maryland, LLC	DE DE DE MD	NIA NIA NIA NIA	T-C Midwest Retail, LLC T-C Super Regional Mall Venture, LLC T-C Montgomery Mall REIT, LLC T-C Montgomery Mall, LLC	Ownership Ownership Ownership Ownership	50.000 99.800 100.000 50.000	TIAA Board of Governors TIAA Board of Governors TIAA Board of Governors TIAA Board of Governors		
			45-1286386 13-1624203	4601526 4741758 4747835 4749866			TIAA SynGas, LLC 730 Catsolar, LLC Catalina Solar Lessee Holdco, LLC Catalina Solar Lessee, LLC	DE DE CA CA	NIA NIA NIA NIA	Teachers Insurance and Annuity Association of America TIAA SynGas, LLC 730 Catsolar, LLC Catalina Solar Lessee Holdco, LLC	Ownership Ownership Ownership Ownership	100.000 100.000 50.000 100.000	TIAA Board of Governors TIAA Board of Governors TIAA Board of Governors TIAA Board of Governors		
			20-8892977 20-8281443	4599810 4640066			TIAA Union Place Phase I, LLC Union Place Phase I, LLC	DE DE	NIA NIA	Teachers Insurance and Annuity Association of America TIAA Union Place Phase I, LLC	Ownership Ownership	100.000 100.000	TIAA Board of Governors TIAA Board of Governors		
			88-3094952				TIAA Ventures LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			45-4486211 45-3743502	4602886 4626136			TIAA Wind Investments, LLC Capistrano Wind Partners, LLC TIAA-CREF Individual & Institutional Services, LLC	DE DE DE	NIA NIA NIA	Teachers Insurance and Annuity Association of America TIAA Wind Investments, LLC Teachers Insurance and Annuity Association of America	Ownership Influence Ownership	 100.000 100.000	TIAA Board of Governors TIAA Board of Governors TIAA Board of Governors		
			55-0856733	4314349	882928			DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			20-8384004 46-1191235	4599490 5018671	1611288		TIAA-CREF LPHC, LLC TIAA-CREF Real Property Fund GP, LLC	DE DE	NIA NIA	Teachers Insurance and Annuity Association of America TIAA-CREF LPHC, LLC	Ownership Ownership	100.000 100.000	TIAA Board of Governors TIAA Board of Governors		
			20-5591124 20-5631854	4314273 4314282			TIAA-CREF Redwood, LLC TIAA Kapsick, LLC	DE DE	NIA NIA	Teachers Insurance and Annuity Association of America TIAA-CREF Redwood, LLC	Ownership Ownership	100.000 100.000	TIAA Board of Governors TIAA Board of Governors		
			13-4026557	4314116	1627236		TIAA-CREF Tuition Financing, Inc.	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		

SCHEDULE Y
PART 1A - DETAIL OF INSURANCE HOLDING COMPANY SYSTEM

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Group Code	Group Name	NAIC Company Code	ID Number	Federal RSSD	CIK	Name of Securities Exchange if Publicly Traded (U.S. or International)	Names of Parent, Subsidiaries Or Affiliates	Domi-ciliary Location	Relation-ship to Reporting Entity	Directly Controlled by (Name of Entity/Person)	Type of Control (Ownership, Board, Management, Attorney-in-Fact, Influence, Other)	If Control is Ownership Provide Percen-tage	Ultimate Controlling Entity(ies)/Person(s)	Is an SCA Filing Re-quired? (Yes/No)	*
				4844163			UK PPP Investments, LP	.GBR	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
				4848590			Wigg (Holdings) Limited	.GBR	NIA	UK PPP Investments, LP	Ownership	100.000	TIAA Board of Governors		
				4848983			Wigg Investments Limited	.GBR	NIA	Wigg (Holdings) Limited	Ownership	100.000	TIAA Board of Governors		
				4849739			Merseylink (Holdings) Limited	.GBR	NIA	Wigg Investments Limited	Influence		TIAA Board of Governors		
				4852298			Merseylink (Finance) Limited	.GBR	NIA	Merseylink (Holdings) Limited	Ownership	100.000	TIAA Board of Governors		
				4860239			Merseylink Limited	.GBR	NIA	Merseylink (Finance) Limited	Ownership	100.000	TIAA Board of Governors		
				4858638			Merseylink (Issuer) plc	.GBR	NIA	Merseylink (Finance) Limited	Ownership	100.000	TIAA Board of Governors		
			87-1101091	5616040			Union Property Operations NRE III LLC	.DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			36-4932527	5514614			U.S. Cities Industrial Fund LP	.DE	NIA	Teachers Insurance and Annuity Association of America	Management		TIAA Board of Governors		
			30-1108455	5115507			U.S. Cities Multifamily Fund LP	.DE	NIA	Teachers Insurance and Annuity Association of America	Management		TIAA Board of Governors		
			38-4104483	5115516			U.S. Cities Office Fund LP	.DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	79.700	TIAA Board of Governors		
			61-1914684	5115945			U.S. Cities Office Fund REIT LLC	.DE	NIA	U.S. Cities Office Fund LP	Ownership	100.000	TIAA Board of Governors		
				5116595			U.S. Cities Office Fund Operating GP LLC	.DE	NIA	U.S. Cities Office Fund REIT LLC	Ownership	100.000	TIAA Board of Governors		
			36-4919858	5116791			U.S. Cities Office Fund Operating LP	.DE	NIA	U.S. Cities Office Fund REIT LLC	Ownership	100.000	TIAA Board of Governors		
			87-4526709	5704442			USCOF 5500 Jefferson LLC	.DE	NIA	U.S. Cities Office Fund Operating LP	Ownership	100.000	TIAA Board of Governors		
			84-4773752	5515219			USCOF Maryland Farms Holdings LLC	.DE	NIA	U.S. Cities Office Fund Operating LP	Ownership	100.000	TIAA Board of Governors		
			84-4775239	5538834			U.S. Cities Office Fund Maryland Farms Co-Invest	.DE	NIA	USCOF Maryland Farms Holdings LLC	Ownership	51.000	TIAA Board of Governors		3600
			84-4775394	5585119			VRE-NRE Maryland Farms Venture	.DE	NIA	U.S. Cities Office Fund Maryland Farms Co-Invest	Ownership	97.000	TIAA Board of Governors		
			87-1365205	5700574			USCOF Mobius Operating Member LLC	.DE	NIA	U.S. Cities Office Fund Operating LP	Ownership	100.000	TIAA Board of Governors		
			85-3371600	5613272			USCOF Optical Court LLC	.DE	NIA	U.S. Cities Office Fund Operating LP	Ownership	100.000	TIAA Board of Governors		
										Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			82-3970010	5671991			U.S. Cities Retail Fund LP	.DE	NIA	U.S. Cities Retail Fund LP	Ownership	100.000	TIAA Board of Governors		
			82-4016503	5671982			U.S. Cities Retail Fund REIT LLC	.DE	NIA	U.S. Cities Retail Fund REIT LLC	Ownership	100.000	TIAA Board of Governors		
			82-4069923	5671973			U.S. Cities Retail Fund Operating GP LLC	.DE	NIA	U.S. Cities Retail Fund REIT LLC	Ownership	100.000	TIAA Board of Governors		
			82-4037905	5671058			U.S. Cities Retail Fund Operating LP	.DE	NIA	U.S. Cities Retail Fund REIT LLC	Ownership	100.000	TIAA Board of Governors		
			46-0750331	4612111			T-C 919 N. Michigan Avenue Retail, LLC	.DE	NIA	U.S. Cities Retail Fund Operating LP	Ownership	100.000	TIAA Board of Governors		
							USCRF KRG JV Investor Member LLC	.DE	NIA	U.S. Cities Retail Fund Operating LP	Ownership	100.000	TIAA Board of Governors		
			37-1904986				KRG USCRF Retail Portfolio LLC	.DE	NIA	USCRF KRG JV Investor Member LLC	Ownership	100.000	TIAA Board of Governors		
							KRG 951 & 41, LLC	.DE	NIA	KRG USCRF Retail Portfolio LLC	Ownership	100.000	TIAA Board of Governors		
							KRG Livingston Center, LLC	.DE	NIA	KRG USCRF Retail Portfolio LLC	Ownership	100.000	TIAA Board of Governors		
							KRG-USCRF Plaza Volente, LLC	.DE	NIA	KRG USCRF Retail Portfolio LLC	Ownership	100.000	TIAA Board of Governors		
										Teachers Insurance and Annuity Association of America					
			82-3988257	5612417			U.S. Core-Plus Real Estate Debt Fund LP	.DE	NIA	U.S. Core-Plus Real Estate Debt Fund LP	Management		TIAA Board of Governors		
			82-3760575	5612435			CRED REIT LLC	.DE	NIA	CRED REIT LLC	Ownership	100.000	TIAA Board of Governors		
			47-1938723	5612444			CRED REIT Holdco LLC	.DE	NIA	CRED REIT LLC	Ownership	100.000	TIAA Board of Governors		
			84-2113010	5619274			CRED Glenhardie LLC	.DE	NIA	CRED REIT Holdco LLC	Ownership	100.000	TIAA Board of Governors		
			85-1296109	5618437			CRED HO LLC	.DE	NIA	CRED REIT Holdco LLC	Ownership	100.000	TIAA Board of Governors		
			86-3290456	5612471			CRED REIT Holdco Alta LLC	.DE	NIA	CRED REIT Holdco LLC	Ownership	100.000	TIAA Board of Governors		
			87-1440716	5617793			CRED REIT Holdco Hacienda LLC	.DE	NIA	CRED REIT Holdco LLC	Ownership	100.000	TIAA Board of Governors		
			87-0979505	5616415			CRED REIT Holdco Phoenix Industrial LLC	.DE	NIA	CRED REIT Holdco LLC	Ownership	100.000	TIAA Board of Governors		
			83-2024014	5658424			CRED REIT Holdco Seller LLC	.DE	NIA	CRED REIT Holdco LLC	Ownership	100.000	TIAA Board of Governors		
			81-1392434	5658415			CRED REIT Holdco TRS LLC	.DE	NIA	CRED REIT Holdco LLC	Ownership	100.000	TIAA Board of Governors		
			86-2266688	5612453			CRED REIT Holdco Velocity LLC	.DE	NIA	CRED REIT Holdco LLC	Ownership	100.000	TIAA Board of Governors		
			82-4800804				CRED REIT Manager LLC	.DE	NIA	CRED REIT Holdco LLC	Ownership	100.000	TIAA Board of Governors		
			82-5347019				CRED REIT Member LP	.DE	NIA	CRED REIT Holdco LLC	Ownership	100.000	TIAA Board of Governors		
			87-2932666	5656774			CRED SJA 555 Mangum LLC	.DE	NIA	CRED REIT Holdco LLC	Ownership	100.000	TIAA Board of Governors		
			88-1712199	5730517			CRED SJA Cornerstone LLC	.DE	NIA	CRED REIT Holdco LLC	Ownership	100.000	TIAA Board of Governors		

SCHEDULE Y
PART 1A - DETAIL OF INSURANCE HOLDING COMPANY SYSTEM

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
Group Code	Group Name	NAIC Company Code	ID Number	Federal RSSD	CIK	Name of Securities Exchange if Publicly Traded (U.S. or International)	Names of Parent, Subsidiaries Or Affiliates	Domi-ciliary Location	Relation-ship to Reporting Entity	Directly Controlled by (Name of Entity/Person)	Type of Control (Ownership, Board, Management, Attorney-in-Fact, Influence, Other)	If Control is Owner-ship Provide Percen-tage	Ultimate Controlling Entity(ies)/Person(s)	Is an SCA Filing Re-quired? (Yes/No)	*
			88-1712389	5730508			CRED SJA Sonoma LLC	DE	NIA	CRED REIT Holdco LLC	Ownership	100.000	TIAA Board of Governors		
			88-2696709				CRED SJA Vistas LLC	DE	NIA	CRED REIT Holdco LLC	Ownership	100.000	TIAA Board of Governors		
			83-3184068	5613302			CRED Slabtown LLC	DE	NIA	CRED REIT Holdco LLC	Ownership	100.000	TIAA Board of Governors		
			83-4107560	5613290			CRED West Coast Industrial LLC	DE	NIA	CRED REIT Holdco LLC	Ownership	100.000	TIAA Board of Governors		
			85-2116787	5599723			U.S. Strategic Industrial Fund II LP	DE	NIA	Teachers Insurance and Annuity Association of America	Management		TIAA Board of Governors		
			84-3440905	5514128			Western A Midwest TN, LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			83-1931152	5700659			Winslow Growth Capital Fund II, L.P.	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		
			51-0141732	4599829			WRC Properties, LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Governors		

Asterisk	Explanation
0100	AGR Services LLC is ultimately controlled and owned entirely by TIAA, with 99% owned by AGR Partners LLC and 1% owned by Nuveen Alternative Holdings, LLC.
0200	CAM HR Resources LLC is ultimately controlled and owned entirely by TIAA, with 99% owned by Churchill Asset Management LLC and 1% owned by Nuveen Alternative Holdings, LLC.
0300	TIAA European Farmland Fund GP LP is ultimately controlled and owned entirely by TIAA, with 50% owned by Nuveen Alternative Services, LLC and 50% owned by TEFF Holdco LLC.
0400	Nuveen CP LLC is owned 79.2% by Nuveen CP Holdings 1 LLC and 0.8% by Nuveen CP Holdings 2 LLC.
0500	TGAM APAC LLC is ultimately controlled and owned entirely by TIAA, with TGAM Subsidiary HC LLC, TIAA International Subsidiary HC LLC and Nuveen International Holdings LLC each owning 33.33%
0600	TGAM HK HC LLC is ultimately controlled and owned entirely by TIAA, with TGAM APAC LLC, TGAM Asia LLC, TIAA International APAC LLC and TIAA International Asia LLC each owning 25%
0700	TGAM Asia LLC is ultimately controlled and owned entirely by TIAA, with TGAM Subsidiary HC LLC, TIAA International Subsidiary HC LLC and Nuveen International Holdings LLC each owning 33.33%
0800	TIAA International APAC LLC is ultimately controlled and owned entirely by TIAA, with TGAM Subsidiary HC LLC, TIAA International Subsidiary HC LLC and Nuveen International Holdings LLC each owning 33.33%
0900	TIAA International Asia LLC is ultimately controlled and owned entirely by TIAA, with TGAM Subsidiary HC LLC, TIAA International Subsidiary HC LLC and Nuveen International Holdings LLC each owning 33.33%
1000	Westchester Group SRL is controlled and owned entirely by TIAA, with 99% owned by Westchester Group of Europe Ltd. and 1% owned by Westchester Group of Poland Sp. Z.o.o.
1100	Clean Energy Partners HoldCo LLP is ultimately controlled and owned entirely by TIAA, with 99% owned by TIAA International Holdings 2, Ltd. and 1% owned by TIAA International Holdings 1, Ltd.
1200	Nuveen Investment Management Holdings Limited is ultimately controlled and owned entirely by TIAA, with 99% owned by TIAA International Holdings 3, Ltd. and 1% owned by TIAA International Holdings 1, Ltd.
1300	Global Real Estate Debt Partners Fund II (UK) SCSp is ultimately controlled by TIAA, with 18.75% owned by TIAA and 0.5% owned by Nuveen Real Estate Debt Partners II (GP) S.à.r.l.
1400	730 Texas Timberlands II, Ltd. is ultimately controlled and owned entirely by TIAA, which directly owns 99.5%. 730 Texas Forest Holdings, Inc., which is owned 100% by TIAA, owns .5%.
1500	730 Texas Timberlands, Ltd. is ultimately controlled and owned entirely by TIAA, with 99.5% owned by TIAA Timberlands I, LLC and .5% owned by 730 Texas Forest Holdings, Inc.
1600	Loma del Rio Vineyards, LLC is ultimately controlled and owned entirely by TIAA, with 45% owned by Premiere Agricultural Properties, LLC and 55% owned by Global Ag Properties USA, LLC.
1700	1608 Chestnut Partners LP is ultimately controlled by TIAA, with 99% owned by T-C 1608 Chestnut Limited Partner LLC and 1% owned by T-C 1608 Chestnut General Partner LLC.
1800	Global Real Estate Debt Partners Fund I (UK) SCSp is controlled by TIAA, which owns 36.3%. T-C Lux Investments Special Limited Partnership, which is 100% owned by TIAA, owns 24.3%.
1900	Radar Propriedades Agrícolas S.A. is owned 65.77% by Mansilla Participacoes LTDA and 15.31% by Radar II Propriedades Agrícolas S.A.
2000	Cityhold Nymphe S.à r.l. (Nymphe) is owned by TIAA via a 25% ownership of Cityhold Office Partnership S.à r.l., which owns 88% of Nymphe, and 3% owned by wholly-owned ND Europe Office Holding S.à r.l.
2100	OVG Cloud S.à r.l. (OVG) is owned by TIAA via a 25% ownership of Cityhold Propco 11 S.à r.l. (10.1% of OVG) and Cityhold Propco 12 S.à r.l. (89.9% of OVG).
2200	Cityhold Euro S.à r.l. (CES) is owned by TIAA via a 25% ownership of Cityhold Propco 9 S.à r.l., which owns 88% of CES, and 3% owned by wholly-owned ND Europe Office Holding S.à r.l.
2300	SNC Roosevelt is owned by TIAA via a 25% ownership of Cityhold Propco 9 S.à r.l., which owns SAS Roosevelt (99.99% of SNC Roosevelt) and Roosevelt Participation S.à r.l. (0.01%).
2400	London Belgrave Unit Trust (LBUT) is owned by TIAA via a 25% ownership of Cityhold Office Partnership S.à r.l., which owns Cityhold UK Holding S.à r.l. (99.8% of LBUT) and Cityhold UK Investment S.à r.l. (0.2%).
2500	New Fetter Lane Unit Trust (NFLUT) is owned by TIAA via a 25% ownership of Cityhold Office Partnership S.à r.l., which owns Cityhold UK Holding S.à r.l. (99.9% of NFLUT) and Cityhold UK Investment S.à r.l. (0.1%).
2600	60 Great Portland Street Unit Trust (60GPS) is owned by TIAA via a 25% ownership of Cityhold Office Partnership S.à r.l., which owns Cityhold UK Holding S.à r.l. (99.4% of 60GPS) and Cityhold UK Investment S.à r.l. (0.6%).
2700	70 St. Mary Axe Unit Trust (SMAUT) is owned by TIAA via a 25% ownership of Cityhold Office Partnership S.à r.l., which owns SMA Holding S.à r.l. (99.9% of SMAUT) and Cityhold UK Investment S.à r.l. (0.1%).
2800	Gropius Passagen GmbH & Co KG is controlled by TIAA, and partially owned by Gropius S.à r.l., which owns 99.8% and TIAA Lux 11 S.à.r.l. which owns 0.16%.
2900	T-C Europe LP is ultimately controlled and owned entirely by TIAA, with 99% owned by TIAA and 1% owned by T-C Europe Holding, Inc.
3000	Roppenheim Outlet SNC (ROSNC) is ultimately controlled by TIAA via a 61.8% ownership of Neptune Property Venture S.à r.l., which owns Roppenheim Holding SAS (99.99% of ROSNC) Neptune Roppenheim Holding S.à r.l. (0.01%).
3100	Adeoti Empreendimentos Imobiliários Ltda is ultimately controlled and owned entirely by TIAA, with 51% of ownership with T-C JK I, LLC and 49% of ownership with T-C JK II, LLC
3200	Waterford Blue Lagoon LP is controlled by TIAA, and partially owned indirectly by T-C Waterford Blue Lagoon LLC, which owns 50%, and T-C Waterford Blue Lagoon General Partner, LLC, which owns 1%.
3300	Asia Pacific Cities Fund, FCP is owned 23.98% by TGA APAC Fund Holdings, LLC and 23.98% by TGA Real Estate Fund Holdings, LLC
3400	TGA European RE Holdings I, LLC is ultimately controlled and owned entirely by TIAA, with 99% owned by TIAA and 1% owned by TGA European RE Holdings II LLC.

STATEMENT AS OF SEPTEMBER 30, 2022 OF THE TIAA-CREF LIFE INSURANCE COMPANY

Asterisk	Explanation
3500	VIE Student House A GmbH & Co KG is controlled by TIAA, and partially owned indirectly by Eagle Austria Holdings S.à r.l., which owns 94%, and CB Krieau Dzwei GmbH, which owns 6%
3600	U.S. Cities Office Fund Maryland Farms Co-Invest is ultimately controlled and owned entirely by TIAA, with 51% owned by USCOF Maryland Farms Holdings LLC and 49% owned by TGA Maryland Farms Holdings LLC.
3700	Nova Gaia Brasil Participaco Ltda. is owned 99.99% by TIAA-CREF Global Agriculture LLC and 0.01% by TIAA-CREF Global Agriculture BR, LLC.
3800	Tellus Brasil Participaco S.A. is owned 48.9% by Terraviva Brasil Participaco Ltda. and 0.47% by Nova Gaia Brasil Participaco Ltda.
3900	Terraviva Brasil Participaco Ltda. is owned 99.99% by Nova Gaia Brasil Participaco Ltda. and 0.01% by TIAA-CREF Global Agriculture BR, LLC.

STATEMENT AS OF SEPTEMBER 30, 2022 OF THE TIAA-CREF LIFE INSURANCE COMPANY

SUPPLEMENTAL EXHIBITS AND SCHEDULES INTERROGATORIES

The following supplemental reports are required to be filed as part of your statement filing. However, in the event that your company does not transact the type of business for which the special report must be filed, your response of NO to the specific interrogatory will be accepted in lieu of filing a "NONE" report and a bar code will be printed below. If the supplement is required of your company but is not being filed for whatever reason enter SEE EXPLANATION and provide an explanation following the interrogatory questions.

	Response
1. Will the Trusteed Surplus Statement be filed with the state of domicile and the NAIC with this statement?	SEE EXPLANATION
2. Will the Medicare Part D Coverage Supplement be filed with the state of domicile and the NAIC with this statement?	NO
3. Will the Reasonableness of Assumptions Certification required by Actuarial Guideline XXXV be filed with the state of domicile and electronically with the NAIC?	NO
4. Will the Reasonableness and Consistency of Assumptions Certification required by Actuarial Guideline XXXV be filed with the state of domicile and electronically with the NAIC?	NO
5. Will the Reasonableness of Assumptions Certification for Implied Guaranteed Rate Method required by Actuarial Guideline XXXVI be filed with the state of domicile and electronically with the NAIC?	NO
6. Will the Reasonableness and Consistency of Assumptions Certification required by Actuarial Guideline XXXVI (Updated Average Market Value) be filed with the state of domicile and electronically with the NAIC?	NO
7. Will the Reasonableness and Consistency of Assumptions Certification required by Actuarial Guideline XXXVI (Updated Market Value) be filed with the state of domicile and electronically with the NAIC?	NO
8. Will the Life PBR Statement of Exemption be filed with the state of domicile by July 1st and electronically with the NAIC with the second quarterly filing per the Valuation Manual (by August 15)? (2nd Quarter Only) The response for 1st and 3rd quarters should be N/A. A NO response resulting with a bar code is only appropriate in the 2nd quarter.	N/A

AUGUST FILING

9. Will the regulator-only (non-public) Communication of Internal Control Related Matters Noted in Audit be filed with the state of domicile and electronically with the NAIC (as a regulator-only non-public document) by August 1? The response for 1st and 3rd quarters should be N/A. A NO response resulting with a bar code is only appropriate in the 2nd quarter.	N/A
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Explanation:

1. The company is not a U.S. branch of a Non-U.S. insurer.
2.
3.
4.
5.
6.
7.

Bar Code:

2. Medicare Part D Coverage Supplement [Document Identifier 365]



3. Reasonableness of Assumptions Certification required by Actuarial Guideline XXXV [Document Identifier 445]



4. Reasonableness and Consistency of Assumptions Certification required by Actuarial Guideline XXXV [Document Identifier 446]



5. Reasonableness of Assumptions Certification for Implied Guaranteed Rate Method required by Actuarial Guideline XXXVI [Document Identifier 447]



6. Reasonableness and Consistency of Assumptions Certification required by Actuarial Guideline XXXVI [Document Identifier 448]



7. Reasonableness and Consistency of Assumptions Certification required by Actuarial Guideline XXXVI (Updated Market Value) [Document Identifier 449]



NONE

SCHEDULE A - VERIFICATION

Real Estate

	1	2
	Year to Date	Prior Year Ended December 31
1. Book/adjusted carrying value, December 31 of prior year		
2. Cost of acquired:		
2.1 Actual cost at time of acquisition		
2.2 Additional investment made after acquisition		
3. Current year change in encumbrances		
4. Total gain (loss) on disposals		
5. Deduct amounts received on disposals		
6. Total foreign exchange change in book/adjusted carrying value		
7. Deduct current year's other than temporary impairment recognized		
8. Deduct current year's depreciation		
9. Book/adjusted carrying value at the end of current period (Lines 1+2+3+4-5+6-7-8)		
10. Deduct total nonadmitted amounts		
11. Statement value at end of current period (Line 9 minus Line 10)		

SCHEDULE B - VERIFICATION

Mortgage Loans

	1	2
	Year to Date	Prior Year Ended December 31
1. Book value/recorded investment excluding accrued interest, December 31 of prior year		
2. Cost of acquired:		
2.1 Actual cost at time of acquisition		
2.2 Additional investment made after acquisition		
3. Capitalized deferred interest and other		
4. Accrual of discount		
5. Unrealized valuation increase (decrease)		
6. Total gain (loss) on disposals		
7. Deduct amounts received on disposals		
8. Deduct amortization of premium and mortgage interest paid and commitment fees		
9. Total foreign exchange change in book value/recorded investment excluding accrued interest		
10. Deduct current year's other than temporary impairment recognized		
11. Book value/recorded investment excluding accrued interest at end of current period (Lines 1+2+3+4+5+6-7-8+9-10)		
12. Total valuation allowance		
13. Subtotal (Line 11 plus Line 12)		
14. Deduct total nonadmitted amounts		
15. Statement value at end of current period (Line 13 minus Line 14)		

SCHEDULE BA - VERIFICATION

Other Long-Term Invested Assets

	1	2
	Year to Date	Prior Year Ended December 31
1. Book/adjusted carrying value, December 31 of prior year	4,644,705	4,666,857
2. Cost of acquired:		
2.1 Actual cost at time of acquisition		
2.2 Additional investment made after acquisition		
3. Capitalized deferred interest and other		
4. Accrual of discount	1,129	1,413
5. Unrealized valuation increase (decrease)		
6. Total gain (loss) on disposals		
7. Deduct amounts received on disposals		
8. Deduct amortization of premium and depreciation	18,590	23,565
9. Total foreign exchange change in book/adjusted carrying value		
10. Deduct current year's other than temporary impairment recognized		
11. Book/adjusted carrying value at end of current period (Lines 1+2+3+4+5+6-7-8+9-10)	4,627,245	4,644,705
12. Deduct total nonadmitted amounts		
13. Statement value at end of current period (Line 11 minus Line 12)	4,627,245	4,644,705

SCHEDULE D - VERIFICATION

Bonds and Stocks

	1	2
	Year to Date	Prior Year Ended December 31
1. Book/adjusted carrying value of bonds and stocks, December 31 of prior year	12,447,874,701	11,168,488,129
2. Cost of bonds and stocks acquired	2,799,173,394	2,551,001,837
3. Accrual of discount	6,093,137	4,717,719
4. Unrealized valuation increase (decrease)	(70,493)	1,439,228
5. Total gain (loss) on disposals	22,025,271	15,882,448
6. Deduct consideration for bonds and stocks disposed of	1,914,417,912	1,287,505,318
7. Deduct amortization of premium	6,904,361	11,452,518
8. Total foreign exchange change in book/adjusted carrying value		
9. Deduct current year's other than temporary impairment recognized	2,713,253	1,047,991
10. Total investment income recognized as a result of prepayment penalties and/or acceleration fees	453,674	6,351,167
11. Book/adjusted carrying value at end of current period (Lines 1+2+3+4+5-6-7+8-9+10)	13,351,514,158	12,447,874,701
12. Deduct total nonadmitted amounts		
13. Statement value at end of current period (Line 11 minus Line 12)	13,351,514,158	12,447,874,701

STATEMENT AS OF SEPTEMBER 30, 2022 OF THE TIAA-CREF LIFE INSURANCE COMPANY

SCHEDULE D - PART 1B

Showing the Acquisitions, Dispositions and Non-Trading Activity
During the Current Quarter for all Bonds and Preferred Stock by NAIC Designation

NAIC Designation	1 Book/Adjusted Carrying Value Beginning of Current Quarter	2 Acquisitions During Current Quarter	3 Dispositions During Current Quarter	4 Non-Trading Activity During Current Quarter	5 Book/Adjusted Carrying Value End of First Quarter	6 Book/Adjusted Carrying Value End of Second Quarter	7 Book/Adjusted Carrying Value End of Third Quarter	8 Book/Adjusted Carrying Value December 31 Prior Year
BONDS								
1. NAIC 1 (a)	8,768,700,575	6,439,421,293	6,048,714,494	(783,963,493)	7,817,491,325	8,768,700,575	8,375,443,881	7,797,344,858
2. NAIC 2 (a)	4,861,932,659	447,764,109	99,090,368	(241,179,757)	4,770,620,843	4,861,932,659	4,969,426,643	4,811,317,206
3. NAIC 3 (a)		28,992,500		8,806			29,001,306	
4. NAIC 4 (a)		4,519,100					4,519,100	
5. NAIC 5 (a)	175,611		55,724	44,234	266,147	175,611	164,121	285,725
6. NAIC 6 (a)								
7. Total Bonds	13,630,808,845	6,920,697,002	6,147,860,586	(1,025,090,210)	12,588,378,315	13,630,808,845	13,378,555,051	12,608,947,789
PREFERRED STOCK								
8. NAIC 1								
9. NAIC 2	8,400,000				7,452,480	8,400,000	8,400,000	8,702,400
10. NAIC 3								
11. NAIC 4								
12. NAIC 5								
13. NAIC 6	1,483,957			67,660	1,377,190	1,483,957	1,551,617	1,319,710
14. Total Preferred Stock	9,883,957			67,660	8,829,670	9,883,957	9,951,617	10,022,110
15. Total Bonds and Preferred Stock	13,640,692,802	6,920,697,002	6,147,860,586	(1,025,022,550)	12,597,207,985	13,640,692,802	13,388,506,668	12,618,969,899

(a) Book/Adjusted Carrying Value column for the end of the current reporting period includes the following amount of short-term and cash equivalent bonds by NAIC designation:
NAIC 1 \$36,992,525 ; NAIC 2 \$; NAIC 3 \$ NAIC 4 \$; NAIC 5 \$; NAIC 6 \$

SCHEDULE DA - PART 1

Short-Term Investments

	1	2	3	4	5
	Book/Adjusted Carrying Value	Prior Year Value	Actual Cost	Interest Collected Year-to-Date	Paid for Accrued Interest Year-to-Date
7709999999 Totals		XX			

NONE

SCHEDULE DA - VERIFICATION

Short-Term Investments

	1	2
	Year To Date	Prior Year Ended December 31
1. Book/adjusted carrying value, December 31 of prior year	96,343	3,385,093
2. Cost of short-term investments acquired		1,037,467
3. Accrual of discount		33
4. Unrealized valuation increase (decrease)		
5. Total gain (loss) on disposals		21
6. Deduct consideration received on disposals	96,343	4,241,178
7. Deduct amortization of premium		85,093
8. Total foreign exchange change in book/adjusted carrying value		
9. Deduct current year's other than temporary impairment recognized		
10. Book/adjusted carrying value at end of current period (Lines 1+2+3+4+5-6-7+8-9)		96,343
11. Deduct total nonadmitted amounts		
12. Statement value at end of current period (Line 10 minus Line 11)		96,343

Schedule DB - Part A - Verification - Options, Caps, Floors, Collars, Swaps and Forwards

N O N E

Schedule DB - Part B - Verification - Futures Contracts

N O N E

Schedule DB - Part C - Section 1 - Replication (Synthetic Asset) Transactions (RSATs) Open

N O N E

Schedule DB-Part C-Section 2-Reconciliation of Replication (Synthetic Asset) Transactions Open

N O N E

Schedule DB - Verification - Book/Adjusted Carrying Value, Fair Value and Potential Exposure of
Derivatives

N O N E

SCHEDULE E - PART 2 - VERIFICATION

(Cash Equivalents)

	1	2
	Year To Date	Prior Year Ended December 31
1. Book/adjusted carrying value, December 31 of prior year	170,998,870	247,683,592
2. Cost of cash equivalents acquired	4,121,523,633	3,232,367,960
3. Accrual of discount	304,090	20,753
4. Unrealized valuation increase (decrease)		
5. Total gain (loss) on disposals	(769)	4,000
6. Deduct consideration received on disposals	4,255,824,533	3,309,077,435
7. Deduct amortization of premium	8,766	
8. Total foreign exchange change in book/adjusted carrying value		
9. Deduct current year's other than temporary impairment recognized		
10. Book/adjusted carrying value at end of current period (Lines 1+2+3+4+5-6-7+8-9)	36,992,525	170,998,870
11. Deduct total nonadmitted amounts		
12. Statement value at end of current period (Line 10 minus Line 11)	36,992,525	170,998,870

Schedule A - Part 2 - Real Estate Acquired and Additions Made

N O N E

Schedule A - Part 3 - Real Estate Disposed

N O N E

Schedule B - Part 2 - Mortgage Loans Acquired and Additions Made

N O N E

Schedule B - Part 3 - Mortgage Loans Disposed, Transferred or Repaid

N O N E

Schedule BA - Part 2 - Other Long-Term Invested Assets Acquired and Additions Made

N O N E

Schedule BA - Part 3 - Other Long-Term Invested Assets Disposed, Transferred or Repaid

N O N E

STATEMENT AS OF SEPTEMBER 30, 2022 OF THE TIAA-CREF LIFE INSURANCE COMPANY

SCHEDULE D - PART 3

Show All Long-Term Bonds and Stock Acquired During the Current Quarter

1	2	3	4	5	6	7	8	9	10
CUSIP Identification	Description	Foreign	Date Acquired	Name of Vendor	Number of Shares of Stock	Actual Cost	Par Value	Paid for Accrued Interest and Dividends	NAIC Designation, NAIC Designation Modifier and SVO Administrative Symbol
38381B-E5-9	GOVERNMENT NATIONAL MORTGAGE SERIES 2019-5 CLASS ZC 3.500% 11/20/48		09/01/2022	Interest Capitalization		68,303	68,307		1.A
91282C-EW-7	US TREASURY N B 3.000% 06/30/27		07/05/2022	Various		177,578,937	173,967,000	92,184	1.A FE
91282C-FB-2	US TREASURY NB 2.750% 07/31/27		08/01/2022	Various		99,400,579	99,200,000	14,826	1.A
91282C-FF-3	US TREASURY NB 2.750% 08/15/32		08/15/2022	JP MORGAN SECURITIES		49,896,484	50,000,000	3,736	1.A FE
91282C-FH-9	US TREASURY NB 3.125% 08/31/27		08/29/2022	CITIGROUP GLOBAL MARKETS INC		43,925,477	44,200,000		1.A FE
0109999999. Subtotal - Bonds - U.S. Governments						370,869,780	367,435,307	110,746	XXX
06738E-CA-1	BARCLAYS PLC 5.746% 08/09/33	D	08/02/2022	BARCLAYS BANK PLC		3,700,000	3,700,000		2.B FE
0309999999. Subtotal - Bonds - All Other Governments						3,700,000	3,700,000		XXX
010878-BM-7	ALAMEDA CNTY CA SERIES B 3.949% 08/01/33		08/10/2022	U.S. BANCORP LIBRA		6,500,000	6,500,000		1.A FE
010878-BN-5	ALAMEDA CNTY CA SERIES B 4.049% 08/01/34		08/10/2022	U.S. BANCORP LIBRA		6,515,000	6,515,000		1.A FE
010878-BP-0	ALAMEDA CNTY CA SERIES B 4.169% 08/01/35		08/10/2022	U.S. BANCORP LIBRA		8,500,000	8,500,000		1.A FE
0709999999. Subtotal - Bonds - U.S. Political Subdivisions of States, Territories and Possessions						21,515,000	21,515,000		XXX
13032U-VL-9	CALIFORNIA ST HLTH FACS FING A 2.984% 06/01/33		07/19/2022	U.S. BANCORP LIBRA		5,306,340	6,000,000	24,867	1.D FE
152691-AY-7	CENTRAL BRADFORD PROGRESS AUTH SERIES C 2.790% 12/01/33		07/20/2022	BANK OF AMERICA		3,472,377	4,120,000	16,284	1.F FE
152691-AZ-4	CENTRAL BRADFORD PROGRESS AUTH SERIES C 2.890% 12/01/34		07/20/2022	BANK OF AMERICA		2,096,051	2,515,000	10,297	1.F FE
152691-BA-8	CENTRAL BRADFORD PROGRESS AUTH SERIES C 2.940% 12/01/35		07/20/2022	BANK OF AMERICA		2,151,136	2,610,000	10,871	1.F FE
3136A9-2X-5	FNR 2012-118 ZV Z SEQ 3.000% 11/25/42		09/01/2022	Interest Capitalization		56,501	56,501		1.A
3137BB-FB-1	FHR 4352 ZW EXCH Z SEQ 3.000% 06/15/44		09/01/2022	Interest Capitalization		107,170	107,170		1.A
3137BG-3K-3	FHR 4430 Z Z SEQ 4.000% 01/15/45		09/01/2022	Interest Capitalization		134,919	134,919		1.A
3137BN-ED-2	FHR 4565 DZ Z SEQ 3.000% 03/15/46		09/01/2022	Interest Capitalization		45,591	45,591		1.A
3137BP-Q2-8	FHR 4579 GZ Z SEQ 3.000% 05/15/46		09/01/2022	Interest Capitalization		95,943	95,943		1.A
3137BT-2L-4	FHR 4631 VZ Z SEQ 3.500% 11/15/46		09/01/2022	Interest Capitalization		45,470	45,470		1.A
3137BW-HK-3	FHR 4665 NZ Z SEQ 3.500% 02/15/47		08/01/2022	Interest Capitalization		27,638	27,638		1.A
3137FG-3N-3	FHR 4801 ZD Z SEQ 4.000% 06/15/48		09/01/2022	Interest Capitalization		120,466	120,466		1.A
38122N-D4-1	GOLDEN ST TOBACCO SECURITIZATI SERIES A-1 3.487% 06/01/36		07/08/2022	WELLS FARGO		18,577,266	22,430,000	89,076	1.G FE
428061-EP-6	HESPERIA CA UNIF SCH DIST COPS 2.639% 02/01/35		07/14/2022	WELLS FARGO		2,675,829	3,390,000	41,500	1.C FE
557363-EB-0	MADISON CNTY NY CAPITAL RESOUR 3.396% 07/01/51		09/28/2022	SUNTRUST CAPITAL MARKETS		7,293,700	10,000,000	83,957	1.D FE
67865E-AL-6	OKLAHOMA CITY OK WTR UTILITIES 4.108% 07/01/33		07/08/2022	JP MORGAN SECURITIES		3,000,000	3,000,000		1.A FE
67865E-AM-4	OKLAHOMA CITY OK WTR UTILITIES 4.208% 07/01/34		07/08/2022	JP MORGAN SECURITIES		3,750,000	3,750,000		1.A FE
67865E-AN-2	OKLAHOMA CITY OK WTR UTILITIES 4.358% 07/01/35		07/08/2022	JP MORGAN SECURITIES		3,870,000	3,870,000		1.A FE
0909999999. Subtotal - Bonds - U.S. Special Revenues						52,826,397	62,318,698	276,852	XXX
00724P-AD-1	ADOBE INC 2.300% 02/01/30		07/25/2022	JP MORGAN SECURITIES		4,541,950	5,000,000	56,222	1.E FE
008513-AD-5	AGREE LP 4.800% 10/01/32		08/15/2022	WELLS FARGO		3,074,301	3,100,000		2.B FE
02079K-AD-9	ALPHABET INC 1.100% 08/15/30		07/26/2022	RBC DAIN RAUSCHER INC.		8,447,300	10,000,000	49,806	1.C FE
02361D-AY-6	AMEREN ILLINOIS CO 3.850% 09/01/32		08/15/2022	MIZUHO SECURITIES USA INC.		4,991,350	5,000,000		1.F FE
03076C-AL-0	AMERIPRISE FINANCIAL INC 4.500% 05/13/32		07/26/2022	U.S. BANCORP LIBRA		5,040,850	5,000,000	46,875	1.G FE
035240-AV-2	ANHEUSER BUSCH INBEV WOR 3.500% 06/01/30		07/21/2022	SG AMERICAS SECURITIES LLC		9,592,150	10,000,000	47,153	2.A FE
037833-EP-1	APPLE INC 3.350% 08/08/32		08/01/2022	JP MORGAN SECURITIES		9,988,200	10,000,000		1.B FE
039482-AD-6	ARCHER DANIELS MIDLAND C 2.900% 03/01/32		07/11/2022	BARCLAYS BANK PLC		9,135,800	10,000,000	107,139	1.F FE
049560-AX-3	ATMOS ENERGY CORP 5.450% 10/15/32		09/28/2022	Various		9,426,924	9,400,000		1.G FE
053332-BB-7	AUTOZONE INC 4.750% 08/01/32		07/21/2022	Various		14,832,014	14,775,000		2.B FE
05377R-FP-4	AVIS BUDGET RENTAL CAR FUNDING SERIES 2022-4A CLASS A 144A 4.770% 02/20/29		07/12/2022	JP MORGAN SECURITIES		11,995,360	12,000,000		1.A FE
05463H-AB-7	AXIS SPECIALTY FINANCE 3.900% 07/15/29		07/21/2022	GOLDMAN SACHS & COMPANY		6,146,519	6,435,000	6,971	2.A FE
05552F-BE-6	BARCLAYS COMMERCIAL MORTGAGE SERIES 2022-C15 CLASS AS 3.752% 04/15/55		07/06/2022	BANK OF AMERICA		845,219	925,000	675	1.A FE
05565E-BX-2	BMW US CAPITAL LLC SERIES 144A 1.950% 08/12/31		07/28/2022	WELLS FARGO		4,254,900	5,000,000	45,771	1.F FE
06541R-BE-2	BANK SERIES 2019-BN23 CLASS AS 3.203% 12/15/52		07/26/2022	WELLS FARGO		1,448,789	1,585,000	3,808	1.A
071813-CS-6	BAXTER INTERNATIONAL INC 2.539% 02/01/32		07/21/2022	DEUTSCHE BANK SECURITIES INCOR		8,572,400	10,000,000	165,035	2.B FE
08162B-BJ-0	BIAMK 2019-B11 AS SUB 3.784% 05/15/52		07/06/2022	CREDIT SUISSE SECURITIES US LL		2,142,844	2,280,000	1,678	1.A
08163H-AH-1	BENCHMARK MORTGAGE TRUST SERIES 2021-B27 CLASS AS 2.512% 07/15/54		07/26/2022	OPPENHEIMER & CO INC		849,609	1,000,000	1,884	2.A
090572-AR-9	BIO RAD LABS 3.300% 03/15/27		07/12/2022	MORGAN STANLEY & CO. INC.		3,561,389	3,759,000	45,484	2.B FE
12477B-AE-4	CAMB COMMERCIAL MORTGAGE TR SERIES 2021-CX2 CLASS B 144A 2.864% 11/10/46		08/25/2022	BANK OF AMERICA		2,911,563	3,500,000	7,795	1.A
12529M-AK-4	CANTOR COMMERCIAL REAL ESTATE SERIES 2019-CF1 CLASS B 4.178% 05/15/52		07/20/2022	BARCLAYS BANK PLC		1,840,000	2,000,000	4,875	1.D
12551M-AC-3	CIFC FUNDING LTD SERIES 2017-5A CLASS A2 144A 4.340% 11/16/30		09/27/2022	MIITSUBISHI UFJ SECURITIES USA		5,637,063	5,875,000	51,707	1.C FE
12640B-HU-0	CSX CORP 4.100% 11/15/32		07/21/2022	BANK OF AMERICA		29,856,478	29,875,000		2.A FE
12663D-AC-8	CREDIT SUISSE MORTGAGE TRUST SERIES 2022-NQMS CLASS A1 144A 5.169% 06/25/67		08/01/2022	CREDIT SUISSE SECURITIES US LL		29,848,980	30,000,000	137,840	1.A FE

STATEMENT AS OF SEPTEMBER 30, 2022 OF THE TIAA-CREF LIFE INSURANCE COMPANY

SCHEDULE D - PART 3

Show All Long-Term Bonds and Stock Acquired During the Current Quarter

1	2	3	4	5	6	7	8	9	10
CUSIP Identification	Description	Foreign	Date Acquired	Name of Vendor	Number of Shares of Stock	Actual Cost	Par Value	Paid for Accrued Interest and Dividends	NAIC Designation, NAIC Designation Modifier and SVO Administrative Symbol
15135B-AR-2	CENTENE CORP SERIES WI 4.250% 12/15/27		09/30/2022	JP MORGAN SECURITIES		4,562,500	5,000,000	64,340	3.A FE
171239-AG-1	CHUBB INA HOLDINGS INC 1.375% 09/15/30		07/25/2022	U.S. BANCORP INVESTMENTS INC		8,205,800	10,000,000	50,417	1.F FE
171484-AG-3	CHURCHILL DOWNS INC SERIES 144A 5.500% 04/01/27		09/30/2022	DEUTSCHE BANK SECURITIES INCOR		927,500	1,000,000	458	4.A Z
194162-AP-8	COLGATE-PALMOLIVE CO 3.250% 08/15/32		08/01/2022	BARCLAYS BANK PLC		6,170,282	6,225,000		1.D FE
210518-DP-8	CONSUMERS ENERGY CO 3.600% 08/15/32		08/01/2022	JP MORGAN SECURITIES		10,517,106	10,525,000		1.E FE
24422E-VD-8	JOHN DEERE CAPITAL CORP SERIES MTN 2.450% 01/09/30		07/28/2022	BANK OF AMERICA		9,270,200	10,000,000	14,972	1.F FE
25389J-AV-8	DIGITAL REALTY TRUST LP 5.550% 01/15/28		09/27/2022	Various		19,753,260	20,000,000	6,167	2.B FE
276480-AF-7	EASTERN GAS TRAN 4.800% 11/01/43		08/24/2022	Tax Free Exchange		9,044,343	7,700,000	116,013	1.G Z
316773-DF-4	FIFTH THIRD BANCORP 4.337% 04/25/33		07/12/2022	U.S. BANCORP LIBRA		9,620,300	10,000,000	94,571	2.A FE
345397-C2-7	FORD MOTOR CREDIT CO LLC 4.950% 05/28/27		09/28/2022	CITIGROUP GLOBAL MARKETS INC		2,740,000	3,000,000	66,688	3.A FE
36264F-AC-5	GSK CONSUMER HEALTHCARE SERIES 144A 3.375% 03/24/29		07/12/2022	WELLS FARGO		6,878,788	7,285,000	75,127	2.B FE
404119-CD-9	HCA INC SERIES 144A 3.125% 03/15/27		07/12/2022	DEUTSCHE BANK SECURITIES INCOR		4,599,550	5,000,000	54,253	2.C FE
42225U-AK-0	HEALTHCARE TRUST OF AMER 3.625% 01/15/28		07/20/2022	Taxable Exchange		1,734,871	1,850,000	931	2.B FE
42225U-AL-8	HEALTHCARE TRUST OF AMER 2.400% 03/15/30		07/20/2022	Taxable Exchange		3,579,019	4,250,000	35,417	2.B FE
42225U-AM-6	HEALTHCARE TRUST OF AMER 2.050% 03/15/31		07/20/2022	Taxable Exchange		4,009,681	5,000,000	35,590	2.B FE
43283G-AA-0	HILTON GRAND VACATIONS TRUST SERIES 2022-2A CLASS A 144A 4.300% 01/25/37		08/01/2022	WELLS FARGO		4,999,091	5,000,000		1.A FE
44055P-AA-4	HORIZON PHARMA USA INC CO.GUARNT 5.500% 08/01/27		09/30/2022	JP MORGAN SECURITIES		719,100	765,000	7,363	4.A FE
446150-BB-9	HUNTINGTON BANCSHARES 4.443% 08/04/28		08/01/2022	CITIGROUP GLOBAL MARKETS INC		10,000,000	10,000,000		2.A FE
49327V-2C-7	KEY BANK NA 4.900% 08/08/32		08/03/2022	KEYBANC CAPITAL MARKETS		14,962,500	15,000,000		2.A FE
49456B-AV-3	KINDER MORGAN INC 4.800% 02/01/33		07/25/2022	CITIGROUP GLOBAL MARKETS INC		9,994,300	10,000,000		2.B FE
53079E-BG-8	LIBERTY MUTUAL GROUP INC CO.GUARNT 4.569% 02/01/29		07/13/2022	WELLS FARGO		5,567,903	5,620,000	116,977	2.B FE
55903V-AL-7	MAGALLANES INC SERIES 144A 4.279% 03/15/32		07/21/2022	BANK OF AMERICA		4,558,050	5,000,000	77,260	2.C FE
58933Y-BE-4	MERCK & CO INC 2.150% 12/10/31		07/25/2022	RBC DAIN RAUSCHER INC.		8,849,000	10,000,000	28,069	1.E FE
59156R-CC-0	METLIFE INC 5.000% 07/15/52		07/07/2022	GOLDMAN SACHS & COMPANY		923,418	925,000		1.G FE
59217G-GU-7	MET LIFE GLOB FUNDING I SERIES 144A 1.550% 01/07/31		07/26/2022	U.S. BANCORP INVESTMENTS INC		2,782,736	3,405,000	3,079	1.D FE
651229-AW-6	NEWELL BRANDS INC SR UNSEC 4.200% 04/01/26		09/30/2022	Various		4,655,000	5,000,000	16,069	3.A FE
67103H-AL-1	O REILLY AUTOMOTIVE INC 4.700% 06/15/32		07/21/2022	CITIGROUP GLOBAL MARKETS INC		5,089,100	5,000,000	26,111	2.B FE
680665-AJ-5	OLIN CORP SR UNSEC 5.125% 09/15/27		08/03/2022	MORGAN STANLEY & CO. INC.		4,800,000	5,000,000	99,653	3.A FE
682696-AB-5	ONEMAIN FINANCIAL ISSUANCE TR SERIES 2020-2A CLASS B 144A 2.210% 09/14/35		07/26/2022	CITIGROUP GLOBAL MARKETS INC		2,865,078	3,250,000	2,793	1.C FE
694476-AF-9	PACIFIC LIFE CORP SERIES 144A 5.400% 09/15/52		09/08/2022	GOLDMAN SACHS & COMPANY		9,985,200	10,000,000		1.G FE
713448-FM-5	PEPSICO INC 3.900% 07/18/32		07/14/2022	MORGAN STANLEY & CO. INC.		16,274,572	16,300,000		1.E FE
73179P-AM-8	POLYONE CORP SERIES 144A 5.750% 05/15/25		07/27/2022	JP MORGAN SECURITIES		997,500	1,000,000	11,819	3.C FE
737446-AM-6	POST HOLDINGS INC CO.GUARNT 5.750% 03/01/27		09/30/2022	MORGAN STANLEY & CO. INC.		2,872,500	3,000,000	15,813	4.B FE
74166M-AF-3	PRIME SECSRVC BRW FINANC SERIES 144A 3.375% 08/31/27		09/29/2022	BNP PARIBAS		4,212,500	5,000,000	50,625	3.C FE
743315-AZ-6	PROGRESSIVE CORP 3.000% 03/15/32		07/28/2022	BARCLAYS BANK PLC		7,472,080	8,000,000	94,667	1.F FE
74460D-AJ-8	PUBLIC STORAGE 2.250% 11/09/31		08/02/2022	WELLS FARGO		6,524,393	7,543,000	40,072	1.F FE
75524K-PG-3	CITIZENS BANK NA RI 4.575% 08/09/28		08/04/2022	MORGAN STANLEY & CO. INC.		5,000,000	5,000,000		2.A FE
76209P-AB-9	RGA GLOBAL FUNDING SERIES 144A 2.700% 01/18/29		07/21/2022	GOLDMAN SACHS & COMPANY		7,200,587	8,044,000	4,223	1.E FE
79588T-AD-2	SAMMONS FINANCIAL GROUP SERIES 144A 3.350% 04/16/31		07/25/2022	Various		5,828,669	7,017,000	64,947	2.A FE
82967N-BA-5	SIRIUS XM RADIO INC CO.GUARNT 5.000% 08/01/27		09/30/2022	BNP PARIBAS		4,600,000	5,000,000	43,750	3.C FE
857477-BV-4	STATE STREET CORP 4.164% 08/04/33		08/01/2022	BANK OF AMERICA		10,000,000	10,000,000		1.E FE
882508-BJ-2	TEXAS INSTRUMENTS INC 1.750% 05/04/30		07/11/2022	HSBC SECURITIES USA INC		8,633,900	10,000,000	33,542	1.E FE
882508-BP-8	TEXAS INSTRUMENTS INC 3.650% 08/16/32		08/10/2022	BANK OF AMERICA		1,994,180	2,000,000		1.E FE
898384-AQ-5	TRUSTEES OF UNION COLL UNSEC 4.877% 07/01/35		07/19/2022	BARCLAYS BANK PLC		3,037,320	3,000,000	8,128	1.E FE
904764-BQ-9	UNILEVER CAPITAL CORP 1.750% 08/12/31		07/25/2022	BANK OF AMERICA		8,479,200	10,000,000	80,208	1.E FE
92539N-AA-4	VERUS SECURITIZATION TRUST SERIES 2022-7 CLASS A1 144A 5.152% 07/25/67		07/28/2022	CREDIT SUISSE SECURITIES US LL		31,499,650	31,500,000	148,764	1.A FE
969457-BZ-2	WILLIAMS COMPANIES INC 4.650% 08/15/32		08/03/2022	BANK OF AMERICA		9,963,500	10,000,000		2.B FE
970648-AJ-0	WILLIS NORTH AMERICA INC 2.950% 09/15/29		07/14/2022	WELLS FARGO		1,556,755	1,791,000	18,052	2.B FE
970648-AL-5	WILLIS NORTH AMERICA INC 4.650% 06/15/27		07/14/2022	WELLS FARGO		3,444,665	3,500,000	26,673	2.B FE
136375-DC-3	CANADIAN NATL RAILWAY 3.850% 08/05/32	A.	08/02/2022	Various		11,958,920	12,000,000		1.F Z
67077M-AT-5	NUTRIEN LTD 4.200% 04/01/29	A.	07/13/2022	GOLDMAN SACHS & COMPANY		9,767,900	10,000,000	121,333	2.B FE
87971M-BW-2	TELUS CORP 3.400% 05/13/32	A.	07/21/2022	BANK OF AMERICA		9,135,300	10,000,000	68,000	2.A FE
89114T-ZJ-4	TORONTO DOMINION BANK SERIES MTN 2.000% 09/10/31	A.	07/13/2022	THE TORONTO-DOMINION BANK		4,102,100	5,000,000	34,722	1.E FE
94106B-AF-8	WASTE CONNECTIONS INC 4.200% 01/15/33		08/04/2022	BANK OF AMERICA		5,584,768	5,600,000		2.A FE
052528-AL-0	AUST & NZ BANKING GROUP SERIES 144A 2.950% 07/22/30	D.	07/13/2022	MARKETAXESS HOLDINGS INC		4,694,750	5,000,000	70,882	2.A FE
12594K-AB-8	CNH INDUSTRIAL NV SERIES MTN 3.850% 11/15/27	D.	07/12/2022	BARCLAYS BANK PLC		4,730,700	5,000,000	31,549	2.B FE
460599-AD-5	INTERNATIONAL GAME TECH SR SEC 6.250% 01/15/27	D.	09/30/2022	GOLDMAN SACHS & COMPANY		2,425,000	2,500,000	34,288	3.B FE

STATEMENT AS OF SEPTEMBER 30, 2022 OF THE TIAA-CREF LIFE INSURANCE COMPANY

SCHEDULE D - PART 3

Show All Long-Term Bonds and Stock Acquired During the Current Quarter

1	2	3	4	5	6	7	8	9	10
CUSIP Identification	Description	Foreign	Date Acquired	Name of Vendor	Number of Shares of Stock	Actual Cost	Par Value	Paid for Accrued Interest and Dividends	NAIC Designation, NAIC Designation Modifier and SVO Administrative Symbol
46132F-AD-2	INVESCO FINANCE PLC 3.750% 01/15/26	D.....	..07/26/2022	U.S. BANCORP INVESTMENTS INC .....	.....	9,873,500	10,000,000	6,771	2.A FE
55819F-AN-1	MADISON PARK FUNDING LTD SERIES 2022-55A CLASS B2 144A 5.544% 07/18/35	D.....	..07/06/2022	NOMURA SECURITIES INTL INC. ....	.....	5,500,000	5,500,000 .....	.....	1.C FE
62878U-2B-7	NBN CO LTD SERIES 144A 2.625% 05/05/31	D.....	..07/27/2022	Various .....	.....	5,474,764	6,305,000	38,418	1.E FE
902613-AT-5	UBS GROUP AG SERIES 144A 4.988% 08/05/33	D.....	..08/01/2022	U.S. BANCORP LIBRA .....	.....	7,000,000	7,000,000 .....	.....	1.G FE
1109999999. Subtotal - Bonds - Industrial and Miscellaneous (Unaffiliated)						601,185,301	628,909,000	2,820,282	XXX
2509999997. Total - Bonds - Part 3						1,050,096,478	1,083,878,005	3,207,880	XXX
2509999998. Total - Bonds - Part 5						XXX	XXX	XXX	XXX
2509999999. Total - Bonds						1,050,096,478	1,083,878,005	3,207,880	XXX
4509999997. Total - Preferred Stocks - Part 3							XXX		XXX
4509999998. Total - Preferred Stocks - Part 5						XXX	XXX	XXX	XXX
4509999999. Total - Preferred Stocks							XXX		XXX
5989999997. Total - Common Stocks - Part 3							XXX		XXX
5989999998. Total - Common Stocks - Part 5						XXX	XXX	XXX	XXX
5989999999. Total - Common Stocks							XXX		XXX
5999999999. Total - Preferred and Common Stocks							XXX		XXX
6009999999 - Totals						1,050,096,478	XXX	3,207,880	XXX

STATEMENT AS OF SEPTEMBER 30, 2022 OF THE TIAA-CREF LIFE INSURANCE COMPANY

SCHEDULE D - PART 4

Show All Long-Term Bonds and Stock Sold, Redeemed or Otherwise Disposed of During the Current Quarter

1	2	3	4	5	6	7	8	9	10	Change In Book/Adjusted Carrying Value					16	17	18	19	20	21	22
										11	12	13	14	15							
CUSIP Identification	Description	For- eign	Disposal Date	Name of Purchaser	Number of Shares of Stock	Consid- eration	Par Value	Actual Cost	Prior Year Book/ Adjusted Carrying Value	Unrealized Valuation Increase/ (Decrease)	Current Year's (Amor- tization)/ Accretion	Current Year's Other Than Temporary Impairment Recogn- ized	Total Change in Book/ Adjusted Carrying Value (11 + 12 - 13)	Total Foreign Exchange Change in Book /Adjusted Carrying Value	Book/ Adjusted Carrying Value at Disposal Date	Foreign Exchange Gain (Loss) on Disposal	Realized Gain (Loss) on Disposal	Total Gain (Loss) on Disposal	Bond Interest/ Stock Dividends Received During Year	Stated Con- tractual Maturity Date	NAIC Desig- nation, NAIC Desig- nation Modifier and SVO Admini- strative Symbol
228027-AA-6	VESSEL MANAGEMENT SERVIC US GOVT GUARANT 3.432% 08/15/36		08/15/2022	Call 100.0000		88,997	89,000	89,000	89,000						89,000				3,054	08/15/2036	1.A
228027-AB-4	VESSEL MANAGEMENT SERVIC US GOVT GUARANT 3.477% 01/16/37		07/16/2022	Call 100.0000		140,000	140,000	140,000	140,000						140,000				4,868	01/16/2037	1.A
29766D-AF-1	ETHIOPIAN LEASING 2012 US GOVT GUARANT 2.646% 05/12/26		08/12/2022	Redemption 100.0000		519,292	519,292	519,292	519,292						519,292				10,305	05/12/2026	1.A
29766D-AG-9	ETHIOPIAN LEASING 2012 US GOVT GUARANT 2.566% 08/14/26		08/14/2022	Redemption 100.0000		227,716	227,716	227,716	227,716						227,716				4,382	08/14/2026	1.A
302155-BA-3	EXP IMP IMB 2.628% 11/12/26		08/12/2022	Redemption 100.0000		216,316	216,316	216,316	216,316						216,316				4,264	11/12/2026	1.A
30217T-AA-0	EXPORT LEASE TEN CO LLC US GOVT GUARANT 1.650% 05/07/25		08/07/2022	Redemption 100.0000		87,719	87,719	83,998	86,469		1,249		1,249		87,719				1,086	05/07/2025	1.A
361744-PJ-1	GN A04025 3.700% 10/15/33		09/01/2022	Paydown 124,077		124,077	124,077	127,799	126,551		(2,474)		(2,474)		124,077				3,061	10/15/2033	1.A
361708-L6-7	GNMA POOL BX3949 1.730% 07/15/37		09/01/2022	Paydown 388,038		388,038	388,038	388,523	388,466		(428)		(428)		388,038				4,476	07/15/2037	1.A
36170U-LJ-0	GNMA POOL BZ0329 1.650% 07/15/42		09/01/2022	Paydown 311,305		311,305	311,305	311,402	311,388		(83)		(83)		311,305				3,425	07/15/2042	1.A
36181R-SZ-4	GN AF9864 4.250% 09/15/38		09/01/2022	Paydown 340,425		340,425	340,425	371,928	369,485		(29,060)		(29,060)		340,425				9,648	09/15/2038	1.A
49549C-AA-6	KING INTL LEASING LLC US GOVT GUARANT 2.754% 10/15/22		07/15/2022	Redemption 100.0000		204,672	204,672	204,672	204,672						204,672				4,228	10/15/2022	1.A
690353-VQ-7	OVERSEAS PRIVATE INV COR US GOVT GUARANT 2.610% 04/15/30		08/01/2022	Call 100.0000		4,661,747	4,661,747	4,661,747	4,661,747						4,661,747				96,661	04/15/2030	1.A
690353-XM-4	OVERSEAS PRIVATE INV COR US GOVT GUARANT 3.590% 12/15/30		09/15/2022	Redemption 100.0000		35,714	35,714	35,714	35,714						35,714				962	12/15/2030	1.A
690353-XN-2	OVERSEAS PRIVATE INV COR US GOVT GUARANT 3.540% 06/15/30		09/15/2022	Redemption 100.0000		124,997	124,997	124,997	124,997						124,997				3,319	06/15/2030	1.A
71654Q-BL-5	PETROLEOS MEXICANOS US GOVT GUARANT 2.830% 02/15/24		08/15/2022	Redemption 100.0000		750,000	750,000	750,000	750,000						750,000				21,225	02/15/2024	1.A
71654Q-BP-6	PETROLEOS MEXICANOS US GOVT GUARANT 2.290% 02/15/24		08/15/2022	Redemption 100.0000		750,000	750,000	750,000	750,000						750,000				17,175	02/15/2024	1.A
71654Q-BS-0	PETROLEOS MEXICANOS US GOVT GUARANT 2.862% 04/15/25		07/15/2022	Redemption 100.0000		125,000	125,000	123,125	124,379		621		621		125,000				766	04/15/2025	1.A
746388-AA-5	PURPLE CHEN 2011 LLC US GOVT GUARANT 2.735% 08/01/23		08/01/2022	Redemption 100.0000		601,977	601,977	601,977	601,977						601,977				12,348	08/01/2023	1.A
797224-AC-6	SAN CLEMENTE LEASING LLC US GOVT GUARANT 3.030% 11/22/22		08/22/2022	Redemption 100.0000		164,788	164,788	164,788	164,788						164,788				3,745	11/22/2022	1.A
79977T-AA-7	SANDALWOOD 2013 LLC US GOVT GUARANT 2.836% 07/10/25		07/10/2022	Redemption 100.0000		396,514	396,514	396,514	396,514						396,514				8,434	07/10/2025	1.A
79977T-AB-5	SANDALWOOD 2013 LLC US GOVT GUARANT 2.897% 07/10/25		07/10/2022	Redemption 100.0000		349,865	349,865	349,865	349,865						349,865				7,602	07/10/2025	1.A
90373R-AA-8	ULANI MSN 35940 LLC US GOVT GUARANT 2.227% 05/16/25		08/16/2022	Redemption 100.0000		208,333	208,333	208,333	208,333						208,333				3,480	05/16/2025	1.A
912828-X4-7	US TREASURY N/B United States Treasury No 1.87 1.875% 04/30/22		07/01/2022	Maturity 250,000		250,000	250,000	250,342	250,023		(23)		(23)		250,000				2,344	04/30/2022	1.A
91282C-EP-2	US TREASURY N B 2.875% 05/15/32		08/15/2022	Various 643,957,555		642,200,000	642,200,000	622,791,406			174,691		174,691		622,966,097		20,991,458	20,991,458	3,742,275	05/15/2032	1.A FE
91282C-ET-4	WI TREASURY SEC 2.750% 05/31/27		07/05/2022	Various 178,155,266		179,600,000	179,600,000	173,899,898			47,815		47,815		173,947,714		4,207,552	4,207,552	463,721	05/31/2027	1.A FE
91282C-EW-7	US TREASURY N B 3.000% 06/30/27		07/29/2022	Various 75,926,873		74,767,000	74,767,000	76,274,022			(11,876)		(11,876)		76,262,146		(335,273)	(335,273)	140,904	06/30/2027	1.A
91282C-EW-7	US TREASURY N B 3.000% 06/30/27		08/01/2022	Various 101,623,882		99,200,000	99,200,000	101,304,914			(29,215)		(29,215)		101,275,699		348,183	348,183	289,109	06/30/2027	1.A FE
91282C-FB-2	US TREASURY NB 2.750% 07/31/27		08/29/2022	Various 97,879,039		99,200,000	99,200,000	99,400,579			(1,094)		(1,094)		99,399,485		(1,520,446)	(1,520,446)	135,333	07/31/2027	1.A
91282C-FF-3	US TREASURY NB 2.750% 08/15/32		08/26/2022	Various 48,742,773		50,000,000	50,000,000	49,896,484			235		235		49,896,719		(1,153,946)	(1,153,946)	39,232	08/15/2032	1.A FE
91282C-FH-9	US TREASURY NB 3.125% 08/31/27		09/07/2022	Various 43,757,594		44,200,000	44,200,000	43,925,477			1,153		1,153		43,926,629		(169,036)	(169,036)	26,209	08/31/2027	1.A FE
92242V-AB-2	YCK LEASE SA US GOVT GUARANT 2.591% 07/24/26		09/01/2022	Redemption 100.0000		8,201,414	8,201,414	8,201,414	8,201,414						8,201,414				179,995	07/24/2026	1.A
0109999999. Subtotal - Bonds - U.S. Governments						1,209,311,888	1,208,435,909	1,186,792,242	19,299,106		151,511		151,511		1,186,943,398		22,368,492	22,368,492	5,247,636	XXX	XXX
14440P-AA-1	CARPINTERO FINANCE LTD GOVT GTD. 2.004% 09/18/24	D	09/18/2022	Redemption 100.0000		235,159	235,159	235,159	235,159						235,159				3,534	09/18/2024	1.A Z

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										11	12	13	14	15							
CUSIP Ident-ification	Description	For- eign	Disposal Date	Name of Purchaser	Number of Shares of Stock	Consid- eration	Par Value	Actual Cost	Prior Year Book/ Adjusted Carrying Value	Unrealized Valuation Increase/ (Decrease)	Current Year's (Amor- tization)/ Accretion	Current Year's Other Than Temporary Impairment Recogn- ized	Total Change in Book/ Adjusted Carrying Value (11 + 12 - 13)	Total Foreign Exchange Change in Book /Adjusted Carrying Value	Book/ Adjusted Carrying Value at Disposal Date	Foreign Exchange Gain (Loss) on Disposal	Realized Gain (Loss) on Disposal	Total Gain (Loss) on Disposal	Bond Interest/ Stock Dividends Received During Year	Stated Con- tractual Maturity Date	NAIC Desig- nation, NAIC Desig- nation Modifier and SVO Admini- strative Symbol
0309999999	Subtotal - Bonds - All Other Governments					235,159	235,159	235,159	235,159						235,159				3,534	XXX	XXX
3132FC-F2-6	FHLMC POOL Z40185 5.500% 01/01/52		09/01/2022	Paydown		19,402	19,402	21,577			(2,175)		(2,175)		19,402				617	01/01/2052	1.A
3133KY-SV-2	FHLMC POOL RB5032 2.500% 02/01/40		09/01/2022	Paydown		284,299	284,299	289,328		(5,029)			(5,029)		284,299				4,707	02/01/2040	1.A
31359U-PG-4	FNW 1998-W2 B1 SUB 6.500% 06/25/28		09/01/2022	Paydown		18,255	18,255	17,474			424		424		18,255				799	06/25/2028	1.A
31359U-PH-2	FNW 1998-W2 B2 SUB 6.500% 06/25/28		09/01/2022	Paydown		18,255	18,255	17,206			558		558		18,255				799	06/25/2028	1.A
3136A1-T3-9	FNR 2011-115 MB PAC-11 2.500% 11/25/26		09/01/2022	Paydown		175,114	175,114	177,850		(1,330)			(1,330)		175,114				2,920	11/25/2026	1.A
3136AA-A2-1	FNR 2012-133 NA PAC-11 1.500% 05/25/42		09/01/2022	Paydown		210,451	210,451	209,990			388		388		210,451				2,103	05/25/2042	1.A
	FNR 2012-138 QA EXCH PAC-11 2.000% 11/25/42																				
3136AA-FR-1	FNR 2016-53 GA SEQ 3.500% 12/25/43		09/01/2022	Paydown		358,781	358,781	366,349		(5,997)			(5,997)		358,781				4,776	11/25/2042	1.A
3136AS-SM-4	FNR 2016-37 MJ EXCH SEQ 3.500% 08/25/43		09/01/2022	Paydown		150,103	150,103	159,262		(4,076)			(4,076)		150,103				3,536	12/25/2043	1.A
3136AS-OR-0	FNR 2017-67 BN EXCH AD SEQ 3.000% 02/25/44		09/01/2022	Paydown		124,589	124,589	131,948		(2,792)			(2,792)		124,589				2,895	08/25/2043	1.A
3136AX-W2-8			09/01/2022	Paydown		98,523	98,523	100,571		(1,411)			(1,411)		98,523				1,932	02/25/2044	1.A
3136AX-TU-9	FNR 2017-62 AB EXCH PAC 3.000% 08/25/45		09/01/2022	Paydown		640,742	640,742	656,961		(10,948)			(10,948)		640,742				12,998	08/25/2045	1.A
3136B2-XP-2	FNR 2018-58 P AD PAC 4.000% 12/25/44		09/01/2022	Paydown		145,707	145,707	150,124		(3,437)			(3,437)		145,707				3,782	12/25/2044	1.A
	Redemption 100.0000																				
3136B7-3Z-2	FANNIE MAE FANNIE MAE 3.500% 11/01/49		09/01/2022			110,246	110,246	114,105		(3,450)			(3,450)		110,246				2,571	11/01/2049	1.A
3137AG-R3-6	FHR 3935 GA EXCH PAC-11 3.000% 10/15/26		09/01/2022	Paydown		133,542	133,542	139,197		(2,980)			(2,980)		133,542				2,664	10/15/2026	1.A
3137AG-UM-0	FHR 3940 CB SCH-11 3.000% 01/15/25		09/01/2022	Paydown		202,863	202,863	211,294		(3,668)			(3,668)		202,863				4,188	01/15/2025	1.A
3137AJ-CP-7	FHR 3958 PA PAC-11 3.000% 11/15/26		09/01/2022	Paydown		199,787	199,787	208,208		(4,639)			(4,639)		199,787				3,901	11/15/2026	1.A
3137BM-ZE-9	FHR 4550 GA SEQ 3.000% 10/15/41		09/01/2022	Paydown		336,499	336,499	349,906		(2,741)			(2,741)		336,499				6,735	10/15/2041	1.A
3137BN-E8-3	FHR 4565 DM EXCH SEQ 3.000% 02/15/42		09/01/2022	Paydown		198,168	198,168	205,352		(2,116)			(2,116)		198,168				4,051	02/15/2042	1.A
3137BS-DS-9	FHR 4622 HA SEQ 3.000% 11/15/43		09/01/2022	Paydown		250,555	250,555	262,300		(5,592)			(5,592)		250,555				4,865	11/15/2043	1.A
3137BW-2C-7	FHR 4671 CA EXCH SEQ 3.500% 08/15/43		09/01/2022	Paydown		86,248	86,248	89,348		(1,266)			(1,266)		86,248				2,004	08/15/2043	1.A
3137BW-HK-3	FHR 4665 NZ Z SEQ 3.500% 02/15/47		09/01/2022	Paydown		51,141	51,141	49,925			742		742		51,141				446	02/15/2047	1.A
3137BY-YS-7	FHR 4674 AL SEQ 3.000% 07/15/45		09/01/2022	Paydown		381,036	381,036	356,566		13,289			13,289		381,036				7,504	07/15/2045	1.A
3137F1-4B-1	FHR 4690 QA EXCH SEQ 3.500% 05/15/44		09/01/2022	Paydown		151,776	151,776	156,329		(1,731)			(1,731)		151,776				3,560	05/15/2044	1.A
3137F1-5E-4	FHR 4690 WA EXCH SEQ 3.500% 12/15/43		09/01/2022	Paydown		557,012	557,012	575,463		(7,848)			(7,848)		557,012				13,101	12/15/2043	1.A
3137F3-QV-9	FHR 4764 DA EXCH SEQ 4.000% 07/15/45		09/01/2022	Paydown		151,245	151,245	154,790		(1,578)			(1,578)		151,245				3,915	07/15/2045	1.A
3137FA-E7-9	FHR 4708 B EXCH SEQ 3.500% 10/15/44		09/01/2022	Paydown		318,321	318,321	329,561		(5,208)			(5,208)		318,321				7,424	10/15/2044	1.A
3137FB-D3-7	FHR 4728 A EXCH SEQ 3.500% 02/15/45		09/01/2022	Paydown		193,072	193,072	199,671		(3,290)			(3,290)		193,072				4,503	02/15/2045	1.A
3137FB-HU-3	FHR 4725 QT EXCH SEQ 3.500% 01/15/45		09/01/2022	Paydown		323,223	323,223	334,056		(5,407)			(5,407)		323,223				7,538	01/15/2045	1.A
3137FG-NC-5	FHR 4809 JY EXCH SEQ 4.500% 05/15/48		09/01/2022	Paydown		320,509	320,509	337,887		(9,490)			(9,490)		320,509				9,331	05/15/2048	1.A
3137FG-SK-2	FHR 4814 BA EXCH SC PT 4.500% 07/15/48		09/01/2022	Paydown		270,876	270,876	280,018		(5,543)			(5,543)		270,876				7,957	07/15/2048	1.A
3138EL-N8-2	FNMA AL4014 3.500% 07/01/43		09/01/2022	Paydown		237,754	237,754	253,914		(14,772)			(14,772)		237,754				5,465	07/01/2043	1.A
31392J-LN-7	FNR 2003-15 PG PAC-11 5.500% 03/25/33		09/01/2022	Paydown		25,023	25,023	24,063			480		480		25,023				963	03/25/2033	1.A
31394B-WK-6	FNRA 2004-96 QD PAC-11 5.500% 12/25/34		09/01/2022	Paydown		108,839	108,839	107,206			631		631		108,839				4,028	12/25/2034	1.A
31395D-CQ-0	FNRA 2006-41 ZV Z SEQ 6.000% 05/25/36		09/01/2022	Paydown		78,297	78,297	76,670			728		728		78,297				3,096	05/25/2036	1.A
31395E-RK-5	FHR 2840 ZH Z SEQ 5.000% 08/15/34		09/01/2022	Paydown		23,175	23,175	19,583			1,055		1,055		23,175				755	08/15/2034	1.A
31395N-GE-1	FNRA 2006-45 AN SEQ 6.000% 06/25/26		09/01/2022	Paydown		54,644	54,644	54,114			339		339		54,644				2,214	06/25/2026	1.A
31396G-L8-2	FHR 3101 PE PAC-1-11 5.500% 01/15/36		09/01/2022	Paydown		68,428	68,428	67,412			517		517		68,428				2,400	01/15/2036	1.A
31397E-W5-0	FHR 3280 ME PAC-1-11 5.500% 02/15/37		09/01/2022	Paydown		41,107	41,107	40,574			197		197		41,107				1,547	02/15/2037	1.A
31397J-MR-2	FHR 3341 B SEQ 6.000% 07/15/37		09/01/2022	Paydown		572	572	546			21		21		572				23	07/15/2037	1.A
31397U-RC-5	FNRA 2011-53 TN EXCH PT 4.000% 06/25/41		09/01/2022	Paydown		290,629	290,629	306,435		(14,049)			(14,049)		290,629				7,793	06/25/2041	1.A
3140J9-YB-1	FNMA BMS205 4.000% 06/01/45		09/01/2022	Paydown		253,893	253,893	263,375		(8,971)			(8,971)		253,893				6,396	06/01/2045	1.A
3141BD-FN-7	FNMA POOL MA3772 3.500% 09/01/39		09/01/2022	Paydown		168,190	168,190	174,366		(5,799)			(5,799)		168,190				4,011	09/01/2039	1.A
3141BD-GJ-5	FNMA POOL MA3800 3.000% 10/01/39		09/01/2022	Paydown		137,373	137,373	140,807		(3,217)			(3,217)		137,373				2,751	10/01/2039	1.A
3141BD-HJ-4	FNMA POOL MA3832 3.500% 11/01/39		09/01/2022	Paydown		208,941	208,941	217,168		(7,773)			(7,773)		208,941				5,052	11/01/2039	1.A
3141BD-JP-8	FNMA POOL MA3869 3.500% 12/01/39		09/01/2022	Paydown		111,078	111,078	115,591		(4,226)			(4,226)		111,078				2,827	12/01/2039	1.A
3141BD-LP-5	FNMA POOL MA3933 2.500% 02/01/40		09/01/2022	Paydown		269,163	269,163	273,032		(3,642)			(3,642)		269,163				4,478	02/01/2040	1.A
3141BD-MP-4	FNMA POOL MA3965 2.500% 03/01/40		09/01/2022	Paydown		236,463	236,463	239,640		(2,980)			(2,980)		236,463				3,908	03/01/2040	1.A
3141BD-P4-8	FNMA POOL MA4042 2.000% 06/01/35		09/01/2022	Paydown		512,676	512,676	527,450		(14,774)			(14,774)		512,676				6,774	06/01/2035	1.A
3141BD-Q2-1	FNMA POOL MA4072 2.500% 07/01/40		09/01/2022	Paydown		399,420	399,420	415,084		(14,884)			(14,884)		399,420				6,892	07/01/2040	1.A
3141BD-Q4-7	FNMA POOL MA4074 2.000% 07/01/35		09/01/2022	Paydown		536,896	536,896	553,506		(15,531)			(15,531)		536,896				7,129	07/01/2035	1.A

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SCHEDULE D - PART 4

Show All Long-Term Bonds and Stock Sold, Redeemed or Otherwise Disposed of During the Current Quarter

1	2	3	4	5	6	7	8	9	10	Change In Book/Adjusted Carrying Value					16	17	18	19	20	21	22
										11	12	13	14	15							
CUSIP Identification	Description	For- eign	Disposal Date	Name of Purchaser	Number of Shares of Stock	Consid- eration	Par Value	Actual Cost	Prior Year Book/ Adjusted Carrying Value	Unrealized Valuation Increase/ (Decrease)	Current Year's (Amor- tization)/ Accretion	Current Year's Other Than Temporary Impairment Recogn- ized	Total Change in Book/ Adjusted Carrying Value (11 + 12 - 13)	Total Foreign Exchange Change in Book /Adjusted Carrying Value	Book/ Adjusted Carrying Value at Disposal Date	Foreign Exchange Gain (Loss) on Disposal	Realized Gain (Loss) on Disposal	Total Gain (Loss) on Disposal	Bond Interest/ Stock Dividends Received During Year	Stated Con- tractual Maturity Date	NAIC Desig- nation, NAIC Desig- nation Modifier and SVO Admini- strative Symbol
31418D-QG-0	FNMA POOL MA4054 2.500% 06/01/40		09/01/2022	Paydown		379,694	379,694	394,585	393,847		(14,153)		(14,153)		379,694				6,266	06/01/2040	1.A
31418D-TJ-1	FNMA POOL MA4152 2.000% 09/01/40		09/01/2022	Paydown		466,193	466,193	482,625	481,862		(15,669)		(15,669)		466,193				6,133	09/01/2040	1.A
31418D-U5-9	FNMA POOL MA4203 2.500% 11/01/40		09/01/2022	Paydown		690,204	690,204	722,617	721,061		(30,857)		(30,857)		690,204				11,679	11/01/2040	1.A
31418D-UA-8	FNMA POOL MA4176 2.000% 10/01/40		09/01/2022	Paydown		562,287	562,287	582,318	581,299		(19,012)		(19,012)		562,287				7,472	10/01/2040	1.A
57604P-5P-5	MASSACHUSETTS ST WTR POLL ABAT Massachusetts Clean Water 5.19 5.192% 08/01/40		08/01/2022	Call 100.0000		655,000	655,000	655,000	655,000						655,000				34,008	08/01/2040	1.A FE
69848A-AA-6	PANHANDLE TX ECON DEV CORP LEA Panhandle Economic Develo 3.98 3.985% 07/15/48		07/15/2022	Redemption 100.0000		47,681	47,681	48,361	48,297		(616)		(616)		47,681				1,900	07/15/2048	1.E FE
0909999999 Subtotal - Bonds - U.S. Special Revenues											(275,298)		(275,298)		13,043,960				283,682	XXX	XXX
00287Y-CT-4	ABBVIE INC SERIES W1 3.250% 10/01/22		07/01/2022	Call 100.0000		2,625,000	2,625,000	2,725,144	2,655,908		(30,908)		(30,908)		2,625,000				63,984	10/01/2022	2.B FE
00912X-AW-4	AIR LEASE CORP SR UNSEC 2.625% 07/01/22		07/01/2022	Maturity		5,000,000	5,000,000	4,977,650	4,997,655		2,345		2,345		5,000,000				131,250	07/01/2022	2.B FE
05377R-CQ-5	AESOP 2017-1A A SEQ 3.070% 09/20/23		09/20/2022	Paydown		5,750,000	5,750,000	5,714,988	5,745,025		4,975		4,975		5,750,000				117,683	09/20/2023	1.A FE
05607U-AA-7	BXGNT 2018-A A SEQ 3.770% 02/02/34		09/02/2022	Paydown		135,552	135,552	135,518	135,528		24		24		135,552				3,404	02/02/2034	1.A FE
07588T-AV-1	BECTON DICKINSON SR UNSEC 6.000% 05/15/39		08/19/2022	TENDER SALE		5,538,550	5,000,000	4,949,200	4,960,628		844		844		4,961,473		577,077	577,077	231,667	05/15/2039	2.B FE
12510H-AB-6	CAPITAL AUTOMOTIVE REIT SERIES 2020-1A CLASS A2 144A 3.030% 02/15/50		09/15/2022	Paydown		11,271	11,271	11,269	11,269		1		1		11,271				228	02/15/2050	1.A FE
12515D-AQ-7	CD 2017-CD4 A3 SEQ 3.248% 05/10/50		07/01/2022	Paydown		1,952,479	1,952,479	1,972,003	1,961,216		(8,737)		(8,737)		1,952,479				36,993	05/10/2050	1.A
12575A-AA-5	CMFT NET LEASE MASTER ISSUER SERIES 2021-1 CLASS A1 144A 2.090% 07/20/51		09/20/2022	Paydown		35,686	35,686	35,682	35,682		4		4		35,686				497	07/20/2051	1.A FE
12595E-AC-9	COMM 2017-COR2 A2 SEQ 3.239% 09/10/50		09/01/2022	Paydown		82,706	82,706	83,530	83,156		(450)		(450)		82,706				1,794	09/10/2050	1.A
12663D-AC-8	CREDIT SUISSE MORTGAGE TRUST SERIES 2022-NOMS CLASS A1 144A 5.169% 06/25/67		09/01/2022	Paydown		207,583	276,871	275,478		1,045			1,045		276,523		(68,940)	(68,940)	1,190	06/25/2067	1.A FE
14041N-FQ-9	COMET 2017-A6 A6 SEQ SB 2.290% 07/15/25		09/15/2022	Paydown		5,000,000	5,000,000	4,998,834	4,999,855		145		145		5,000,000				85,875	07/15/2025	1.A FE
14313F-AE-9	CARMX 2018-3 A4 SEQ 3.270% 03/15/24		09/15/2022	Paydown		1,569,573	1,569,573	1,569,428	1,569,549		24		24		1,569,573				35,537	03/15/2024	1.A FE
14576A-AA-0	CAPITAL AUTOMOTIVE LP SERIES 2020-1A CLASS A1 144A 2.010% 12/15/50		09/15/2022	Paydown		15,000	15,000	14,994	14,995		5		5		15,000				201	12/15/2050	1.A FE
252722-AA-1	DROT 2019-1A A SEQ 2.890% 02/20/32		09/20/2022	Paydown		44,398	44,398	44,519	44,490		(93)		(93)		44,398				853	02/20/2032	1.A FE
252724-AA-7	DROT 2018-1 A SEQ 3.700% 01/21/31		09/20/2022	Paydown		161,945	161,945	161,944	161,944		1		1		161,945				3,994	01/21/2031	1.A FE
276480-AE-0	EASTERN GAS TRAN SERIES 144A 4.800% 11/01/43		08/24/2022	Tax Free Exchange		9,044,343	7,700,000	9,092,045	9,072,323		(27,981)		(27,981)		9,044,343				300,813	11/01/2043	1.G FE
278062-AC-8	EATON CORP CO GUARNT 2.750% 11/02/22		09/15/2022	Call 100.0000		3,300,000	3,300,000	3,289,912	3,298,956		880		880		3,299,836		164	164	78,902	11/02/2022	2.A FE
302155-BG-0	Redemption 100.0000																				
30259M-AA-4	MEXICAN AIR FINANCE IV 2.537% 07/13/25		07/13/2022	Paydown		335,321	335,321	335,321	335,321						335,321				6,380	07/13/2025	1.A Z
34528Q-FU-3	FCITL 2019-1A A SEQ 3.630% 02/18/31		09/15/2022	Paydown		65,753	65,753	65,741	65,747		5		5		65,753				1,605	02/18/2031	1.A FE
34529S-AA-7	FORDF 2017-3 A SEQ 2.480% 09/15/24		09/15/2022	Paydown		3,500,000	3,500,000	3,499,172	3,499,860		140		140		3,500,000				65,100	09/15/2024	1.A FE
377372-AH-0	FORDR 2017-2 A SEQ 2.360% 03/15/29		09/15/2022	Paydown		7,000,000	7,000,000	6,999,227	6,999,758		242		242		7,000,000				123,900	03/15/2029	1.A FE
39121J-AG-5	GLAXOSMITHKLINE CAP INC CO GUARNT 2.800% 03/18/23		09/15/2022	Call 100.0000		2,850,000	2,850,000	2,821,272	2,846,069		2,262		2,262		2,848,331		1,669	1,669	79,135	03/18/2023	1.F FE
39121J-AH-3	GREAT RIVER ENERGY 1ST MORTG 7.233% 07/01/38		07/01/2022	Redemption 100.0000		21,263	21,263	21,263	21,263						21,263				1,538	07/01/2038	1.G FE
406216-BD-2	GREAT RIVER ENERGY 1ST MORTG 4.478% 07/01/30		07/01/2022	Call 100.0000		788,000	788,000	788,000	788,000						788,000				35,287	07/01/2030	1.G FE
421946-AK-0	HALLIBURTON CO SR UNSEC 3.500% 08/01/23		09/25/2022	Call 100.0000		521,000	521,000	519,781	520,777		102		102		520,879		121	121	20,970	08/01/2023	2.A FE
421946-AL-8	HEALTHCARE REALTY TRUST SR UNSEC 3.625% 01/15/28		07/20/2022	Taxable Exchange		1,734,871	1,850,000	1,834,331	1,839,980		825		825		1,840,806		(105,935)	(105,935)	69,844	01/15/2028	2.B FE
421946-AM-6	HEALTHCARE REALTY TRUST 2.400% 03/15/30		07/20/2022	Taxable Exchange		3,579,019	4,250,000	4,235,763	4,238,063		724		724		4,238,787		(659,769)	(659,769)	90,667	03/15/2030	2.B FE
42770L-AA-1	HEALTHCARE REALTY TRUST 2.050% 03/15/31		07/20/2022	Taxable Exchange		4,009,681	5,000,000	4,953,139	4,954,980		2,434		2,434		4,957,414		(947,733)	(947,733)	91,840	03/15/2031	2.B FE
42771A-AA-4	HERO 2015-1A A SEQ 3.840% 09/21/40		09/20/2022	Paydown		128,938	128,938	128,879	128,914		24		24		128,938				2,860	09/21/2040	1.A FE
42771L-AB-8	HERO 2017-3A A1 SEQ 3.190% 09/20/48		09/20/2022	Paydown		164,792	164,792	164,737	164,746		47		47		164,792				3,087	09/20/2048	1.A FE
43283G-AA-0	HERO 2017-2A A1 SEQ 3.280% 09/20/48		09/20/2022	Paydown		95,278	95,278	95,265	95,269		9		9		95,278				1,844	09/20/2048	1.A FE
43284B-AA-0	HILTON GRAND VACATIONS TRUST SERIES 2022-2A CLASS A 144A 4.300% 01/25/37		09/25/2022	Paydown		166,461	166,461	166,431		30			30		166,461				875	01/25/2037	1.A FE
	HGVT 2018-AA A SEQ 3.540% 02/25/32		09/25/2022	Paydown		62,601	62,601	62,581	62,588		13		13		62,601				1,472	02/25/2032	1.A FE

STATEMENT AS OF SEPTEMBER 30, 2022 OF THE TIAA-CREF LIFE INSURANCE COMPANY

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1	2	3	4	5	6	7	8	9	10	Change In Book/Adjusted Carrying Value					16	17	18	19	20	21	22
										11	12	13	14	15							
CUSIP Identification	Description	For- eign	Disposal Date	Name of Purchaser	Number of Shares of Stock	Consid- eration	Par Value	Actual Cost	Prior Year Book/ Adjusted Carrying Value	Unrealized Valuation Increase/ (Decrease)	Current Year's (Amor- tization)/ Accretion	Current Year's Other Than Temporary Impairment Recogn- ized	Total Change in Book/ Adjusted Carrying Value (11 + 12 - 13)	Total Foreign Exchange Change in Book /Adjusted Carrying Value	Book/ Adjusted Carrying Value at Disposal Date	Foreign Exchange Gain (Loss) on Disposal	Realized Gain (Loss) on Disposal	Total Gain (Loss) on Disposal	Bond Interest/ Stock Dividends Received During Year	Stated Con- tractual Maturity Date	NAIC Desig- nation, NAIC Desig- nation Modifier and SVO Admini- strative Symbol
459745-GN-9	INTL LEASE FINANCE CORP SR UNSEC 5.875% 10/15/22		08/15/2022	Redemption 100.0000		7,500,000	7,500,000	7,500,000	7,500,000						7,500,000				440,625	10/15/2022	2.C FE
46649K-AC-9	JP MORGAN MORTGAGE TRUST SERIES 2018-5 CLASS A3 144A 3.500% 10/25/48		09/01/2022	Paydown		76,466	76,466	77,875	76,944		(479)		(479)		76,466				1,741	10/25/2048	1.A
52521R-AS-0	LMT 2007-5 2A3 FLT SSNR AS 3.414% 06/25/37		09/25/2022	Paydown		37	227	14	14		35		35		49		(12)	(12)	1	06/25/2037	1.D FM
553896-AA-9	MVIWOT 2017-1A A SEQ 2.420% 12/20/34		09/20/2022	Paydown		127,019	127,019	126,018	126,377		642		642		127,019				2,044	12/20/2034	1.A FE
55400D-AA-9	MVIWOT SERIES 2019-2A CLASS A 144A 2.220% 10/20/38		09/20/2022	Paydown		388,548	388,548	382,107	383,164		5,385		5,385		388,548				5,767	10/20/2038	1.A FE
57629W-CK-4	MASSMUTUAL GLOBAL FUNDIN SECURED 2.250% 07/01/22		07/01/2022	Maturity		10,000,000	10,000,000	9,997,400	9,999,554		446		446		10,000,000				225,000	07/01/2022	1.B FE
60910*-AA-1	MONARCH SECURITIZATION SERIES 2021-1 CLASS A- 1 3.750% 01/20/32		07/29/2022	Paydown		2,140,658	2,140,658	2,140,658	2,140,658						2,140,658				47,769	01/20/2032	2.B PL
62848B-AA-9	MVIWOT 2018-1A A SEQ 3.450% 01/21/36		09/20/2022	Paydown		181,833	181,833	181,867	181,857		(24)		(24)		181,833				4,166	01/21/2036	1.A FE
63935B-AA-1	NAVIENT STUDENT LOAN TRUST SERIES 2020-HA CLASS A 144A 1.310% 01/15/69		09/15/2022	Paydown		80,731	80,731	80,724	80,725		.6		.6		80,731				706	01/15/2069	1.A FE
63941K-AB-1	NAVIENT STUDENT LOAN TRUST SERIES 2020-CA CLASS A2A 144A 2.150% 11/15/68		09/15/2022	Paydown		313,343	313,343	312,673	312,863		480		480		313,343				4,553	11/15/2068	1.A FE
63941L-AB-9	NAVSL 2019-BA A2A SEQ 3.390% 12/15/59		09/15/2022	Paydown		100,109	100,109	100,104	100,106		.3		.3		100,109				2,263	12/15/2059	1.A FE
665859-AN-4	NORTHERN TRUST CORP SR UNSEC 2.375% 08/02/22		08/02/2022	Maturity		5,000,000	5,000,000	4,518,350	4,963,433		36,567		36,567		5,000,000				118,750	08/02/2022	1.F FE
67181D-AA-9	OAK STREET INVESTMENT GRADE SERIES 2020-1A CLASS A1 144A 1.850% 10/20/50		09/20/2022	Paydown		47,957	47,957	47,697	34,877		260		260		47,957				571	10/20/2050	1.A FE
67181D-AJ-0	OAK STREET INVESTMENT GRADE SERIES 2021-2A CLASS A1 144A 2.380% 11/20/51		09/20/2022	Paydown		21,412	21,412	21,404	21,404		.8		.8		21,412				340	11/20/2051	1.A FE
67190A-AA-4	OAK STREET INVESTMENT GRADE SERIES 2021-1A CLASS A1 144A 1.480% 01/20/51		09/20/2022	Paydown		32,668	32,668	32,662	32,663		.4		.4		32,668				322	01/20/2051	1.A FE
67190A-AB-2	OAK STREET INVESTMENT GRADE SERIES 2021-1A CLASS A2 144A 1.930% 01/20/51		09/20/2022	Paydown		13,067	13,067	13,065	13,065		.2		.2		13,067				168	01/20/2051	1.A FE
68269L-AA-4	ONEMAIN FINANCIAL ISSUANCE TR SERIES 2020-1A CLASS A 144A 3.840% 05/14/32		09/14/2022	Paydown		1,195,359	1,195,359	1,195,268	1,195,287		71		71		1,195,359				30,479	05/14/2032	1.A FE
693650-AL-7	PSMC TRUST SERIES 2021-1 CLASS A11 144A 2.500% 03/25/51		09/01/2022	Paydown		144,205	144,205	147,675	147,216		(3,010)		(3,010)		144,205				2,391	03/25/2051	1.A
69376C-AC-8	PSMC TRUST SERIES 2021-2 CLASS A3 144A 2.500% 05/25/51		09/01/2022	Paydown		338,159	338,159	348,092	346,708		(8,550)		(8,550)		338,159				5,775	05/25/2051	1.A
723787-AK-3	PIONEER NATURAL RESOURCE SR UNSEC 3.950% 07/15/22		07/15/2022	Maturity		2,450,000	2,450,000	2,436,280	2,449,123		877		877		2,450,000				96,775	07/15/2022	2.A FE
75951A-AK-4	REL IANCE STAND LIFE II SECURED 2.625% 07/22/22		07/22/2022	Maturity		4,575,000	4,575,000	4,573,170	4,574,649		351		351		4,575,000				120,094	07/22/2022	1.E FE
75975B-AA-6	RENEW FINANCIAL SERIES 2021-1 CLASS A 144A 2.060% 11/20/56		09/20/2022	Paydown		96,520	96,520	96,505	96,506		.14		.14		96,520				1,057	11/20/2056	1.A FE
78448W-AB-1	SMB 2017-A A2A SEQ 2.880% 09/15/34		09/15/2022	Paydown		146,986	146,986	146,935	146,956		31		.31		146,986				2,823	09/15/2034	1.A FE
78449K-AB-6	SMB 2016-C A2A SEQ 2.340% 09/15/34		09/15/2022	Paydown		247,403	247,403	244,213	246,075		1,328		1,328		247,403				3,854	09/15/2034	1.A FE
78449L-AB-4	SMB 2018-B A2A SEQ 3.600% 01/15/37		09/15/2022	Paydown		370,887	370,887	377,719	375,892		(5,005)		(5,005)		370,887				8,928	01/15/2037	1.A FE
81745A-AB-3	SEQUOIA MORTGAGE TRUST SERIES 2013-5 CLASS A2 144A 3.000% 05/25/43		09/01/2022	Paydown		111,282	111,282	112,987	112,705		(1,423)		(1,423)		111,282				2,228	05/25/2043	1.A
81746N-AK-4	SEMT 2016-3 A10 EXCH AFC SEQ SSNR 3.500% 11/25/46		07/20/2022	Paydown															143	11/25/2046	1.A
81748K-AG-7	SEQUOIA MORTGAGE TRUST SERIES 2020-2 CLASS A4 144A 3.500% 03/25/50		07/01/2022	Paydown		61,509	61,509	62,922	61,622		(113)		(113)		61,509				1,256	03/25/2050	1.A
82652M-AA-8	SRFC 2019-2A A SEQ 2.590% 05/20/36		09/20/2022	Paydown		200,292	200,292	200,238	200,252		40		.40		200,292				3,431	05/20/2036	1.A FE
82652N-AA-6	SRFC SERIES 2019-3A CLASS A 144A 2.340% 07/15/38		09/20/2022	Paydown		98,267	98,267	98,266	98,265		.2		.2		98,267				1,530	07/15/2038	1.A FE
82653D-AA-7	SRFC 2018-2A A SEQ 3.500% 06/20/35		09/20/2022	Paydown		189,856	189,856	188,946	189,211		646		.646		189,856				4,447	06/20/2035	1.A FE

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										11	12	13	14	15								
										Unrealized Valuation Increase/ (Decrease)	Current Year's (Amor- tization)/ Accretion	Current Year's Other Than Temporary Impairment Recogn- ized	Total Change in Book/ Adjusted Carrying Value (11 + 12 - 13)	Total Foreign Exchange Change in Book /Adjusted Carrying Value	Book/ Adjusted Carrying Value at Disposal Date	Foreign Exchange Gain (Loss) on Disposal	Realized Gain (Loss) on Disposal	Total Gain (Loss) on Disposal	Bond Interest/ Stock Dividends Received During Year	Stated Con- tractual Maturity Date	NAIC Desig- nation, NAIC Desig- nation Modifier and SVO Admini- strative Symbol	
82653G-AA-0	SRFC 2018-3A A SEQ 3.690% 09/20/35		09/20/2022	Paydown		82,472	82,472	82,065	82,175		298		298		82,472				2,028	09/20/2035	1.A FE	
83189D-AB-6	SMB 2017-B A2A SEQ 2.820% 10/15/35		09/15/2022	Paydown		69,134	69,134	67,309	68,164		970		970		69,134				1,303	10/15/2035	1.A FE	
83403Y-AB-0	SOFI 2017-B A2FX SEQ 2.740% 05/25/40		09/25/2022	Paydown		162,845	162,845	162,806	162,833		12		12		162,845				2,927	05/25/2040	1.A FE	
83404F-AC-8	SOFI 2017-A A2B SEQ 2.400% 03/26/40		09/25/2022	Paydown		83,124	83,124	82,008	82,812		312		312		83,124				1,326	03/26/2040	1.A FE	
83404K-AC-7	SOFI 2017-E A2B SEQ 2.720% 11/26/40		09/25/2022	Paydown		216,949	216,949	213,302	215,712		1,237		1,237		216,949				3,899	11/26/2040	1.A FE	
83404L-AC-5	SOFI 2016-D A2B SEQ 2.340% 04/25/33		09/25/2022	Paydown		75,391	75,391	74,558	75,053		337		337		75,391				1,168	04/25/2033	1.A FE	
83405D-AC-2	SOFI 2017-C A2B SEQ 2.630% 07/25/40		09/25/2022	Paydown		24,762	24,762	24,756	24,758		4		4		24,762				427	07/25/2040	1.A FE	
83406E-AC-9	SOFI 2018-A A2B SEQ 2.950% 02/25/42		09/25/2022	Paydown		244,289	244,289	241,166	242,886		1,403		1,403		244,289				4,782	02/25/2042	1.A FE	
86190B-AA-2	A1 144A 2.120% 06/20/51		09/20/2022	Paydown		16,675	16,675	16,481	16,484		191		191		16,675				236	06/20/2051	1.A FE	
86190B-AB-0	A2 144A 2.960% 06/20/51		09/20/2022	Paydown		3,750	3,750	3,748	3,748		2		2		3,750				74	06/20/2051	1.A FE	
86358R-XZ-5	SASC 2002-AL1 A3 AS CPT SEQ 3.450% 02/25/32		09/01/2022	Paydown		16,868	17,113	11,490	16,284		5,587	4,838	749		17,033		(165)	(165)	388	02/25/2032	5.A Z	
86359B-2H-3	SASC 2005-2XS 2A1 XRESET FTV FLT DL 2.955% 02/25/35		09/01/2022	Paydown		4,305	4,305	4,305	4,305						4,305				35	02/25/2035	1.A FM	
89239R-AC-0	TOYOTA AUTO RECEIVABLES OWNER SERIES 2020-B CLASS A3 1.360% 08/15/24		09/15/2022	Paydown		271,373	271,373	271,319	271,353		20		20		271,373				2,455	08/15/2024	1.A FE	
89566E-AG-3	TRISTATE GEN&TRANS ASSN 1ST MORTG 3.700% 11/01/24		07/28/2022	Call	100,2480	2,783,887	2,777,000	2,776,019	2,776,697		59		59		2,776,756		244	244	83,092	11/01/2024	1.G FE	
918286-AA-3	VSTNA 2018-A A SEQ 3.560% 02/20/36		09/20/2022	Paydown		357,553	357,553	363,265	361,901		(4,348)		(4,348)		357,553				8,481	02/20/2036	1.A FE	
918288-AA-9	VSTNA 2017-A A SEQ 2.330% 03/20/35		09/20/2022	Paydown		110,593	110,593	110,571	110,580		14		14		110,593				1,714	03/20/2035	1.A FE	
92538F-AA-2	VERUS SECURITIZATION TRUST SERIES 2021-2 CLASS A1 144A 1.031% 02/25/66		09/01/2022	Paydown		479,761	479,761	479,753	479,683		78		78		479,761				3,386	02/25/2066	1.A FE	
92538F-AB-0	VERUS SECURITIZATION TRUST SERIES 2021-2 CLASS A2 144A 1.288% 02/25/66		09/01/2022	Paydown		215,240	215,240	215,236	215,195		45		45		215,240				1,898	02/25/2066	1.C FE	
92539N-AA-4	VERUS SECURITIZATION TRUST SERIES 2022-7 CLASS A1 144A 5.152% 07/25/67		09/01/2022	Paydown		782,040	782,040	782,031		9			9		782,040				4,864	07/25/2067	1.A FE	
928668-AZ-5	VOLKSWAGEN GROUP AMERICA SERIES 144A 2.700% 09/26/22		09/26/2022	Maturity		6,425,000	6,425,000	6,422,623	6,424,403		597		597		6,425,000				173,475	09/26/2022	2.A FE	
95001M-AE-0	WFCM 2017-C38 A4 SEQ 3.190% 07/15/50		09/01/2022	Paydown		360	360	364	362		(1)		(1)		360				8	07/15/2050	1.A	
136069-BA-2	CANADIAN IMPERIAL BANK SR UNSEC 2.606% 07/22/23	A	07/22/2022	Call	100,0000	4,250,000	4,250,000	4,250,000	4,250,000						4,250,000				110,755	07/22/2023	1.F FE	
63307A-2L-8	NATIONAL BANK OF CANADA 4.020% 08/15/23	A	08/15/2022	Call	100,0000	10,450,000	10,450,000	10,443,730	10,459,034		208,689		208,689		10,667,723		(217,723)	(217,723)	94,050	08/15/2023	1.G FE	
75973F-AA-9	RENEW 2018-1 A SEQ 3.950% 09/20/53	D	09/20/2022	Paydown		129,129	129,129	129,080	129,086		43		43		129,129				4,452	09/20/2053	1.A FE	
1109999999. Subtotal - Bonds - Industrial and Miscellaneous (Unaffiliated)						129,002,137	128,958,509	129,732,860	128,655,872		193,133	4,838	188,295		130,416,251		(1,421,002)	(1,421,002)	3,338,489	XXX	XXX	
74432D-AL-6	PRUDENTIAL FINANCIAL INC JR SUBORDINATED 5.875% 09/15/42		09/15/2022	Call	100,0000	8,725,000	8,725,000	8,725,000	8,725,000						8,725,000				512,594	09/15/2042	2.B FE	
1309999999. Subtotal - Bonds - Hybrid Securities						8,725,000	8,725,000	8,725,000	8,725,000						8,725,000				512,594	XXX	XXX	
2509999997. Total - Bonds - Part 4						1,360,318,144	1,359,398,537	1,338,895,308	170,212,520		69,346	4,838	64,508		1,339,363,768		20,947,490	20,947,490	9,385,935	XXX	XXX	
2509999998. Total - Bonds - Part 5						XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
2509999999. Total - Bonds						1,360,318,144	1,359,398,537	1,338,895,308	170,212,520		69,346	4,838	64,508		1,339,363,768		20,947,490	20,947,490	9,385,935	XXX	XXX	
4509999997. Total - Preferred Stocks - Part 4							XXX												XXX	XXX		
4509999998. Total - Preferred Stocks - Part 5						XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	
4509999999. Total - Preferred Stocks							XXX												XXX	XXX		
5989999997. Total - Common Stocks - Part 4							XXX												XXX	XXX		
5989999998. Total - Common Stocks - Part 5						XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	
5989999999. Total - Common Stocks							XXX												XXX	XXX		
5999999999. Total - Preferred and Common Stocks							XXX												XXX	XXX		
6009999999 - Totals						1,360,318,144	XXX	1,338,895,308	170,212,520		69,346	4,838	64,508		1,339,363,768		20,947,490	20,947,490	9,385,935	XXX	XXX	

Schedule DB - Part A - Section 1 - Options, Caps, Floors, Collars, Swaps and Forwards Open
N O N E

Schedule DB - Part B - Section 1 - Futures Contracts Open
N O N E

Schedule DB - Part B - Section 1B - Brokers with whom cash deposits have been made
N O N E

Schedule DB - Part D - Section 1 - Counterparty Exposure for Derivative Instruments Open
N O N E

Schedule DB - Part D-Section 2 - Collateral for Derivative Instruments Open - Pledged By
N O N E

Schedule DB - Part D-Section 2 - Collateral for Derivative Instruments Open - Pledged To
N O N E

Schedule DB - Part E - Derivatives Hedging Variable Annuity Guarantees
N O N E

Schedule DL - Part 1 - Reinvested Collateral Assets Owned
N O N E

Schedule DL - Part 2 - Reinvested Collateral Assets Owned
N O N E

SCHEDULE E - PART 1 - CASH

Month End Depository Balances

1	2	3	4	5	Book Balance at End of Each Month During Current Quarter			9
					6	7	8	
					First Month	Second Month	Third Month	
Depository	Code	Rate of Interest	Amount of Interest Received During Current Quarter	Amount of Interest Accrued at Current Statement Date				*
Citibank, N.A. New Castle, DE					(28,036)	(23,559)	(46,928)	.XXX.
Citibank, N.A. New York, NY					7,427,323	5,382,033	17,061,579	.XXX.
Harris, N.A. Chicago, IL					55,030	35,316	32,579	.XXX.
JPMorgan Chase Bank, N.A. New York, NY					30,000	30,000	30,000	.XXX.
The Northern Trust Company Chicago, IL					55,000	20,000	20,000	.XXX.
Wells Fargo, N.A. Philadelphia, PA					(3,353,998)	(3,097,752)	(3,134,625)	.XXX.
0199998. Deposits in ... depositories that do not exceed the allowable limit in any one depository (See instructions) - Open Depositories	XXX	XXX						XXX
0199999. Totals - Open Depositories	XXX	XXX			4,185,319	2,346,038	13,962,605	XXX
0299998. Deposits in ... depositories that do not exceed the allowable limit in any one depository (See instructions) - Suspended Depositories	XXX	XXX						XXX
0299999. Totals - Suspended Depositories	XXX	XXX						XXX
0399999. Total Cash on Deposit	XXX	XXX			4,185,319	2,346,038	13,962,605	XXX
0499999. Cash in Company's Office	XXX	XXX	XXX	XXX				XXX
0599999. Total - Cash	XXX	XXX			4,185,319	2,346,038	13,962,605	XXX

SCHEDULE E - PART 2 - CASH EQUIVALENTS

[illegible]