

QUARTERLY STATEMENT

OF THE

TIAA-CREF LIFE INSURANCE COMPANY

TO THE

Insurance Department

OF THE

STATE OF

**FOR THE QUARTER ENDED
SEPTEMBER 30, 2019**

☒ **LIFE AND ACCIDENT AND HEALTH**

☐ **FRATERNAL BENEFIT SOCIETIES**

2019



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

QUARTERLY STATEMENT

AS OF SEPTEMBER 30, 2019

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 & 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 Koon Eisenhower, 704-988-4560
(Name) (Area Code) (Telephone Number)
seisenhauer@tiaa.org 704-988-4914
(E-mail Address) (FAX Number)

OFFICERS

President & Chief Executive Officer	<u>William Gunnar Griesser #</u>	Vice President & Chief Financial Officer	<u>Stacy Koon Eisenhower</u>
Secretary	<u>Mary Catherine Benedetto</u>	Senior Vice President & Chief Actuary	<u>Christine Ellen Dugan #</u>

OTHER

<u>Jorge Claudio Gutierrez, Treasurer</u>	<u>Todd Richard Sagmoe #, Vice President, Head of Insurance</u>
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DIRECTORS OR TRUSTEES

<u>Rashmi Dilip Badwe</u>	<u>Christine Ellen Dugan</u>	<u>Bradley (NMN) Finkle</u>
<u>William Gunnar Griesser #</u>	<u>Derek James Heaslip</u>	<u>Eric Thomas Jones</u>
<u>Meredith J. Kornreich</u>	<u>Christopher Antoine Van Buren</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.

<u>William Gunnar Griesser</u> President & Chief Executive Officer	<u>Mary Catherine Benedetto</u> Secretary	<u>Stacy Koon Eisenhower</u> Vice President & Chief Financial Officer
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Subscribed and sworn to before me this 28th day of October, 2019
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 09-21-2021

STATEMENT AS OF SEPTEMBER 30, 2019 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	8,424,061,159		8,424,061,159	7,913,171,630
2. Stocks:				
2.1 Preferred stocks	182,882		182,882	182,882
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 (\$2,501,655), cash equivalents (\$178,997,601) and short-term investments (\$)	181,499,256		181,499,256	171,753,266
6. Contract loans (including \$ premium notes)	39,591,485		39,591,485	33,771,364
7. Derivatives				
8. Other invested assets	4,692,692		4,692,692	4,707,025
9. Receivables for securities				
10. Securities lending reinvested collateral assets				
11. Aggregate write-ins for invested assets				
12. Subtotals, cash and invested assets (Lines 1 to 11)	8,650,027,474		8,650,027,474	8,123,586,167
13. Title plants less \$ charged off (for Title insurers only)				
14. Investment income due and accrued	75,502,640		75,502,640	69,960,076
15. Premiums and considerations:				
15.1 Uncollected premiums and agents' balances in the course of collection	1,608,211		1,608,211	1,844,212
15.2 Deferred premiums, agents' balances and installments booked but deferred and not yet due (including \$ earned but unbilled premiums)	57,309,718	37,239,791	20,069,927	17,948,456
15.3 Accrued retrospective premiums (\$) and contracts subject to redetermination (\$)				
16. Reinsurance:				
16.1 Amounts recoverable from reinsurers				2,123,513
16.2 Funds held by or deposited with reinsured companies				
16.3 Other amounts receivable under reinsurance contracts	8,184,677		8,184,677	12,103,495
17. Amounts receivable relating to uninsured plans				
18.1 Current federal and foreign income tax recoverable and interest thereon	2,436,033		2,436,033	2,184,230
18.2 Net deferred tax asset	50,796,152	33,775,342	17,020,810	16,772,754
19. Guaranty funds receivable or on deposit	199,155		199,155	195,779
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				
24. Health care (\$) and other amounts receivable				
25. Aggregate write-ins for other than invested assets	13,961,533	2,399	13,959,134	4,007,721
26. Total assets excluding Separate Accounts, Segregated Accounts and Protected Cell Accounts (Lines 12 to 25)	8,860,025,593	71,017,532	8,789,008,061	8,250,726,403
27. From Separate Accounts, Segregated Accounts and Protected Cell Accounts	3,949,510,553		3,949,510,553	5,016,425,361
28. Total (Lines 26 and 27)	12,809,536,146	71,017,532	12,738,518,614	13,267,151,764
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	13,961,533	2,399	13,959,134	4,007,721
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)	13,961,533	2,399	13,959,134	4,007,721

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

LIABILITIES, SURPLUS AND OTHER FUNDS

	1 Current Statement Date	2 December 31 Prior Year
1. Aggregate reserve for life contracts \$3,667,793,856 less \$ included in Line 6.3 (including \$256,622,493 Modco Reserve)	3,667,793,856	3,532,202,828
2. Aggregate reserve for accident and health contracts (including \$ Modco Reserve)		
3. Liability for deposit-type contracts (including \$ Modco Reserve)	4,441,514,856	4,104,701,197
4. Contract claims:		
4.1 Life	7,869,007	14,860,452
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	186,085	132,909
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 \$12,181,275 ceded	12,181,275	16,070,718
9.4 Interest Maintenance Reserve	13,561,107	11,168,896
10. Commissions to agents due or accrued-life and annuity contracts \$824,793 , accident and health \$ and deposit-type contract funds \$	824,793	847,799
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 \$(6,039,024) accrued for expense allowances recognized in reserves, net of reinsured allowances)	(6,141,175)	(8,176,203)
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)		
15.2 Net deferred tax liability		
16. Unearned investment income		
17. Amounts withheld or retained by reporting entity as agent or trustee	1,104,695	476,826
18. Amounts held for agents' account, including \$ agents' credit balances		
19. Remittances and items not allocated	16,880,833	17,986,278
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 \$ and interest thereon \$		
23. Dividends to stockholders declared and unpaid		
24. Miscellaneous liabilities:		
24.01 Asset valuation reserve	48,731,212	52,486,440
24.02 Reinsurance in unauthorized and certified (\$) companies	793,124	3,292,423
24.03 Funds held under reinsurance treaties with unauthorized and certified (\$) reinsurers		
24.04 Payable to parent, subsidiaries and affiliates	16,456,765	18,528,183
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	73,705,269	
24.10 Payable for securities lending		
24.11 Capital notes \$ and interest thereon \$		
25. Aggregate write-ins for liabilities	133,378	141,904
26. Total liabilities excluding Separate Accounts business (Lines 1 to 25)	8,295,595,080	7,764,720,650
27. From Separate Accounts Statement	3,937,184,631	5,001,547,187
28. Total liabilities (Lines 26 and 27)	12,232,779,711	12,766,267,837
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	557,500,000	557,500,000
34. Aggregate write-ins for special surplus funds		
35. Unassigned funds (surplus)	(54,261,097)	(59,116,073)
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 \$12,325,922 in Separate Accounts Statement)	503,238,903	498,383,927
38. Totals of Lines 29, 30 and 37	505,738,903	500,883,927
39. Totals of Lines 28 and 38 (Page 2, Line 28, Col. 3)	12,738,518,614	13,267,151,764
DETAILS OF WRITE-INS		
2501. Miscellaneous liabilities	133,378	141,904
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)	133,378	141,904
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)		

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	447,282,648	509,605,116	689,020,513
2. Considerations for supplementary contracts with life contingencies	1,694,625	909,035	1,216,172
3. Net investment income	226,750,728	199,171,176	268,870,648
4. Amortization of Interest Maintenance Reserve (IMR)	830,150	1,515,380	1,138,956
5. Separate Accounts net gain from operations excluding unrealized gains or losses	(259,325)	844,714	1,507,262
6. Commissions and expense allowances on reinsurance ceded	12,339,723	13,740,845	18,776,632
7. Reserve adjustments on reinsurance ceded	7,590,674	10,942,769	16,144,117
8. Miscellaneous Income:			
8.1 Income from fees associated with investment management, administration and contract guarantees from Separate Accounts	18,471,113	18,548,915	24,806,878
8.2 Charges and fees for deposit-type contracts			
8.3 Aggregate write-ins for miscellaneous income	279,613	233,876	299,226
9. Totals (Lines 1 to 8.3)	714,979,949	755,511,826	1,021,780,404
10. Death benefits	14,419,857	20,217,715	27,126,489
11. Matured endowments (excluding guaranteed annual pure endowments)			
12. Annuity benefits	58,646,672	44,141,257	64,418,394
13. Disability benefits and benefits under accident and health contracts	287,918	122,010	217,489
14. Coupons, guaranteed annual pure endowments and similar benefits			
15. Surrender benefits and withdrawals for life contracts	173,866,858	144,570,060	198,554,250
16. Group conversions			
17. Interest and adjustments on contract or deposit-type contract funds	61,571,224	47,489,698	65,249,977
18. Payments on supplementary contracts with life contingencies	325,902	243,369	334,334
19. Increase in aggregate reserves for life and accident and health contracts	135,591,028	176,320,987	244,206,762
20. Totals (Lines 10 to 19)	444,709,459	433,105,096	600,107,695
21. Commissions on premiums, annuity considerations, and deposit-type contract funds (direct business only)	15,120,773	17,733,021	24,436,689
22. Commissions and expense allowances on reinsurance assumed			
23. General insurance expenses and fraternal expenses	99,448,516	96,725,116	135,511,030
24. Insurance taxes, licenses and fees, excluding federal income taxes	13,012,464	10,112,376	12,852,988
25. Increase in loading on deferred and uncollected premiums	(323,809)	(740,408)	(2,198,557)
26. Net transfers to or (from) Separate Accounts net of reinsurance	93,066,073	164,912,198	214,333,925
27. Aggregate write-ins for deductions	37,665,814	29,863,151	49,823,302
28. Totals (Lines 20 to 27)	702,699,290	751,710,550	1,034,867,072
29. Net gain from operations before dividends to policyholders and federal income taxes (Line 9 minus Line 28)	12,280,659	3,801,276	(13,086,668)
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)	12,280,659	3,801,276	(13,086,668)
32. Federal and foreign income taxes incurred (excluding tax on capital gains)	2,950,252	3,502,472	2,364,386
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)	9,330,407	298,804	(15,451,054)
34. Net realized capital gains (losses) (excluding gains (losses) transferred to the IMR) less capital gains tax of \$431,561 (excluding taxes of \$856,577	(8,803,635)	1,527,761	818,647
35. Net income (Line 33 plus Line 34)	526,772	1,826,565	(14,632,407)
CAPITAL AND SURPLUS ACCOUNT			
36. Capital and surplus, December 31, prior year	500,883,927	411,540,841	411,540,841
37. Net income (Line 35)	526,772	1,826,565	(14,632,407)
38. Change in net unrealized capital gains (losses) less capital gains tax of \$		(201,711)	(201,711)
39. Change in net unrealized foreign exchange capital gain (loss)			
40. Change in net deferred income tax	2,865,266	1,383,314	4,947,032
41. Change in nonadmitted assets	(2,498,663)	(1,112,932)	(5,498,022)
42. Change in liability for reinsurance in unauthorized and certified companies	2,499,299	9,940,966	10,648,295
43. Change in reserve on account of change in valuation basis, (increase) or decrease			
44. Change in asset valuation reserve	3,755,228	(4,059,783)	(5,570,831)
45. Change in treasury stock			
46. Surplus (contributed to) withdrawn from Separate Accounts during period			
47. Other changes in surplus in Separate Accounts Statement	(2,292,926)	(547,177)	(349,270)
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			100,000,000
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			
53. Aggregate write-ins for gains and losses in surplus			
54. Net change in capital and surplus for the year (Lines 37 through 53)	4,854,976	7,229,242	89,343,086
55. Capital and surplus, as of statement date (Lines 36 + 54)	505,738,903	418,770,083	500,883,927
DETAILS OF WRITE-INS			
08.301. Miscellaneous income	279,613	233,876	299,226
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)	279,613	233,876	299,226
2701. Miscellaneous deductions	37,665,814	29,863,151	49,823,302
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)	37,665,814	29,863,151	49,823,302
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, 2019 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	443,673,134	504,013,445	687,299,989
2. Net investment income	220,393,969	193,321,359	261,013,313
3. Miscellaneous income	35,007,667	37,588,017	43,853,735
4. Total (Lines 1 to 3)	699,074,770	734,922,821	992,167,037
5. Benefit and loss related payments	282,996,439	210,593,819	304,038,865
6. Net transfers to Separate Accounts, Segregated Accounts and Protected Cell Accounts	95,489,651	165,188,332	217,882,641
7. Commissions, expenses paid and aggregate write-ins for deductions	127,622,012	124,402,357	173,344,086
8. Dividends paid to policyholders			
9. Federal and foreign income taxes paid (recovered) net of \$ (445,386) tax on capital gains (losses)	4,490,193	3,500,000	5,621,227
10. Total (Lines 5 through 9)	510,598,295	503,684,508	700,886,819
11. Net cash from operations (Line 4 minus Line 10)	188,476,475	231,238,313	291,280,218
Cash from Investments			
12. Proceeds from investments sold, matured or repaid:			
12.1 Bonds	618,350,911	538,158,197	638,931,802
12.2 Stocks			
12.3 Mortgage loans			
12.4 Real estate			
12.5 Other invested assets		1,000,000	1,000,000
12.6 Net gains or (losses) on cash, cash equivalents and short-term investments	(288)	298	312
12.7 Miscellaneous proceeds	73,705,269	17,908,617	399,177
12.8 Total investment proceeds (Lines 12.1 to 12.7)	692,055,892	557,067,112	640,331,291
13. Cost of investments acquired (long-term only):			
13.1 Bonds	1,132,704,760	1,079,920,582	1,312,892,917
13.2 Stocks			
13.3 Mortgage loans			
13.4 Real estate			
13.5 Other invested assets			
13.6 Miscellaneous applications		19,141,149	
13.7 Total investments acquired (Lines 13.1 to 13.6)	1,132,704,760	1,099,061,731	1,312,892,917
14. Net increase (or decrease) in contract loans and premium notes	5,820,121	1,545,295	6,755,154
15. Net cash from investments (Line 12.8 minus Line 13.7 and Line 14)	(446,468,989)	(543,539,914)	(679,316,780)
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			100,000,000
16.3 Borrowed funds			
16.4 Net deposits on deposit-type contracts and other insurance liabilities	275,804,351	248,482,793	339,319,287
16.5 Dividends to stockholders			
16.6 Other cash provided (applied)	(8,065,847)	238,988	17,824,956
17. Net cash from financing and miscellaneous sources (Line 16.1 through Line 16.4 minus Line 16.5 plus Line 16.6)	267,738,504	248,721,781	457,144,243
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) ..	9,745,990	(63,579,820)	69,107,681
19. Cash, cash equivalents and short-term investments:			
19.1 Beginning of year	171,753,266	102,645,585	102,645,585
19.2 End of period (Line 18 plus Line 19.1)	181,499,256	39,065,765	171,753,266

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

20.0001. Security exchanges	96,958,270	113,132,642	168,869,013
20.0002. Capitalized interest on bonds	1,820,130	1,223,449	1,738,512
20.0003. Interest credited on deposit type contracts	61,639,740	48,031,547	65,561,471

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	261,517,217	265,468,977	356,547,323
3. Ordinary individual annuities	209,196,402	255,642,037	345,967,973
4. Credit life (group and individual)			
5. Group life insurance	50,390,442	61,024,622	88,203,943
6. Group annuities			
7. A & H - group			
8. A & H - credit (group and individual)			
9. A & H - other	5,177,969	5,143,543	6,963,715
10. Aggregate of all other lines of business			
11. Subtotal (Lines 1 through 10)	526,282,030	587,279,179	797,682,954
12. Fraternal (Fraternal Benefit Societies Only)			
13. Subtotal (Lines 11 through 12)	526,282,030	587,279,179	797,682,954
14. Deposit-type contracts	1,050,914,243	931,248,236	1,280,902,245
15. Total (Lines 13 and 14)	1,577,196,273	1,518,527,415	2,078,585,199
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 (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	09/30/2019	12/31/2018
Net Income, New York SAP				\$ 526,772	\$ (14,632,407)
New York SAP Prescribed Practices that are an increase/(decrease) from NAIC SAP:					
Additional Reserves for Term Conversions	51R	4	19	(1,069,103)	(1,140,346)
Net Income, NAIC SAP				\$ 1,595,875	\$ (13,492,061)
Capital and Surplus, New York SAP				\$ 505,738,903	\$ 500,883,927
New York SAP Prescribed Practices that are an increase/(decrease) from NAIC SAP:					
Deferred Premium Asset Limitation	51R, 61R	2	15.2	(342,514)	(62,610)
Book Value Separate Account Assets.....	56	2	27	(9,548,618)	33,872,947
Book Value Separate Account Liabilities.....	56	3	27	11,240,347	(28,900,152)
Additional Reserves for Term Conversions	51R	3	1	(6,802,988)	(5,733,885)
Capital and Surplus, NAIC SAP				\$ 511,192,676	\$ 501,707,627

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

The Stable Value Separate Account ("SVSA") products are accounted for at book value in accordance with New York Insurance Law (“NYIL”) Section 1414. The separate account liabilities for the benefits guaranteed under the contracts are carried at contract book value in accordance with NYIL section 4217, DFS Regulation No. 151.

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 Company’s risk based capital as of September 30, 2019 and December 31, 2018 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

Not applicable

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

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, 2019, 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, 2019.

NOTES TO FINANCIAL STATEMENTS

(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	\$	280,073
		2.	12 Months or Longer	\$	1,066,630
b.	The aggregate related fair value of securities with unrealized losses:	1.	Less than 12 Months	\$	44,383,316
		2.	12 Months or Longer	\$	142,846,042

(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. Structured Notes

Not applicable

P. 5GI Securities

Not applicable

Q. Short Sales

Not applicable

NOTES TO FINANCIAL STATEMENTS

R. Prepayment Penalty and Acceleration Fees

No material change

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 change

10. Information Concerning Parent, Subsidiaries and Affiliates

No material change

11. Debt

Not applicable

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

Not applicable

13. Capital and Surplus, Shareholders’ Dividend Restrictions and Quasi-Reorganization

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

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

A. Transfers of Receivables Reported as Sales

Not applicable

B. Transfer and Servicing of Financial Assets

Not applicable

C. Wash Sales

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

NOTES TO FINANCIAL STATEMENTS

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.

(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, 2019:

	Level 1	Level 2	Level 3	Net Asset Value (NAV)	Total
Assets at fair value:					
Separate account assets	\$ 3,345,001,622	\$ 34,221,213	\$ —	\$ —	\$ 3,379,222,835
Total assets at fair value	\$ 3,345,001,622	\$ 34,221,213	\$ —	\$ —	\$ 3,379,222,835
Total liabilities at fair value	\$ —	\$ —	\$ —	\$ —	\$ —

NOTES TO FINANCIAL STATEMENTS

Transfers between Level 1 and Level 2

Periodically, the Company has transfers between Level 1 and Level 2 due to the availability of quoted prices for identical assets in active markets at the measurement date. The Company's policy is to recognize transfers between levels as of the actual date of the event or change in circumstances that caused the transfer.

As of September 30, 2019, the Company had no transfers between Level 1 and Level 2 of the fair value hierarchy.

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

At September 30, 2019 and December 31, 2018, 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, 2019. 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.

Other invested assets in level 2 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 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.

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, except for deposit-type contracts, 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.

NOTES TO FINANCIAL STATEMENTS

C. Aggregate fair value for all financial instruments:

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

Assets:	Aggregate Fair Value	Admitted Assets	Level 1	Level 2	Level 3	Net Asset Value (NAV)	Not Practicable (Carrying Value)
Bonds	\$ 9,072,707,626	\$ 8,424,061,159	\$ —	\$ 9,056,204,290	\$ 16,503,336	\$ —	\$ —
Preferred stock	5,373,603	182,882	5,373,603	—	—	—	—
Other invested assets	5,918,061	4,692,692	—	5,918,061	—	—	—
Separate account assets	3,959,059,171	3,949,510,553	3,348,307,143	610,752,028	—	—	—
Contract loans	39,591,485	39,591,485	—	—	39,591,485	—	—
Cash, cash equivalents & short term investments	181,499,279	181,499,256	2,501,655	178,997,624	—	—	—
Total	<u>\$13,264,149,225</u>	<u>\$12,599,538,027</u>	<u>\$3,356,182,401</u>	<u>\$ 9,851,872,003</u>	<u>\$ 56,094,821</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	\$ 4,441,514,856	\$ 4,441,514,856	\$ —	\$ —	\$4,441,514,856	\$ —	\$ —
Separate account liabilities...	3,937,184,631	3,937,184,631	—	—	3,937,184,631	—	—
Total	<u>\$ 8,378,699,487</u>	<u>\$ 8,378,699,487</u>	<u>\$ —</u>	<u>\$ —</u>	<u>\$8,378,699,487</u>	<u>\$ —</u>	<u>\$ —</u>

(D) Not applicable.

(E) Not applicable.

21. Other Items

A. Unusual or Infrequent Items

TC Life will no longer manufacture life insurance products for new customers after December 31, 2019. TC Life will continue to offer an existing universal life policy as a permanent life insurance conversion option for owners of TC Life term life insurance policies with conversion privileges. TC Life will continue to service all existing contracts on life insurance products. This change resulted in additional general insurance expenses and a corresponding payable to parent, which are not material individually or in the aggregate to TC Life's financial statements as of September 30, 2019.

B-H No material change

22. Events Subsequent

Type I - Recognized subsequent events:

Subsequent events have been considered through November 7, 2019 for the statutory statement issued on November 7, 2019.

No type I subsequent events were noted.

Type II - Non-recognized subsequent events:

Subsequent events have been considered through November 7, 2019 for the statutory statement issued on November 7, 2019.

On October 2, 2019, a decision was made to terminate the contract backed by the Stable Value Separate Account-3. The market value of the account will be distributed, and the liabilities will be settled with an expected account closing date in January 2020.

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

NOTES TO FINANCIAL STATEMENTS

26. Intercompany Pooling Arrangements

Not applicable

27. Structured Settlements

Not applicable

28. Health Care Receivables

Not applicable

29. Participating Policies

Not applicable

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 Liabilities by Withdrawal Characteristics

No material change

33. Premiums and Annuity Considerations Deferred and Uncollected

No material change

34. Separate Accounts

The contracts backed by the Stable Value Separate Account-1 were terminated effective September 17, 2019. The market value of the account was distributed, and the liabilities were settled. The account was subsequently closed as of October 8, 2019.

35. Loss/Claims Adjustment Expense

No material change

STATEMENT AS OF SEPTEMBER 30, 2019 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?

If yes, complete and file the merger history data file with the NAIC for the annual filing corresponding to this period.

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.

12/31/2013
- 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.

12/31/2013
- 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).

06/10/2015
- 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	2	3	4	5	6
Affiliate Name	Location (City, State)	FRB	OCC	FDIC	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 Overseers	New York, New York	YES			
TIAA-CREF Individual & Institutional Services, LLC	New York, New York				YES
Teachers Personal Investors Services, Inc.	New York, New York				YES
Nuveen Securities, LLC	Chicago, Illinois				YES

STATEMENT AS OF SEPTEMBER 30, 2019 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 [X] 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 [X]
- 9.21

If the response to 9.2 is Yes, provide information related to amendment(s).
- 9.3

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

Yes [] No [X]
- 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 [X]
- 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 [X] No []
- 11.2

If yes, give full and complete information relating thereto:
State Deposits: \$8,127,880.
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 [X]
- 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 [X]
- 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 [X] No []
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, 2019 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
JP Morgan Chase Bank, N.A.	270 Park 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 assets?.....

Yes [] No []
- 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 assets?.....

Yes [] No []

- 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	2	3	4	5
Central Registration Depository Number	Name of Firm or Individual	Legal Entity Identifier (LEI)	Registered With	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]
- 8.2

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

[illegible]

STATEMENT AS OF SEPTEMBER 30, 2019 OF THE TIAA-CREF LIFE INSURANCE COMPANY

SCHEDULE T - PREMIUMS AND ANNUITY CONSIDERATIONS

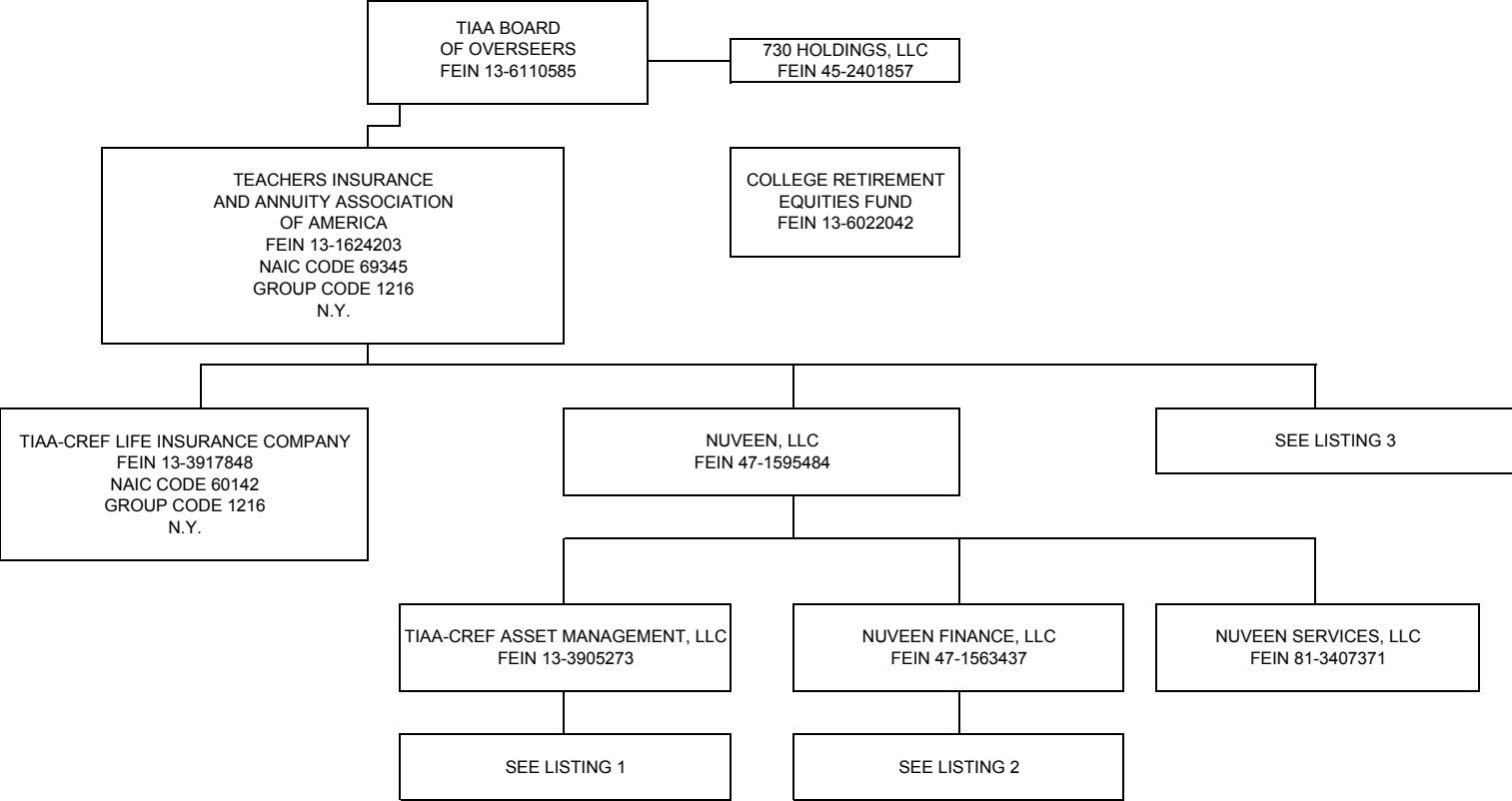
Current Year To Date - Allocated by States and Territories

States, Etc.			1	Direct Business Only					
				Life Contracts		4	5	6	7
				2	3				
			Active Status (a)	Life Insurance Premiums	Annuity Considerations	Accident and Health Insurance Premiums, Including Policy, Membership and Other Fees	Other Considerations	Total Columns 2 Through 5	Deposit-Type Contracts
1.	Alabama	AL	L	4,277,339	2,516,619	106,552		6,900,510	850,293
2.	Alaska	AK	L	1,505,914	181,000			1,686,914	
3.	Arizona	AZ	L	5,559,665	4,797,744	84,877		10,442,286	633,949
4.	Arkansas	AR	L	859,380	540,766	11,789		1,411,935	123,664
5.	California	CA	L	27,876,871	17,386,194	164,066		45,427,132	343,702,236
6.	Colorado	CO	L	4,741,197	5,617,123			10,358,320	242,819
7.	Connecticut	CT	L	5,553,321	1,906,614	126,259		7,586,194	138,862,430
8.	Delaware	DE	L	3,690,141	474,864	36,715		4,201,720	
9.	District of Columbia	DC	L	2,435,617	422,042	75,296		2,932,955	
10.	Florida	FL	L	17,093,638	25,056,478	706,452		42,856,569	2,739,953
11.	Georgia	GA	L	6,952,484	2,836,552	137,168		9,926,204	110,575,241
12.	Hawaii	HI	L	559,263	3,707,796	5,078		4,272,137	118,360
13.	Idaho	ID	L	457,638	312,334	27,042		797,013	
14.	Illinois	IL	L	17,355,075	5,825,578	115,044		23,295,697	2,598,259
15.	Indiana	IN	L	4,153,850	2,901,540	82,796		7,138,186	3,799,124
16.	Iowa	IA	L	4,221,654	3,160,870	54,560		7,437,084	151,134
17.	Kansas	KS	L	1,355,493	1,025,228	19,332		2,400,053	172,630
18.	Kentucky	KY	L	2,145,753	580,543	5,208		2,731,504	23,686,517
19.	Louisiana	LA	L	2,453,620	761,644			3,215,265	
20.	Maine	ME	L	1,377,607	2,816,974	19,562		4,214,143	
21.	Maryland	MD	L	7,013,894	5,684,490	222,288		12,920,672	1,209,828
22.	Massachusetts	MA	L	13,288,646	17,493,463	343,990		31,126,099	2,788,949
23.	Michigan	MI	L	7,120,144	5,477,274	214,605		12,812,022	226,392,175
24.	Minnesota	MN	L	4,850,450	1,489,435	42,150		6,382,035	66,820,136
25.	Mississippi	MS	L	371,404	10,000			381,404	9,239,462
26.	Missouri	MO	L	4,767,246	2,858,525	92,149		7,717,919	
27.	Montana	MT	L	514,275	535,264			1,049,539	
28.	Nebraska	NE	L	4,163,106	804,558	22,134		4,989,798	
29.	Nevada	NV	L	1,014,542	2,011,468	30,388		3,056,399	
30.	New Hampshire	NH	L	1,015,902	98,608			1,114,510	387,619
31.	New Jersey	NJ	L	13,488,327	10,153,568	170,753		23,812,648	940,336
32.	New Mexico	NM	L	662,009	654,118			1,316,127	
33.	New York	NY	L	47,259,000	26,784,907	869,743		74,913,650	5,610,553
34.	North Carolina	NC	L	7,069,437	5,312,488	95,871		12,477,797	860,304
35.	North Dakota	ND	L	251,017	168,182			419,198	
36.	Ohio	OH	L	6,827,739	2,110,871	148,229		9,086,839	653,440
37.	Oklahoma	OK	L	1,538,622	1,137,281	45,274		2,721,177	40,604,403
38.	Oregon	OR	L	4,351,449	561,698	80,346		4,993,493	357,882
39.	Pennsylvania	PA	L	19,316,085	9,316,574	393,297		29,025,957	3,099,317
40.	Rhode Island	RI	L	1,030,616	533,216	36,644		1,600,477	
41.	South Carolina	SC	L	1,329,384	2,156,739	60,471		3,546,594	728,606
42.	South Dakota	SD	L	1,432,290	5,300			1,437,590	
43.	Tennessee	TN	L	5,989,522	6,215,621	45,633		12,250,776	266,492
44.	Texas	TX	L	12,090,176	6,478,269	65,111		18,633,557	175,693
45.	Utah	UT	L	2,644,024	1,800,385	4,188		4,448,597	1,343,151
46.	Vermont	VT	L	1,919,366	1,885,424	31,857		3,836,647	8,742,601
47.	Virginia	VA	L	11,352,807	4,219,133	138,854		15,710,794	747,466
48.	Washington	WA	L	7,163,902	3,902,362	92,218		11,158,481	487,102
49.	West Virginia	WV	L	1,349,933	4,898,888	55,502		6,304,323	
50.	Wisconsin	WI	L	3,272,493	928,037	93,493		4,294,022	51,202,122
51.	Wyoming	WY	L	1,076,633	681,752	4,985		1,763,369	
52.	American Samoa	AS	N						
53.	Guam	GU	N						
54.	Puerto Rico	PR	N	17,312				17,312	
55.	U.S. Virgin Islands	VI	N	249				249	
56.	Northern Mariana Islands	MP	N						
57.	Canada	CAN	N						
58.	Aggregate Other Aliens	OT	XXX	14,540				14,540	
59.	Subtotal	XXX		310,192,062	209,196,402	5,177,969		524,566,433	1,050,914,243
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		287,918				287,918	
94.	Aggregate or other amounts not allocable by State	XXX							
95.	Totals (Direct Business)	XXX		310,479,980	209,196,402	5,177,969		524,854,351	1,050,914,243
96.	Plus Reinsurance Assumed	XXX							
97.	Totals (All Business)	XXX		310,479,980	209,196,402	5,177,969		524,854,351	1,050,914,243
98.	Less Reinsurance Ceded	XXX		73,821,413		5,177,969		78,999,382	
99.	Totals (All Business) less Reinsurance Ceded	XXX		236,658,567	209,196,402			445,854,969	1,050,914,243
DETAILS OF WRITE-INS									
58001.	ZZZ Other Alien	XXX		14,540				14,540	
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		14,540				14,540	
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 R - Registered - Non-domiciled RRGs.....
E - Eligible - Reporting entities eligible or approved to write surplus lines in the state..... Q - Qualified - Qualified or accredited reinsurer.
N - None of the above - Not allowed to write business in the state.....6

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.

STATEMENT AS OF SEPTEMBER 30, 2019 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, 2019 OF THE TIAA-CREF LIFE INSURANCE COMPANY
SCHEDULE Y - INFORMATION CONCERNING ACTIVITIES OF INSURER MEMBERS OF A HOLDING COMPANY GROUP
PART 1 - ORGANIZATIONAL CHART

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 Services LLC	36-4853278	SUBSIDIARY (1)
TGAM Agribusiness Fund GP LLC	81-1870569	SUBSIDIARY
Nuveen Agribusiness Fund III GP, LLC		SUBSIDIARY
AGR Services LLC	36-4853278	SUBSIDIARY (1)
Beaver Investments Holdings, LLC	45-5558395	SUBSIDIARY
GreenWood Resources, Inc.	80-0026976	SUBSIDIARY
Greenwood Resources Brasil, Ltda.		SUBSIDIARY (2)
GreenWood Resources Capital Management, LLC	38-4851864	SUBSIDIARY
GTFF GP, LLC	20-8501127	SUBSIDIARY
GWR-GTFF Investment, LLC	20-8955976	SUBSIDIARY
GWR International Ltd.		SUBSIDIARY
GWR China Ltd.	20-3188681	SUBSIDIARY
GreenWood Resources China Ltd.	98-0595429	SUBSIDIARY
GWR SA, Ltd.		SUBSIDIARY
GreenWood Resources Chile, S.A.		SUBSIDIARY
GWR Europe Ltd.	98-1016332	SUBSIDIARY
GreenWood Resources Poland sp z.o.o.	98-1016335	SUBSIDIARY
Greenwood Resources Forest Management, LLC	47-4557075	SUBSIDIARY
Greenwood Resources Brasil, Ltda.		SUBSIDIARY (2)
GWR Uruguay S.A.		SUBSIDIARY
Greenwood Resources Colombia SAS		SUBSIDIARY
CAM HR Resources LLC	36-4851864	SUBSIDIARY (3)
Churchill Asset Management LLC	47-3156644	SUBSIDIARY
Churchill Agency Services LLC	82-3187734	SUBSIDIARY
Churchill Feeder Fund GP II S.a.r.l.		SUBSIDIARY
Churchill Fund GP II LLC	83-1177860	SUBSIDIARY
Churchill Fund GP II Sarl	98-1449979	SUBSIDIARY
Churchill Special Member LLC	82-0735838	SUBSIDIARY
Churchill Warehouse LLC	82-3784145	SUBSIDIARY
Nuveen Churchill Administration LLC		SUBSIDIARY
TGAM Churchill Fund GP LLC	81-1817732	SUBSIDIARY
Global Ag AIV (CN) GP LLC	45-5044435	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
Nuveen Alternatives Advisors, LLC	45-4288013	SUBSIDIARY
TPS Investors GP, LLC		SUBSIDIARY

COMPANY	FEIN	RELATIONSHIP
Nuveen Alternative Holdings, LLC (continued)		
Nuveen Alternatives Services, LLC	45-4288091	SUBSIDIARY
TIAA NZ GP Limited		SUBSIDIARY
TIAA European Farmland Fund GP LP	98-1310748	SUBSIDIARY (4)
TCAS Global Investments LLC	47-1515836	SUBSIDIARY
Nuveen Global Farmland Fund GP, LLC		SUBSIDIARY
Nuveen Global Farmland Fund Lux GP S.à r.l.		SUBSIDIARY
Nuveen International Holdings LLC	26-2719001	SUBSIDIARY
Nuveen Australia Pty Ltd		SUBSIDIARY
Nuveen Canada Company		SUBSIDIARY
Nuveen Investments Canada Co.		SUBSIDIARY
Nuveen Japan Co., Limited		SUBSIDIARY
Nuveen UK, Limited		SUBSIDIARY
TGAM Subsidiary HC LLC	81-4359164	SUBSIDIARY (5)
TGAM APAC LLC	81-4290269	SUBSIDIARY
TGAM HK HC LLC	81-4323796	SUBSIDIARY (6)
Nuveen 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 Asia LLC	81-4306975	SUBSIDIARY (7)
TIAA International APAC LLC	81-4499397	SUBSIDIARY (8)
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.à r.l.		SUBSIDIARY
Nuveen Real Estate NYC Property Fund GP Member LLC	82-4266474	SUBSIDIARY
New York City Property Fund GP LLC	82-4212348	SUBSIDIARY
New York City Property Fund (T) LP	83-2335230	SUBSIDIARY
NYC Property Fund (T) Blocker 1, LLC	83-4678924	SUBSIDIARY
New York City Property Fund LP	82-4183425	SUBSIDIARY
NYC Property Fund Pooling LP	83-4671194	SUBSIDIARY
NYC Property Fund SPV 1 LLC	83-4653622	SUBSIDIARY
NYC Property Fund SPV 2 LLC	83-4701919	SUBSIDIARY
Nuveen Real Estate U.S. Strategic Industrial Fund I GP, LLC	81-2388576	SUBSIDIARY
TCGA BT AIV, LLC	46-5367344	SUBSIDIARY
TCGA Investor Fund GP, LLC	45-5139523	SUBSIDIARY
TCGA II Investor Fund GP, LLC	47-3511076	SUBSIDIARY
TGAM International GP LLC	81-4330570	SUBSIDIARY

COMPANY	FEIN	RELATIONSHIP
Nuveen Alternative Holdings, LLC (continued)		
Nuveen Real Estate Property Holdings L.L.C.	06-1217855	SUBSIDIARY
Casa Grande Investments I, LLC	06-1384746	SUBSIDIARY
Casa Grande Investments II, LP	01-0588041	SUBSIDIARY
Casa Partners VI GP, LLC	30-0794692	SUBSIDIARY
Casa Partners VII GP, LLC	47-5190671	SUBSIDIARY
CASA Partners VIII GP, LLC	82-4363605	SUBSIDIARY
Global Investors GP, L.L.C.	36-4477806	SUBSIDIARY
Global Investors GP II, L.L.C.	20-2537749	SUBSIDIARY
Global Investors GP IV, L.L.C.	20-3070768	SUBSIDIARY
Nuveen Real Estate Global LLC	81-4262460	SUBSIDIARY
Nuveen Global Investments LLC	26-2748598	SUBSIDIARY
Nuveen GP Holding Company LLC	82-2986445	SUBSIDIARY
CRED GP LLC	82-3751720	SUBSIDIARY
U.S. Cities Retail Fund GP LLC	82-4054235	SUBSIDIARY
U.S. Cities Multifamily Fund GP LLC	35-2633108	SUBSIDIARY
U.S. Cities Multifamily Fund LP	30-1108455	SUBSIDIARY
U.S. Cities Multifamily Fund REIT LLC	37-1904576	SUBSIDIARY
U.S. Cities Multifamily Fund Operating GP LLC	30-1116116	SUBSIDIARY
U.S. Cities Multifamily Fund Operating LP	35-2634607	SUBSIDIARY
USCMF Avion on Legacy LLC	83-2344355	SUBSIDIARY
USCMF Boulder Creek LLC	83-2434879	SUBSIDIARY
USCMF District at Washington LLC	83-2486856	SUBSIDIARY
TGAM APAC LLC	82-2777845	SUBSIDIARY
USCMF Gramercy at Buckhead, LLC	83-2447368	SUBSIDIARY
USCMF Junction Flats LLC	84-3022082	SUBSIDIARY
USCMF Metro 112 LLC	83-2409099	SUBSIDIARY
USCMF Stoneledge LLC	83-2422984	SUBSIDIARY
USCMF The Matisse LLC	83-2515243	SUBSIDIARY
USCMF The Reserve at Tysons Corner LLC	83-2459693	SUBSIDIARY
Nuveen Permian Investor Asset Manager Member LLC	81-5466713	SUBSIDIARY
Permian Investor Asset Manager LLC	82-0631410	SUBSIDIARY
Nuveen Permian Investor GP Member LLC	82-0607358	SUBSIDIARY
Permian Investor GP LLC	81-5433582	SUBSIDIARY
Nuveen Real Estate Global Cities Advisors LLC	82-3426937	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) Greenwood Resources Brasil, Ltda. is ultimately controlled and owned entirely by TIAA, with 99% owned by GWR Property Management International, LLC and 1% owned by GreenWood Resources, Inc.
- (3) 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.
- (4) 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
- (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%

STATEMENT AS OF SEPTEMBER 30, 2019 OF THE TIAA-CREF LIFE INSURANCE COMPANY
SCHEDULE Y - INFORMATION CONCERNING ACTIVITIES OF INSURER MEMBERS OF A HOLDING COMPANY GROUP
PART 1 - ORGANIZATIONAL CHART

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

COMPANY	FEIN	RELATIONSHIP
Nuveen Alternative Holdings, LLC (continued)		
TIAA International Holdings 1 Limited	46-1162850	SUBSIDIARY
Nuveen Real Estate Limited	98-1125673	SUBSIDIARY
TIAA International Holdings 2 Limited	46-1163394	SUBSIDIARY
TIAA International Holdings 3 Limited		SUBSIDIARY
Nuveen Real Estate Limited	98-1125673	SUBSIDIARY
Nuveen Administration Ltd	98-1127648	SUBSIDIARY
Nuveen Europe Holdings Limited	98-1128805	SUBSIDIARY
Henderson European Retail Property Fund Management Sarl		SUBSIDIARY
Nuveen Alternatives Europe S.à.r.l		SUBSIDIARY
Nuveen Asset Management Europe S.à.r.l		SUBSIDIARY
Nuveen Fund (Europe) Management S.à.r.l		SUBSIDIARY
Nuveen Fund Management (Jersey) Limited		SUBSIDIARY
Nuveen Fund Management Vanquish (Jersey) Limited		SUBSIDIARY
Nuveen Fund Management Vanquish II (Jersey) Limited		SUBSIDIARY
Asia Pacific Cities Management S.à.r.l		SUBSIDIARY
Nuveen Management AIFM Limited		SUBSIDIARY
Nuveen Management Company (Luxembourg) No 1 S.à.r.l		SUBSIDIARY
Nuveen Property Management (Jersey) Limited		SUBSIDIARY
Nuveen Real Estate Services GmbH (Austria)		SUBSIDIARY
Nuveen FCACO Ltd	98-1128787	SUBSIDIARY
Nuveen Real Estate Management Ltd		SUBSIDIARY
Nuveen Shopping Centre Verwaltungs GmbH		SUBSIDIARY
TIAA-CREF Asset Management UK Ltd	98-0582851	SUBSIDIARY
Nuveen Group Holdings Ltd		SUBSIDIARY
AREFM (BVI) Limited		AFFILIATE
CLOF II (GP) Limited		SUBSIDIARY
CLOF II (GP) Limited		SUBSIDIARY
CLOF II (No 1 GP) Limited		SUBSIDIARY
CLOF II (No1 Nominee) Limited		SUBSIDIARY
CLOF II (No 2 GP) Limited		SUBSIDIARY
CLOF II (No 3 GP) Limited	98-1165678	SUBSIDIARY
Enhanced Debt Carry (GP) S.à.r.l		SUBSIDIARY
Enhanced Debt Carry SCSp		SUBSIDIARY
ERES APAC II (GP) S.à.r.l		SUBSIDIARY
European Cities Partnership (GP) S.à.r.l		SUBSIDIARY
European Cities Partnership SCSp		AFFILIATE
Henderson Joint Ventures Property Funds Management S.à.r.l		SUBSIDIARY
Islazul General Partner S.à.r.l	98-1127632	SUBSIDIARY
Matador LP General Partner Limited		SUBSIDIARY
Nuveen Beteiligung Verwaltungs GmbH		SUBSIDIARY
Nuveen Immobilien GmbH		AFFILIATE
Anglo-Sino Henderson Investment Consultancy (Beijing) Co Limited		SUBSIDIARY
Nuveen Consulting (Shanghai) Co Ltd		SUBSIDIARY
Nuveen Management Austria GmbH		SUBSIDIARY
Nuveen Management Finland Oy		SUBSIDIARY
Nuveen Real Estate Debt Partners (GP) Sarl		SUBSIDIARY
Nuveen Real Estate Debt Partners II (GP) S.à.r.l		SUBSIDIARY
Global Real Estate Debt Partners – Fund II (UK) SCSp		AFFILIATE
Nuveen Real Estate Nominees Limited		SUBSIDIARY
Nuveen Singapore Private Limited		SUBSIDIARY
OMP (GP) Limited		SUBSIDIARY

COMPANY	FEIN	RELATIONSHIP
Nuveen Alternative Holdings, LLC (continued)		
T-C Lux Investments GP S.à.r.l		SUBSIDIARY
Nuveen Real Estate (Australia) Ltd		SUBSIDIARY
Nuveen (France) SAS		SUBSIDIARY
TH Real Estate Limited		SUBSIDIARY
TH Real Estate PELV GP S.à.r.l		SUBSIDIARY
Nuveen Corporate Secretarial Services Limited		SUBSIDIARY
Nuveen Italy Srl		SUBSIDIARY
Nuveen Operations Limited		SUBSIDIARY
TIAA-CREF Luxembourg S.à.r.l	98-1014834	SUBSIDIARY
Tokyo Multifamily GP PTE Ltd		SUBSIDIARY
UK OM (LP1) (GP) Limited		SUBSIDIARY
UK OM (LP1) Limited		SUBSIDIARY
UK OM (LP2) (GP) Limited		SUBSIDIARY
UK OM (LP2) Limited		SUBSIDIARY
UK OM (LP3) (GP) Limited		SUBSIDIARY
UK OM (LP3) Limited		SUBSIDIARY
TIAA Global Ag Special Member LLC	45-1532009	SUBSIDIARY
TIAA Global Ag II Special Member LLC	81-1749609	SUBSIDIARY
T-C U.S. Super Regional Mall Fund GP LLC	47-3126089	SUBSIDIARY
U.S. Cities Fund GP, LLC	20-1394681	SUBSIDIARY
U.S. Cities Industrial CPF Fund GP LLC	81-3647870	SUBSIDIARY
U.S. Cities Industrial Fund GP LLC		SUBSIDIARY
U.S. Cities Industrial Fund LP		SUBSIDIARY
U.S. Cities Industrial Fund Operating GP LLC		SUBSIDIARY
U.S. Cities Industrial Fund Operating LP		SUBSIDIARY
USCIF Aurora LLC	84-2961820	SUBSIDIARY
USCIF Bedford Park LLC	84-2962162	SUBSIDIARY
USCIF Maple Point LLC	84-2962252	SUBSIDIARY
USCIF Tri City Industrial LLC	84-2056343	SUBSIDIARY
U.S. Cities Multifamily CPF Fund GP LLC	81-3698954	SUBSIDIARY
U.S. Cities Office CPF Fund GP LLC	81-3734470	SUBSIDIARY
U.S. Cities Retail CPF Fund GP LLC	81-3493929	SUBSIDIARY
Westchester Group Investment Management Holding Company, Inc.	27-3416812	SUBSIDIARY
Westchester Group Investment Management, Inc.	27-3417683	SUBSIDIARY
International Agricultural Management, LLC	26-0352314	SUBSIDIARY
Plata Wine Partners, LLC	87-0735518	SUBSIDIARY
Premier Agricultural Management International, LLC	26-2747489	SUBSIDIARY
Terra Land Co.	37-1261935	SUBSIDIARY
The Plata Wine Partners Trust	37-6589484	SUBSIDIARY
Westchester Group Asset Management, Inc.	37-1193972	SUBSIDIARY
Westchester Group Farm Management, Inc.	37-1193973	SUBSIDIARY
Westchester Group of Australia Pty Ltd.		SUBSIDIARY
Westchester Group of Europe Ltd		SUBSIDIARY
Westchester Group SRL		SUBSIDIARY
Westchester Group of Poland Sp. Z o.o.		SUBSIDIARY
Westchester Group SRL		SUBSIDIARY
Westchester Group Real Estate, Inc.	37-1194491	SUBSIDIARY
Westchester Group South America Gestao de Investimentos Ltda.		SUBSIDIARY

LISTING 2 (NUVEEN FINANCE, LLC):

COMPANY	FEIN	RELATIONSHIP
Nuveen Holdings 1, Inc.	81-3425820	SUBSIDIARY
Nuveen Holdings, Inc.	26-0373324	SUBSIDIARY
Nuveen Investments, Inc.	36-3817266	SUBSIDIARY
Gresham Asset Management LLC	26-0627593	SUBSIDIARY
Gresham Investment Management LLC	20-1930384	SUBSIDIARY
Gresham Investment Management Asia Ple. Ltd.		SUBSIDIARY
Nuveen Alternative Investments, LLC	36-4839486	SUBSIDIARY
Nuveen Capital Markets LLC	83-3751978	SUBSIDIARY
Symphony Alternative Asset Management LLC	83-4025630	SUBSIDIARY
Nuveen Fund Advisors, LLC	31-0942504	SUBSIDIARY
Nuveen Asset Management, LLC	27-4357327	SUBSIDIARY
NIS/R&T, Inc.	36-3293941	SUBSIDIARY
Nuveen WCM Holdings, LLC	37-1695518	SUBSIDIARY
Winslow Capital Management, LLC	90-0860898	SUBSIDIARY
Growth Capital GP I, LLC	81-0730906	SUBSIDIARY
Nuveen NWQ Holdings, LLC	36-4709028	SUBSIDIARY
NWQ Partners, LLC	30-0892190	SUBSIDIARY
NWQ Investment Management Company, LLC	47-0875103	SUBSIDIARY
Nuveen Securities, LLC	36-2639476	SUBSIDIARY
Santa Barbara Asset Management, LLC	20-3432117	SUBSIDIARY
Symphony Asset Management LLC	94-3252504	SUBSIDIARY
Nuveen Investments Holdings, Inc.	36-7364377	SUBSIDIARY
Symphony Asset Management LLC	94-3252504	SUBSIDIARY
Symphony Risk Retention Finance LLC		SUBSIDIARY
SRR 1 LLC	30-1032009	SUBSIDIARY
Teachers Advisors, LLC	13-3760073	SUBSIDIARY
Colinvest Member LLC	82-1157427	SUBSIDIARY
CLO Colinvest I LLC		SUBSIDIARY

(10) Nuveen Real Estate 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.

(11) European Cities Partnership SCSp is owned 29.8% by T-C Lux Investments Special Limited Partnership and 1% by European Cities Partnership (GP) S.à.r.l.

(12) 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.

(13) 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.

(14) Westchester Group South America Gestao de Investimentos Ltda. is controlled and owned entirely by TIAA, with 99% owned by Westchester Group Investment Management, Inc. and 1% owned by Westchester Group Real Estate, Inc.

(15) Symphony Asset Management, LLC is ultimately controlled and owned entirely by TIAA, with 51% owned by Nuveen Investments, Inc. and 49% owned by Nuveen Investments Holdings, Inc.

STATEMENT AS OF SEPTEMBER 30, 2019 OF THE TIAA-CREF LIFE INSURANCE COMPANY
SCHEDULE Y - INFORMATION CONCERNING ACTIVITIES OF INSURER MEMBERS OF A HOLDING COMPANY GROUP
PART 1 - ORGANIZATIONAL CHART

LISTING 3:

COMPANY	FEIN	RELATIONSHIP
485 Properties, LLC	13-3987258	SUBSIDIARY
JWL Properties, Inc.	13-3371278	SUBSIDIARY
TPCC Associates, LLC	16-1735872	SUBSIDIARY
730 Data Centers, LLC	81-3091169	SUBSIDIARY
730 Aviator, LLC	82-0793232	SUBSIDIARY
Databridge, LLC	81-3106043	SUBSIDIARY
730 Power Development, LLC	47-2616735	SUBSIDIARY
730 Carroll, LLC	47-2622825	SUBSIDIARY
730 Cricket, LLC		SUBSIDIARY
730 Telecom LLC	47-5363027	SUBSIDIARY
730 Texas Forest Holdings, Inc.	13-4042885	SUBSIDIARY
730 Texas Timberlands II, Ltd.	51-0494351	SUBSIDIARY
730 Texas Timberlands, Ltd.	13-4042888	SUBSIDIARY
730 Texas Timberlands II, Ltd.	46-2916514	SUBSIDIARY
TIAA Timberlands I, LLC	13-4040842	SUBSIDIARY
730 Texas Timberlands, Ltd.	13-4042888	SUBSIDIARY
TIAA Timberlands II, LLC	13-4085431	SUBSIDIARY
Actoil, LLC	38-3847245	SUBSIDIARY
Actoil Colorado, LLC	46-3373066	SUBSIDIARY
Great Western Petroleum LLC		AFFILIATE
Almond Processors, LLC	45-2285816	SUBSIDIARY
ASC Holdings, LLC		AFFILIATE
Broadleaf Timberland Investments, LLC	46-1952974	SUBSIDIARY
Quercus Forestland Account, LLC	26-4647417	SUBSIDIARY
Quercus Panama, LLC		SUBSIDIARY
Quercus Algoma Corporation		SUBSIDIARY
Quercus Algoma Land Corporation		SUBSIDIARY
Casa Student Housing Fund Holdings, LLC	47-2167228	SUBSIDIARY
Shf-33d North Apts, LLC	47-3994280	SUBSIDIARY
Shf-Millennium One Apts, LLC	47-4155469	SUBSIDIARY
Shf-The Rocks Apts, LLC	81-2450195	SUBSIDIARY
PEP-TH CASA Student Housing, LLC	47-4455610	SUBSIDIARY
CSHF-PEP Purdue LLC	47-4455303	SUBSIDIARY
CSHF-PEP USF LLC	30-0965548	SUBSIDIARY
CCM Series, LLC	13-1624203	SUBSIDIARY
CCAP Fund 6 - 2015, L.P.	47-4069196	SUBSIDIARY
CCAP Fund 6 - 2016, L.P.	81-1205888	SUBSIDIARY
CCAP Fund 6 - 2017, L.P.	81-4732595	SUBSIDIARY
CCAP Fund 6 - 2018, L.P.	82-3167398	SUBSIDIARY
CCAP Fund 6 - 2019, L.P.	83-2787412	SUBSIDIARY
CCAP Fund 6 - 2020, L.P.	83-2787412	SUBSIDIARY
CCAP Fund 8 - 2015, L.P.	47-4079472	SUBSIDIARY
CCAP Fund 8 - 2016, L.P.	81-1212188	SUBSIDIARY
CCAP Fund 8 - 2017, L.P.	81-3718876	SUBSIDIARY
CCAP Fund 8 - 2018, L.P.	82-3182368	SUBSIDIARY
CCAP Fund 8 - 2019, L.P.	83-2793857	SUBSIDIARY
CCAP Fund GE, L.P.	81-0784669	SUBSIDIARY
CCAP Fund HFD, L.P.	81-0821374	SUBSIDIARY
CCAP Fund HFND, L.P.		SUBSIDIARY
CCM Series 2, LLC	13-1624203	SUBSIDIARY
CCAP Fund FI, L.P.	81-0753491	SUBSIDIARY

COMPANY	FEIN	RELATIONSHIP
Ceres Agricultural Properties, LLC	56-2672630	SUBSIDIARY
Loma del Rio Vineyards, LLC	37-1555322	SUBSIDIARY
Premiere Agricultural Properties, LLC		SUBSIDIARY
TPCC Associates, LLC	16-1735872	SUBSIDIARY
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	26-2745365	SUBSIDIARY
IAI Australia Fund II, Pty., Ltd.		SUBSIDIARY
IAI Australia Fund II Trust		SUBSIDIARY
IAI USA Fund II, LLC	26-2747755	SUBSIDIARY
Churchill Middle Market CLO IV, Ltd.	98-1402136	SUBSIDIARY
Churchill Middle Market Senior Loan Fund, LP	81-1810508	SUBSIDIARY
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
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
Distressed Opportunities Fund, L.P.	26-3561447	SUBSIDIARY
DWM Inclusive Finance Equity Fund II		AFFILIATE
DWM Microfinance Equity Fund I	98-0580879	AFFILIATE
Envisage Information Systems, LLC	04-3718449	SUBSIDIARY
EPP LFG I, LLC	30-0701953	AFFILIATE
Global Real Estate Debt Partners – Fund I (UK)		SUBSIDIARY
Global Real Estate Debt Partners – Fund II (UK) SCSp		AFFILIATE
Gresham CMS Fund, LLC	20-1930384	SUBSIDIARY
GreshamQuant ACAR Fund LLC	32-0509812	SUBSIDIARY
Growth Capital Fund I, L.P.	81-0737062	SUBSIDIARY
Inception GP LLC		SUBSIDIARY
Inception Partners IV, LP	46-2031403	AFFILIATE
Inception Partners V, LP	46-2062147	AFFILIATE
Infra Alpha, LLC	27-4149157	SUBSIDIARY
EMG Investments, LLC	27-3900641	AFFILIATE

(18)

(19)

(12)

COMPANY	FEIN	RELATIONSHIP
Lewis & Clark Timberlands, LLC	47-4169877	SUBSIDIARY
L&C Log Co, LLC	47-4187541	SUBSIDIARY
L&C Trex Farms, LLC	47-4196668	SUBSIDIARY
L&C TRS LLC	47-5300478	SUBSIDIARY
Liberty M & R SPV II, LP	27-2007833	SUBSIDIARY
Mansilla Participacoes LTDA		SUBSIDIARY
Radar Propriedades Agricolas S.A.		AFFILIATE
Nova Amaralina S.A. Propriedades Agricolas		AFFILIATE
Nova Agricola Ponte Alta S.A.		AFFILIATE
Nova Santa Barbara Agricola S.A.		AFFILIATE
Terras da Ponte Alta S.A.		AFFILIATE
Radar II Propriedades Agricolas S.A.		AFFILIATE
Proud Participacoes S.A.		AFFILIATE
IAI USA Fund II, LLC		SUBSIDIARY
Bioinvestments Negocios e Participacoes		AFFILIATE
Aguas de Ponte Alta S.A.		AFFILIATE
MM Funding, LLC	13-1624203	SUBSIDIARY
MyVest Corporation	47-0902011	SUBSIDIARY
NGFF Holdco, LLC	84-2320652	SUBSIDIARY
Nuveen Global Farmland Fund, LP		SUBSIDIARY
Global Farmland US Properties, LLC		SUBSIDIARY
US Horticulture Farmland, LLC		SUBSIDIARY
US Row Farmland, LLC		SUBSIDIARY
US Viticulture Farmland, LLC		SUBSIDIARY
Nuveen Municipal Opportunities Fund LP		SUBSIDIARY
Nuveen Real Estate U.S. Strategic Industrial Fund I LP		SUBSIDIARY
Nuveen Real Estate U.S. Strategic Industrial Fund II LP		SUBSIDIARY
AGR Agricultural Investments, LLC	26-4750562	SUBSIDIARY
Ridley Corporation Limited	46-1768969	AFFILIATE
Mandala Food Co-Investment Holdings II SPV		SUBSIDIARY
Materra, LLC		AFFILIATE
Teays River Investments, LLC	45-1125143	AFFILIATE
Oleum Holding Company, Inc.	26-4621336	SUBSIDIARY
Polar Star Canadian Oil and Gas Holding, Inc.	26-4248579	SUBSIDIARY
Adastra Management, Inc.		SUBSIDIARY
Nova Star Oil and Gas Inc.		SUBSIDIARY
Polar Star Canadian Oil and Gas, Inc.		SUBSIDIARY
Pinnacle Third Avenue LP	26-3821015	AFFILIATE
Primary Residential Individual Mortgage Entity Trust	81-6646838	SUBSIDIARY
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
Forestal y Agricola Silvologica Chile Limitada		SUBSIDIARY
Siguler Guff Third Avenue, L.P.	03-0543113	SUBSIDIARY
Social Infra, LLC		SUBSIDIARY
T-C 20 Hunter Street (AUS) Pty Ltd		SUBSIDIARY
T-C 20 Hunter Street (US), LLC	46-3922951	SUBSIDIARY
T-C 400 Montgomery, LLC	81-2525521	SUBSIDIARY
400 Montgomery Investors, LLC		SUBSIDIARY

(16) 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%.

(17) 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.

(18) 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.

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

(12) 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.

STATEMENT AS OF SEPTEMBER 30, 2019 OF THE TIAA-CREF LIFE INSURANCE COMPANY
SCHEDULE Y - INFORMATION CONCERNING ACTIVITIES OF INSURER MEMBERS OF A HOLDING COMPANY GROUP
PART 1 - ORGANIZATIONAL CHART

LISTING 3 (CONTINUED):

COMPANY	FEIN	RELATIONSHIP	COMPANY	FEIN	RELATIONSHIP	COMPANY	FEIN	RELATIONSHIP
ND Properties, Inc.	11-3034756	SUBSIDIARY	ND Properties, Inc. (continued)			ND Properties, Inc. (continued)		
Norteshopping Retail and Leisure Centre BV		SUBSIDIARY	SMA Holding S.à r.l.		SUBSIDIARY	U.S. Cities Retail CPF Fund Operating LP	81-3473773	SUBSIDIARY
Norteshopping - Centro Commercial S.à r.l.		SUBSIDIARY	70 St Mary Axe Unit Trust		SUBSIDIARY	CPF/UIR JV Member LLC	81-2914954	SUBSIDIARY
ND Europe S.à r.l.		SUBSIDIARY	HV Properties S.à r.l.		SUBSIDIARY	CPF/UIR Joint Venture LLC	81-2928112	SUBSIDIARY
ND Europe Office Holding S.à r.l.		SUBSIDIARY	HV Freehold S.à r.l.		SUBSIDIARY	CPF 636 Sixth Avenue LLC	81-2955427	SUBSIDIARY
Cityhold Nymphe S.à r.l.		SUBSIDIARY	TIAA Lux 9 S.à r.l.		SUBSIDIARY	T-C 636 Sixth Avenue Retail LLC	47-2264739	SUBSIDIARY
Cityhold Propco 11 S.à r.l.		SUBSIDIARY	SAS Malachite		SUBSIDIARY	CPF 856 Market Street LLC	81-2982618	SUBSIDIARY
Cityhold Euro S.à r.l.		SUBSIDIARY	SNC Garnet-TIAA		SUBSIDIARY	CPF 1511 Third Avenue LLC	81-2973332	SUBSIDIARY
Cityhold Office Partnership S.à r.l.		SUBSIDIARY	SNC La Defense		SUBSIDIARY	T-C 1608 Chestnut General Partner LLC		SUBSIDIARY
CHOP OPCl		SUBSIDIARY	SNC Lazuli		SUBSIDIARY	1608 Chestnut Partners LP		SUBSIDIARY
Cityhold Iconic Holding SAS	98-1435873	SUBSIDIARY	SNC Peridot		SUBSIDIARY	T-C 1608 Chestnut Limited Partner LLC		SUBSIDIARY
Cityhold Iconic Hotel SNC	98-1433967	SUBSIDIARY	T-C Neuperlach Development S.à r.l.		SUBSIDIARY	1608 Chestnut Partners LP		SUBSIDIARY
Cityhold Iconic Office SCI	98-1433956	SUBSIDIARY	T-C Pep Property S.à r.l.		SUBSIDIARY	T-C Potomac Promenade LLC	27-4116676	SUBSIDIARY
Cityhold Iconic Retail SNC	98-1433960	SUBSIDIARY	T-C Pep Holding S.à r.l.		SUBSIDIARY	T-C Core Prop Fund REIT 2 LLC	47-4935916	SUBSIDIARY
Cityhold Iconic Youth Hostel SNC	98-1433975	SUBSIDIARY	T-C Pep Asset S.à r.l.		SUBSIDIARY	T-C 685 Third Avenue Member, LLC	27-4123754	SUBSIDIARY
Cityhold Nymphe S.à r.l.		SUBSIDIARY	TIAA Lux 11 S.à r.l.		SUBSIDIARY	T-C 685 Third Avenue, LLC	27-3095569	SUBSIDIARY
Cityhold Propco 6 S.à r.l.		SUBSIDIARY	Gropius Passagen Verwaltungs GmbH		SUBSIDIARY	T-C 685 Third Avenue Owner LLC	61-1754745	SUBSIDIARY
Cityhold Iconic Hotel OPCO SAS	98-1433939	SUBSIDIARY	Gropius Passagen GmbH & Co KG		SUBSIDIARY	T-C 699 Bourke Street LLC	46-4969690	SUBSIDIARY
Cityhold Iconic Investment S.à r.l.	98-1435880	SUBSIDIARY	Gropius S.à r.l.		SUBSIDIARY	T-C Australia RE Holdings I, LLC	81-2490530	SUBSIDIARY
Cityhold Propco 9 S.à r.l.		SUBSIDIARY	Gropius Passagen GmbH & Co KG		SUBSIDIARY	T-C Australia RE Holdings II, LLC	81-2506975	SUBSIDIARY
36 Rue La Fayette SAS		SUBSIDIARY	TIAA Lux 5 S.à r.l.		SUBSIDIARY	TIAA Australia Real Estate Trust		SUBSIDIARY
SAS Roosevelt		SUBSIDIARY	Erlangen Arcaden GmbH & Co. KG		SUBSIDIARY	T-C 20 Hunter Street (AUS) Trust		SUBSIDIARY
SNC Roosevelt		SUBSIDIARY	Erlangen Arcaden Verwaltungs GmbH		SUBSIDIARY	TIAA Melbourne Retail Holding 1 Trust		SUBSIDIARY
Roosevelt Participation S.à r.l.		SUBSIDIARY	Erlangen Arcaden GmbH & Co. KG		SUBSIDIARY	TGA Miller Street Trust		SUBSIDIARY
SNC Roosevelt		SUBSIDIARY	U.S. Cities Fund LP	20-1371235	SUBSIDIARY	TIAA Melbourne Retail Holding 1 Trust		SUBSIDIARY
Courcelles 70 SAS		SUBSIDIARY	U.S. Cities Fund REIT, LLC	20-1371379	SUBSIDIARY	TIAA Melbourne Retail Asset 1 Trust		SUBSIDIARY
Cityhold Euro S.à r.l.		SUBSIDIARY	U.S. Cities Fund Operating GP, LLC	20-1364650	SUBSIDIARY	TGA Australia Real Estate Trust 2		SUBSIDIARY
Cityhold Propco 7 S.à r.l.		SUBSIDIARY	T-C Falls Center Townhouses LLC	46-5061808	SUBSIDIARY	TGA PBSA Asset Trust 1		SUBSIDIARY
Cityhold Propco 10 S.à r.l.		SUBSIDIARY	T-C King Street Station LLC	26-1700245	SUBSIDIARY	T-C Europe Holding Inc.	47-2363168	SUBSIDIARY
Cityhold Gouden Bocht B.V.		SUBSIDIARY	T-C Xavier Street Flats LLC	47-2532161	SUBSIDIARY	T-C Europe LP	47-2369576	SUBSIDIARY
Cityhold Gouden Bocht Monumenten B.V.		SUBSIDIARY	T-C Trio Apartments LLC	45-2892182	SUBSIDIARY	T-C Europe LP	47-2369576	SUBSIDIARY
Redevelopment Property II B.V.	98-1438380	SUBSIDIARY	U.S. Cities Industrial CPF Fund LP	81-3738136	SUBSIDIARY	T-C Europe S.à r.l.		SUBSIDIARY
Cityhold Propco 12 S.à r.l.		SUBSIDIARY	U.S. Cities Industrial CPF Fund REIT LLC	81-3681230	SUBSIDIARY	Nightingale LuxCo S.à r.l.		SUBSIDIARY
Cityhold EST Investment S.à r.l.		SUBSIDIARY	U.S. Cities Industrial CPF Fund Operating GP LLC	81-3671343	SUBSIDIARY	T-C Nordics Investment AB		SUBSIDIARY
Cityhold GC Investment S.à r.l.		SUBSIDIARY	U.S. Cities Industrial CPF Fund Operating LP	81-3757117	SUBSIDIARY	Sweden Nova Lund 1 AB		SUBSIDIARY
OVG Cloud S.à r.l.		AFFILIATE	U.S. Cities Multifamily CPF Fund LP	81-3765537	SUBSIDIARY	Sweden Nova Lund 2 AB		SUBSIDIARY
Cityhold Sterling S.à r.l.		SUBSIDIARY	U.S. Cities Multifamily CPF Fund REIT LLC	81-3870674	SUBSIDIARY	T-C Luxembourg Neptune Holdings S.à r.l.		SUBSIDIARY
Cityhold UK Holding S.à r.l.		SUBSIDIARY	U.S. Cities Multifamily CPF Fund Operating GP LLC	81-3716920	SUBSIDIARY	Neptune Property Venture S.à r.l.		SUBSIDIARY
Cityhold UK Investment S.à r.l.		SUBSIDIARY	U.S. Cities Multifamily CPF Fund Operating LP	81-3794611	SUBSIDIARY	Castel Guelfo I SRL		SUBSIDIARY
London Belgrave Unit Trust		SUBSIDIARY	U.S. Cities Office CPF Fund LP	81-3814378	SUBSIDIARY	Neptune Holding Spain, S.L.		SUBSIDIARY
New Fetter Lane Unit Trust		SUBSIDIARY	U.S. Cities Office CPF Fund REIT LLC	81-3911937	SUBSIDIARY	Promcat Alternativa, S.L.		SUBSIDIARY
60 Great Portland Street Unit Trust		SUBSIDIARY	U.S. Cities Office CPF Fund Operating GP LLC	81-3881522	SUBSIDIARY	Neptune Madrid Holdco S.L.		SUBSIDIARY
70 St Mary Axe Unit Trust		SUBSIDIARY	U.S. Cities Office CPF Fund Operating LP	81-3839479	SUBSIDIARY	Neptune Nassica Propco S.L.		SUBSIDIARY
London Belgrave Unit Trust		SUBSIDIARY	T-C World Trade Center North LLC	85-2569573	SUBSIDIARY	Neptune Getafe Propco S.L.		SUBSIDIARY
CLOF Victoria Nominee 1 Limited		SUBSIDIARY	U.S. Cities Retail CPF Fund LP	81-3437405	SUBSIDIARY	Neptune Las Rozas Outlet S.L.		SUBSIDIARY
CLOF Victoria Nominee 2 Limited		SUBSIDIARY	U.S. Cities Retail CPF Fund REIT LLC	81-3573421	SUBSIDIARY	Neptune San Sebastian Outlet S.L.		SUBSIDIARY
New Fetter Lane Unit Trust		SUBSIDIARY	U.S. Cities Retail CPF Fund Operating GP LLC	81-3578259	SUBSIDIARY	Neptune Polish HoldCo 2 B.V.		SUBSIDIARY
60 Great Portland Street Unit Trust		SUBSIDIARY				Neptune Polish Property Venture BV		SUBSIDIARY
(20) Cityhold Nymphe S.à r.l. (Nymphe) is ultimately controlled by TIAA via a 50% ownership of Cityhold Office Partnership S.à r.l., which owns 88% of Nymphe, and 6% owned by wholly-owned ND Europe Office Holding S.à r.l.						Neptune Krakow SP. z o.o.		SUBSIDIARY
(21) Cityhold Euro S.à r.l. (CES) is ultimately controlled by TIAA via a 50% ownership of Cityhold Propco 9 S.à r.l., which owns 88% of CES, and 6% owned by wholly-owned ND Europe Office Holding S.à r.l.						Neptune Annapol SP. z o.o.		SUBSIDIARY
(22) SNC Roosevelt is ultimately controlled by TIAA via a 50% 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%).						Neptune Poznan SP. z o.o.		SUBSIDIARY
(23) London Belgrave Unit Trust (LBUT) is ultimately controlled by TIAA via a 50% 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%).								
(24) New Fetter Lane Unit Trust (NFLUT) is ultimately controlled by TIAA via a 50% 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%).								
(25) 60 Great Portland Street Unit Trust (60GPS) is ultimately controlled by TIAA via a 50% 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%).								
(26) 70 St. Mary Axe Unit Trust (SMAUT) is ultimately controlled by TIAA via a 50% 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%).								
(27) 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%.								
(28) Erlangen Arcaden GmbH & Co. KG is controlled by TIAA, and partially owned by TIAA Lux 5 S.à r.l., which owns 94.9% and Erlangen Arcaden Verwaltungs GmbH which owns 5.1%.								
(29) 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.								
(30) 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.								

STATEMENT AS OF SEPTEMBER 30, 2019 OF THE TIAA-CREF LIFE INSURANCE COMPANY
SCHEDULE Y - INFORMATION CONCERNING ACTIVITIES OF INSURER MEMBERS OF A HOLDING COMPANY GROUP
PART 1 - ORGANIZATIONAL CHART

LISTING 3 (CONTINUED):

COMPANY	FEIN	RELATIONSHIP
T-C Europe, LP (continued)		
Neptune OPCI SAS		SUBSIDIARY
Roppenheim Holding SAS		SUBSIDIARY
Roppenheim Outlet SNC		SUBSIDIARY
Neptune Property Holding S.à r.l.		SUBSIDIARY
Nemab Sugar City B.V.		SUBSIDIARY
Silesia Outlet sp. z o.o		SUBSIDIARY
Neptune Roppenheim Holding S.à r.l.		SUBSIDIARY
Roppenheim Outlet SNC		SUBSIDIARY
Neptune Vicolungo I S.r.l.		SUBSIDIARY
T-C GA Real Estate Holdings, LLC	45-2877772	SUBSIDIARY
8 Spruce Street GA Investor, LLC	46-0959792	SUBSIDIARY
FC 8 Spruce Holdings, LLC	46-1403221	AFFILIATE
FC 8 Spruce Street Residential, LLC		
2300 Broadway Storage Operator LLC	84-2144204	SUBSIDIARY
Nuveen Global Cities REIT, Inc.	82-1419222	SUBSIDIARY
Nuveen Global Cities REIT LP, LLC	82-1502883	SUBSIDIARY
Nuveen Global Cities REIT OP, LP	82-1507998	SUBSIDIARY
NR 844 North LLC	82-3527067	SUBSIDIARY
NR APCF Investor Ltd.		SUBSIDIARY
NR Defoor Hills LLC	82-5519657	SUBSIDIARY
NR Denver Industrial Portfolio LLC	82-3539243	SUBSIDIARY
NR East Sego Lily LLC	83-3651003	SUBSIDIARY
NR ECF Investor Ltd.		SUBSIDIARY
NR Globe Street Industrial LLC		
NR Henderson 215 LLC	83-1495411	SUBSIDIARY
NR Kirkland Crossing LLC	82-3556058	SUBSIDIARY
NR Main Street at Kingwood LLC	83-1815798	SUBSIDIARY
NR Tacara at Steiner Ranch LLC	82-5503093	SUBSIDIARY
Nuveen Global Cities REIT Lending, LLC	83-4299885	SUBSIDIARY
T-C 2 Herald Square Member LLC	47-1535030	SUBSIDIARY
T-C 2 Herald Square Venture LLC	47-1650509	SUBSIDIARY
T-C 2 Herald Square Owner LLC	47-1488131	SUBSIDIARY
T-C 1101 Pennsylvania Avenue LLC	27-2952349	SUBSIDIARY
T-C 1101 Pennsylvania Avenue Venture LLC	27-2952617	SUBSIDIARY
T-C 1101 Pennsylvania Avenue Owner LLC	27-2952860	SUBSIDIARY
T-C 33 Arch Street Member, LLC	46-1851206	SUBSIDIARY
T-C 33 Arch Street Venture, LLC	46-1805501	SUBSIDIARY
T-C 33 Arch Street, LLC	45-2792699	SUBSIDIARY
T-C 470 Park Avenue South Member LLC	46-1754709	SUBSIDIARY
T-C 470 Park Avenue South Venture LLC	46-1744112	SUBSIDIARY
T-C 470 Park Avenue South Owner LLC	46-1754243	SUBSIDIARY
T-C 475 Fifth Avenue Member, LLC	46-1828055	SUBSIDIARY
T-C 475 Fifth Avenue Venture LLC	46-1839003	SUBSIDIARY
T-C 475 Fifth Avenue, LLC	45-3229803	SUBSIDIARY
T-C 800 17th Street NW Member LLC	47-2189075	SUBSIDIARY
T-C 800 17th Street NW Venture LLC	47-2118640	SUBSIDIARY
T-C 800 17th Street NW Owner LLC	47-2069910	SUBSIDIARY

COMPANY	FEIN	RELATIONSHIP
T-C GA Real Estate Holdings, LLC (continued)		
T-C 888 Brannan Member LLC	47-4665824	SUBSIDIARY
T-C 888 Brannan Venture LLC	47-4684031	SUBSIDIARY
T-C 888 Brannan Owner LLC	47-4674147	SUBSIDIARY
T-C 888 Brannan TRS, LLC	47-5605380	SUBSIDIARY
T-C 2300 Broadway, LLC	45-3479701	SUBSIDIARY
T-C Aspira LLC	46-1220681	SUBSIDIARY
T-C Franklin Square Member, LLC	46-1791581	SUBSIDIARY
T-C Franklin Square Venture LLC	46-1794486	SUBSIDIARY
TIAA Franklin Square, LLC	26-0011770	SUBSIDIARY
T-C Hall of States Member LLC	47-2023405	SUBSIDIARY
T-C Hall of States Venture LLC	47-2043468	SUBSIDIARY
T-C Hall of States Owner LLC	47-2034237	SUBSIDIARY
T-C Kinross Crossing, LLC	45-4567368	SUBSIDIARY
T-C Legacy Place Member, LLC	46-1120016	SUBSIDIARY
Legacy Place Associates, LLC	46-0876833	SUBSIDIARY
300 Legacy Place Boulevard LLC		SUBSIDIARY
Legacy Place Properties, LLC		SUBSIDIARY
T-C Republic Square Member LLC	47-2903922	SUBSIDIARY
T-C Republic Square Venture LLC	47-2867784	SUBSIDIARY
T-C Republic Square REIT LLC	47-3033681	SUBSIDIARY
T-C Republic Square Mezzanine LLC	47-3091198	SUBSIDIARY
T-C Republic Square Owner LLC	47-2793452	SUBSIDIARY
The Flats Holding Company LLC	47-1379500	SUBSIDIARY
The Flats 140 DC Residential LLC	47-1363564	SUBSIDIARY
The Flats DC Grocery LLC	47-1367530	SUBSIDIARY
Adeoti Empreendimentos Imobiliários Ltda		SUBSIDIARY
T-C JK I, LLC	46-4587620	SUBSIDIARY
T-C JK II, LLC		
Adeoti Empreendimentos Imobiliários Ltda		SUBSIDIARY
T-C Lux Fund Holdings LLC	47-4095803	SUBSIDIARY
T-C Lux Investments Special Limited Partnership		SUBSIDIARY
European Cities Partnership SCSp		AFFILIATE
Global Real Estate Debt Partners – Fund I (UK)		SUBSIDIARY
T-C MV Member LLC	81-4583865	SUBSIDIARY
T-C M-T REIT LLC	81-4599024	SUBSIDIARY
T-C MV Member II LLC		SUBSIDIARY
T-C M-T REIT II LLC	84-3224528	SUBSIDIARY
T-C Mt. Ommaney Centre Holding Company LLC	47-1954609	SUBSIDIARY
T-C Mt. Ommaney Centre LLC	47-1828871	SUBSIDIARY
T-C Permian Investor LLC	82-1023309	SUBSIDIARY
T-C SBMC Joint Venture LLC	46-3007720	SUBSIDIARY
T-C SMA I, LLC	20-8309570	SUBSIDIARY
CPPIB-TIAA US Real Property Fund LP	20-8309587	SUBSIDIARY
CPPIB-TIAA US Real Property Fund LP	20-8309587	SUBSIDIARY
C-T Shenandoah, LLC	20-8309622	SUBSIDIARY
T-C SMA 2, LLC	36-4620008	SUBSIDIARY
PennMuni-TIAA U.S. Real Estate Fund, LLC	36-4619998	SUBSIDIARY
T-C SMA III, LLC	27-1858182	SUBSIDIARY
T-C The Edge at Flagler Village, LLC	81-2204918	SUBSIDIARY

COMPANY	FEIN	RELATIONSHIP
T-C UK RE Holdings I, LLC	81-2676934	SUBSIDIARY
T-C UK RE Holdings II, LLC	81-2691474	SUBSIDIARY
Thurrock Retail Park Unit Trust		SUBSIDIARY
T-C UK RE Holdings III, LLC	81-3299073	SUBSIDIARY
Thurrock Retail Park Unit Trust		SUBSIDIARY
T-C U.S. Super Regional Mall Fund LP	47-3148337	SUBSIDIARY
T-C Waterford Blue Lagoon General Partner, LLC	47-5379777	SUBSIDIARY
Waterford Blue Lagoon LP	47-5392075	SUBSIDIARY
T-C Waterford Blue Lagoon, LLC	47-5375805	SUBSIDIARY
Waterford Blue Lagoon LP	47-5392075	SUBSIDIARY
Westland At Waterford REIT General Partner LLC	81-0779817	SUBSIDIARY
Westland At Waterford REIT LP	47-5321319	SUBSIDIARY
Westland At Waterford General Partner LLC	47-5635267	SUBSIDIARY
T-C Waterford Blue Lagoon, LLC	47-5580924	SUBSIDIARY
Waterford Blue Lagoon REIT General Partner LLC		SUBSIDIARY
Waterford Blue Lagoon REIT LP	47-5305678	SUBSIDIARY
5201-5301 Waterford General Partner LLC	47-5642524	SUBSIDIARY
5201-5301 Waterford Operating LP	47-5541032	SUBSIDIARY
5200 Waterford General Partner LLC	47-5672651	SUBSIDIARY
5200 Waterford Operating LP	47-5498897	SUBSIDIARY
1000 Waterford General Partner LLC	81-0722154	SUBSIDIARY
1000 Waterford Operating LP	47-5479437	SUBSIDIARY
701-703 Waterford General Partner LLC	47-5445045	SUBSIDIARY
701-703 Waterford Operating LP	47-5471474	SUBSIDIARY
Waterford Core REIT LP	82-2646233	SUBSIDIARY
Waterford Core 800 REIT General Partner LLC		SUBSIDIARY
T-C JK I, LLC		SUBSIDIARY
Waterford Core General Partner LLC	81-0733012	SUBSIDIARY
Waterford Core Operating LP	47-5587163	SUBSIDIARY
Waterford Core II Operating LP	82-2663579	SUBSIDIARY
Waterford Core II General Partner LLC	82-2672297	SUBSIDIARY
TGA 127-137 Franklin LLC	82-1645257	SUBSIDIARY
TGA 299 Franklin LLC	81-2769108	SUBSIDIARY
TGA 600 College Road LLC	81-3988795	SUBSIDIARY
TGA 730 Third Avenue Owner LLC	83-2548459	SUBSIDIARY
TGA 3401 North Ashton Blvd LLC	83-2957526	SUBSIDIARY
TGA 3851 Grandpine Way LLC	82-4830474	SUBSIDIARY
TGA APAC Fund Holdings, LLC	82-225812	SUBSIDIARY
Asia Pacific Cities Fund, FCP		SUBSIDIARY
TGA Real Estate Fund Holdings, LLC	82-2311300	SUBSIDIARY
Asia Pacific Cities Fund, FCP		SUBSIDIARY
TGA Barnes Canyon Life Science LLC	83-1851559	SUBSIDIARY
TGA Cactus DC I LLC	84-2939313	SUBSIDIARY
TGA Cactus DC II LLC	84-2939493	SUBSIDIARY
TGA Central Green LLC	83-3799476	SUBSIDIARY
TGA Connections at Athens Investor Member LLC	83-0780652	SUBSIDIARY
PEP-TH Athens, LLC	81-1892161	SUBSIDIARY
PEP Athens, LLC	83-1011298	SUBSIDIARY

(31) 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%).

(32) 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

(1) European Cities Partnership SCSp is owned 29.8% by T-C Lux Investments Special Limited Partnership and 1% by European Cities Partnership (GP) S.à r.l.

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

(33) CPPIB-TIAA US Real Property Fund LP is controlled by TIAA, which owns 50%. T-C SMA I, LLC, which is 100% owned by TIAA, is the General Partner and owns 1%.

(34) Thurrock Retail Park Unit Trust is ultimately controlled and owned entirely by TIAA with 99.5% owned by T-C UK RE Holdings III, LLC and 0.5% owned by T-C UK RE Holdings II, LLC.

(35) 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%.

(36) Asia Pacific Cities Fund, FCP is owned 38.6% by TGA APAC Fund Holdings, LLC and 38.6% by TGA Real Estate Fund Holdings, LLC

STATEMENT AS OF SEPTEMBER 30, 2019 OF THE TIAA-CREF LIFE INSURANCE COMPANY
SCHEDULE Y - INFORMATION CONCERNING ACTIVITIES OF INSURER MEMBERS OF A HOLDING COMPANY GROUP
PART 1 - ORGANIZATIONAL CHART

LISTING 3 (CONTINUED):

COMPANY	FEIN	RELATIONSHIP
TEFF Holdco LLC	81-2146865	SUBSIDIARY
TIAA European Farmland Fund GP LP	98-1310748	SUBSIDIARY (4)
TIAA European Farmland Fund LP		
TEFF Holding S.a.r.l		SUBSIDIARY
TEFF Investments B.V.		SUBSIDIARY
Areal III Spolka z o.o.		SUBSIDIARY
Hodowla Zwierzat Zarodowych Choczewo Spolka z o.o.		SUBSIDIARY
Hodowla Zwierzat Zarodowych Wierchucino Spolka z o.o.		SUBSIDIARY
Hodowla Zwierzat Zarodowych Zarnowiec Spolka z o.o.		SUBSIDIARY
Dangro Invest SA		SUBSIDIARY
AGRA Spolka z o.o.		SUBSIDIARY
AGAT Spolka z o.o.		SUBSIDIARY
AGRAMAX Spolka z o.o.		SUBSIDIARY
AGRIFARM Spolka z o.o.		SUBSIDIARY
AGRO - DUBLINY SP. z o.o.		SUBSIDIARY
AGROSERVICE Spolka z o.o.		SUBSIDIARY
AMAL Spolka z o.o.		SUBSIDIARY
CISY Spolka z o.o.		SUBSIDIARY
KOLNO Spolka z o.o.		SUBSIDIARY
MILKOWO Sp. Z o.o.		SUBSIDIARY
SEE-AGRO SP. z o.o.		SUBSIDIARY
SATOPY Spolka z o.o.		SUBSIDIARY
Pszennol SA		SUBSIDIARY
AGROLAND Spolka z o.o.		SUBSIDIARY
BUDUS Spolka z o.o.		SUBSIDIARY
CIESZYSLAW SP z o.o.		SUBSIDIARY
FARMEX Spolka z o.o.		SUBSIDIARY
JASIONNO Spolka z o.o.		SUBSIDIARY
ROLA Spolka z o.o.		SUBSIDIARY
ROLPOL Spolka z o.o.		SUBSIDIARY
ROLZBUD Spolka z o.o.		SUBSIDIARY
SOBIERADZ Spolka z o.o.		SUBSIDIARY
TELYN SP. z o.o.		SUBSIDIARY
TOKARY Sp.z o.o.		SUBSIDIARY
TURKUS SP. z o.o.		SUBSIDIARY
WALICHNOWY Sp. z o.o.		SUBSIDIARY
WEZINY SP. z o.o.		SUBSIDIARY
ZIEMROL Spolka z o.o.		SUBSIDIARY
LOZICE Sp. z o.o.		SUBSIDIARY
Adamas SA		SUBSIDIARY
AMBER SP. z o.o.		SUBSIDIARY
JAROSLAWSKO I SP. z o.o.		SUBSIDIARY
JAROSLAWSKO II SP. z o.o.		SUBSIDIARY
OGARDY SP. z o.o.		SUBSIDIARY
OPAL SP z o.o.		SUBSIDIARY
SZAFIR SP. z o.o.		SUBSIDIARY
Gospodarstwo Okopy Sp. z o.o.		SUBSIDIARY
Przedsiębiorstwo Rolne Okopy Sp. z o.o.		SUBSIDIARY
Agrohops Bielec Sp. z o.o.		SUBSIDIARY
Agrohops Service Sp. z o.o.		SUBSIDIARY
Agrohops Sp. z o.o.		SUBSIDIARY
Agrohops Biełz Sp. z o.o.		SUBSIDIARY
TGA FC Investor Member LLC		SUBSIDIARY
Fenway Center Holding 1-2, LLC	82-2708488	SUBSIDIARY
Fenway Center Owner 1-2, LLC	82-2708488	SUBSIDIARY

COMPANY	FEIN	RELATIONSHIP
TGA European RE Holdings I, LLC	83-2810033	SUBSIDIARY
Eagle GPCo S.à r.l.		SUBSIDIARY
Eagle Partnership SCSp		SUBSIDIARY
Eagle JVCo S.à r.l.		SUBSIDIARY
CB Krieau Dzwei GmbH		SUBSIDIARY
Viertel Zwei Entwicklung GmbH & Co Studenthouse KG		SUBSIDIARY (37)
Eagle Austria Holdings S.à r.l.		SUBSIDIARY
Viertel Zwei Entwicklung GmbH & Co Studenthouse KG		SUBSIDIARY (37)
Studenthouse Rua Manuel Pereira, S.A		SUBSIDIARY
TGA Japan Holdings, LLC	81-3602072	SUBSIDIARY
TGA Japan Holdings Pte Ltd		SUBSIDIARY
TGA Japan GK Holdings Pte Ltd		SUBSIDIARY
TGA Ginza115 GK		SUBSIDIARY
TGA Ginza 115 Holdings Pte Ltd		SUBSIDIARY (38)
TGA Ginza115 TMK		SUBSIDIARY (38)
TGA Ginza115 ISH		SUBSIDIARY
TGA MKP Member LLC	82-1169084	SUBSIDIARY
TGA MKP Venture LLC	82-1198745	SUBSIDIARY
TGA MKP REIT LLC	82-1187131	SUBSIDIARY
TGA Montague Investor Member, LLC	81-4232788	SUBSIDIARY
RCD TGA Pierrepont Partners LLC		SUBSIDIARY
TGA Montrose Residences Investor Member, LLC	81-3542251	SUBSIDIARY
The Residences at La Colombe d'Or Investors LLC	81-2872565	SUBSIDIARY
Morningstar NRE Self Storage Portfolio LLC	83-2379583	SUBSIDIARY
MSC Tallahassee, LLC		SUBSIDIARY
MSC Carolinas, LLC		SUBSIDIARY
MSC Dam Storage, LLC		SUBSIDIARY
MSC Yorktown, LLC		SUBSIDIARY
MSC Greenhouse, LLC		SUBSIDIARY
MSC Midtown Atlanta, LLC		SUBSIDIARY
MSC Kemps Landing, LLC		SUBSIDIARY
MSC South End, LLC		SUBSIDIARY
MSC MTP, LLC		SUBSIDIARY
MSC Peachtree, LLC		SUBSIDIARY
MSC Evans Rd, LLC		SUBSIDIARY
MSC SW Austin, LLC		SUBSIDIARY
MSC Buda, LLC		SUBSIDIARY
MSC Boerne, LLC		SUBSIDIARY
MSC Spring Branch, LLC		SUBSIDIARY
MSC Highway 521 Storage, LLC		SUBSIDIARY
TGA Near East LLC	83-4153778	SUBSIDIARY
TGA NJAHP Investor Member LLC		SUBSIDIARY
NJAHP Preservation Associates JV LLC		SUBSIDIARY
TGA Oak View Mall LLC	83-1934291	SUBSIDIARY
TGA Pleasant Prairie Center LLC	83-3250233	SUBSIDIARY
TGA Sandy Commerce Park LLC	83-2938932	SUBSIDIARY
TGA The Warehouse At CH Investor Member LLC	84-3083862	SUBSIDIARY
TGAP The Warehouse At CH Owner LLC		SUBSIDIARY
TGAP The Warehouse At CH LLC		SUBSIDIARY
TGA Yorktown Trinity Groves LLC	83-0723201	SUBSIDIARY
TGAM Agribusiness Fund LP	81-1994278	SUBSIDIARY
TGAM Agribusiness Fund Holdings LP	82-0646994	SUBSIDIARY

COMPANY	FEIN	RELATIONSHIP
TGA SP-MPC Housing Investor Member LLC	83-2063402	SUBSIDIARY
TGA-SP Housing Venture I LLC	83-2147240	SUBSIDIARY
MPSP Ashwood Homes LLC	83-1869400	SUBSIDIARY
MPSP Ashwood MHC LLC	83-1869494	SUBSIDIARY
MPSP Bellline Homes LLC	84-2331138	SUBSIDIARY
MPSP Bellline Lender LLC	84-2345909	SUBSIDIARY
MPSP Bellline MHC LLC	84-2216330	SUBSIDIARY
MPSP Center Grove Homes LLC	83-1088601	SUBSIDIARY
MPSP Center Grove Lender LLC	83-2290040	SUBSIDIARY
MPSP Center Grove MHC LLC	83-1076792	SUBSIDIARY
MPSP Colinas South Homes LLC	84-2158715	SUBSIDIARY
MPSP Colinas South Lender LLC	84-2158791	SUBSIDIARY
MPSP Estancia Homes LLC	84-2169973	SUBSIDIARY
MPSP Estancia Lender LLC	84-2277681	SUBSIDIARY
MPSP Estancia MHC LLC	84-1976109	SUBSIDIARY
MPSP Fairlane Oaks Homes LLC	83-4260197	SUBSIDIARY
MPSP Fairlane Oaks Lender LLC	83-4283444	SUBSIDIARY
MPSP Fairlane Oaks MHC LLC	83-4241248	SUBSIDIARY
MPSP Lakeview Homes LLC	84-2290488	SUBSIDIARY
MPSP Lakeview Lender LLC	84-2319726	SUBSIDIARY
MPSP Lakeview MHC LLC	84-2199063	SUBSIDIARY
MPSP Lemon Tree Homes LLC	83-1213262	SUBSIDIARY
MPSP Mobile Gardens Homes LLC	83-1230821	SUBSIDIARY
MPSP Mobile Gardens MHC LLC	83-1230714	SUBSIDIARY
MPSP Parker Lender LLC	84-2389423	SUBSIDIARY
MPSP Parker MHC LLC	84-2247177	SUBSIDIARY
MPSP Seven Oaks Homes LLC	84-2277774	SUBSIDIARY
MPSP Seven Oaks Lender LLC	84-2290439	SUBSIDIARY
MPSP Seven Oaks MHC LLC	84-2198856	SUBSIDIARY
MPSP Shiloh Homes LLC	83-2700633	SUBSIDIARY
MPSP Shiloh Lender LLC	83-2725391	SUBSIDIARY
MPSP Shiloh MHC LLC	83-2700544	SUBSIDIARY
MPSP South Concho Homes LLC	84-2428644	SUBSIDIARY
MPSP South Concho Lender LLC	84-2436652	SUBSIDIARY
MPSP Stonegate Homes LLC	83-2261982	SUBSIDIARY
MPSP Stonegate Lender LLC	83-2725560	SUBSIDIARY
MPSP Stonegate MHC LLC	84-2319873	SUBSIDIARY
MPSP TC GH Homes LLC	84-2331064	SUBSIDIARY
MPSP TC GH Lender LLC	84-2216156	SUBSIDIARY
MPSP TC GH MHC LLC	84-2389479	SUBSIDIARY
MPSP TC Sherman Homes LLC	84-2428588	SUBSIDIARY
MPSP TC Sherman Lender LLC	84-2247220	SUBSIDIARY
MPSP Wildwood Acres Homes LLC	84-2345969	SUBSIDIARY
MPSP Wildwood Acres MHC LLC	84-2239609	SUBSIDIARY
MPSP Wildwood Village Homes LLC	84-2361842	SUBSIDIARY
MPSP Wildwood Village MHC LLC	84-2239646	SUBSIDIARY
MPSP Windsong Homes LLC	83-2848324	SUBSIDIARY
MPSP Windsong Lender LLC	83-2848439	SUBSIDIARY
MPSP Windsong MHC LLC	83-2861026	SUBSIDIARY

(4) 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

(37) Viertel Zwei Entwicklung GmbH & Co Studenthouse 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%.

(38) TGA Ginza115 TMK is ultimately controlled and owned entirely by TIAA, with 51% owned by TGA Japan GK Holdings Pte Ltd and 49% of owned by TGA Ginza 115 Holdings Pte Ltd.

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STATEMENT AS OF SEPTEMBER 30, 2019 OF THE TIAA-CREF LIFE INSURANCE COMPANY

SCHEDULE Y - INFORMATION CONCERNING ACTIVITIES OF INSURER MEMBERS OF A HOLDING COMPANY GROUP

PART 1 - ORGANIZATIONAL CHART

LISTING 3 (CONTINUED):

COMPANY	FEIN	RELATIONSHIP
U.S. Cities Retail Fund LP		SUBSIDIARY
U.S. Cities Retail Fund REIT LLC		SUBSIDIARY
U.S. Cities Retail Fund Operating GP LLC		SUBSIDIARY
U.S. Cities Retail Fund Operating LP		SUBSIDIARY
T-C 919 N. Michigan Avenue Retail, LLC	46-0750331	SUBSIDIARY
USCRF KRG JV Investor Member LLC		SUBSIDIARY
KRG – USCRF Retail Portfolio LLC		SUBSIDIARY
KRG 951 & 41, LLC		SUBSIDIARY
KRG Livingston Center, LLC		SUBSIDIARY
KRG-USCRF Plaza Volente, LLC		SUBSIDIARY
U.S. Core-Plus Real Estate Debt Fund LP	82-3988257	SUBSIDIARY
CRED REIT LLC	82-3760575	SUBSIDIARY
CRED REIT Holdco LLC	47-1938723	SUBSIDIARY
CRED REIT Holdco Seller LLC	83-2024014	SUBSIDIARY
CRED REIT Holdco TRS LLC	81-1392434	SUBSIDIARY
CRED REIT Manager LLC	82-4800804	SUBSIDIARY
CRED REIT Member LP	82-5347019	SUBSIDIARY
CRED Sawtelle LLC	83-2267896	SUBSIDIARY
CRED Slabtown LLC	83-3184068	SUBSIDIARY
CRED West Coast Industrial LLC	83-4107560	SUBSIDIARY
WRC Properties, LLC	51-0141732	SUBSIDIARY
Stichting Bewaarder Ziemia Fund		AFFILIATE

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? (Y/N)	*
			13-6110585	3792687			TIAA Board of Overseers	..NY..	..UIP..					..N..	
..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 Overseers	Ownership..	100.000	TIAA Board of Overseers	..N..	
			45-2401857	4618298			730 Holdings, LLC	..DE..	..NIA..	TIAA Board of Overseers	Ownership..	100.000	TIAA Board of Overseers	..N..	
			13-6022042		777535		College Retirement Equities Fund	..NY..	..NIA..	CREF Board of Overseers	Board		CREF Board of Overseers	..N..	
..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 Overseers	..N..	
			47-1595484	4747826			Nuveen, LLC	..DE..	..DS..	Teachers Insurance and Annuity Association of America	Ownership..	100.000	TIAA Board of Overseers	..N..	
			81-3407371	5042621			Nuveen Services, LLC	..DE..	..NIA..	Nuveen, LLC	Ownership..	100.000	TIAA Board of Overseers	..N..	
			13-3905273	4599865			TIAA-CREF Asset Management, LLC	..DE..	..NIA..	Nuveen, LLC	Ownership..	100.000	TIAA Board of Overseers	..N..	
			81-1272900	4952732			L&C Special Member Holdco, LLC	..DE..	..NIA..	TIAA-CREF Asset Management, LLC	Ownership..	100.000	TIAA Board of Overseers	..N..	
			46-3889185	4866932			GTR Special Member Holdco LLC	..DE..	..NIA..	TIAA-CREF Asset Management, LLC	Ownership..	100.000	TIAA Board of Overseers	..N..	
			81-4374969				TIAA International GP LLC	..DE..	..NIA..	TIAA-CREF Asset Management, LLC	Ownership..	100.000	TIAA Board of Overseers	..N..	
			13-3586142	4314303	887793		TIAA-CREF Investment Management, LLC	..DE..	..NIA..	TIAA-CREF Asset Management, LLC	Ownership..	100.000	TIAA Board of Overseers	..N..	
			46-3870972	4716541			Nuveen Alternative Holdings, LLC	..DE..	..NIA..	TIAA-CREF Asset Management, LLC	Ownership..	100.000	TIAA Board of Overseers	..N..	
			81-1467545	4974190			AGR Partners LLC	..DE..	..NIA..	Nuveen Alternative Holdings, LLC	Ownership..	75.000	TIAA Board of Overseers	..N..	
			36-4853278				AGR Services LLC	..DE..	..NIA..	Nuveen Alternative Holdings, LLC	Ownership..	1.000	TIAA Board of Overseers	..N..	100
			36-4853278				AGR Services LLC	..DE..	..NIA..	AGR Partners LLC	Ownership..	99.000	TIAA Board of Overseers	..N..	100
							Nuveen Agribusiness Fund III GP, LLC	..DE..	..NIA..	AGR Partners LLC	Ownership..	100.000	TIAA Board of Overseers	..N..	
			81-1870559	5010657			TGAM Agribusiness Fund GP LLC	..DE..	..NIA..	AGR Partners LLC	Ownership..	100.000	TIAA Board of Overseers	..N..	
			45-5558395	4724096			Beaver Investments Holdings, LLC	..DE..	..NIA..	Nuveen Alternative Holdings, LLC	Ownership..	100.000	TIAA Board of Overseers	..N..	
			80-0026976	4724108	1392090		GreenWood Resources, Inc.	..DE..	..NIA..	Beaver Investments Holdings, LLC	Ownership..	88.000	TIAA Board of Overseers	..N..	
				4961006			Greenwood Resources Brasil, Ltda.	..BRA..	..NIA..	GreenWood Resources, Inc.	Ownership..	1.000	TIAA Board of Overseers	..N..	200
			45-1875074	4724153			GreenWood Resources Capital Management, LLC	..DE..	..NIA..	GreenWood Resources, Inc.	Ownership..	100.000	TIAA Board of Overseers	..N..	
			20-8501127	4868413			GTFF GP, LLC	..DE..	..NIA..	GreenWood Resources, Inc.	Ownership..	100.000	TIAA Board of Overseers	..N..	
			20-8955976	4867863			GWR-GTFF Investment, LLC	..DE..	..NIA..	GreenWood Resources, Inc.	Ownership..	100.000	TIAA Board of Overseers	..N..	
				4724144			GWR International Ltd.	..VGB..	..NIA..	GreenWood Resources, Inc.	Ownership..	100.000	TIAA Board of Overseers	..N..	
			20-3188681	4724386			GWR China Ltd.	..VGB..	..NIA..	GWR International Ltd.	Ownership..	100.000	TIAA Board of Overseers	..N..	
			98-0595429	4868338			GreenWood Resources China Ltd.	..HKG..	..NIA..	GWR China Ltd.	Ownership..	100.000	TIAA Board of Overseers	..N..	
				4724377			GWR SA, Ltd.	..VGB..	..NIA..	GWR International Ltd.	Ownership..	100.000	TIAA Board of Overseers	..N..	
				4724395			GreenWood Resources Chile, S.A.	..CHL..	..NIA..	GreenWood Resources SA, Ltd.	Ownership..	95.000	TIAA Board of Overseers	..N..	
			98-1016332	4868392			GWR Europe Ltd.	..GBR..	..NIA..	GWR International Ltd.	Ownership..	100.000	TIAA Board of Overseers	..N..	
			98-1016335	4868404			GreenWood Resources Poland sp Z.o.o.	..POL..	..NIA..	GWR Europe Ltd.	Ownership..	100.000	TIAA Board of Overseers	..N..	
			47-4557075	4887580			Greenwood Resources Forest Management, LLC	..DE..	..NIA..	GreenWood Resources, Inc.	Ownership..	100.000	TIAA Board of Overseers	..N..	
				4961006			Greenwood Resources Brasil, Ltda.	..BRA..	..NIA..	GWR Property Management International, LLC	Ownership..	99.000	TIAA Board of Overseers	..N..	200
							GWR Uruguay S.A.	..URY..	..NIA..	GWR Property Management International, LLC	Ownership..	100.000	TIAA Board of Overseers	..N..	
				4796600			Greenwood Resources Colombia SAS	..COL..	..NIA..	GreenWood Resources, Inc.	Ownership..	100.000	TIAA Board of Overseers	..N..	
			47-3156644	4844369			Churchill Asset Management LLC	..DE..	..NIA..	Nuveen Alternative Holdings, LLC	Ownership..	75.000	TIAA Board of Overseers	..N..	
			36-4851864	5083688			CAM HR Resources LLC	..DE..	..NIA..	Nuveen Alternative Holdings, LLC	Ownership..	1.000	TIAA Board of Overseers	..N..	300
			36-4851864	5083688			CAM HR Resources LLC	..DE..	..NIA..	Churchill Asset Management LLC	Ownership..	99.000	TIAA Board of Overseers	..N..	300
			82-3187734				Churchill Agency Services LLC	..DE..	..NIA..	Churchill Asset Management LLC	Ownership..	75.000	TIAA Board of Overseers	..N..	
							Churchill Feeder Fund GP II S.a.r.l.	..LUX..	..NIA..	Churchill Asset Management LLC	Ownership..	100.000	TIAA Board of Overseers	..N..	
			83-1177850				Churchill Fund GP II LLC	..DE..	..NIA..	Churchill Asset Management LLC	Ownership..	100.000	TIAA Board of Overseers	..N..	
			98-1449979				Churchill Fund GP II Sarl	..LUX..	..NIA..	Churchill Asset Management LLC	Ownership..	100.000	TIAA Board of Overseers	..N..	
			82-0735838	5106484			Churchill Special Member LLC	..DE..	..NIA..	Churchill Asset Management LLC	Ownership..	100.000	TIAA Board of Overseers	..N..	
			82-3784145				Churchill Warehouse LLC	..DE..	..NIA..	Churchill Asset Management LLC	Ownership..	100.000	TIAA Board of Overseers	..N..	
							Nuveen Churchill Administration LLC	..DE..	..NIA..	Churchill Asset Management LLC	Ownership..	100.000	TIAA Board of Overseers	..N..	
			81-1817732	5041615			TGAM Churchill Fund GP LLC	..DE..	..NIA..	Churchill Asset Management LLC	Ownership..	100.000	TIAA Board of Overseers	..N..	
			45-5044435	4867658			Global AG AIV (CN) GP, LLC	..DE..	..NIA..	Nuveen Alternative Holdings, LLC	Ownership..	100.000	TIAA Board of Overseers	..N..	
			45-5044681	4867667			Global Agriculture AIV (CN), LP	..DE..	..NIA..	Global AG AIV (CN) GP, LLC	Management		TIAA Board of Overseers	..N..	
			47-1192644	4753564			Global Ag II AIV GP LLC	..DE..	..NIA..	Nuveen Alternative Holdings, LLC	Ownership..	100.000	TIAA Board of Overseers	..N..	

STATEMENT AS OF SEPTEMBER 30, 2019 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? (Y/N)	*
			47-1197292	4754776			Global Agriculture II AIV, LP	DE	NIA	Global Ag II AIV GP LLC	Management		TIAA Board of Overseers	N	
			47-1208361	4866969			GTR Investor Fund GP LLC	DE	NIA	Nuveen Alternative Holdings, LLC	Ownership	100.000	TIAA Board of Overseers	N	
			83-2245173				NAP Investors GP, LLC	DE	NIA	Nuveen Alternative Holdings, LLC	Ownership	100.000	TIAA Board of Overseers	N	
							NCBDC Holdings LLC	DE	NIA	Nuveen Alternative Holdings, LLC	Ownership	100.000	TIAA Board of Overseers	N	
							Nuveen Churchill Advisors LLC	DE	NIA	NCBDC Holdings LLC	Ownership	100.000	TIAA Board of Overseers	N	
			45-4288013	4866941			Nuveen Alternatives Advisors, LLC	DE	NIA	Nuveen Alternative Holdings, LLC	Ownership	100.000	TIAA Board of Overseers	N	
							TPS Investors GP, LLC	DE	NIA	Nuveen Alternatives Advisors, LLC	Ownership	100.000	TIAA Board of Overseers	N	
			45-4288091	4801858			Nuveen Alternatives Services, LLC	DE	NIA	Nuveen Alternative Holdings, LLC	Ownership	100.000	TIAA Board of Overseers	N	
				5041697			GAP II NZ GP Limited	NZL	NIA	Nuveen Alternatives Services, LLC	Ownership	100.000	TIAA Board of Overseers	N	
			98-1310748	5041660			TIAA European Farmland Fund GP LP	CYM	NIA	Nuveen Alternatives Services, LLC	Ownership	50.000	TIAA Board of Overseers	N	400
			47-1515836	4802819			TCAS Global Investments LLC	DE	NIA	Nuveen Alternatives Services, LLC	Ownership	100.000	TIAA Board of Overseers	N	
							Nuveen Global Farmland Fund GP, LLC	DE	NIA	Nuveen Alternative Holdings, LLC	Ownership	100.000	TIAA Board of Overseers	N	
							Nuveen Global Farmland Fund Lux GP S.à r.l.	LUX	NIA	Nuveen Global Farmland Fund GP, LLC	Ownership	100.000	TIAA Board of Overseers	N	
			26-2719001	4313155			Nuveen International Holdings LLC	DE	NIA	Nuveen Alternative Holdings, LLC	Ownership	100.000	TIAA Board of Overseers	N	
				4843296			Nuveen Australia Pty Ltd	AUS	NIA	Nuveen International Holdings LLC	Ownership	100.000	TIAA Board of Overseers	N	
							Nuveen Canada Company	CAN	NIA	Nuveen International Holdings LLC	Ownership	100.000	TIAA Board of Overseers	N	
				4781688			Nuveen Investments Canada Co.	CAN	NIA	Nuveen International Holdings LLC	Ownership	100.000	TIAA Board of Overseers	N	
							Nuveen Japan Co., Limited	JPN	NIA	Nuveen International Holdings LLC	Ownership	100.000	TIAA Board of Overseers	N	
				5040579			Nuveen UK, Limited	GBR	NIA	Nuveen International Holdings LLC	Ownership	100.000	TIAA Board of Overseers	N	
			81-4349631	5079083			TGAM Subsidiary HC LLC	DE	NIA	Nuveen International Holdings LLC	Ownership	100.000	TIAA Board of Overseers	N	
			81-4290269	5079104			TGAM APAC LLC	DE	NIA	TGAM Subsidiary HC LLC	Ownership	33.300	TIAA Board of Overseers	N	500
			81-4323796	5083718			TGAM HK HC LLC	DE	NIA	TGAM APAC LLC	Ownership	25.000	TIAA Board of Overseers	N	600
				4908355			Nuveen Hong Kong Limited	HKG	NIA	TGAM HK HC LLC	Ownership	100.000	TIAA Board of Overseers	N	
			81-4306975	5079113			TGAM Asia LLC	DE	NIA	TGAM Subsidiary HC LLC	Ownership	33.300	TIAA Board of Overseers	N	700
			81-4323796	5083718			TGAM HK HC LLC	DE	NIA	TGAM Asia LLC	Ownership	25.000	TIAA Board of Overseers	N	600
			81-4499397	5079122			TIAA International APAC LLC	DE	NIA	TGAM Subsidiary HC LLC	Ownership	33.300	TIAA Board of Overseers	N	800
			81-4323796	5083718			TGAM HK HC LLC	DE	NIA	TIAA International APAC LLC	Ownership	25.000	TIAA Board of Overseers	N	600
			81-4359164	5079131			TIAA International Asia LLC	DE	NIA	TGAM Subsidiary HC LLC	Ownership	33.300	TIAA Board of Overseers	N	900
			81-4323796	5083718			TGAM HK HC LLC	DE	NIA	TIAA International Asia LLC	Ownership	25.000	TIAA Board of Overseers	N	600
			81-4390558	5079092			TIAA International Subsidiary HC LLC	DE	NIA	Nuveen International Holdings LLC	Ownership	100.000	TIAA Board of Overseers	N	
			81-4290269	5079104			TGAM APAC LLC	DE	NIA	TIAA International Subsidiary HC LLC	Ownership	33.300	TIAA Board of Overseers	N	500
			81-4306975	5079113			TGAM Asia LLC	DE	NIA	TIAA International Subsidiary HC LLC	Ownership	33.300	TIAA Board of Overseers	N	700
			81-4499397	5079122			TIAA International APAC LLC	DE	NIA	TIAA International Subsidiary HC LLC	Ownership	33.300	TIAA Board of Overseers	N	800
			81-4359164	5079131			TIAA International Asia LLC	DE	NIA	TIAA International Subsidiary HC LLC	Ownership	33.300	TIAA Board of Overseers	N	900
			81-4290269	5079104			TGAM APAC LLC	DE	NIA	Nuveen International Holdings LLC	Ownership	33.300	TIAA Board of Overseers	N	500
			81-4306975	5079113			TGAM Asia LLC	DE	NIA	Nuveen International Holdings LLC	Ownership	33.300	TIAA Board of Overseers	N	700
			81-4499397	5079122			TIAA International APAC LLC	DE	NIA	Nuveen International Holdings LLC	Ownership	33.300	TIAA Board of Overseers	N	800
			81-4359164	5079131			TIAA International Asia LLC	DE	NIA	Nuveen International Holdings LLC	Ownership	33.300	TIAA Board of Overseers	N	900
							Nuveen Junior Capital Opportunities Fund GP S.à r.l.	LUX	NIA	Nuveen Alternative Holdings, LLC	Ownership	100.000	TIAA Board of Overseers	N	
			81-4262460	5079074			Nuveen Real Estate Global LLC	DE	NIA	Nuveen Alternative Holdings, LLC	Ownership	100.000	TIAA Board of Overseers	N	
			26-2748598	4601487			Nuveen Global Investments LLC	DE	NIA	Nuveen Real Estate Global LLC	Ownership	100.000	TIAA Board of Overseers	N	
			82-2986445				Nuveen GP Holding Company LLC	DE	NIA	Nuveen Real Estate Global LLC	Ownership	100.000	TIAA Board of Overseers	N	
			82-4598778				Nuveen CRED GP Member LLC	DE	NIA	Nuveen GP Holding Company LLC	Ownership	100.000	TIAA Board of Overseers	N	
			82-3751720				CRED GP LLC	DE	NIA	Nuveen CRED GP Member LLC	Ownership	100.000	TIAA Board of Overseers	N	
			82-4054235				U.S. Cities Retail Fund GP LLC	DE	NIA	Nuveen GP Holding Company LLC	Ownership	100.000	TIAA Board of Overseers	N	
			35-2633108				U.S. Cities Multifamily Fund GP LLC	DE	NIA	Nuveen GP Holding Company LLC	Ownership	100.000	TIAA Board of Overseers	N	
			30-1108455				U.S. Cities Multifamily Fund LP	DE	NIA	U.S. Cities Multifamily Fund GP LLC	Ownership	100.000	TIAA Board of Overseers	N	
			37-1904576				U.S. Cities Multifamily Fund REIT LLC	DE	NIA	U.S. Cities Multifamily Fund LP	Ownership	100.000	TIAA Board of Overseers	N	
							U.S. Cities Multifamily Fund Operating GP LLC	DE	NIA	U.S. Cities Multifamily Fund REIT LLC	Ownership	100.000	TIAA Board of Overseers	N	
			30-1116116				U.S. Cities Multifamily Fund Operating LP	DE	NIA	U.S. Cities Multifamily Fund REIT LLC	Ownership	100.000	TIAA Board of Overseers	N	
			35-2634607				USCMF Avion on Legacy LLC	DE	NIA	U.S. Cities Multifamily Fund Operating LP	Ownership	100.000	TIAA Board of Overseers	N	
			83-2344355				USCMF Boulder Creek LLC	DE	NIA	U.S. Cities Multifamily Fund Operating LP	Ownership	100.000	TIAA Board of Overseers	N	
			83-2434879												

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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			83-2486856				USCMF District at Washington LLCDE	NIA.....	U.S. Cities Multifamily Fund Operating LP	Ownership.....	100.000	TIAA Board of OverseersN	
			84-2777845				USCMF Flux LLCDE	NIA.....	U.S. Cities Multifamily Fund Operating LP	Ownership.....	100.000	TIAA Board of OverseersN	
			83-2447368				USCMF Gramercy at Buckhead LLCDE	NIA.....	U.S. Cities Multifamily Fund Operating LP	Ownership.....	100.000	TIAA Board of OverseersN	
			84-3022082				USCMF Junction Flats LLCDE	NIA.....	U.S. Cities Multifamily Fund Operating LP	Ownership.....	100.000	TIAA Board of OverseersN	
			83-2531960				USCMF Marshall Park LLCDE	NIA.....	U.S. Cities Multifamily Fund Operating LP	Ownership.....	100.000	TIAA Board of OverseersN	
			83-2409099				USCMF Metro 112 LLCDE	NIA.....	U.S. Cities Multifamily Fund Operating LP	Ownership.....	100.000	TIAA Board of OverseersN	
			83-2422984				USCMF Stoneledge LLCDE	NIA.....	U.S. Cities Multifamily Fund Operating LP	Ownership.....	100.000	TIAA Board of OverseersN	
			83-2515243				USCMF The Matisse LLCDE	NIA.....	U.S. Cities Multifamily Fund Operating LP	Ownership.....	100.000	TIAA Board of OverseersN	
			83-2459693				USCMF The Reserve at Tysons Corner LLCDE	NIA.....	U.S. Cities Multifamily Fund Operating LP	Ownership.....	100.000	TIAA Board of OverseersN	
			81-5466713	5157909			Nuveen Permian Investor Asset Manager Member LLCDE	NIA.....	Nuveen Real Estate Global LLC	Ownership.....	100.000	TIAA Board of OverseersN	
							Nuveen Permian Investor Asset Manager			Nuveen Permian Investor Asset Manager					
			82-0631410				Permian Investor Asset Manager LLCDE	NIA.....	Member LLC	Ownership.....	50.000	TIAA Board of OverseersN	
			82-0607358	5137929			Nuveen Permian Investor GP Member LLCDE	NIA.....	Nuveen Real Estate Global LLC	Ownership.....	100.000	TIAA Board of OverseersN	
			81-5433582	5140303			Permian Investor GP LLCDE	NIA.....	Nuveen Permian Investor GP Member LLC	Ownership.....	50.000	TIAA Board of OverseersN	
							Nuveen Real Estate Global Cities Advisors LLC			Nuveen Real Estate Global Cities Advisors LLC					
			82-3426937					.DE	NIA.....	Nuveen Real Estate Global LLC	Ownership.....	100.000	TIAA Board of OverseersN	
			46-1162850	4617620			TIAA International Holdings 1 LimitedGBR	NIA.....	Nuveen Real Estate Global LLC	Ownership.....	100.000	TIAA Board of OverseersN	
			46-1163394	4617639			TIAA International Holdings 2 LimitedGBR	NIA.....	Nuveen Real Estate Global LLC	Ownership.....	100.000	TIAA Board of OverseersN	
				4618074			TIAA International Holdings 3 LimitedGBR	NIA.....	TIAA International Holdings 2 Limited	Ownership.....	100.000	TIAA Board of OverseersN	
			98-1125673	4617705			Nuveen Real Estate LimitedGBR	NIA.....	TIAA International Holdings 3 Limited	Ownership.....	99.000	TIAA Board of OverseersN	1000
			98-1125673	4617705			Nuveen Real Estate LimitedGBR	NIA.....	TIAA International Holdings 1 Limited	Ownership.....	1.000	TIAA Board of OverseersN	1000
			98-1127648	4618195			Nuveen Administration LtdGBR	NIA.....	Nuveen Real Estate Limited	Ownership.....	100.000	TIAA Board of OverseersN	
			98-1128905	4618216			Nuveen Europe Holdings LimitedGBR	NIA.....	Nuveen Real Estate Limited	Ownership.....	100.000	TIAA Board of OverseersN	
				4715955			Henderson European Retail Property Fund Management SarlLUX	NIA.....	Nuveen Europe Holdings Limited	Ownership.....	94.900	TIAA Board of OverseersN	
							Nuveen Alternatives Europe S.à.r.lLUX	NIA.....	Nuveen Europe Holdings Limited	Ownership.....	100.000	TIAA Board of OverseersN	
							Nuveen Asset Management Europe S.à.r.lLUX	NIA.....	Nuveen Europe Holdings Limited	Ownership.....	100.000	TIAA Board of OverseersN	
				4715937			Nuveen Fund (Europe) Management SarlLUX	NIA.....	Nuveen Europe Holdings Limited	Ownership.....	100.000	TIAA Board of OverseersN	
				4716756			Nuveen Fund Management (Jersey) LimitedJEY	NIA.....	Nuveen Europe Holdings Limited	Ownership.....	100.000	TIAA Board of OverseersN	
							Nuveen Fund Management Vanquish (Jersey) LimitedJEY	NIA.....	Nuveen Fund Management (Jersey) Limited	Ownership.....	100.000	TIAA Board of OverseersN	
				4841331			Nuveen Fund Management Vanquish II (Jersey) LimitedJEY	NIA.....	Nuveen Fund Management (Jersey) Limited	Ownership.....	100.000	TIAA Board of OverseersN	
				4841322			Asia Pacific Cities Management SarlLUX	NIA.....	Nuveen Europe Holdings Limited	Ownership.....	100.000	TIAA Board of OverseersN	
				4715964			Nuveen Management AIFM LimitedGBR	NIA.....	Nuveen Europe Holdings Limited	Ownership.....	100.000	TIAA Board of OverseersN	
				4716774			Nuveen Management Company (Luxembourg) No 1 SarlLUX	NIA.....	Nuveen Europe Holdings Limited	Ownership.....	94.900	TIAA Board of OverseersN	
				4715946			Nuveen Property Management (Jersey) LimitedJEY	NIA.....	Nuveen Europe Holdings Limited	Ownership.....	100.000	TIAA Board of OverseersN	
				4716765			Nuveen Real Estate Services GmbH (Austria)AUT	NIA.....	Nuveen Europe Holdings Limited	Ownership.....	100.000	TIAA Board of OverseersN	
			98-1128787	4618243			Nuveen FCACO LtdGBR	NIA.....	Nuveen Real Estate Limited	Ownership.....	100.000	TIAA Board of OverseersN	
				4716783			Nuveen Real Estate Management LtdGBR	NIA.....	Nuveen FCACO Ltd	Ownership.....	100.000	TIAA Board of OverseersN	
				4716868			Nuveen Shopping Centre Verwaltungs GmbHDEU	NIA.....	Nuveen Real Estate Management Ltd	Ownership.....	100.000	TIAA Board of OverseersN	
			98-0582851	4313182			TIAA-CREF Asset Management UK LimitedGBR	NIA.....	Nuveen FCACO Ltd	Ownership.....	100.000	TIAA Board of OverseersN	
			98-1127632	4618261			Nuveen Group Holdings LtdGBR	NIA.....	Nuveen Real Estate Limited	Ownership.....	100.000	TIAA Board of OverseersN	
				4715900			AREFM (BVI) LimitedGBR	NIA.....	Nuveen Group Holdings Ltd	Influence.....		TIAA Board of OverseersN	
				4715311			CLOF II (GP) LimitedGBR	NIA.....	Nuveen Group Holdings Ltd	Ownership.....	100.000	TIAA Board of OverseersN	
				5154010			CLOF II Vanquish LimitedJEY	NIA.....	CLOF II (GP) Limited	Ownership.....	100.000	TIAA Board of OverseersN	
				4715263			CLOF II (No 1 GP) LimitedGBR	NIA.....	Nuveen Group Holdings Ltd	Ownership.....	100.000	TIAA Board of OverseersN	
				4841304			CLOF II (No1 Nominee) LimitedGBR	NIA.....	CLOF II (No 1 GP) Limited	Ownership.....	100.000	TIAA Board of OverseersN	
				4715281			CLOF II (No 2 GP) LimitedGBR	NIA.....	Nuveen Group Holdings Ltd	Ownership.....	100.000	TIAA Board of OverseersN	
			98-1165678	4715302			CLOF II (No 3 GP) LimitedGBR	NIA.....	Nuveen Group Holdings Ltd	Ownership.....	100.000	TIAA Board of OverseersN	
				4908328			Enhanced Debt Carry (GP) SarlLUX	NIA.....	Nuveen Group Holdings Ltd	Ownership.....	100.000	TIAA Board of OverseersN	
				4971863			Enhanced Debt Carry SCSpLUX	NIA.....	Enhanced Debt Carry (GP) Sarl	Ownership.....	100.000	TIAA Board of OverseersN	

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? (Y/N)	*
				5147003			ERES APAC II (GP) S.à.r.l	.LUX	NIA	Nuveen Group Holdings Ltd	Ownership	100.000	TIAA Board of Overseers	.N	
				4949116			European Cities Partnership (GP) S.a.r.l.	.LUX	NIA	Nuveen Group Holdings Ltd	Ownership	100.000	TIAA Board of Overseers	.N	
							European Cities Partnership SCSp	.LUX	NIA	European Cities Partnership (GP) S.a.r.l.	Influence		TIAA Board of Overseers	.N	1100
							Henderson Joint Ventures Property Funds Management Sarl	.LUX	NIA	Nuveen Group Holdings Ltd	Ownership	100.000	TIAA Board of Overseers	.N	
				4715227			Islazul General Partner Sarl	.LUX	NIA	Nuveen Group Holdings Ltd	Ownership	100.000	TIAA Board of Overseers	.N	
				4841247			Matador LP General Partner Limited	.GBR	NIA	Nuveen Group Holdings Ltd	Ownership	100.000	TIAA Board of Overseers	.N	
				4715245			Nuveen Beteiligung Verwaltungs GmbH	.DEU	NIA	Nuveen Group Holdings Ltd	Ownership	100.000	TIAA Board of Overseers	.N	
				4715366			Nuveen Immobilien GmbH	.DEU	NIA	Nuveen Group Holdings Ltd	Influence		TIAA Board of Overseers	.N	
				4715898			Anglo-Sino Henderson Investment Consultancy (Beijing) Co Limited	.CHN	NIA	Nuveen Group Holdings Ltd	Ownership	100.000	TIAA Board of Overseers	.N	
				4844015			Nuveen Consulting (Shanghai) Co Ltd	.CHN	NIA	Nuveen Group Holdings Ltd	Ownership	100.000	TIAA Board of Overseers	.N	
				4912763			Nuveen Management Austria GmbH	.AUT	NIA	Nuveen Group Holdings Ltd	Ownership	65.000	TIAA Board of Overseers	.N	
				4715357			Nuveen Management Finland Oy	.FIN	NIA	Nuveen Group Holdings Ltd	Ownership	100.000	TIAA Board of Overseers	.N	
				4841256			Nuveen Real Estate Debt Partners (GP) Sarl	.LUX	NIA	Nuveen Group Holdings Ltd	Ownership	100.000	TIAA Board of Overseers	.N	
							Nuveen Real Estate Debt Partners II (GP) S.à.r.l	.LUX	NIA	Nuveen Group Holdings Ltd	Ownership	100.000	TIAA Board of Overseers	.N	
				5134816			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 Overseers	.N	1200
				4715348			Nuveen Real Estate Nominees Limited	.GBR	NIA	Nuveen Group Holdings Ltd	Ownership	100.000	TIAA Board of Overseers	.N	
				4715919			Nuveen Singapore Private Limited	.SGP	NIA	Nuveen Group Holdings Ltd	Ownership	100.000	TIAA Board of Overseers	.N	
				4715254			OMP (GP) Limited	.GBR	NIA	Nuveen Group Holdings Ltd	Ownership	100.000	TIAA Board of Overseers	.N	
				4901235			T-C Lux Investments GP Sarl	.LUX	NIA	Nuveen Group Holdings Ltd	Ownership	100.000	TIAA Board of Overseers	.N	
				4841265			Nuveen Real Estate (Australia) Ltd.	.AUS	NIA	Nuveen Group Holdings Ltd	Ownership	100.000	TIAA Board of Overseers	.N	
				4715236			Nuveen (France) SAS	.FRA	NIA	Nuveen Group Holdings Ltd	Ownership	100.000	TIAA Board of Overseers	.N	
							TH Real Estate Limited	.GBR	NIA	Nuveen Group Holdings Ltd	Ownership	100.000	TIAA Board of Overseers	.N	
				4908337			TH Real Estate PELV GP Sarl	.LUX	NIA	Nuveen Group Holdings Ltd	Ownership	100.000	TIAA Board of Overseers	.N	
							Nuveen Corporate Secretarial Services Limited								
				4747059			Nuveen Italy Srl	.GBR	NIA	Nuveen Group Holdings Ltd	Ownership	100.000	TIAA Board of Overseers	.N	
				4901244			Nuveen Operations Limited	.ITA	NIA	Nuveen Group Holdings Ltd	Ownership	100.000	TIAA Board of Overseers	.N	
				4747152			TIAA-CREF Luxembourg S.a.r.l.	.GBR	NIA	Nuveen Group Holdings Ltd	Ownership	100.000	TIAA Board of Overseers	.N	
			98-1014834	4617675			Tokyo Multifamily GP PTE Ltd	.LUX	NIA	Nuveen Group Holdings Ltd	Ownership	100.000	TIAA Board of Overseers	.N	
				4715272			UK OM (LP1) (GP) Limited	.LUX	NIA	Nuveen Group Holdings Ltd	Ownership	100.000	TIAA Board of Overseers	.N	
				4841292			UK OM (LP1) Limited	.GBR	NIA	Nuveen Group Holdings Ltd	Ownership	100.000	TIAA Board of Overseers	.N	
				4715290			UK OM (LP2) (GP) Limited	.GBR	NIA	Nuveen Group Holdings Ltd	Ownership	100.000	TIAA Board of Overseers	.N	
				4841283			UK OM (LP2) Limited	.GBR	NIA	UK OM (LP2) (GP) Limited	Ownership	100.000	TIAA Board of Overseers	.N	
				4715320			UK OM (LP3) (GP) Limited	.GBR	NIA	Nuveen Group Holdings Ltd	Ownership	100.000	TIAA Board of Overseers	.N	
				4841274			UK OM (LP3) Limited	.GBR	NIA	UK OM (LP3) (GP) Limited	Ownership	100.000	TIAA Board of Overseers	.N	
							Nuveen Real Estate NYC Property Fund GP Member LLC	.DE	NIA	Nuveen Alternative Holdings, LLC	Ownership	100.000	TIAA Board of Overseers	.N	
			82-4266474				New York City Property Fund GP LLC	.DE	NIA	Nuveen Real Estate NYC Property Fund GP Member LLC	Ownership	50.000	TIAA Board of Overseers	.N	
			82-4213248				New York City Property Fund (T) LP	.DE	NIA	New York City Property Fund GP LLC	Ownership	100.000	TIAA Board of Overseers	.N	
			83-2335230				NYC Property Fund (T) Blocker 1, LLC	.DE	NIA	New York City Property Fund (T) LP	Ownership	100.000	TIAA Board of Overseers	.N	
			83-4678924				New York City Property Fund LP	.DE	NIA	New York City Property Fund GP LLC	Ownership	100.000	TIAA Board of Overseers	.N	
			82-4183425				NYC Property Fund Pooling LP	.DE	NIA	New York City Property Fund LP	Ownership	100.000	TIAA Board of Overseers	.N	
			83-4671194				NYC Property Fund SPV 1 LLC	.DE	NIA	NYC Property Fund Pooling LP	Ownership	100.000	TIAA Board of Overseers	.N	
			83-4653622				NYC Property Fund SPV 2 LLC	.DE	NIA	NYC Property Fund Pooling LP	Ownership	100.000	TIAA Board of Overseers	.N	
			83-4701919				Nuveen Real Estate Property Holdings L.L.C.	.DE	NIA	Nuveen Alternative Holdings, LLC	Ownership	100.000	TIAA Board of Overseers	.N	
			06-1217855	4680325				.DE	NIA	Nuveen Real Estate Property Holdings L.L.C.	Ownership	100.000	TIAA Board of Overseers	.N	
			06-1384746	4900359			Casa Grande Investments I, LLC	.DE	NIA		Ownership	100.000	TIAA Board of Overseers	.N	

STATEMENT AS OF SEPTEMBER 30, 2019 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 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? (Y/N)	*
			01-0588041	4900386			Casa Grande Investments II, LP	IL	NIA	Nuveen Real Estate Property Holdings L.L.C.	Ownership	100.000	TIAA Board of Overseers	N	
			30-0794692	4683559			Casa Partners VI GP, LLC	DE	NIA	Nuveen Real Estate Property Holdings L.L.C.	Ownership	100.000	TIAA Board of Overseers	N	
			47-5190671	4912772			Casa Partners VII GP, LLC	DE	NIA	Nuveen Real Estate Property Holdings L.L.C.	Ownership	100.000	TIAA Board of Overseers	N	
			82-4363605				CASA Partners VIII GP, LLC	DE	NIA	Nuveen Real Estate Property Holdings L.L.C.	Ownership	100.000	TIAA Board of Overseers	N	
			36-4477806	4681797			Global Investors GP, L.L.C.	DE	NIA	Nuveen Real Estate Property Holdings L.L.C.	Ownership	100.000	TIAA Board of Overseers	N	
			20-2537749	4681809			Global Investors GP II, L.L.C.	DE	NIA	Nuveen Real Estate Property Holdings L.L.C.	Ownership	100.000	TIAA Board of Overseers	N	
			20-3070768	4681818			Global Investors GP IV, L.L.C.	DE	NIA	Nuveen Real Estate Property Holdings L.L.C.	Ownership	100.000	TIAA Board of Overseers	N	
			81-2388576	5193381			Nuveen Real Estate U.S. Strategic Industrial Fund I GP, LLC	DE	NIA	Nuveen Alternative Holdings, LLC	Ownership	100.000	TIAA Board of Overseers	N	
			46-5367344	4747170			TCGA BT AIV, LLC	DE	NIA	Nuveen Alternative Holdings, LLC	Ownership	100.000	TIAA Board of Overseers	N	
			45-5139523	4867368			TCGA Investor Fund GP, LLC	DE	NIA	Nuveen Alternative Holdings, LLC	Ownership	100.000	TIAA Board of Overseers	N	
			47-3511076	4843278			TCGA II Investor Fund GP, LLC	DE	NIA	Nuveen Alternative Holdings, LLC	Ownership	100.000	TIAA Board of Overseers	N	
			81-4330570				TGAM International GP LLC	DE	NIA	Nuveen Alternative Holdings, LLC	Ownership	100.000	TIAA Board of Overseers	N	
			45-1532009	4801867			TIAA Global Ag Special Member LLC	DE	NIA	Nuveen Alternative Holdings, LLC	Ownership	100.000	TIAA Board of Overseers	N	
			81-1749609	4843287			TIAA Global Ag II Special Member LLC	DE	NIA	Nuveen Alternative Holdings, LLC	Ownership	100.000	TIAA Board of Overseers	N	
			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 Overseers	N	
			20-1394681	4314255			U.S. Cities Fund GP, LLC	DE	NIA	Nuveen Alternative Holdings, LLC	Ownership	100.000	TIAA Board of Overseers	N	
			81-3647870	5116607			U.S. Cities Industrial CPF Fund GP LLC	DE	NIA	Nuveen Alternative Holdings, LLC	Ownership	100.000	TIAA Board of Overseers	N	
							U.S. Cities Industrial Fund GP LLC	DE	NIA	Nuveen Alternative Holdings, LLC	Ownership	100.000	TIAA Board of Overseers	N	
							U.S. Cities Industrial Fund LP	DE	NIA	U.S. Cities Industrial Fund GP LLC	Ownership	100.000	TIAA Board of Overseers	N	
							U.S. Cities Industrial Fund REIT LLC	DE	NIA	U.S. Cities Industrial Fund LP	Ownership	100.000	TIAA Board of Overseers	N	
							U.S. Cities Industrial Fund Operating GP LLC		NIA	U.S. Cities Industrial Fund REIT LLC	Ownership	100.000	TIAA Board of Overseers	N	
							U.S. Cities Industrial Fund Operating LP	DE	NIA	U.S. Cities Industrial Fund REIT LLC	Ownership	100.000	TIAA Board of Overseers	N	
			84-2961820				USCIF Aurora LLC	DE	NIA	U.S. Cities Industrial Fund Operating LP	Ownership	100.000	TIAA Board of Overseers	N	
			84-2962162				USCIF Bedford Park LLC	DE	NIA	U.S. Cities Industrial Fund Operating LP	Ownership	100.000	TIAA Board of Overseers	N	
			84-2962252				USCIF Maple Point LLC	DE	NIA	U.S. Cities Industrial Fund Operating LP	Ownership	100.000	TIAA Board of Overseers	N	
			84-2056343				USCIF Tri City Industrial LLC	DE	NIA	U.S. Cities Industrial Fund Operating LP	Ownership	100.000	TIAA Board of Overseers	N	
			81-3698954	5116616			U.S. Cities Multifamily CPF Fund GP LLC	DE	NIA	Nuveen Alternative Holdings, LLC	Ownership	100.000	TIAA Board of Overseers	N	
			81-3734470	5116625			U.S. Cities Office CPF Fund GP LLC	DE	NIA	Nuveen Alternative Holdings, LLC	Ownership	100.000	TIAA Board of Overseers	N	
			81-3493929	5057652			U.S. Cities Retail CPF Fund GP LLC	DE	NIA	Nuveen Alternative Holdings, LLC	Ownership	100.000	TIAA Board of Overseers	N	
							Westchester Group Investment Management								
			27-3416812	4312916			Holding Company, Inc.	DE	NIA	Nuveen Alternative Holdings, LLC	Ownership	100.000	TIAA Board of Overseers	N	
							Westchester Group Investment Management, Inc.								
			27-3417683	4312925				DE	NIA	Westchester Group Investment Management Holding Company, Inc.	Ownership	90.000	TIAA Board of Overseers	N	
										Westchester Group Investment Management, Inc.					
			26-0352314				International Agricultural Management, LLC	DE	NIA		Ownership	50.000	TIAA Board of Overseers	N	
										Westchester Group Investment Management, Inc.					
			87-0735518	4746977			Plata Wine Partners, LLC	CA	NIA		Management		TIAA Board of Overseers	N	
							Premiere Agricultural Management			Westchester Group Investment Management, Inc.					
			26-2747489	4634038			International, LLC	DE	NIA		Ownership	86.700	TIAA Board of Overseers	N	
										Westchester Group Investment Management, Inc.					
			37-1261935	4617693			Terra Land Co.	IL	NIA		Ownership	100.000	TIAA Board of Overseers	N	
										Westchester Group Investment Management, Inc.					
			37-6589484	4747200			The Plata Wine Partners Trust	CA	NIA		Ownership	100.000	TIAA Board of Overseers	N	
										Westchester Group Investment Management, Inc.					
			37-1193972	4618122			Westchester Group Asset Management, Inc.	IL	NIA		Ownership	100.000	TIAA Board of Overseers	N	

STATEMENT AS OF SEPTEMBER 30, 2019 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
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			37-1193973	4618186			Westchester Group Farm Management, Inc.	IL	NIA	Westchester Group Investment Management, Inc.	Ownership	100.000	TIAA Board of Overseers	N	
				4618207			Westchester Group of Australia Pty Ltd.	AUS	NIA	Westchester Group Investment Management, Inc.	Ownership	100.000	TIAA Board of Overseers	N	
				4794482			Westchester Group of Europe Ltd.	GBR	NIA	Westchester Group Investment Management, Inc.	Ownership	100.000	TIAA Board of Overseers	N	
							Westchester Group SRL	ROU	NIA	Westchester Group of Europe Ltd.	Ownership	99.000	TIAA Board of Overseers	N	1300
			4914730				Westchester Group of Poland Sp. Z.o.o.	POL	NIA	Westchester Group of Europe Ltd.	Ownership	100.000	TIAA Board of Overseers	N	
							Westchester Group SRL	ROU	NIA	Westchester Group of Poland Sp. Z.o.o.	Ownership	1.000	TIAA Board of Overseers	N	1300
										Westchester Group Investment Management, Inc.					
			37-1194491	4618225			Westchester Group Real Estate, Inc.	IL	NIA	Inc.	Ownership	100.000	TIAA Board of Overseers	N	
							Westchester Group South America Gestao de Investimentos Ltda.	BRA	NIA	Westchester Group Real Estate, Inc.	Ownership	1.000	TIAA Board of Overseers	N	1400
							Westchester Group South America Gestao de Investimentos Ltda.	BRA	NIA	Westchester Group Investment Management, Inc.	Ownership	99.000	TIAA Board of Overseers	N	1400
			47-1563437	4749941			Nuveen Finance, LLC	DE	NIA	Nuveen, LLC	Ownership	100.000	TIAA Board of Overseers	N	
			81-3425820	5110025			Nuveen Holdings 1, Inc.	DE	NIA	Nuveen Finance, LLC	Ownership	100.000	TIAA Board of Overseers	N	
			26-0373324	4767758			Nuveen Holdings, Inc.	DE	NIA	Nuveen Holdings 1, Inc.	Ownership	100.000	TIAA Board of Overseers	N	
			36-3817266	3707551	885708		Nuveen Investments, Inc.	DE	NIA	Nuveen Holdings, Inc.	Ownership	100.000	TIAA Board of Overseers	N	
			26-0627593	4774710			Gresham Asset Management LLC	DE	NIA	Nuveen Investments, Inc.	Ownership	78.900	TIAA Board of Overseers	N	
			20-1930384	4349828			Gresham Investment Management LLC	DE	NIA	Nuveen Investments, Inc.	Ownership	78.900	TIAA Board of Overseers	N	
							Gresham Investment Management Asia Pte. Ltd.	SGP	NIA	Gresham Investment Management LLC	Ownership	100.000	TIAA Board of Overseers	N	
				4781941											
			36-4839486	5153992			Nuveen Alternative Investments, LLC	DE	NIA	Nuveen Investments, Inc.	Ownership	100.000	TIAA Board of Overseers	N	
			83-3751978				Nuveen Capital Markets LLC	DE	NIA	Nuveen Investments, Inc.	Ownership	100.000	TIAA Board of Overseers	N	
			83-4025630				Symphony Alternative Asset Management LLC	DE	NIA	Nuveen Capital Markets LLC	Ownership	100.000	TIAA Board of Overseers	N	
			31-0942504	4774792	1311016		Nuveen Fund Advisors, LLC	DE	NIA	Nuveen Investments, Inc.	Ownership	100.000	TIAA Board of Overseers	N	
			27-4357327	4781624	1521019		Nuveen Asset Management, LLC	DE	NIA	Nuveen Fund Advisors, LLC	Ownership	100.000	TIAA Board of Overseers	N	
			36-3293941				NIS/R&T, Inc.	IL	NIA	Nuveen Investments, Inc.	Ownership	100.000	TIAA Board of Overseers	N	
			37-1695518	4774831	1602161		Nuveen WCM Holdings, LLC	DE	NIA	Nuveen Investments, Inc.	Ownership	100.000	TIAA Board of Overseers	N	
			90-0860898	4776527	900973		Winslow Capital Management, LLC	DE	NIA	Nuveen WCM Holdings, LLC	Ownership	100.000	TIAA Board of Overseers	N	
			81-0730906	5147021			Growth Capital GP I, LLC	DE	NIA	Winslow Capital Management, LLC	Ownership	100.000	TIAA Board of Overseers	N	
			36-4709028	4774868	1602171		Nuveen NIQ Holdings, LLC	DE	NIA	Nuveen Investments, Inc.	Ownership	100.000	TIAA Board of Overseers	N	
			30-0892190	4981189	1661847		NIQ Partners, LLC	DE	NIA	Nuveen NIQ Holdings, LLC	Ownership	100.000	TIAA Board of Overseers	N	
			47-0875103	4776518	763848		NIQ Investment Management Company, LLC	DE	NIA	NIQ Partners, LLC	Ownership	100.000	TIAA Board of Overseers	N	
			36-2639476	4775137	73387		Nuveen Securities, LLC	DE	NIA	Nuveen Investments, Inc.	Ownership	100.000	TIAA Board of Overseers	N	
			20-3432117	4774822	1109426		Santa Barbara Asset Management, LLC	DE	NIA	Nuveen Investments, Inc.	Ownership	100.000	TIAA Board of Overseers	N	
			94-3252504	4774813	1030815		Symphony Asset Management LLC	CA	NIA	Nuveen Investments, Inc.	Ownership	51.000	TIAA Board of Overseers	N	1500
			36-7364377	4774783			Nuveen Investments Holdings, Inc.	DE	NIA	Nuveen Investments, Inc.	Ownership	100.000	TIAA Board of Overseers	N	
			94-3252504	4774813	1030815		Symphony Asset Management LLC	CA	NIA	Nuveen Investments Holdings, Inc.	Ownership	49.000	TIAA Board of Overseers	N	1500
							Symphony Risk Retention Finance LLC	DE	NIA	Symphony Asset Management LLC	Ownership	100.000	TIAA Board of Overseers	N	
			30-1032009				SRR 1 LLC	DE	NIA	Symphony Risk Retention Finance LLC	Ownership	51.000	TIAA Board of Overseers	N	
			13-3760073	4313306	939222		Teachers Advisors, LLC	DE	NIA	Nuveen Finance, LLC	Ownership	100.000	TIAA Board of Overseers	N	
			82-1157427				ColInvest Member LLC	DE	NIA	Teachers Advisors, LLC	Ownership	100.000	TIAA Board of Overseers	N	
							CLO ColInvest I LLC	DE	NIA	Teachers Advisors, LLC	Ownership	100.000	TIAA Board of Overseers	N	
										Teachers Insurance and Annuity Association of America					
			13-3987258	4599052			485 Properties, LLC	DE	NIA	of America	Ownership	100.000	TIAA Board of Overseers	N	
			13-3371278	4601094			JWL Properties, Inc.	DE	NIA	485 Properties, LLC	Ownership	100.000	TIAA Board of Overseers	N	
			16-1735872	4601209			TCPC Associates, LLC	DE	NIA	485 Properties, LLC	Ownership	100.000	TIAA Board of Overseers	N	
										Teachers Insurance and Annuity Association of America					
			81-3091169	5026603			730 Data Centers, LLC	DE	NIA	of America	Ownership	100.000	TIAA Board of Overseers	N	
			82-0793232	5154029			730 Aviator, LLC	DE	NIA	730 Data Centers, LLC	Ownership	100.000	TIAA Board of Overseers	N	
			81-3106043	5036303			730 Databridge, LLC	DE	NIA	730 Data Centers, LLC	Ownership	100.000	TIAA Board of Overseers	N	

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? (Y/N)	*
			47-2616735	4801719			730 Power Development, LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Overseers	N	
			47-2622825	4810784			730 Carroll, LLC	DE	NIA	730 Power Development, LLC	Ownership	100.000	TIAA Board of Overseers	N	
			4949107				730 Cricket, LLC	DE	NIA	730 Power Development, LLC	Ownership	100.000	TIAA Board of Overseers	N	
			47-5363027	4936116			730 Telecom LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Overseers	N	
			13-4042885	4599801			730 Texas Forest Holdings, Inc.	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Overseers	Y	
			51-0494351	4599838			730 Texas Timberlands II, Ltd.	TX	NIA	Teachers Insurance and Annuity Association of America	Ownership	99.500	TIAA Board of Overseers	N	1600
			51-0494351	4599838			730 Texas Timberlands II, Ltd.	TX	NIA	730 Texas Forest Holdings, Inc.	Ownership	0.500	TIAA Board of Overseers	N	1600
			13-4040842	4601722			TIAA Timberlands I, LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Overseers	N	
			13-4085431	4601740			TIAA Timberlands II, LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Overseers	N	
			13-4042888	4601713			730 Texas Timberlands, Ltd.	TX	NIA	TIAA Timberlands I, LLC	Ownership	99.500	TIAA Board of Overseers	N	1700
			13-4042888	4601713			730 Texas Timberlands, Ltd.	TX	NIA	730 Texas Forest Holdings, Inc.	Ownership	0.500	TIAA Board of Overseers	N	1700
			38-3847245	4602840			Actoil, LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Overseers	N	
			46-3373066	4602916			Actoil Colorado, LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Overseers	N	
				4651521			Great Western Petroleum LLC	DE	NIA	Actoil Colorado, LLC	Influence		TIAA Board of Overseers	N	
			45-2285816	4860501			Almond Processors, LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Overseers	N	
				4747134			ASC Holdings, LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Influence		TIAA Board of Overseers	N	
			46-1952974	4599940			Broadleaf Timberland Investments, LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Overseers	N	
			26-4647417	4601768			Quercus Forestland Account, LLC	NC	NIA	Broadleaf Timberland Investments, LLC	Ownership	99.000	TIAA Board of Overseers	N	
				4618346			Quercus Panama, LLC	DE	NIA	Quercus Forestland Account, LLC	Ownership	100.000	TIAA Board of Overseers	N	
				4651503			Quercus Algoma Corporation	CAN	NIA	Quercus Forestland Account, LLC	Ownership	100.000	TIAA Board of Overseers	N	
				4860538			Quercus Algoma Land Corporation	CAN	NIA	Quercus Algoma Corporation	Ownership	100.000	TIAA Board of Overseers	N	
			46-2916514	4613426			Quercus West Virginia, LLC	DE	NIA	Quercus Forestland Account, LLC	Ownership	99.900	TIAA Board of Overseers	N	
			47-2167228	4776451			Casa Student Housing Fund Holdings, LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Overseers	N	
			47-3994280	4865047			Shf-33d North Apts, LLC	DE	NIA	Casa Student Housing Fund Holdings, LLC	Ownership	100.000	TIAA Board of Overseers	N	
			47-4155469	4865056			Shf-Millennium One Apts, LLC	DE	NIA	Casa Student Housing Fund Holdings, LLC	Ownership	100.000	TIAA Board of Overseers	N	
			81-2450195	4990958			Shf-The Rocks Apts, LLC	DE	NIA	Casa Student Housing Fund Holdings, LLC	Ownership	100.000	TIAA Board of Overseers	N	
			47-4455610	4990967			PEP-TH CASA Student Housing, LLC	DE	NIA	Casa Student Housing Fund Holdings, LLC	Ownership	90.000	TIAA Board of Overseers	N	
			47-4455303	5194418			CSHF-PEP Purdue LLC	DE	NIA	PEP-TH CASA Student Housing, LLC	Ownership	100.000	TIAA Board of Overseers	N	
			30-0965548	5195237			CSHF-PEP USF LLC	DE	NIA	PEP-TH CASA Student Housing, LLC	Ownership	100.000	TIAA Board of Overseers	N	
			13-1624203	4600015			CCM Series, LLC	DE	NIA	Casa Student Housing Fund Holdings, LLC	Ownership	100.000	TIAA Board of Overseers	N	
			47-4069196	4899604			CCAP Fund 6 - 2015, L.P.	DE	NIA	CCM Series, LLC	Ownership	87.500	TIAA Board of Overseers	N	
			81-1205888	5010648			CCAP Fund 6 - 2016, L.P.	DE	NIA	CCM Series, LLC	Ownership	97.800	TIAA Board of Overseers	N	
			81-4732595	5183485			CCAP Fund 6 - 2017, L.P.	DE	NIA	CCM Series, LLC	Ownership	91.100	TIAA Board of Overseers	N	
			82-3167398				CCAP FUND 6 - 2018, L.P.	DE	NIA	CCM Series, LLC	Ownership	100.000	TIAA Board of Overseers	N	
			83-2787412				CCAP FUND 6 - 2019, L.P.	DE	NIA	CCM Series, LLC	Ownership	100.000	TIAA Board of Overseers	N	
			84-2867753				CCAP Fund 6 - 2020, LP	DE	NIA	CCM Series, LLC	Ownership	100.000	TIAA Board of Overseers	N	
			47-4079472	4899613			CCAP Fund 8 - 2015, L.P.	DE	NIA	CCM Series, LLC	Ownership	92.100	TIAA Board of Overseers	N	
			81-1212188	5010639			CCAP Fund 8 - 2016, L.P.	DE	NIA	CCM Series, LLC	Ownership	90.900	TIAA Board of Overseers	N	
			81-3718876	5047596			CCAP Fund 8 - 2017, L.P.	DE	NIA	CCM Series, LLC	Ownership	91.600	TIAA Board of Overseers	N	
			82-3182368				CCAP FUND 8 - 2018, L.P.	DE	NIA	CCM Series, LLC	Ownership	100.000	TIAA Board of Overseers	N	
			83-2793857				CCAP FUND 8 - 2019, L.P.	DE	NIA	CCM Series, LLC	Ownership	100.000	TIAA Board of Overseers	N	
			81-0784669	4990882			CCAP Fund GE, L.P.	DE	NIA	CCM Series, LLC	Ownership	89.000	TIAA Board of Overseers	N	

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? (Y/N)	*
			81-0821374 81-0758188	4990903 4990891			CCAP Fund HFD, L.P. CCAP Fund HFND, L.P.	DE DE	NIA NIA	CCM Series, LLC CCM Series, LLC	Ownership Ownership	98.600 93.600	TIAA Board of Overseers TIAA Board of Overseers	N N	
			13-1624203 81-0753491	4600024 4990930			CCM Series 2, LLC CCAP Fund FI, L.P.	DE DE	NIA NIA	Teachers Insurance and Annuity Association of America CCM Series 2, LLC	Ownership Ownership	100.000 90.800	TIAA Board of Overseers TIAA Board of Overseers	N N	
			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	Ceres Agricultural Properties, LLC 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 45.000 100.000 100.000 100.000 100.000	TIAA Board of Overseers TIAA Board of Overseers TIAA Board of Overseers TIAA Board of Overseers TIAA Board of Overseers TIAA Board of Overseers TIAA Board of Overseers	N N N N N N N	
			26-0352203 4633321 4633330 26-0460488	4601834 4601843 4628372 4633321 4633330 4633358			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 International Agricultural Investors, LLC	Ownership Ownership Ownership Ownership	100.000 100.000 100.000 100.000	TIAA Board of Overseers TIAA Board of Overseers TIAA Board of Overseers TIAA Board of Overseers	N N N N	
			26-2745365	4628363			International Agricultural Investors Fund II, LLC	DE	NIA	Ceres Agricultural Properties, LLC International Agricultural Investors Fund II, LLC	Ownership Ownership	99.000 100.000	TIAA Board of Overseers TIAA Board of Overseers	N N	
				4633303			IAI Australia Fund II, Pty., Ltd.	AUS	NIA	International Agricultural Investors Fund II, LLC	Ownership	100.000	TIAA Board of Overseers	N	
				4633312			IAI Australia Fund II Trust	AUS	NIA	International Agricultural Investors Fund II, LLC	Ownership	100.000	TIAA Board of Overseers	N	
			26-2747755	4633349			IAI USA Fund II, LLC	DE	NIA	International Agricultural Investors Fund II, LLC	Ownership	100.000	TIAA Board of Overseers	N	
			98-1402136				Churchill Middle Market CLO IV Ltd. Churchill Middle Market Senior Loan Fund, LP	CYM DE	NIA NIA	Teachers Insurance and Annuity Association of America Teachers Insurance and Annuity Association of America	Ownership Management	100.000	TIAA Board of Overseers TIAA Board of Overseers	N N	
			81-1810508	5041624			Demeter Agricultural Properties, LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Overseers	N	
			26-3049305	4601928			Dionysus Properties, LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Overseers	N	
			45-2632248 94-3306131 68-0436609 75-3025596 20-3964695 26-1542713 20-2103733 20-2490906 20-2103788 68-0466083 94-3361818 26-3774024 26-2766605 43-3997217 68-0443927 94-3357571 94-3312405 91-1806950 45-4820104	4600770 4601861 4612764 4612867 4613314 4613417 4613864 4613882 4613891 4613949 4613967 4613976 4614665 4601870 4613921 4614759 4615671 4615783 4617077			Silverado Premium Properties, LLC Arroya Loma, LLC Chalk Ridge Vineyard, LLC Hobson Avenue Vineyard, LLC Marsino Vineyard, LLC Silverado Los Alamos Vineyards, LLC Silverado SLO Vineyards, LLC Silverado Sonoma Vineyard, LLC SPP Napa Vineyards, LLC Stanly Ranch Vineyards, LLC Suscol Mountain Vineyards, LLC Terra Ventosa Vineyards, LLC Silverado Winegrowers Holdings, LLC Silverado Winegrowers LLC Alta Loma Vineyard, LLC Oak Knoll Napa Vineyards, LLC Silverado Suscol, LLC SWG Paso Vineyard, LLC	DE CA DE CA CA CA CA CA CA CA CA CA CA CA CA CA CA CA CA	NIA NIA NIA NIA NIA NIA NIA NIA NIA NIA NIA NIA NIA NIA NIA NIA NIA NIA	Dionysus Properties, LLC Silverado Premium Properties, LLC Silverado Premium Properties, LLC Silverado Premium Properties, LLC Silverado Premium Properties, LLC Silverado Premium Properties, LLC Silverado Premium Properties, LLC Silverado Premium Properties, LLC Silverado Premium Properties, LLC Silverado Premium Properties, LLC Silverado Premium Properties, LLC Silverado Premium Properties, LLC Silverado Premium Properties, LLC Silverado Premium 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 Ownership Ownership Ownership Ownership Ownership Ownership Ownership Ownership Ownership Ownership Ownership Ownership	100.000 100.000 100.000 100.000 100.000 100.000 100.000 100.000 100.000 100.000 100.000 100.000 100.000 100.000 100.000 100.000 100.000 100.000	TIAA Board of Overseers TIAA Board of Overseers TIAA Board of Overseers TIAA Board of Overseers TIAA Board of Overseers TIAA Board of Overseers TIAA Board of Overseers TIAA Board of Overseers TIAA Board of Overseers TIAA Board of Overseers TIAA Board of Overseers TIAA Board of Overseers TIAA Board of Overseers TIAA Board of Overseers TIAA Board of Overseers TIAA Board of Overseers TIAA Board of Overseers TIAA Board of Overseers	N N N N N N N N N N N N N N N N N N N	
			26-3561447	4599708	1454640		Distressed Opportunities Fund, L.P.	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	50.000	TIAA Board of Overseers	N	
				4680307			DWM Inclusive Finance Equity Fund II	LUX	NIA	Teachers Insurance and Annuity Association of America	Influence		TIAA Board of Overseers	N	

STATEMENT AS OF SEPTEMBER 30, 2019 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
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			98-0580879	4633947			DWM Microfinance Equity Fund I	.LUX	.NIA	Teachers Insurance and Annuity Association of America	Influence		TIAA Board of Overseers	.N	
			04-3718449	4643003			Envisage Information Systems, LLC	.NY	.NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Overseers	.N	
			30-0701953	4633974			EPP LFG I, LLC	.DE	.NIA	Teachers Insurance and Annuity Association of America	Influence		TIAA Board of Overseers	.N	
				4894805			Global Real Estate Debt Partners Fund I (UK)	.LUX	.NIA	Teachers Insurance and Annuity Association of America	Ownership	36.500	TIAA Board of Overseers	.N	1900
							Global Real Estate Debt Partners Fund II (UK) SCSp	.LUX	.NIA	Teachers Insurance and Annuity Association of America	Influence		TIAA Board of Overseers	.N	1200
			20-1930384		1684621		Gresham CMS Fund, LLC	.DE	.NIA	Teachers Insurance and Annuity Association of America	Ownership	98.080	TIAA Board of Overseers	.N	
			32-0509812		1699398		GreshamQuant ACAR Fund LLC	.DE	.NIA	Teachers Insurance and Annuity Association of America	Ownership	62.690	TIAA Board of Overseers	.N	
			81-0737062	4952750			Growth Capital Fund I, L.P.	.DE	.NIA	Teachers Insurance and Annuity Association of America	Ownership	94.000	TIAA Board of Overseers	.N	
				4860556			Inception GP LLC	.DE	.NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Overseers	.N	
			46-2031403	4860800			Inception Partners IV, LP	.DE	.NIA	Teachers Insurance and Annuity Association of America	Influence		TIAA Board of Overseers	.N	
			46-2062147	4860819			Inception Partners V, LP	.DE	.NIA	Teachers Insurance and Annuity Association of America	Influence		TIAA Board of Overseers	.N	
			27-4149157	4860846			Infra Alpha, LLC	.DE	.NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Overseers	.N	
			27-3900641	4860855			EMG Investments, LLC	.DE	.NIA	Infra Alpha, LLC	Influence		TIAA Board of Overseers	.N	
			47-4169877	4874656			Lewis & Clark Timberlands, LLC	.DE	.NIA	Teachers Insurance and Annuity Association of America	Ownership	57.400	TIAA Board of Overseers	.N	
			47-4187541	4876436			L&C Log Co, LLC	.DE	.NIA	Lewis & Clark Timberlands, LLC	Ownership	100.000	TIAA Board of Overseers	.N	
			47-4196668	4945967			L&C Tree Farms, LLC	.DE	.NIA	Lewis & Clark Timberlands, LLC	Ownership	100.000	TIAA Board of Overseers	.N	
			47-5300478	4946384			L&C TRS LLC	.DE	.NIA	L&C Tree Farms, LLC	Ownership	100.000	TIAA Board of Overseers	.N	
			27-2007833	4635334			Liberty M & R SPV II, LP	.DE	.NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Overseers	.N	
				4601852			Mansilla Participacoes LTDA	.BRA	.NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Overseers	.N	
				4634654			Radar Propriedades Agricolas S.A.	.BRA	.NIA	Mansilla Participacoes LTDA	Influence		TIAA Board of Overseers	.N	
				4643049			Nova Amaralina S.A. Propriedades Agricolas	.BRA	.NIA	Radar Propriedades Agricolas S.A.	Ownership	100.000	TIAA Board of Overseers	.N	
				4643320			Nova Agricola Ponte Alta S.A.	.BRA	.NIA	Radar Propriedades Agricolas S.A.	Ownership	100.000	TIAA Board of Overseers	.N	
				4643058			Nova Santa Barbara Agricola S.A.	.BRA	.NIA	Radar Propriedades Agricolas S.A.	Ownership	100.000	TIAA Board of Overseers	.N	
				4644523			Terras da Ponte Alta S.A.	.BRA	.NIA	Radar Propriedades Agricolas S.A.	Ownership	100.000	TIAA Board of Overseers	.N	
				4634645			Radar II Propriedades Agricolas S.A.	.BRA	.NIA	Mansilla Participacoes LTDA	Influence		TIAA Board of Overseers	.N	
				4643085			Proud Participacoes S.A.	.BRA	.NIA	Radar II Propriedades Agricolas S.A.	Ownership	100.000	TIAA Board of Overseers	.N	
				4644336			Vale De Ponte Alta S.A.	.BRA	.NIA	Radar II Propriedades Agricolas S.A.	Ownership	100.000	TIAA Board of Overseers	.N	
				4644318			Bioinvestments Negocios e Participacoes	.BRA	.NIA	Radar II Propriedades Agricolas S.A.	Ownership	100.000	TIAA Board of Overseers	.N	
				4644309			Aguas de Ponte Alta S.A.	.BRA	.NIA	Radar II Propriedades Agricolas S.A.	Ownership	100.000	TIAA Board of Overseers	.N	
			13-1624203	5077137			MM Funding, LLC	.DE	.NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Overseers	.N	
			47-0902011	5043075			MyVest Corporation	.DE	.NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Overseers	.Y	
			11-3034756	4600789			ND Properties, Inc.	.DE	.NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Overseers	.Y	
				4634917			Norteshopping Retail and Leisure Centre BV	.NLD	.NIA	ND Properties, Inc.	Ownership	50.000	TIAA Board of Overseers	.N	
				4634926			Norteshopping - Centro Commercial, S.A.	.PRT	.NIA	Norteshopping Retail and Leisure Centre BV	Ownership	100.000	TIAA Board of Overseers	.N	
				4611824			ND Europe S.a.r.l.	.LUX	.NIA	ND Properties, Inc.	Ownership	100.000	TIAA Board of Overseers	.N	

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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				4912781			ND Europe Office Holding S.à r.l.	.LUX	NIA	ND Europe S.a.r.l.	Ownership	100.000	TIAA Board of Overseers	.N	
				4925558			Cityhold Nympe S.à r.l.	.LUX	NIA	ND Europe Office Holding S.à r.l.	Ownership	6.000	TIAA Board of Overseers	.N	2000
				4925530			Cityhold Propco 11 S.à r.l.	.LUX	NIA	ND Europe Office Holding S.à r.l.	Ownership	50.000	TIAA Board of Overseers	.N	
				4914776			Cityhold Euro S.à r.l.	.LUX	NIA	ND Europe Office Holding S.à r.l.	Ownership	6.000	TIAA Board of Overseers	.N	2100
				4913416			Cityhold Office Partnership S.à r.l.	.LUX	NIA	ND Europe Office Holding S.à r.l.	Ownership	50.000	TIAA Board of Overseers	.N	
							CHOP OPCl	.FRA	NIA	Cityhold Office Partnership S.à r.l.	Ownership	100.000	TIAA Board of Overseers	.N	
			98-1435873				Cityhold Iconic Holding SAS	.FRA	NIA	CHOP OPCl	Ownership	100.000	TIAA Board of Overseers	.N	
			98-1433967				Cityhold Iconic Hotel SNC	.FRA	NIA	Cityhold Iconic Holding SAS	Ownership	100.000	TIAA Board of Overseers	.N	
			98-1433956				Cityhold Iconic Office SCI	.FRA	NIA	Cityhold Iconic Holding SAS	Ownership	100.000	TIAA Board of Overseers	.N	
			98-1433960				Cityhold Iconic Retail SNC	.FRA	NIA	Cityhold Iconic Holding SAS	Ownership	100.000	TIAA Board of Overseers	.N	
			98-1433975				Cityhold Iconic Youth Hostel SNC	.FRA	NIA	Cityhold Iconic Holding SAS	Ownership	100.000	TIAA Board of Overseers	.N	
				4925558			Cityhold Nympe S.à r.l.	.LUX	NIA	Cityhold Office Partnership S.à r.l.	Ownership	88.000	TIAA Board of Overseers	.N	2000
				4920094			Cityhold Propco 6 S.à r.l.	.LUX	NIA	Cityhold Office Partnership S.à r.l.	Ownership	100.000	TIAA Board of Overseers	.N	
			98-1433939				Cityhold Iconic Hotel OPCO SAS	.FRA	NIA	Cityhold Propco 6 S.à r.l.	Ownership	100.000	TIAA Board of Overseers	.N	
			98-1435880				Cityhold Iconic Investment S.à r.l.	.LUX	NIA	Cityhold Propco 6 S.à r.l.	Ownership	100.000	TIAA Board of Overseers	.N	
				4925521			Cityhold Propco 9 S.à r.l.	.LUX	NIA	Cityhold Office Partnership S.à r.l.	Ownership	100.000	TIAA Board of Overseers	.N	
				4612746			36 Rue La Fayette SAS	.FRA	NIA	Cityhold Propco 9 S.à r.l.	Ownership	100.000	TIAA Board of Overseers	.N	
				4613828			SAS Roosevelt	.FRA	NIA	Cityhold Propco 9 S.à r.l.	Ownership	100.000	TIAA Board of Overseers	.N	
				4914767			Roosevelt Participation S.à r.l.	.LUX	NIA	Cityhold Propco 9 S.à r.l.	Ownership	100.000	TIAA Board of Overseers	.N	
				4615578			SNC Roosevelt	.FRA	NIA	SAS Roosevelt	Ownership	99.990	TIAA Board of Overseers	.N	2200
				4615578			SNC Roosevelt	.FRA	NIA	Roosevelt Participation S.à r.l.	Ownership	0.010	TIAA Board of Overseers	.N	2200
				4612876			Courcelles 70 SAS	.FRA	NIA	Cityhold Propco 9 S.à r.l.	Ownership	100.000	TIAA Board of Overseers	.N	
				4914776			Cityhold Euro S.à r.l.	.LUX	NIA	Cityhold Propco 9 S.à r.l.	Ownership	88.000	TIAA Board of Overseers	.N	2100
				4925549			Cityhold Propco 7 S.à r.l.	.LUX	NIA	Cityhold Euro S.à r.l.	Ownership	100.000	TIAA Board of Overseers	.N	
				4925615			Cityhold Propco 10 S.à r.l.	.LUX	NIA	Cityhold Euro S.à r.l.	Ownership	100.000	TIAA Board of Overseers	.N	
							Cityhold Gouden Bocht B.V.	.NLD	NIA	Cityhold Propco 9 S.à r.l.	Ownership	100.000	TIAA Board of Overseers	.N	
			98-1438380				Cityhold Gouden Bocht Monumenten B.V.	.NLD	NIA	Cityhold Propco 9 S.à r.l.	Ownership	100.000	TIAA Board of Overseers	.N	
				4925633			Redevelopment Property II B.V.	.NLD	NIA	Cityhold Propco 9 S.à r.l.	Ownership	100.000	TIAA Board of Overseers	.N	
							Cityhold Propco 12 S.à r.l.	.LUX	NIA	Cityhold Office Partnership S.à r.l.	Ownership	100.000	TIAA Board of Overseers	.N	
							Cityhold EST Investment S.à r.l.	.LUX	NIA	Cityhold Propco 12 S.à r.l.	Ownership	100.000	TIAA Board of Overseers	.N	
							Cityhold GC Investment S.à r.l.	.LUX	NIA	Cityhold Propco 12 S.à r.l.	Ownership	100.000	TIAA Board of Overseers	.N	
							OVG Cloud S.à r.l.	.LUX	NIA	Cityhold GC Investment S.à r.l.	Influence		TIAA Board of Overseers	.N	
				4914785			Cityhold Sterling S.à r.l.	.LUX	NIA	Cityhold Office Partnership S.à r.l.	Ownership	100.000	TIAA Board of Overseers	.N	
				4914758			Cityhold UK Holding S.à r.l.	.LUX	NIA	Cityhold Sterling S.à r.l.	Ownership	100.000	TIAA Board of Overseers	.N	
				4919753			Cityhold UK Investment S.à r.l.	.LUX	NIA	Cityhold UK Holding S.à r.l.	Ownership	100.000	TIAA Board of Overseers	.N	
				4651343			London Belgrave Unit Trust	.JEY	NIA	Cityhold UK Holding S.à r.l.	Ownership	99.800	TIAA Board of Overseers	.N	2300
				4651343			London Belgrave Unit Trust	.JEY	NIA	Cityhold UK Investment S.à r.l.	Ownership	0.200	TIAA Board of Overseers	.N	2300
				4949198			CLOF Victoria Nominee 1 Limited	.GBR	NIA	London Belgrave Unit Trust	Ownership	100.000	TIAA Board of Overseers	.N	
				4949228			CLOF Victoria Nominee 2 Limited	.GBR	NIA	London Belgrave Unit Trust	Ownership	100.000	TIAA Board of Overseers	.N	
				4844341			New Fetter Lane Unit Trust	.JEY	NIA	Cityhold UK Holding S.à r.l.	Ownership	99.900	TIAA Board of Overseers	.N	2400
				4844341			New Fetter Lane Unit Trust	.JEY	NIA	Cityhold UK Investment S.à r.l.	Ownership	0.100	TIAA Board of Overseers	.N	2400
				4919744			60 Great Portland Street Unit Trust	.JEY	NIA	Cityhold UK Holding S.à r.l.	Ownership	99.400	TIAA Board of Overseers	.N	2500
				4919744			60 Great Portland Street Unit Trust	.JEY	NIA	Cityhold UK Investment S.à r.l.	Ownership	0.600	TIAA Board of Overseers	.N	2500
				4920076			SMA Holding S.à r.l.	.LUX	NIA	Cityhold UK Investment S.à r.l.	Ownership	100.000	TIAA Board of Overseers	.N	
				4919744			70 St Mary Axe Unit Trust	.JEY	NIA	SMA Holding S.à r.l.	Ownership	99.900	TIAA Board of Overseers	.N	2600
				4919744			70 St Mary Axe Unit Trust	.JEY	NIA	Cityhold UK Investment S.à r.l.	Ownership	0.100	TIAA Board of Overseers	.N	2600
				4920067			HV Properties S.à r.l.	.LUX	NIA	Cityhold UK Holding S.à r.l.	Ownership	100.000	TIAA Board of Overseers	.N	
				4925763			HV Freehold S.à r.l.	.LUX	NIA	HV Properties S.à r.l.	Ownership	100.000	TIAA Board of Overseers	.N	
				4614704			TIAA Lux 9 S.à r.l.	.LUX	NIA	Cityhold Office Partnership S.à r.l.	Ownership	100.000	TIAA Board of Overseers	.N	
				4615738			SAS Malachite	.FRA	NIA	TIAA Lux 9 S.a.r.l	Ownership	100.000	TIAA Board of Overseers	.N	
				4616847			SNC Garnet-TIAA	.FRA	NIA	SAS Malachite	Ownership	100.000	TIAA Board of Overseers	.N	
				4616856			SNC La Defense	.FRA	NIA	SAS Malachite	Ownership	100.000	TIAA Board of Overseers	.N	
				4616865			SNC Lazuli	.FRA	NIA	SAS Malachite	Ownership	100.000	TIAA Board of Overseers	.N	
				4616874			SNC Peridot	.FRA	NIA	SAS Malachite	Ownership	100.000	TIAA Board of Overseers	.N	

13.10

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	Domiciliary Location	Relationship to Reporting Entity	Directly Controlled by (Name of Entity/Person)	Type of Control (Ownership, Board, Management, Attorney-in-Fact, Influence, Other)	Control is Ownership Provide Percentage	Ultimate Controlling Entity(ies)/Person(s)	Is an SCA Filing Required? (Y/N)	*
				4612997			T-C Neuperlach Development S.a.r.l.	LUX	NIA	ND Europe S.a.r.l.	Ownership	51.000	TIAA Board of Overseers	N	
				4613015			T-C Pep Holding S.a.r.l.	LUX	NIA	ND Europe S.a.r.l.	Ownership	51.000	TIAA Board of Overseers	N	
				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 Overseers	N	
				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 Overseers	N	
				4614674			TIAA Lux 11 S.a.r.l.	LUX	NIA	ND Europe S.a.r.l.	Ownership	51.000	TIAA Board of Overseers	N	
				4615635			Gropius Passagen Verwaltungs GmbH	DEU	NIA	TIAA Lux 11 S.a.r.l.	Ownership	80.000	TIAA Board of Overseers	N	
				4615644			Gropius S.a.r.l.	LUX	NIA	TIAA Lux 11 S.a.r.l.	Ownership	80.000	TIAA Board of Overseers	N	
				4615626			Gropius Passagen GmbH & Co KG	DEU	NIA	Gropius S.a.r.l.	Ownership	99.800	TIAA Board of Overseers	N	2700
				4615626			Gropius Passagen GmbH & Co KG	DEU	NIA	TIAA Lux 11 S.a.r.l.	Ownership	0.200	TIAA Board of Overseers	N	2700
				4611842			TIAA Lux 5 S.a.r.l.	LUX	NIA	ND Properties, Inc.	Ownership	51.000	TIAA Board of Overseers	N	
				4612906			Erlangen Arcaden Verwaltungs GmbH	DEU	NIA	TIAA Lux 5 S.a.r.l.	Ownership	100.000	TIAA Board of Overseers	N	
				4612885			Erlangen Arcaden GmbH & Co. KG	DEU	NIA	TIAA Lux 5 S.a.r.l.	Ownership	94.900	TIAA Board of Overseers	N	2800
				4612885			Erlangen Arcaden GmbH & Co. KG	DEU	NIA	Erlangen Arcaden Verwaltungs GmbH	Ownership	5.100	TIAA Board of Overseers	N	2800
			20-1371171	4611851	1378575		U.S. Cities Fund, LP	DE	NIA	ND Properties, Inc.	Ownership	100.000	TIAA Board of Overseers	N	
			20-1371379	4614638			U.S. Cities Fund REIT, LLC	DE	NIA	U.S. Cities Fund, LP	Ownership	100.000	TIAA Board of Overseers	N	
			20-1364650	4617590			U.S. Cities Fund Operating GP, LLC	DE	NIA	U.S. Cities Fund REIT, LLC	Ownership	100.000	TIAA Board of Overseers	N	
			20-1371235	4617602			U.S. Cities Fund Operating, LP	DE	NIA	U.S. Cities Fund REIT, LLC	Ownership	100.000	TIAA Board of Overseers	N	
			46-5061808	4702928			T-C Falls Center Townhouses LLC	DE	NIA	U.S. Cities Fund Operating, LP	Ownership	100.000	TIAA Board of Overseers	N	
			26-1700245	4617853			T-C King Street Station LLC	DE	NIA	U.S. Cities Fund Operating, LP	Ownership	100.000	TIAA Board of Overseers	N	
			47-2532161	4793047			T-C Xavier Street Flats LLC	DE	NIA	U.S. Cities Fund Operating, LP	Ownership	100.000	TIAA Board of Overseers	N	
			45-2892182	4618177			T-C Trio Apartments LLC	DE	NIA	U.S. Cities Fund Operating, LP	Ownership	100.000	TIAA Board of Overseers	N	
			81-3738136	5115495			U.S. Cities Industrial CPF Fund LP	DE	NIA	U.S. Cities Fund Operating, LP	Ownership	100.000	TIAA Board of Overseers	N	
			81-3681230	5115972			U.S. Cities Industrial CPF Fund REIT LLC	DE	NIA	U.S. Cities Industrial Fund LP	Ownership	100.000	TIAA Board of Overseers	N	
			81-3671343	5116755			U.S. Cities Industrial CPF Fund Operating GP LLC	DE	NIA	U.S. Cities Industrial Fund REIT LLC	Ownership	100.000	TIAA Board of Overseers	N	
			81-3757117	5116250			U.S. Cities Industrial CPF Fund Operating LP	DE	NIA	U.S. Cities Industrial Fund REIT LLC	Ownership	100.000	TIAA Board of Overseers	N	
			81-3765537	5115507			U.S. Cities Multifamily CPF Fund LP	DE	NIA	U.S. Cities Fund Operating, LP	Ownership	100.000	TIAA Board of Overseers	N	
			81-3870674	5115963			U.S. Cities Multifamily CPF Fund REIT LLC	DE	NIA	U.S. Cities Multifamily Fund LP	Ownership	100.000	TIAA Board of Overseers	N	
			81-3716920	5116782			U.S. Cities Multifamily CPF Fund Operating GP LLC	DE	NIA	U.S. Cities Multifamily Fund REIT LLC	Ownership	100.000	TIAA Board of Overseers	N	
			81-3794611	5116773			U.S. Cities Multifamily CPF Fund Operating LP	DE	NIA	U.S. Cities Multifamily Fund REIT LLC	Ownership	100.000	TIAA Board of Overseers	N	
			81-3814378	5115516			U.S. Cities Office CPF Fund LP	DE	NIA	U.S. Cities Fund Operating, LP	Ownership	100.000	TIAA Board of Overseers	N	
			81-3911937	5115945			U.S. Cities Office CPF Fund REIT LLC	DE	NIA	U.S. Cities Office Fund LP	Ownership	100.000	TIAA Board of Overseers	N	
			81-3881522	5116595			U.S. Cities Office CPF Fund Operating GP LLC	DE	NIA	U.S. Cities Office Fund REIT LLC	Ownership	100.000	TIAA Board of Overseers	N	
			81-3839479	5116791			U.S. Cities Office CPF Fund Operating LP	DE	NIA	U.S. Cities Office Fund REIT LLC	Ownership	100.000	TIAA Board of Overseers	N	
			35-2589573	5117631			T-C World Trade Center North LLC	DE	NIA	U.S. Cities Office Fund Operating LP	Ownership	100.000	TIAA Board of Overseers	N	
			81-3437405	5057689			U.S. Cities Retail CPF Fund LP	DE	NIA	U.S. Cities Fund Operating, LP	Ownership	100.000	TIAA Board of Overseers	N	
			81-3573421	5066403			U.S. Cities Retail CPF Fund REIT LLC	DE	NIA	U.S. Cities Retail Fund LP	Ownership	100.000	TIAA Board of Overseers	N	
			81-3578259	5086924			U.S. Cities Retail CPF Fund Operating GP LLC	DE	NIA	U.S. Cities Retail Fund REIT LLC	Ownership	100.000	TIAA Board of Overseers	N	
			81-3473773	5075713			U.S. Cities Retail CPF Fund Operating LP	DE	NIA	U.S. Cities Retail Fund REIT LLC	Ownership	100.000	TIAA Board of Overseers	N	
			81-2914954	5106457			CPF/UIR JV Member LLC	DE	NIA	U.S. Cities Retail Fund Operating LP	Ownership	100.000	TIAA Board of Overseers	N	
			81-2928112	5110034			CPF/UIR Joint Venture LLC	DE	NIA	CPF/UIR JV Member LLC	Ownership	51.000	TIAA Board of Overseers	N	
			81-2955427	5110490			CPF 636 Sixth Avenue LLC	DE	NIA	CPF/UIR Joint Venture LLC	Ownership	100.000	TIAA Board of Overseers	N	
			47-2264739	4785949			T-C 636 Sixth Avenue Retail LLC	DE	NIA	CPF 636 Sixth Avenue LLC	Ownership	100.000	TIAA Board of Overseers	N	
			81-2982618	5110511			CPF 856 Market Street LLC	DE	NIA	CPF/UIR Joint Venture LLC	Ownership	100.000	TIAA Board of Overseers	N	
			81-2973332	5110502			CPF 1511 Third Avenue LLC	DE	NIA	CPF/UIR Joint Venture LLC	Ownership	100.000	TIAA Board of Overseers	N	
				4785930			T-C 1608 Chestnut General Partner LLC	DE	NIA	CPF/UIR Joint Venture LLC	Ownership	100.000	TIAA Board of Overseers	N	
				4843371			1608 Chestnut Partners LP	DE	NIA	T-C 1608 Chestnut General Partner LLC	Ownership	1.000	TIAA Board of Overseers	N	2900
				4785958			T-C 1608 Chestnut Limited Partner LLC	DE	NIA	CPF/UIR Joint Venture LLC	Ownership	100.000	TIAA Board of Overseers	N	
				4843371			1608 Chestnut Partners LP	DE	NIA	T-C 1608 Chestnut Limited Partner LLC	Ownership	99.000	TIAA Board of Overseers	N	2900

STATEMENT AS OF SEPTEMBER 30, 2019 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? (Y/N)	*
			27-4116676	4618092			T-C Potomac Promenade LLC .....	..DE	..NIA	U.S. Cities Retail Fund Operating LP	Ownership.....	100.000	TIAA Board of Overseers .....	..N	
			47-4935916	4952611			TCAM Core Prop Fund REIT 2 LLC .....	..DE	..NIA	U.S. Cities Fund, LP	Ownership.....	100.000	TIAA Board of Overseers .....	..N	
			84-2320652				NGFF Holdco, LLC .....	..DE	..NIA	Teachers Insurance and Annuity Association of America	Ownership.....	100.000	TIAA Board of Overseers .....	..N	
							Nuveen Global Farmland Fund, LP .....	..DE	..NIA	NGFF Holdco, LLC	Ownership.....	100.000	TIAA Board of Overseers .....	..N	
							Global Farmland US Properties, LLC .....	..DE	..NIA	Nuveen Global Farmland Fund, LP	Ownership.....	100.000	TIAA Board of Overseers .....	..N	
							US Horticulture Farmland, LLC .....	..DE	..NIA	Global Farmland US Properties, LLC	Ownership.....	100.000	TIAA Board of Overseers .....	..N	
							US Row Farmland, LLC .....	..DE	..NIA	Global Farmland US Properties, LLC	Ownership.....	100.000	TIAA Board of Overseers .....	..N	
							US Viticulture Farmland, LLC .....	..DE	..NIA	Global Farmland US Properties, LLC	Ownership.....	100.000	TIAA Board of Overseers .....	..N	
							Nuveen High Yield Municipal Opportunities Fund LP .....	..DE	..NIA	Teachers Insurance and Annuity Association of America	Ownership.....	100.000	TIAA Board of Overseers .....	..N	
							Nuveen Municipal Opportunities Fund LP .....	..DE	..NIA	Teachers Insurance and Annuity Association of America	Ownership.....	100.000	TIAA Board of Overseers .....	..N	
			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 Overseers .....	..N	
			26-4750562	4600846			Occator Agricultural Properties, LLC .....	..DE	..NIA	Teachers Insurance and Annuity Association of America	Ownership.....	100.000	TIAA Board of Overseers .....	..N	
			46-1768969	4611860			AGR Agricultural Investments, LLC .....	..DE	..NIA	Occator Agricultural Properties, LLC	Ownership.....	100.000	TIAA Board of Overseers .....	..N	
				4643861			Ridley Corporation Limited .....	..AUS	..NIA	AGR Agricultural Investments	Influence.....		TIAA Board of Overseers .....	..N	
				5106475			Mandala Food Co-Investment Holdings II SPV .....	..MUS	..NIA	Occator Agricultural Properties, LLC	Ownership.....	100.000	TIAA Board of Overseers .....	..N	
			45-1125143	4628608			Materra, LLC .....	..CA	..NIA	Occator Agricultural Properties, LLC	Influence.....		TIAA Board of Overseers .....	..N	
			26-4621336	4644475			Teays River Investments, LLC .....	..DE	..NIA	Occator Agricultural Properties, LLC	Influence.....		TIAA Board of Overseers .....	..N	
			26-4248579	4313025			Oleum Holding Company, Inc. ....	..DE	..NIA	Teachers Insurance and Annuity Association of America	Ownership.....	100.000	TIAA Board of Overseers .....	..Y	
				4313100			Polar Star Canadian Oil and Gas Holding, Inc .....	..CAN	..NIA	Oleum Holding Company, Inc.	Ownership.....	100.000	TIAA Board of Overseers .....	..N	
				4612755			Adastra Management, Inc. ....	..CAN	..NIA	Polar Star Canadian Oil and Gas Holding, Inc	Management.....		TIAA Board of Overseers .....	..N	
				4936095			Nova Star Oil and Gas Inc. ....	..CAN	..NIA	Polar Star Canadian Oil and Gas Holding, Inc	Ownership.....	100.000	TIAA Board of Overseers .....	..N	
				4313128			Polar Star Canadian Oil and Gas, Inc. ....	..CAN	..NIA	Polar Star Canadian Oil and Gas Holding, Inc	Ownership.....	100.000	TIAA Board of Overseers .....	..N	
			26-3821015	4630133			Pinnacle Third Avenue, LP .....	..DE	..NIA	Teachers Insurance and Annuity Association of America	Influence.....		TIAA Board of Overseers .....	..N	
			81-6646838	5018644			Primary Residential Individual Mortgage Entity Trust .....	..DE	..NIA	Teachers Insurance and Annuity Association of America	Ownership.....	100.000	TIAA Board of Overseers .....	..N	
			45-2792614	4601142			Renewable Timber Europe, LLC .....	..DE	..NIA	Teachers Insurance and Annuity Association of America	Ownership.....	100.000	TIAA Board of Overseers .....	..N	
				4990994			Renewable Timber Netherlands B.V. ....	..POL	..NIA	Renewable Timber Europe, LLC	Ownership.....	100.000	TIAA Board of Overseers .....	..N	
				4614713			Topola Lasy Spolka z.o.o. ....	..POL	..NIA	Renewable Timber Netherlands B.V.	Ownership.....	100.000	TIAA Board of Overseers .....	..N	
			61-1640765	4601759			Renewable Timber Resources, LLC .....	..DE	..NIA	Teachers Insurance and Annuity Association of America	Ownership.....	100.000	TIAA Board of Overseers .....	..N	
				4611927			Forestal y Agricola Silvoligna Chile Limitada .....	..CHL	..NIA	Renewable Timber Resources, LLC	Ownership.....	100.000	TIAA Board of Overseers .....	..N	
			03-0543113	4868637			Siguler Guff Third Avenue, L.P. ....	..DE	..NIA	Teachers Insurance and Annuity Association of America	Ownership.....	100.000	TIAA Board of Overseers .....	..N	
				4858629			Social Infra, LLC .....	..DE	..NIA	Teachers Insurance and Annuity Association of America	Ownership.....	100.000	TIAA Board of Overseers .....	..N	
				4599977			T-C 20 Hunter Street (AUS) Pty Ltd .....	..AUS	..NIA	Teachers Insurance and Annuity Association of America	Ownership.....	100.000	TIAA Board of Overseers .....	..N	
			46-3922951	4599968			T-C 20 Hunter Street (US), LLC .....	..DE	..NIA	Teachers Insurance and Annuity Association of America	Ownership.....	100.000	TIAA Board of Overseers .....	..N	
			81-2525521	4998468			T-C 400 Montgomery, LLCDE	..NIA	Teachers Insurance and Annuity Association of America	Ownership.....	100.000	TIAA Board of OverseersN	

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? (Y/N)	*
				5077128			400 Montgomery Investors, LLC	.DE	NIA	T-C 400 Montgomery, LLC	Ownership	97.500	TIAA Board of Overseers	.N	
			27-4123754	4601777			T-C 685 Third Avenue Member, LLC	.DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Overseers	.N	
			27-3095569	4644000	1510620		T-C 685 Third Avenue, LLC	.DE	NIA	T-C 685 Third Avenue Member, LLC	Ownership	100.000	TIAA Board of Overseers	.N	
			61-1754745	4843915			T-C 685 Third Avenue Owner LLC	.DE	NIA	T-C 685 Third Avenue, LLC	Ownership	100.000	TIAA Board of Overseers	.N	
			46-4969690	4653972			T-C 699 Bourke Street LLC	.DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Overseers	.N	
			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 Overseers	.N	
			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 Overseers	.N	
				5084966			TIAA Australia Real Estate Trust	.AUS	NIA	T-C Australia RE Holdings II, LLC	Ownership	100.000	TIAA Board of Overseers	.N	
				4868477			T-C 20 Hunter Street (AUS) Trust	.AUS	NIA	TIAA Australia Real Estate Trust	Ownership	100.000	TIAA Board of Overseers	.N	
				5195255			TGA Miller Holding Trust	.AUS	NIA	TIAA Australia Real Estate Trust	Ownership	100.000	TIAA Board of Overseers	.N	
				5201820			TGA Miller Street Trust	.AUS	NIA	TGA Miller Holding Trust	Ownership	100.000	TIAA Board of Overseers	.N	
				5085749			TIAA Melbourne Retail Holding 1 Trust	.AUS	NIA	TIAA Australia Real Estate Trust	Ownership	100.000	TIAA Board of Overseers	.N	
				5087891			TIAA Melbourne Retail Asset 1 Trust	.AUS	NIA	TIAA Melbourne Retail Holding 1 Trust	Ownership	100.000	TIAA Board of Overseers	.N	
							TGA Australia Real Estate Trust 2	.AUS	NIA	T-C Australia RE Holdings II, LLC	Ownership	100.000	TIAA Board of Overseers	.N	
							TGA PBSA Hold Trust	.AUS	NIA	TGA Australia Real Estate Trust 2	Ownership	100.000	TIAA Board of Overseers	.N	
							TGA PBSA Asset Trust 1	.AUS	NIA	TGA PBSA Hold Trust	Ownership	100.000	TIAA Board of Overseers	.N	
			47-2363168	4794503			T-C Europe Holding Inc.	.DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Overseers	.N	
			47-2369576	4794473			T-C Europe LP	.DE	NIA	T-C Europe Holding Inc.	Ownership	1.000	TIAA Board of Overseers	.N	3000
			47-2369576	4794473			T-C Europe LP	.DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	99.000	TIAA Board of Overseers	.N	3000
				4843410			T-C Europe S.à r.l.	.LUX	NIA	T-C Europe LP	Ownership	100.000	TIAA Board of Overseers	.N	
				4873501			Nightingale LuxCo S.à r.l.	.LUX	NIA	T-C Europe S.à r.l.	Ownership	100.000	TIAA Board of Overseers	.N	
				4874665			T-C Nordics Investment AB	.SWE	NIA	Nightingale LuxCo S.à r.l.	Ownership	100.000	TIAA Board of Overseers	.N	
				4908391			Sweden Nova Lund 1 AB	.SWE	NIA	T-C Nordics Investment AB	Ownership	100.000	TIAA Board of Overseers	.N	
				4908403			Sweden Nova Lund 2 AB	.SWE	NIA	T-C Nordics Investment AB	Ownership	100.000	TIAA Board of Overseers	.N	
				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 Overseers	.N	
				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 Overseers	.N	
				4843401			Neptune Property Venture S.à r.l.	.LUX	NIA	T-C Neptune Holdings S. à r.l.	Ownership	61.800	TIAA Board of Overseers	.N	
							Castel Guello I SRL	.ITA	NIA	Neptune Property Venture S.à r.l.	Ownership	100.000	TIAA Board of Overseers	.N	
				4908364			Neptune Holding Spain, S.L.	.ESP	NIA	Neptune Property Venture S.à r.l.	Ownership	100.000	TIAA Board of Overseers	.N	
				4912709			Promcat Alternativa, S.L.	.ESP	NIA	Neptune Holding Spain, S.L.	Ownership	100.000	TIAA Board of Overseers	.N	
				5083651			Neptune Madrid Holdco S.L.	.ESP	NIA	Neptune Property Venture S.à r.l.	Ownership	100.000	TIAA Board of Overseers	.N	
				5085691			Neptune Nassica Propco S.L.	.ESP	NIA	Neptune Madrid Holdco S.L.	Ownership	100.000	TIAA Board of Overseers	.N	
				5085703			Neptune Getafe Propco S.L.	.ESP	NIA	Neptune Madrid Holdco S.L.	Ownership	100.000	TIAA Board of Overseers	.N	
				5084920			Neptune Las Rozas Outlet S.L.	.ESP	NIA	Neptune Madrid Holdco S.L.	Ownership	100.000	TIAA Board of Overseers	.N	
				5084939			Neptune San Sebastian Outlet S.L.	.ESP	NIA	Neptune Madrid Holdco S.L.	Ownership	100.000	TIAA Board of Overseers	.N	
				4948687			Neptune OPCI SAS	.FRA	NIA	Neptune Property Venture S.à r.l.	Ownership	100.000	TIAA Board of Overseers	.N	
				4952648			Roppenheim Holding SAS	.FRA	NIA	Neptune OPCI SAS	Ownership	100.000	TIAA Board of Overseers	.N	
				4901383			Roppenheim Outlet SNC	.FRA	NIA	Roppenheim Holding SAS	Ownership	99.990	TIAA Board of Overseers	.N	3100
				5195291			Neptune Polish HoldCo 2 B.V.	.NLD	NIA	Neptune Property Venture S.à r.l.	Ownership	100.000	TIAA Board of Overseers	.N	
				5198779			Neptune Ursus SP. z.o.o.	.POL	NIA	Neptune Polish HoldCo 2 B.V.	Ownership	100.000	TIAA Board of Overseers	.N	
				4908373			Neptune Polish Property Venture BV	.NLD	NIA	Neptune Property Venture S.à r.l.	Ownership	100.000	TIAA Board of Overseers	.N	
				4912736			Neptune Krakow SP. z.o.o.	.POL	NIA	Neptune Polish Property Venture BV	Ownership	100.000	TIAA Board of Overseers	.N	
				4912745			Neptune Annapol SP. z.o.o.	.POL	NIA	Neptune Polish Property Venture BV	Ownership	100.000	TIAA Board of Overseers	.N	
				5083633			Neptune Poznan SP. z.o.o.	.POL	NIA	Neptune Polish Property Venture BV	Ownership	100.000	TIAA Board of Overseers	.N	
							Neptune Property Holding S.à r.l.	.LUX	NIA	Neptune Property Venture S.à r.l.	Ownership	100.000	TIAA Board of Overseers	.N	
							Nemab Sugar City B.V.	.NLD	NIA	Neptune Property Holding S.à r.l.	Ownership	100.000	TIAA Board of Overseers	.N	
							Silesia Outlet sp. z o.o	.POL	NIA	Neptune Property Holding S.à r.l.	Ownership	100.000	TIAA Board of Overseers	.N	
				4949095			Neptune Roppenheim Holding S.à r.l	.FRA	NIA	Neptune Property Venture S.à r.l.	Ownership	100.000	TIAA Board of Overseers	.N	
				4901383			Roppenheim Outlet SNC	.FRA	NIA	Neptune Roppenheim Holding S.à r.l	Ownership	0.010	TIAA Board of Overseers	.N	3100

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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				5083642			Neptune Vicolungo I S.r.l.	ITA	NIA	Neptune Property Venture S.à r.l.	Ownership	100.000	TIAA Board of Overseers	N	
			45-2877772	4601786			T-C GA Real Estate Holdings, LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Overseers	N	
			46-0959792	4611936			8 Spruce Street GA Investor, LLC	DE	NIA	T-C GA Real Estate Holdings, LLC	Ownership	100.000	TIAA Board of Overseers	N	
			46-1403221	4619567			FC 8 Spruce Holdings, LLC	DE	NIA	8 Spruce Street GA Investor, LLC	Influence		TIAA Board of Overseers	N	
				4511867			FC 8 Spruce Street Residential, LLC	NY	NIA	FC 8 Spruce Holdings, LLC	Ownership	100.000	TIAA Board of Overseers	N	
			84-2144204				2300 Broadway Storage Operator LLC	DE	NIA	T-C GA Real Estate Holdings, LLC	Ownership	100.000	TIAA Board of Overseers	N	
			82-1419222	5194360			Nuveen Global Cities REIT, Inc.	MD	NIA	T-C GA Real Estate Holdings, LLC	Ownership	97.140	TIAA Board of Overseers	N	
			82-1502883	5198788			Nuveen Global Cities REIT LP, LLC	DE	NIA	Nuveen Global Cities REIT, Inc.	Ownership	100.000	TIAA Board of Overseers	N	
			82-1507998	5198797			Nuveen Global Cities REIT OP, LP	DE	NIA	Nuveen Global Cities REIT, Inc.	Ownership	100.000	TIAA Board of Overseers	N	
			82-3527067	5205060			NR 844 North LLC	DE	NIA	Nuveen Global Cities REIT OP, LP	Ownership	100.000	TIAA Board of Overseers	N	
							NR APCF Investor Ltd.	CYM	NIA	Nuveen Global Cities REIT OP, LP	Ownership	100.000	TIAA Board of Overseers	N	
			82-5519657				NR Devoor Hills LLC	DE	NIA	Nuveen Global Citis REIT OP, LP	Ownership	100.000	TIAA Board of Overseers	N	
			82-3539243	5205088			NR Denver Industrial Portfolio LLC	DE	NIA	Nuveen Global Cities REIT OP, LP	Ownership	100.000	TIAA Board of Overseers	N	
			83-3651003				NR East Sego Lily LLC	DE	NIA	Nuveen Global Cities REIT OP, LP	Ownership	100.000	TIAA Board of Overseers	N	
							Nuveen ECF Investor Ltd.	DE	NIA	Nuveen Global Cities REIT OP, LP	Ownership	100.000	TIAA Board of Overseers	N	
			84-3175301				NR Globe Street Industrial LLC	DE	NIA	Nuveen Global Cities REIT OP, LP	Ownership	100.000	TIAA Board of Overseers	N	
			83-1495411				NR Henderson 215 LLC	DE	NIA	Nuveen Global Cities REIT OP, LP	Ownership	100.000	TIAA Board of Overseers	N	
			82-3556058	5205079			NR Kirkland Crossing LLC	DE	NIA	Nuveen Global Cities REIT OP, LP	Ownership	100.000	TIAA Board of Overseers	N	
			83-1815798				NR Main Street at Kingwood LLC	DE	NIA	Nuveen Global Cities REIT OP, LP	Ownership	100.000	TIAA Board of Overseers	N	
			82-5503093				NR Tacara at Steiner Ranch LLC	DE	NIA	Nuveen Global Cities REIT OP, LP	Ownership	100.000	TIAA Board of Overseers	N	
			83-4299885				Nuveen Global Cities REIT Lending, LLC	DE	NIA	Nuveen Global Cities REIT OP, LP	Ownership	100.000	TIAA Board of Overseers	N	
			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 Overseers	N	
			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 Overseers	N	
			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 Overseers	N	
			27-2952349	4612045			T-C 1101 Pennsylvania Avenue LLC	DE	NIA	T-C GA Real Estate Holdings, LLC	Ownership	100.000	TIAA Board of Overseers	N	
			27-2952617	4651398			T-C 1101 Pennsylvania Avenue Venture LLC	DE	NIA	T-C 1101 Pennsylvania Avenue LLC	Ownership	51.000	TIAA Board of Overseers	N	
			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 Overseers	N	
			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 Overseers	N	
			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 Overseers	N	
			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 Overseers	N	
			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 Overseers	N	
			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 Overseers	N	
			46-1754243	4617321	1577563		T-C 470 Park Avenue South Owner LLC	DE	NIA	T-C 470 Park Avenue South Venture LLC	Ownership	100.000	TIAA Board of Overseers	N	
			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 Overseers	N	
			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 Overseers	N	
			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 Overseers	N	
			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 Overseers	N	
			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 Overseers	N	
			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 Overseers	N	
			47-4665824	4904366			T-C 888 Brannan Member LLC	DE	NIA	T-C GA Real Estate Holdings, LLC	Ownership	100.000	TIAA Board of Overseers	N	
			47-4684031	4904955			T-C 888 Brannan Venture LLC	DE	NIA	T-C 888 Brannan Member LLC	Ownership	50.100	TIAA Board of Overseers	N	
			47-4674147	4908319			T-C 888 Brannan Owner LLC	DE	NIA	T-C 888 Brannan Venture LLC	Ownership	100.000	TIAA Board of Overseers	N	
			47-5605380	4971845			T-C 888 Brannan TRS, LLC	DE	NIA	T-C 888 Brannan Owner LLC	Ownership	100.000	TIAA Board of Overseers	N	
			45-3479701	4612081			T-C 2300 Broadway, LLC	DE	NIA	T-C GA Real Estate Holdings, LLC	Ownership	100.000	TIAA Board of Overseers	N	
			46-1220681	4612139			T-C Aspira LLC	DE	NIA	T-C GA Real Estate Holdings, LLC	Ownership	100.000	TIAA Board of Overseers	N	
			46-1791581	4612054			T-C Franklin Square Member, LLC	DE	NIA	T-C GA Real Estate Holdings, LLC	Ownership	100.000	TIAA Board of Overseers	N	
			46-1794486	4615569			T-C Franklin Square Venture LLC	DE	NIA	T-C Franklin Square Member, LLC	Ownership	51.000	TIAA Board of Overseers	N	
			26-0011770	4617611	1577581		TIAA Franklin Square, LLC	DE	NIA	T-C Franklin Square Venture LLC	Ownership	100.000	TIAA Board of Overseers	N	
			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 Overseers	N	
			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 Overseers	N	
			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 Overseers	N	
			45-4045658	4612148			T-C Kings Crossing, LLC	DE	NIA	T-C GA Real Estate Holdings, LLC	Ownership	100.000	TIAA Board of Overseers	N	
			46-1120016	4601973			T-C Legacy Place Member, LLC	DE	NIA	T-C GA Real Estate Holdings, LLC	Ownership	100.000	TIAA Board of Overseers	N	

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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			46-0876833	4628550			Legacy Place Associates, LLC	MA	NIA	T-C Legacy Place Member, LLC	Ownership	50.000	TIAA Board of Overseers	N	
							300 Legacy Place Boulevard LLC	DE	NIA	Legacy Place Associates, LLC	Ownership	100.000	TIAA Board of Overseers	N	
							Legacy Place Properties, LLC	MA	NIA	Legacy Place Associates, LLC	Ownership	100.000	TIAA Board of Overseers	N	
			47-2903922	4843326			T-C Republic Square Member LLC	DE	NIA	T-C GA Real Estate Holdings, LLC	Ownership	100.000	TIAA Board of Overseers	N	
			47-2867784	4843979			T-C Republic Square Venture LLC	DE	NIA	T-C Republic Square Member LLC	Ownership	50.100	TIAA Board of Overseers	N	
			47-3033681	4844659			T-C Republic Square REIT LLC	DE	NIA	T-C Republic Square Venture LLC	Ownership	100.000	TIAA Board of Overseers	N	
			47-3091198	4844798			T-C Republic Square Mezzanine LLC	DE	NIA	T-C Republic Square REIT LLC	Ownership	100.000	TIAA Board of Overseers	N	
			47-2793452	4847735			T-C Republic Square Owner LLC	DE	NIA	T-C Republic Square Mezzanine LLC	Ownership	100.000	TIAA Board of Overseers	N	
			47-1379500	4749969			The Flats Holding Company LLC	DE	NIA	T-C GA Real Estate Holdings, LLC	Ownership	100.000	TIAA Board of Overseers	N	
			47-1347366	4752503			The Flats 130 DC Residential LLC	DE	NIA	The Flats Holding Company LLC	Ownership	100.000	TIAA Board of Overseers	N	
			47-1363564	4752512			The Flats 140 DC Residential LLC	DE	NIA	The Flats Holding Company LLC	Ownership	100.000	TIAA Board of Overseers	N	
			47-1367530	4751766			The Flats DC Grocery LLC	DE	NIA	The Flats Holding Company LLC	Ownership	100.000	TIAA Board of Overseers	N	
			46-4567368	4651473			T-C JK I, LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Overseers	N	
				4680316			Adeoti Empreendimentos Imobiliários Ltda	BRA	NIA	T-C JK I, LLC	Ownership	51.000	TIAA Board of Overseers	N	3200
			46-4587620	4651482			T-C JK II, LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Overseers	N	
				4680316			Adeoti Empreendimentos Imobiliários Ltda	BRA	NIA	T-C JK II, LLC	Ownership	49.000	TIAA Board of Overseers	N	3200
			47-4095803	4864022			T-C Lux Fund Holdings LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Overseers	N	
				4896256			T-C Lux Investments Special Limited Partnership	LUX	NIA	T-C Lux Fund Holdings LLC	Ownership	100.000	TIAA Board of Overseers	N	
							European Cities Partnership SCSp	LUX	NIA	T-C Lux Investments Special Limited Partnership	Influence		TIAA Board of Overseers	N	1100
				4894805			Global Real Estate Debt Partners Fund I (UK)	LUX	NIA	T-C Lux Investments Special Limited Partnership	Ownership	24.300	TIAA Board of Overseers	N	1900
			81-4583865	5137956			T-C MV Member LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Overseers	N	
			81-4599024	5147049			T-C M-T REIT LLC	DE	NIA	T-C MV Member LLC	Ownership	99.900	TIAA Board of Overseers	N	
							T-C MV Member II LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Overseers	N	
			84-3224525				T-C M-T REIT II LLC	DE	NIA	T-C MV Member II LLC	Ownership	51.000	TIAA Board of Overseers	N	
			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 Overseers	N	
			47-1828871	4749905			T-C Mt. Ommaney Centre LLC	DE	NIA	T-C Mt. Ommaney Centre Holding Company LLC	Ownership	100.000	TIAA Board of Overseers	N	
			82-1023309	5117800			T-C Permian Investor LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Overseers	N	
			46-3007720	4599874			T-C SBMC Joint Venture LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Overseers	N	
			20-8309570	4601795			T-C SMA I, LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Overseers	N	
			20-8309587	4619790			CPPIB-TIAA US Real Property Fund LP	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	50.000	TIAA Board of Overseers	N	3300
			20-8309587	4619790			CPPIB-TIAA US Real Property Fund LP	DE	NIA	T-C SMA I, LLC	Ownership	1.000	TIAA Board of Overseers	N	3300
			20-8309622	4644019			C-T Shenandoah, LLC	DE	NIA	CPPIB-TIAA US Real Property Fund LP	Ownership	100.000	TIAA Board of Overseers	N	
			36-4620008	4599128			T-C SMA 2, LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Overseers	N	
			36-4619998	4634029			PennMuni-TIAA U.S. Real Estate Fund, LLC	DE	NIA	T-C SMA 2, LLC	Management		TIAA Board of Overseers	N	
			27-1858182	4599137			T-C SMA III, LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Overseers	N	
			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 Overseers	N	

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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			81-2676934	5012370			T-C UK RE Holdings I, LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Overseers	N	
			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 Overseers	N	
			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 Overseers	N	
				5044586			Thurrock Retail Park Unit Trust	JEY	NIA	T-C UK RE Holdings III, LLC	Ownership	99.500	TIAA Board of Overseers	N	3400
				5044586			Thurrock Retail Park Unit Trust	JEY	NIA	T-C UK RE Holdings II, LLC	Ownership	0.500	TIAA Board of Overseers	N	3400
			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 Overseers	N	
			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 Overseers	N	
			47-5392075	4927785			Waterford Blue Lagoon LP	DE	NIA	T-C Waterford Blue Lagoon General Partner, LLC	Ownership	1.000	TIAA Board of Overseers	N	3500
			47-5375805	4925503			T-C Waterford Blue Lagoon, LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Overseers	N	
			47-5392075	4927785			Waterford Blue Lagoon LP	DE	NIA	T-C Waterford Blue Lagoon, LLC	Ownership	50.000	TIAA Board of Overseers	N	3500
			81-0779817	4930226			Westland At Waterford REIT General Partner LLC	DE	NIA	Waterford Blue Lagoon LP	Ownership	100.000	TIAA Board of Overseers	N	
			47-5321319	4930196			Westland At Waterford REIT LP	DE	NIA	Waterford Blue Lagoon LP	Ownership	100.000	TIAA Board of Overseers	N	
			47-5635267	4933003			Westland At Waterford General Partner LLC	DE	NIA	Westland At Waterford REIT LP	Ownership	100.000	TIAA Board of Overseers	N	
			47-5580924	4932994			Westland At Waterford Operating LP	DE	NIA	Westland At Waterford REIT LP	Ownership	100.000	TIAA Board of Overseers	N	
				4930244			Waterford Blue Lagoon REIT General Partner LLC	DE	NIA	Waterford Blue Lagoon LP	Ownership	100.000	TIAA Board of Overseers	N	
			47-5305678	4930208			Waterford Blue Lagoon REIT LP	DE	NIA	Waterford Blue Lagoon LP	Ownership	100.000	TIAA Board of Overseers	N	
			47-5642524	4933067			5201-5301 Waterford General Partner LLC	DE	NIA	Waterford Blue Lagoon REIT LP	Ownership	100.000	TIAA Board of Overseers	N	
			47-5541032	4933012			5201-5301 Waterford Operating LP	DE	NIA	Waterford Blue Lagoon REIT LP	Ownership	100.000	TIAA Board of Overseers	N	
			47-5672651	4933076			5200 Waterford General Partner LLC	DE	NIA	Waterford Blue Lagoon REIT LP	Ownership	100.000	TIAA Board of Overseers	N	
			47-5498897	4933021			5200 Waterford Operating LP	DE	NIA	Waterford Blue Lagoon REIT LP	Ownership	100.000	TIAA Board of Overseers	N	
			81-0722154	4933085			1000 Waterford General Partner LLC	DE	NIA	Waterford Blue Lagoon REIT LP	Ownership	100.000	TIAA Board of Overseers	N	
			47-5479437	4933030			1000 Waterford Operating LP	DE	NIA	Waterford Blue Lagoon REIT LP	Ownership	100.000	TIAA Board of Overseers	N	
			47-5445045	4933115			701-703 Waterford General Partner LLC	DE	NIA	Waterford Blue Lagoon REIT LP	Ownership	100.000	TIAA Board of Overseers	N	
			47-5471474	4933049			701-703 Waterford Operating LP	DE	NIA	Waterford Blue Lagoon REIT LP	Ownership	100.000	TIAA Board of Overseers	N	
			82-2631273	5165557			Waterford Core REIT General Partner LLC	DE	NIA	Waterford Blue Lagoon LP	Ownership	100.000	TIAA Board of Overseers	N	
			82-2646233	5165566			Waterford Core REIT LP	DE	NIA	Waterford Blue Lagoon LP	Ownership	100.000	TIAA Board of Overseers	N	
							Waterford Core 800 REIT General Partner LLC	DE	NIA	Waterford Core REIT LP	Ownership	100.000	TIAA Board of Overseers	N	
							Waterford Core 800 REIT LP	DE	NIA	Waterford Core REIT LP	Ownership	100.000	TIAA Board of Overseers	N	
			81-0733012	4930217			Waterford Core General Partner LLC	DE	NIA	Waterford Core 800 REIT LP	Ownership	100.000	TIAA Board of Overseers	N	
			47-5587163	4928661			Waterford Core Operating LP	DE	NIA	Waterford Core 800 REIT LP	Ownership	100.000	TIAA Board of Overseers	N	
			82-2663579	5165548			Waterford Core II Operating LP	DE	NIA	Waterford Core REIT LP	Ownership	100.000	TIAA Board of Overseers	N	
			82-2672297	5165539			Waterford Core II General Partner LLC	DE	NIA	Waterford Core REIT LP	Ownership	100.000	TIAA Board of Overseers	N	
			81-2146865	5041688			TEFF Holdco LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Overseers	N	
			98-1310748	5041660			TIAA European Farmland Fund GP LP	CYM	NIA	TEFF Holdco LLC	Ownership	50.000	TIAA Board of Overseers	N	400
			98-1310748	5042658			TIAA European Farmland Fund LP	CYM	NIA	TEFF Holdco LLC	Management		TIAA Board of Overseers	N	
				5043066			TEFF Holding S.a.r.l	LUX	NIA	TIAA European Farmland Fund LP	Ownership	100.000	TIAA Board of Overseers	N	
				5044607			TEFF Investments B.V.	NLD	NIA	TEFF Holding S.a.r.l	Ownership	100.000	TIAA Board of Overseers	N	
							Areal III Spolka z o.o.	POL	NIA	TEFF Investments B.V.	Ownership	100.000	TIAA Board of Overseers	N	
							Hodowla Zwierząt Zarodowych Choczewo Spolka z o.o.	POL	NIA	Areal III SP. z o.o.	Ownership	100.000	TIAA Board of Overseers	N	
							Hodowla Zwierząt Zarodowych Wierzychucino Spolka z o.o.	POL	NIA	Areal III SP. z o.o.	Ownership	100.000	TIAA Board of Overseers	N	
							Hodowla Zwierząt Zarodowych Zarnowiec Spolka z o.o.	POL	NIA	Areal III SP. z o.o.	Ownership	100.000	TIAA Board of Overseers	N	
				5093856			Dangro Invest SA	DNK	NIA	TEFF Investments B.V.	Ownership	100.000	TIAA Board of Overseers	N	
				5117408			AGRA Spolka z o.o.	POL	NIA	Dangro Invest SA	Ownership	100.000	TIAA Board of Overseers	N	

STATEMENT AS OF SEPTEMBER 30, 2019 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? (Y/N)	*
				5116456			AGAT Spolka z o.o.	.POL	NIA	Dangro Invest SA	Ownership	100.000	TIAA Board of Overseers	.N	
				5116447			AGRAMAX Spolka z o.o.	.POL	NIA	Dangro Invest SA	Ownership	100.000	TIAA Board of Overseers	.N	
				5116429			AGRIFARM Spolka z o.o.	.POL	NIA	Dangro Invest SA	Ownership	100.000	TIAA Board of Overseers	.N	
				5117332			AGRO – DUBLINY SP. z o.o.	.POL	NIA	Dangro Invest SA	Ownership	100.000	TIAA Board of Overseers	.N	
				5117341			AGROSERVICE Spolka z o.o.	.POL	NIA	Dangro Invest SA	Ownership	100.000	TIAA Board of Overseers	.N	
				5117350			AMAL Spolka z o.o.	.POL	NIA	Dangro Invest SA	Ownership	100.000	TIAA Board of Overseers	.N	
							CISY Spolka z o.o.	.POL	NIA	Dangro Invest SA	Ownership	100.000	TIAA Board of Overseers	.N	
				5117369			KOLNO Spolka z o.o.	.POL	NIA	Dangro Invest SA	Ownership	100.000	TIAA Board of Overseers	.N	
				5117378			MILKOWO Sp. Z o.o.	.POL	NIA	Dangro Invest SA	Ownership	100.000	TIAA Board of Overseers	.N	
				5117387			SEE-AGRO SP. z o.o.	.POL	NIA	Dangro Invest SA	Ownership	100.000	TIAA Board of Overseers	.N	
				5117396			SATOPY Spolka z o.o.	.POL	NIA	Dangro Invest SA	Ownership	100.000	TIAA Board of Overseers	.N	
				5104556			Pszenrol SA	.POL	NIA	Dangro Invest SA	Ownership	100.000	TIAA Board of Overseers	.N	
				5117417			AGROLAND Spolka z o.o.	.POL	NIA	Pszenrol SA	Ownership	100.000	TIAA Board of Overseers	.N	
				5117426			AGROPOL Spolka z o.o.	.POL	NIA	Pszenrol SA	Ownership	100.000	TIAA Board of Overseers	.N	
				5117435			BUDUS Spolka z o.o.	.POL	NIA	Pszenrol SA	Ownership	100.000	TIAA Board of Overseers	.N	
				5117444			CIESZYSZLAW SP z o.o.	.POL	NIA	Pszenrol SA	Ownership	100.000	TIAA Board of Overseers	.N	
				5117453			FARMEX Spolka z o.o.	.POL	NIA	Pszenrol SA	Ownership	100.000	TIAA Board of Overseers	.N	
				5117462			JASIONNO Spolka z o.o.	.POL	NIA	Pszenrol SA	Ownership	100.000	TIAA Board of Overseers	.N	
				5117640			ROLA Spolka z o.o.	.POL	NIA	Pszenrol SA	Ownership	100.000	TIAA Board of Overseers	.N	
				5117659			ROLPOL Spolka z o.o.	.POL	NIA	Pszenrol SA	Ownership	100.000	TIAA Board of Overseers	.N	
				5117668			ROLZBUD Spolka z o.o.	.POL	NIA	Pszenrol SA	Ownership	100.000	TIAA Board of Overseers	.N	
				5117695			SOBIERADZ Spolka z o.o.	.POL	NIA	Pszenrol SA	Ownership	100.000	TIAA Board of Overseers	.N	
				5117677			TELYN SP. z o.o.	.POL	NIA	Pszenrol SA	Ownership	100.000	TIAA Board of Overseers	.N	
				5117686			TOKARY Sp. z o.o.	.POL	NIA	Pszenrol SA	Ownership	100.000	TIAA Board of Overseers	.N	
				5117707			TURKUS SP. z o.o.	.POL	NIA	Pszenrol SA	Ownership	100.000	TIAA Board of Overseers	.N	
				5117761			WALICHNOWY Sp. z o.o.	.POL	NIA	Pszenrol SA	Ownership	100.000	TIAA Board of Overseers	.N	
				5117770			WEZINY SP. z o.o.	.POL	NIA	Pszenrol SA	Ownership	100.000	TIAA Board of Overseers	.N	
				5117789			ZIEMROL Spolka z o.o.	.POL	NIA	Pszenrol SA	Ownership	100.000	TIAA Board of Overseers	.N	
				5117798			LOZICE Sp. z o.o.	.POL	NIA	Pszenrol SA	Ownership	100.000	TIAA Board of Overseers	.N	
				5098486			Adamas SA	.POL	NIA	Pszenrol SA	Ownership	100.000	TIAA Board of Overseers	.N	
				5116586			AMBER SP. z o.o.	.POL	NIA	Adamas SA	Ownership	100.000	TIAA Board of Overseers	.N	
				5116522			JAROSLAWSKO I SP. z o.o.	.POL	NIA	Adamas SA	Ownership	100.000	TIAA Board of Overseers	.N	
				5116513			JAROSLAWSKO II SP. z o.o.	.POL	NIA	Adamas SA	Ownership	100.000	TIAA Board of Overseers	.N	
				5116492			OGARDY SP. z o.o.	.POL	NIA	Adamas SA	Ownership	100.000	TIAA Board of Overseers	.N	
				5116483			OPAL SP z o.o.	.POL	NIA	Adamas SA	Ownership	100.000	TIAA Board of Overseers	.N	
				5116465			SZAFIR SP. z o.o.	.POL	NIA	Adamas SA	Ownership	100.000	TIAA Board of Overseers	.N	
							Gospodarstwo Okopy Sp. z o.o.	.POL	NIA	TEFF Investments B.V.	Ownership	100.000	TIAA Board of Overseers	.N	
							Przedsiębiorstwo Rolne Okopy Sp. z o.o.	.POL	NIA	Gospodarstwo Okopy Sp. z o.o.	Ownership	100.000	TIAA Board of Overseers	.N	
							Agrohop Bielice Sp. z o.o.	.POL	NIA	Gospodarstwo Okopy Sp. z o.o.	Ownership	100.000	TIAA Board of Overseers	.N	
							Agrohop Service Sp. z o.o.	.POL	NIA	Agrohop Bielice Sp. z o.o.	Ownership	100.000	TIAA Board of Overseers	.N	
							Agrohop Sp. z o.o.	.POL	NIA	Agrohop Service Sp. z o.o.	Ownership	100.000	TIAA Board of Overseers	.N	
							Agrohop Bis Sp. z o.o.	.POL	NIA	Agrohop Sp. z o.o.	Ownership	100.000	TIAA Board of Overseers	.N	
			82-1645257	5183412			TGA 127-137 Franklin LLC	.DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Overseers	.N	
			81-2769108	5012389			TGA 299 Franklin LLC	.DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Overseers	.N	
			81-3988795	5049479			TGA 600 College Road LLC	.DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Overseers	.N	
			83-2548459				TGA 730 Third Avenue Owner LLC	.DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Overseers	.N	
			83-2957526				TGA 3401 North Ashton Blvd LLC	.DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Overseers	.N	
			82-4830474				TGA 3851 Grandpine Way LLC	.DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Overseers	.N	

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? (Y/N)	*
			82-2225812				TGA APAC Fund Holdings, LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Overseers	N	
			82-2311300				Asia Pacific Cities Fund, FCP	LUX	NIA	TGA APAC Fund Holdings, LLC	Ownership	38.640	TIAA Board of Overseers	N	3600
							TGA Real Estate Fund Holdings, LLC	DE	NIA	TGA APAC Fund Holdings, LLC	Ownership	100.000	TIAA Board of Overseers	N	
							Asia Pacific Cities Fund, FCP	LUX	NIA	TGA Real Estate Fund Holdings, LLC	Ownership	38.640	TIAA Board of Overseers	N	3600
			83-1851559				TGA Barnes Canyon Life Science LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Overseers	N	
			84-2939313				TGA Cactus DC I LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Overseers	N	
			84-2939493				TGA Cactus DC II LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Overseers	N	
			83-3799476				TGA Central Green LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Overseers	N	
			83-0780652				TGA Connections at Athens Investor Member LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Overseers	N	
			61-1892161				PEP-TH Athens, LLC	DE	NIA	TGA Connections at Athens Investor Member LLC	Ownership	98.000	TIAA Board of Overseers	N	
			83-1011298				PEP Athens, LLC	DE	NIA	PEP-TH Athens, LLC	Ownership	100.000	TIAA Board of Overseers	N	
				5049497			TGA FC Investor Member LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Overseers	N	
			82-2708488				Fenway Center Holding 1-2, LLC	DE	NIA	TGA FC Investor Member LLC	Ownership	50.000	TIAA Board of Overseers	N	
			82-2708488				Fenway Center Owner 1-2, LLC	DE	NIA	Fenway Center Holding 1-2, LLC	Ownership	100.000	TIAA Board of Overseers	N	
			83-2810033				TGA European RE Holdings I, LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Overseers	N	
							Eagle GPCo S.à r.l.	LUX	NIA	TGA European RE Holdings I, LLC	Ownership	89.500	TIAA Board of Overseers	N	
							Eagle Partnership SCSp	LUX	NIA	TGA European RE Holdings I, LLC	Ownership	89.500	TIAA Board of Overseers	N	
							Eagle JVCo S.à r.l.	LUX	NIA	Eagle Partnership SCSp	Ownership	100.000	TIAA Board of Overseers	N	
							CB Krieau Dzwei GmbH	AUT	NIA	Eagle JVCo S.à r.l.	Ownership	100.000	TIAA Board of Overseers	N	
							Viertel Zwei Entwicklung GmbH & Co								
							Studenthouse KG	AUT	NIA	CB Krieau Dzwei GmbH	Ownership	6.000	TIAA Board of Overseers	N	3700
							Eagle Austria Holdings S.à r.l.	LUX	NIA	Eagle JVCo S.à r.l.	Ownership	100.000	TIAA Board of Overseers	N	
							Viertel Zwei Entwicklung GmbH & Co								
							Studenthouse KG	AUT	NIA	Eagle Austria Holdings S.à r.l.	Ownership	94.000	TIAA Board of Overseers	N	3700
							Studenthouse Rua Manuel Pereira, S.A	PRT	NIA	Eagle JVCo S.à r.l.	Ownership	100.000	TIAA Board of Overseers	N	
			81-3602072	5040551			TGA Japan Holdings, LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Overseers	N	
				5047710			TGA Japan Holdings Pte Ltd	SGP	NIA	TGA Japan Holdings, LLC	Ownership	100.000	TIAA Board of Overseers	N	
				5048771			TGA Japan GK Holdings Pte Ltd	SGP	NIA	TGA Japan Holdings Pte Ltd	Ownership	100.000	TIAA Board of Overseers	N	
				5049929			TGA Ginza115 GK	JPN	NIA	TGA Japan GK Holdings Pte Ltd	Ownership	99.000	TIAA Board of Overseers	N	
				5049938			TGA Ginza115 TMK	JPN	NIA	TGA Japan GK Holdings Pte Ltd	Ownership	51.000	TIAA Board of Overseers	N	3800
				5048762			TGA Ginza 115 Holdings Pte Ltd	SGP	NIA	TGA Japan Holdings Pte Ltd	Ownership	100.000	TIAA Board of Overseers	N	
				5049938			TGA Ginza115 TMK	JPN	NIA	TGA Ginza 115 Holdings Pte Ltd	Ownership	49.000	TIAA Board of Overseers	N	3800
				5050064			TGA Ginza115 ISH	JPN	NIA	TGA Ginza 115 Holdings Pte Ltd	Ownership	100.000	TIAA Board of Overseers	N	
			82-1169084				TGA MKP Member LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Overseers	N	
			82-1198745				TGA MKP Venture LLC	DE	NIA	TGA MKP Member LLC	Ownership	60.000	TIAA Board of Overseers	N	
			82-1187131				TGA MKP REIT LLC	DE	NIA	TGA MKP Venture LLC	Ownership	100.000	TIAA Board of Overseers	N	
			81-4232788	5075722			TGA Montague Investor Member, LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Overseers	N	
				5093780			RCD TGA Pierrepont Partners LLC	DE	NIA	TGA Montague Investor Member, LLC	Ownership	51.600	TIAA Board of Overseers	N	
			81-3542251	5040542			TGA Montrose Residences Investor Member, LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Overseers	N	
			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 Overseers	N	

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? (Y/N)	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	Rela- tion- ship to Reporting Entity	Directly Controlled by (Name of Entity/Person)					
			83-1916152				TGA MS Self Storage Investor Member LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Overseers	N	
			83-2379583				Morningstar NRE Self Storage Portfolio LLC	DE	NIA	TGA MS Self Storage Investor Member LLC	Ownership	90.000	TIAA Board of Overseers	N	
							MSC Tallahassee, LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Overseers	N	
							MSC Bentonville, LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Overseers	N	
							MSC Carolinas, LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Overseers	N	
							MSC Dam Storage, LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Overseers	N	
							MSC Yorktown, LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Overseers	N	
							MSC Greenhouse, LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Overseers	N	
							MSC Midtown Atlanta, LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Overseers	N	
							MSC Kemps Landing, LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Overseers	N	
							MSC South End, LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Overseers	N	
							MSC MTP, LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Overseers	N	
							MSC Peachtree, LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Overseers	N	
							MSC Evans Rd, LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Overseers	N	
							MSC SW Austin, LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Overseers	N	
							MSC Buda, LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Overseers	N	
							MSC Boerne, LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Overseers	N	
							MSC Spring Branch, LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Overseers	N	
							MSC Highway 521 Storage, LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Overseers	N	
			83-4153778				TGA Near East LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Overseers	N	
							TGA NJAHP Investor Member LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Overseers	N	
							NJAHP Preservation Associates JV LLC	DE	NIA	TGA NJAHP Investor Member LLC	Ownership	90.440	TIAA Board of Overseers	N	
			83-1934291				TGA Oak View Mall LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Overseers	N	
			83-3250233				TGA Pleasant Prairie Center LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Overseers	N	
			83-2938932				TGA Sandy Commerce Park LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Overseers	N	
			83-2063402				TGA SP-MPC Housing Investor Member LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Overseers	N	
			83-2147240				TGA-SP Housing Venture I LLC	DE	NIA	TGA SP-MPC Housing Investor Member LLC	Ownership	87.500	TIAA Board of Overseers	N	
			83-2123785				TGA SP-MPC Housing Venture I LLC	DE	NIA	TGA-SP Housing Venture I LLC	Ownership	97.000	TIAA Board of Overseers	N	
			83-1869400				MPSP Ashwood Homes LLC	DE	NIA	TGA SP-MPC Housing Venture I LLC	Ownership	100.000	TIAA Board of Overseers	N	

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? (Y/N)	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)					
			83-1869494				MPSP Ashwood MHC LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Overseers	N	
			84-2331138				MPSP Beltline Homes LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Overseers	N	
			84-2345909				MPSP Beltline Lender LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Overseers	N	
			84-2216330				MPSP Beltline MHC LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Overseers	N	
			83-1088601				MPSP Center Grove Homes LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Overseers	N	
			83-2290040				MPSP Center Grove Lender LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Overseers	N	
			83-1076792				MPSP Center Grove MHC LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Overseers	N	
			84-2158715				MPSP Colinas South Homes LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Overseers	N	
			84-2158791				MPSP Colinas South Lender LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Overseers	N	
			84-2169896				MPSP Colinas South MHC LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Overseers	N	
			84-2169973				MPSP Estancia Homes LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Overseers	N	
			84-2277681				MPSP Estancia Lender LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Overseers	N	
			84-1976109				MPSP Estancia MHC LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Overseers	N	
			83-4260197				MPSP Fairlane Oaks Homes LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Overseers	N	
			83-4283444				MPSP Fairlane Oaks Lender LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Overseers	N	
			83-4241248				MPSP Fairlane Oaks MHC LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Overseers	N	
			84-2290488				MPSP Lakeview Homes LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Overseers	N	
			84-2319726				MPSP Lakeview Lender LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Overseers	N	
			84-2199063				MPSP Lakeview MHC LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Overseers	N	
			83-1213262				MPSP Lemon Tree Homes LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Overseers	N	
			83-2548459				MPSP Lemon Tree MHC LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Overseers	N	
			83-1230821				MPSP Mobile Gardens Homes LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Overseers	N	
			83-1230714				MPSP Mobile Gardens MHC LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Overseers	N	
			84-2379528				MPSP Parker Homes LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Overseers	N	
			84-2389423				MPSP Parker Lender LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Overseers	N	
			84-2247177				MPSP Parker MHC LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Overseers	N	
			84-2277774				MPSP Seven Oaks Homes LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Overseers	N	

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 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? (Y/N)	*
			84-2290439				MPSP Seven Oaks Lender LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Overseers	N	
			84-2198856				MPSP Seven Oaks MHC LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Overseers	N	
			83-2700633				MPSP Shiloh Homes LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Overseers	N	
			83-2725391				MPSP Shiloh Lender LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Overseers	N	
			83-2700544				MPSP Shiloh MHC LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Overseers	N	
			84-2428644				MPSP South Concho Homes LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Overseers	N	
			84-2436652				MPSP South Concho Lender LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Overseers	N	
			84-2261982				MPSP South Concho MHC LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Overseers	N	
							MPSP Stonegate Homes LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Overseers	N	
							MPSP Stonegate Lender LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Overseers	N	
			83-2725560				MPSP Stonegate MHC LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Overseers	N	
			84-2319873				MPSP TC GH Homes LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Overseers	N	
			84-2331064				MPSP TC GH Lender LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Overseers	N	
			84-2216156				MPSP TC GH MHC LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Overseers	N	
			84-2389479				MPSP TC Sherman Homes LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Overseers	N	
			84-2428588				MPSP TC Sherman Lender LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Overseers	N	
			84-2247220				MPSP TC Sherman MHC LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Overseers	N	
			84-2345969				MPSP Wildwood Acres Homes LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Overseers	N	
			84-2361787				MPSP Wildwood Acres Lender LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Overseers	N	
			84-2239609				MPSP Wildwood Acres MHC LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Overseers	N	
			84-2361842				MPSP Wildwood Village Homes LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Overseers	N	
			84-2379481				MPSP Wildwood Village Lender LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Overseers	N	
			84-2239646				MPSP Wildwood Village MHC LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Overseers	N	
			83-2848324				MPSP Windsong Homes LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Overseers	N	
			83-2848439				MPSP Windsong Lender LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Overseers	N	
			83-2861026				MPSP Windsong MHC LLC	DE	NIA	Morningstar NRE Self Storage Portfolio LLC	Ownership	100.000	TIAA Board of Overseers	N	
			84-3093962				TGA The Warehouse At CH Investor Member LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Overseers	N	

STATEMENT AS OF SEPTEMBER 30, 2019 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? (Y/N)	*
							TGAP The Warehouse At CH Owner LLC	DE	NIA	TGA The Warehouse At CH Investor Member LLC	Ownership.....	98.500	TIAA Board of Overseers	N	
							TGAP The Warehouse At CH LLC	DE	NIA	TGAP The Warehouse At CH Owner LLC	Ownership.....	100.000	TIAA Board of Overseers	N	
			84-2939589				TGA Westport Distribution Center LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership.....	100.000	TIAA Board of Overseers	N	
			83-0723201				TGA Yorktown Trinity Groves LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership.....	100.000	TIAA Board of Overseers	N	
			81-1994278	5018626			TGAM Agribusiness Fund LP	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership.....	97.400	TIAA Board of Overseers	N	
			82-0646994	5077164			TGAM Agribusiness Fund Holdings LP	DE	NIA	TGAM Agribusiness Fund LP	Ownership.....	86.800	TIAA Board of Overseers	N	
			82-2826183				TIAA Administrative Services LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership.....	100.000	TIAA Board of Overseers	N	
				4900500			TIAA CLO I Ltd	CYM	NIA	Teachers Insurance and Annuity Association of America	Management.....		TIAA Board of Overseers	N	
				5049965			TIAA CLO I LLC	DE	NIA	TIAA CLO I Ltd	Ownership.....	100.000	TIAA Board of Overseers	N	
			84-1905731				TIAA CLO I Holding, LLC	DE	NIA	TIAA CLO I Ltd	Ownership.....	100.000	TIAA Board of Overseers	N	
							TIAA CLO II Ltd	CYM	NIA	Teachers Insurance and Annuity Association of America	Management.....		TIAA Board of Overseers	N	
							TIAA CLO II LLC	DE	NIA	TIAA CLO II Ltd	Ownership.....	100.000	TIAA Board of Overseers	N	
			84-1921751				TIAA CLO II Holding, LLC	DE	NIA	TIAA CLO II Ltd	Ownership.....	100.000	TIAA Board of Overseers	N	
				5157860			TIAA CLO III Ltd	CYM	NIA	Teachers Insurance and Annuity Association of America	Management.....		TIAA Board of Overseers	N	
							TIAA CLO III LLC	DE	NIA	TIAA CLO III Ltd	Ownership.....	100.000	TIAA Board of Overseers	N	
							TIAA CLO IV Ltd	CYM	NIA	Teachers Insurance and Annuity Association of America	Management.....		TIAA Board of Overseers	N	
							TIAA CLO V Ltd	CYM	NIA	Teachers Insurance and Annuity Association of America	Management.....		TIAA Board of Overseers	N	
			13-4173396	4599203			TIAA CMBS I, LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership.....	100.000	TIAA Board of Overseers	N	
			13-4173396	4602774			TIAA CMBS I Trust	DE	NIA	TIAA CMBS I, LLC	Ownership.....	100.000	TIAA Board of Overseers	N	
			47-4570655	4900498			TIAA Diversified Public Investments, LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership.....	100.000	TIAA Board of Overseers	N	
			90-0615674	3838857	1502749		TIAA FSB Holdings, Inc.	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership.....	100.000	TIAA Board of Overseers	Y	
			59-3531592	2735146			Everbank Funding, LLC	DE	NIA	TIAA FSB Holdings, Inc.	Ownership.....	100.000	TIAA Board of Overseers	N	
							TIAA, FSB	US	NIA	TIAA FSB Holdings, Inc.	Ownership.....	100.000	TIAA Board of Overseers	N	
			59-3547521	4318057			AMC Holding, Inc.	FL	NIA	TIAA, FSB	Ownership.....	100.000	TIAA Board of Overseers	N	
			43-1823879	4318066			Customerone Financial Network, Inc.	DE	NIA	AMC Holding, Inc.	Ownership.....	100.000	TIAA Board of Overseers	N	
			36-1208070	4460817			Business Property Lending, Inc.	DE	NIA	TIAA, FSB	Ownership.....	100.000	TIAA Board of Overseers	N	
			11-3642567	4318178			Elite Lender Services, Inc.	FL	NIA	TIAA, FSB	Ownership.....	100.000	TIAA Board of Overseers	N	
			61-1560018	4318217	1436613		Tygris Commercial Financial Group, Inc.	DE	NIA	TIAA, FSB	Ownership.....	100.000	TIAA Board of Overseers	N	
			20-0716627	4318226			TIAA Commercial Finance, Inc.	DE	NIA	Tygris Commercial Financial Group, Inc.	Ownership.....	100.000	TIAA Board of Overseers	N	
			26-2483829	3867400			Tygris Asset Finance, Inc.	DE	NIA	Tygris Commercial Financial Group, Inc.	Ownership.....	100.000	TIAA Board of Overseers	N	
			81-1241294	4979391			TIAA GBS Holding LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership.....	100.000	TIAA Board of Overseers	N	
				5003789			TIAA GBS Singapore Holding Company Pte. Ltd.	SGP	NIA	TIAA GBS Holding LLC	Ownership.....	100.000	TIAA Board of Overseers	N	
				5006838			TIAA Global Business Services (India) Private Limited	IND	NIA	TIAA GBS Singapore Holding Company Pte. Ltd.	Ownership.....	100.000	TIAA Board of Overseers	N	
			27-5551198	4599267			TIAA Global Ag Holdco LLC	DE	NIA	Teachers Insurance and Annuity Association of America	Ownership.....	100.000	TIAA Board of Overseers	N	
			45-5044364	4627124			Global Agriculture AIV (US), LLC	DE	NIA	TIAA Global Ag Holdco LLC	Ownership.....	98.100	TIAA Board of Overseers	N	
			45-1531685	4643580			Global Ag Properties USA LLC	DE	NIA	Global Agriculture AIV (US), LLC	Management.....		TIAA Board of Overseers	N	
			80-0843991	4644877			Loma del Rio Vineyards, LLC	DE	NIA	Global Ag Properties USA LLC	Ownership.....	55.000	TIAA Board of Overseers	N	1800

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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			46-2577906	4643973			Sugarloaf Vineyard, LLC	.DE	.NIA	Global Ag Properties USA LLC	Ownership	100.000	TIAA Board of Overseers	.N	
			47-1083514	4753582			Global Agriculture II AIV (US) LLC	.DE	.NIA	TIAA Global Ag Holdco LLC	Management		TIAA Board of Overseers	.N	
			47-1069783	4755438			Global Ag Properties II USA LLC	.DE	.NIA	Global Agriculture II AIV (US) LLC	Management		TIAA Board of Overseers	.N	
			27-5551341	4639994			TIAA-CREF Global Agriculture LLC	.DE	.NIA	TIAA Global Ag Holdco LLC	Management		TIAA Board of Overseers	.N	
				4643357			Global AG Properties Australia Pty, Ltd	.AUS	.NIA	TIAA-CREF Global Agriculture LLC	Ownership	100.000	TIAA Board of Overseers	.N	
				4643571			Global AG Properties Australia Trust	.AUS	.NIA	TIAA-CREF Global Agriculture LLC	Ownership	100.000	TIAA Board of Overseers	.N	
				4643094			Nova Gaia Brasil Participaco Ltda.	.BRA	.NIA	TIAA-CREF Global Agriculture LLC	Ownership	99.990	TIAA Board of Overseers	.N	3900
				4644493			Tellus Brasil Participaco S.A.	.BRA	.NIA	Nova Gaia Brasil Participaco Ltda.	Management		TIAA Board of Overseers	.N	4000
				4644484			Terraviva Brasil Participaco Ltda.	.BRA	.NIA	Nova Gaia Brasil Participaco Ltda.	Ownership	99.990	TIAA Board of Overseers	.N	4100
				4644493			Tellus Brasil Participaco S.A.	.BRA	.NIA	Terraviva Brasil Participaco Ltda.	Management		TIAA Board of Overseers	.N	4000
				4863490			Agrobio Investimentos e Participações S.A.	.BRA	.NIA	Tellus Brasil Participaco S.A.	Ownership	100.000	TIAA Board of Overseers	.N	
				4646321			Cerpon Participações S.A.	.BRA	.NIA	Tellus Brasil Participaco S.A.	Ownership	100.000	TIAA Board of Overseers	.N	
				4725758			Nova Ibiajara Propriedades Agrícolas S.A.	.BRA	.NIA	Tellus Brasil Participaco S.A.	Ownership	100.000	TIAA Board of Overseers	.N	
				4653954			Tellus Bahia Propriedades Agrícolas Ltda.	.BRA	.NIA	Tellus Brasil Participaco S.A.	Ownership	100.000	TIAA Board of Overseers	.N	
				4653981			Jatobá Propriedades Agrícolas Ltda.	.BRA	.NIA	Tellus Brasil Participaco S.A.	Ownership	100.000	TIAA Board of Overseers	.N	
				4644505			Terra do Sol Propriedades Agrícolas S.A.	.BRA	.NIA	Tellus Brasil Participaco S.A.	Ownership	100.000	TIAA Board of Overseers	.N	
				4644514			Terrainvest Propriedades Agrícolas S.A.	.BRA	.NIA	Tellus Brasil Participaco S.A.	Ownership	100.000	TIAA Board of Overseers	.N	
				4646282			Tparone Participações S.A.	.BRA	.NIA	Tellus Brasil Participaco S.A.	Ownership	100.000	TIAA Board of Overseers	.N	
				4646303			Toperone Agrícola S.A.	.BRA	.NIA	Tparone Participações S.A.	Ownership	100.000	TIAA Board of Overseers	.N	
				4646291			Tpartwo Participações S.A.	.BRA	.NIA	Tellus Brasil Participaco S.A.	Ownership	100.000	TIAA Board of Overseers	.N	
				4646312			Topertwo Agrícola S.A.	.BRA	.NIA	Tpartwo Participações S.A.	Ownership	100.000	TIAA Board of Overseers	.N	
			45-1502187	4640011			TIAA-CREF Global Agriculture BR, LLC	.DE	.NIA	TIAA-CREF Global Agriculture LLC	Ownership	100.000	TIAA Board of Overseers	.N	
				4643094			Nova Gaia Brasil Participaco Ltda.	.BRA	.NIA	TIAA-CREF Global Agriculture BR, LLC	Ownership	0.010	TIAA Board of Overseers	.N	3900
				4644484			Terraviva Brasil Participaco Ltda.	.BRA	.NIA	TIAA-CREF Global Agriculture BR, LLC	Ownership	0.010	TIAA Board of Overseers	.N	4100
			47-0974399	4753591	1616610		TIAA-CREF Global Agriculture II LLC	.DE	.NIA	TIAA Global Ag Holdco LLC	Management		TIAA Board of Overseers	.N	
			47-1062423	4755447			TIAA-CREF Global Agriculture II BR, LLC	.DE	.NIA	TIAA-CREF Global Agriculture II LLC	Ownership	100.000	TIAA Board of Overseers	.N	
				46-2860100	4599276		TIAA Global Equity Income, LLC	.DE	.NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Overseers	.N	
				26-3594208	4863502		TIAA Global Public Investments, LLC	.DE	.NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Overseers	.N	
				46-3881813	4599892		TIAA GTR HoldCo, LLC	.DE	.NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Overseers	.N	
				46-3210500	4724023		Global Timber Resources LLC	.DE	.NIA	TIAA GTR HoldCo, LLC	Ownership	50.000	TIAA Board of Overseers	.N	
				46-3909387	4868431		Global Timber SA LLC	.DE	.NIA	Global Timber Resources LLC	Ownership	100.000	TIAA Board of Overseers	.N	
				46-3899490	4801906		Global Timber International LLC	.ESP	.NIA	Global Timber Resources LLC	Ownership	100.000	TIAA Board of Overseers	.N	
					4802789		Global Timber Spain, SL	.ESP	.NIA	Global Timber International LLC	Ownership	100.000	TIAA Board of Overseers	.N	
					4868440		Forestal GTR Chile Limitada	.CHL	.NIA	Global Timber Spain, SL	Ownership	99.900	TIAA Board of Overseers	.N	
			98-1206384	4803151			Forestal Monterrey Colombia SAS	.COL	.NIA	Global Timber Spain, SL	Ownership	82.400	TIAA Board of Overseers	.N	
				5165454			Global Timber Resources Colombia, S.A.S.	.COL	.NIA	Global Timber Spain, SL	Ownership	100.000	TIAA Board of Overseers	.N	
							Monte Fresnos Asociacion Agraria de Responsabilidad LTDA	.URY	.NIA	Global Timber Spain, SL	Ownership	100.000	TIAA Board of Overseers	.N	
				5183458			Monte Fresnos, S.A.	.URY	.NIA	Global Timber Spain, SL	Ownership	100.000	TIAA Board of Overseers	.N	
							Taurion Asociacion Agraria de Responsabilidad LTDA	.URY	.NIA	Global Timber Spain, SL	Ownership	100.000	TIAA Board of Overseers	.N	
				5183430			Taurion, S.A.	.URY	.NIA	Global Timber Spain, SL	Ownership	100.000	TIAA Board of Overseers	.N	
				5183449			GT Europe Cooperatief U.A.	.NLD	.NIA	Global Timber International LLC	Ownership	100.000	TIAA Board of Overseers	.N	
				4866905			Global Timber NL, B.V.	.NLD	.NIA	GT Europe Cooperatief U.A.	Ownership	100.000	TIAA Board of Overseers	.N	
				4900425			GTR Brasil Participacoes Ltda	.BRA	.NIA	Global Timber NL, B.V.	Ownership	100.000	TIAA Board of Overseers	.N	
				4901543			Brasilwood Reflorestamento S.A.	.BRA	.NIA	GTR Brasil Participacoes Ltda	Ownership	100.000	TIAA Board of Overseers	.N	
				4902380			Brasilwood Terras Florestais S.A.	.BRA	.NIA	GTR Brasil Participacoes Ltda	Ownership	96.300	TIAA Board of Overseers	.N	
							Khaya Woods Investimentos Florestais LTDA	.BRA	.NIA	GTR Brasil Participacoes Ltda	Ownership	80.000	TIAA Board of Overseers	.N	
							Mamoneira Agropastoril S.A.	.BRA	.NIA	GTR Brasil Participacoes Ltda	Influence		TIAA Board of Overseers	.N	
				5198809			Jatoba Brasil Investimentos Florestais Ltda	.BRA	.NIA	GTR Brasil Participacoes Ltda	Ownership	100.000	TIAA Board of Overseers	.N	
				5198818			Paineira Investimentos Florestais S.A.	.BRA	.NIA	GTR Brasil Participacoes Ltda	Ownership	97.000	TIAA Board of Overseers	.N	

STATEMENT AS OF SEPTEMBER 30, 2019 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? (Y/N)	*
				4801915			IPOPEMA 95 Closed Investment Fund of Non-Public Assets	.POL	NIA	Global Timber NL, B.V.	Ownership	100.000	TIAA Board of Overseers	.N	
				4868422			EKO Topola Sp. z.o.o.	.POL	NIA	IPOPEMA 95 Closed Investment Fund of Non-Public Assets	Ownership	100.000	TIAA Board of Overseers	.N	
				4802800			Brusno Resort Sp. z.o.o.	.POL	NIA	IPOPEMA 95 Closed Investment Fund of Non-Public Assets	Ownership	100.000	TIAA Board of Overseers	.N	
			45-3479281	4599306			TIAA Infrastructure Investments, LLC	.DE	NIA	Teachers Insurance and Annuity Association of America	Ownership	100.000	TIAA Board of Overseers	.N	
			81-5307354	51539833			730 Parking LLC	.DE	NIA	TIAA Infrastructure Investments, LLC	Ownership	100.000	TIAA Board of Overseers	.N	
			81-5302296	5157879			730 Interpark, LLC	.DE	NIA	730 Parking LLC	Ownership	100.000	TIAA Board of Overseers	.N	
				4626109			Aquila Sonnet LP	.CAN	NIA	TIAA Infrastructure Investments, LLC	Influence		TIAA Board of Overseers	.N	
			30-0701953	4619530			TORO/EPP II, LLC	.DE	NIA	TIAA Infrastructure Investments, LLC	Influence		TIAA Board of Overseers	.N	
			38-3857916	4602813			I 595 Toll Road, LLC	.DE	NIA	TIAA Infrastructure Investments, LLC	Ownership	100.000	TIAA Board of Overseers	.N	
			26-4139252	4643339			I 595 Express, LLC	.DE	NIA	I 595 Toll Road, LLC	Ownership	50.000	TIAA Board of Overseers	.N	
							North American Sustainable Energy Fund, L.P.								
			46-5279686	4810775				.DE	NIA	TIAA Infrastructure Investments, LLC	Ownership	100.000	TIAA Board of Overseers	.N	
							McCommas Bluff Holdings LLC	.DE	NIA	North American Sustainable Energy Fund, L.P.	Influence		TIAA Board of Overseers	.N	
				4895660			Dallas Clean Energy, LLC	.DE	NIA	McCommas Bluff Holdings LLC	Ownership	51.000	TIAA Board of Overseers	.N	
				4896331			Dallas Clean Energy McCommas Bluff, LLC	.DE	NIA	Dallas Clean Energy, LLC	Ownership	100.000	TIAA Board of Overseers	.N	
										North American Sustainable Energy Fund, L.P.					
				4946852			Energy Power Investment Company, LLC	.DE	NIA	L.P.	Ownership	90.500	TIAA Board of Overseers	.N	
				4947318			EPP Renewable Energy, LLC	.DE	NIA	Energy Power Investment Company, LLC	Ownership	100.000	TIAA Board of Overseers	.N	
							EPP New Jersey Biogas, LLC	.DE	NIA	EPP Renewable Energy, LLC	Ownership	100.000	TIAA Board of Overseers	.N	
							EPP New Jersey Solar, LLC	.DE	NIA	EPP Renewable Energy, LLC	Ownership	100.000	TIAA Board of Overseers	.N	
										Teachers Insurance and Annuity Association of America					
			45-2665869	4601115			TIAA Oil and Gas Investments, LLC	.DE	NIA	of America	Ownership	100.000	TIAA Board of Overseers	.N	
			45-1286237	4602877			Actgas, LLC	.DE	NIA	TIAA Oil and Gas Investments, LLC	Ownership	100.000	TIAA Board of Overseers	.N	
			46-3410649	4602925			Actoil Bakken, LLC	.DE	NIA	TIAA Oil and Gas Investments, LLC	Ownership	100.000	TIAA Board of Overseers	.N	
			98-0430762	4651530			Triangle Petroleum Corp	.CO	NIA	Actoil Bakken, LLC	Influence		TIAA Board of Overseers	.N	
			46-3628993	4602934			Actoil Utica, LLC	.DE	NIA	TIAA Oil and Gas Investments, LLC	Ownership	100.000	TIAA Board of Overseers	.N	
										Teachers Insurance and Annuity Association of America					
			11-3519531	4601133			TIAA Realty, LLC	.DE	NIA	of America	Ownership	100.000	TIAA Board of Overseers	.N	
			81-0902394	4949125			T-C 77 Central LLC	.DE	NIA	TIAA Realty, LLC	Ownership	100.000	TIAA Board of Overseers	.N	
			47-2249307	4763161			T-C 680 Belleville LLC	.DE	NIA	TIAA Realty, LLC	Ownership	100.000	TIAA Board of Overseers	.N	
			46-2678242	4611721			T-C Port Northwest Development, LLC	.DE	NIA	TIAA Realty, LLC	Ownership	100.000	TIAA Board of Overseers	.N	
			81-3961919	5047626			TGA 70 Federal Street LLC	.DE	NIA	TIAA Realty, LLC	Ownership	100.000	TIAA Board of Overseers	.N	
										Teachers Insurance and Annuity Association of America					
			82-2885306				TIAA RFS, LLC	.DE	NIA	of America	Ownership	100.000	TIAA Board of Overseers	.N	
			82-2335773				TIAA Advisory, LLC	.DE	NIA	TIAA RFS, LLC	Ownership	100.000	TIAA Board of Overseers	.N	
			20-2904312	4314479			TIAA-CREF Insurance Agency, LLC	.DE	NIA	TIAA RFS, LLC	Ownership	100.000	TIAA Board of Overseers	.N	
										Teachers Insurance and Annuity Association of America					
			81-2755014	5011346			TIAA SMA Strategies, LLC	.DE	NIA	of America	Ownership	100.000	TIAA Board of Overseers	.N	
										Teachers Insurance and Annuity Association of America					
			45-3029655	4601197			TIAA-Stonepeak Investments I, LLC	.DE	NIA	of America	Ownership	100.000	TIAA Board of Overseers	.N	
			38-3849546	4603155			Stonepeak Infrastructure Fund LP	.DE	NIA	TIAA-Stonepeak Investments I, LLC	Influence		TIAA Board of Overseers	.N	
										Teachers Insurance and Annuity Association of America					
			45-3030923	4601245			TIAA-Stonepeak Investments II, LLC	.DE	NIA	of America	Ownership	100.000	TIAA Board of Overseers	.N	
			30-0696099	4643955			Stonepeak GP Holdings LP	.DE	NIA	TIAA-Stonepeak Investments II, LLC	Ownership	50.000	TIAA Board of Overseers	.N	
			37-1645802	4643919			Stonepeak Advisors Holdings LLC	.DE	NIA	TIAA-Stonepeak Investments II, LLC	Influence		TIAA Board of Overseers	.N	
										Teachers Insurance and Annuity Association of America					
			45-3164600	4601348			TIAA Super Regional Mall Member Sub, LLC	.DE	NIA	of America	Ownership	100.000	TIAA Board of Overseers	.N	
			45-3164764	4644055			T-C Super Regional Mall Venture, LLC	.DE	NIA	TIAA Super Regional Mall Member Sub, LLC	Ownership	51.000	TIAA Board of Overseers	.N	
			46-4623585	4801821	1614181		T-C International Plaza REIT LLC	.DE	NIA	T-C Super Regional Mall Venture, LLC	Ownership	100.000	TIAA Board of Overseers	.N	

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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			46-4653326	4801830			T-C International Plaza Investor GP LLC	DE	NIA.....	T-C International Plaza REIT LLC	Ownership.....	100.000	TIAA Board of OverseersN	
			46-4680948	4801849			T-C International Plaza Investor LP LLC	DE	NIA.....	T-C International Plaza REIT LLC	Ownership.....	100.000	TIAA Board of Overseers .....	..N	
							Tampa Westshore Associates Limited Partnership	DE	NIA.....	T-C International Plaza Investor LP LLC	Influence.....		TIAA Board of Overseers .....	..N	
			38-3173536	2884259			T-C Las Vegas Retail REIT LLC	DE	NIA.....	T-C Super Regional Mall Venture, LLC	Ownership.....	100.000	TIAA Board of Overseers .....	..N	
			46-2713521	4604116	1595474		T-C Las Vegas Retail Investor LLC	DE	NIA.....	T-C Las Vegas Retail REIT LLC	Ownership.....	100.000	TIAA Board of Overseers .....	..N	
			46-2726147	4612979			Grand Canal Shoppes Holdings, LLC	DE	NIA.....	T-C Las Vegas Retail Investor LLC	Influence.....		TIAA Board of Overseers .....	..N	
				4615617			T-C Midwest REIT, LLC	DE	NIA.....	T-C Super Regional Mall Venture, LLC	Ownership.....	99.800	TIAA Board of Overseers .....	..N	
			45-3165203	4644064	1544129		T-C Midwest Retail, LLC	DE	NIA.....	T-C Midwest REIT, LLC	Ownership.....	100.000	TIAA Board of Overseers .....	..N	
			45-2211957	4644073			CBL/T-C, LLC	DE	NIA.....	T-C Midwest Retail, LLC	Ownership.....	50.000	TIAA Board of Overseers .....	..N	
				4644288			T-C Montgomery Mall REIT, LLC	DE	NIA.....	T-C Super Regional Mall Venture, LLC	Ownership.....	99.800	TIAA Board of Overseers .....	..N	
			45-3164998	4644082	1544127		T-C Montgomery Mall, LLC	DE	NIA.....	T-C Montgomery Mall REIT, LLC	Ownership.....	100.000	TIAA Board of Overseers .....	..N	
			27-4117159	4644091			Montgomery Mall of Maryland, LLC	MD	NIA.....	T-C Montgomery Mall, LLC	Ownership.....	50.000	TIAA Board of Overseers .....	..N	
			95-4658637	4644886						Teachers Insurance and Annuity Association of America	Ownership.....	100.000	TIAA Board of Overseers .....	..N	
			45-1286386	4601526			TIAA SynGas, LLC	DE	NIA.....	TIAA SynGas, LLC	Ownership.....	100.000	TIAA Board of Overseers .....	..N	
			13-1624203	4741758			730 Catsolar, LLC	DE	NIA.....	730 Catsolar, LLC	Ownership.....	50.000	TIAA Board of Overseers .....	..N	
				4747835			Catalina Solar Lessee Holdco, LLC	CA	NIA.....	Catalina Solar Lessee Holdco, LLC	Ownership.....	100.000	TIAA Board of Overseers .....	..N	
				4749866			Catalina Solar Lessee, LLC	CA	NIA.....	TIAA SynGas, LLC	Influence.....		TIAA Board of Overseers .....	..N	
			56-2492641	4643900			SG Solutions, LLC	DE	NIA.....	TIAA SynGas, LLC	Ownership.....	57.000	TIAA Board of Overseers .....	..N	
			27-0195010	4626088			AE Investor II, LLC	DE	NIA.....	Teachers Insurance and Annuity Association of America	Ownership.....	100.000	TIAA Board of Overseers .....	..N	
							TIAA Wind Investments, LLC	DE	NIA.....	TIAA Wind Investments, LLC	Influence.....		TIAA Board of Overseers .....	..N	
			45-4486211	4602886			Capistrano Wind Partners, LLC	DE	NIA.....	Teachers Insurance and Annuity Association of America	Ownership.....	100.000	TIAA Board of Overseers .....	..N	
			45-3743502	4626136						TIAA-CREF LPHC, LLC	Ownership.....	100.000	TIAA Board of Overseers .....	..N	
				4599490			TCAM DOF GP, LLC	DE	NIA.....	TIAA-CREF LPHC, LLC	Ownership.....	100.000	TIAA Board of Overseers .....	..N	
			26-3561391	4863539			TIAA-CREF Real Property Fund GP, LLC	DE	NIA.....	TCAM DOF GP, LLC	Ownership.....	100.000	TIAA Board of Overseers .....	..N	
			46-1191235	5018671	1611288		TIAA-CREF Individual & Institutional Services, LLC	DE	NIA.....	Teachers Insurance and Annuity Association of America	Ownership.....	100.000	TIAA Board of Overseers .....	..N	
			55-0856733	4314349	882928					Teachers Insurance and Annuity Association of America	Ownership.....	100.000	TIAA Board of Overseers .....	..N	
			20-5591124	4314273			TIAA-CREF Redwood, LLC	DE	NIA.....	TIAA Endowment & Philanthropic Servives, LLC	Ownership.....	100.000	TIAA Board of Overseers .....	..N	
				4314282						TIAA-CREF Redwood, LLC	Ownership.....	100.000	TIAA Board of Overseers .....	..N	
			35-2429521	4612858			CCAP GP, LLC	DE	NIA.....	TIAA Endowment & Philanthropic Servives, LLC	Ownership.....	100.000	TIAA Board of Overseers .....	..N	
										Teachers Insurance and Annuity Association of America	Ownership.....	100.000	TIAA Board of Overseers .....	..N	
			13-4026557	4314116	1627236		TIAA-CREF Tuition Financing, Inc.	DE	NIA.....	Teachers Insurance and Annuity Association of America	Ownership.....	100.000	TIAA Board of Overseers .....	..N	
										Teachers Insurance and Annuity Association of America	Ownership.....	100.000	TIAA Board of Overseers .....	..N	
			20-8892977	4599810			TIAA Union Place Phase I, LLC	DE	NIA.....	TIAA Union Place Phase I, LLC	Ownership.....	100.000	TIAA Board of Overseers .....	..N	
			20-8281443	4640066			Union Place Phase I, LLC	DE	NIA.....	Teachers Insurance and Annuity Association of America	Ownership.....	100.000	TIAA Board of Overseers .....	..N	
				4844163			UK PPP Investments, LP	GBR	NIA.....	Teachers Insurance and Annuity Association of America	Ownership.....	100.000	TIAA Board of Overseers .....	..N	
				4848590			Wigg (Holdings) Limited	GBR	NIA.....	UK PPP Investments, LP	Ownership.....	100.000	TIAA Board of Overseers .....	..N	
				4848983			Wigg Investments Limited	GBR	NIA.....	Wigg (Holdings) Limited	Ownership.....	100.000	TIAA Board of Overseers .....	..N	
				4849739			Merseylink (Holdings) Limited	GBR	NIA.....	Wigg Investments Limited	Influence.....		TIAA Board of Overseers .....	..N	
				4852298			Merseylink (Finance) Limited	GBR	NIA.....	Merseylink (Holdings) Limited	Ownership.....	100.000	TIAA Board of Overseers .....	..N	
				4860239			Merseylink Limited	GBR	NIA.....	Merseylink (Finance) Limited	Ownership.....	100.000	TIAA Board of Overseers .....	..N	
				4858638			Merseylink (Issuer) plc	GBR	NIA.....	Merseylink (Finance) Limited	Ownership.....	100.000	TIAA Board of Overseers .....	..N	
										Teachers Insurance and Annuity Association of America	Ownership.....	100.000	TIAA Board of Overseers .....	..N	
							U.S. Cities Retail Fund LP	DE	NIA.....	U.S. Cities Retail Fund LP	Ownership.....	100.000	TIAA Board of Overseers .....	..N	
							U.S. Cities Retail Fund REIT LLC	DE	NIA.....	U.S. Cities Retail Fund REIT LLC	Ownership.....	100.000	TIAA Board of Overseers .....	..N	
							U.S. Cities Retail Fund Operating GP LLC	DE	NIA.....	U.S. Cities Retail Fund REIT LLC	Ownership.....	100.000	TIAA Board of Overseers .....	..N	
							U.S. Cities Retail Fund Operating LP	DE	NIA.....	U.S. Cities Retail Fund REIT LLC	Ownership.....	100.000	TIAA Board of Overseers .....	..N	
			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 Overseers .....	..N	

STATEMENT AS OF SEPTEMBER 30, 2019 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
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							USCRF KRG JV Investor Member LLC	DE	NIA.....	U.S. Cities Retail Fund Operating LP	Ownership.....	100.000	TIAA Board of OverseersN.....	
							KRG USCRF Retail Portfolio LLC	DE	NIA.....	USCRF KRG JV Investor Member LLC	Ownership.....	100.000	TIAA Board of Overseers .....	..N.....	
							KRG 951 & 41, LLC	DE	NIA.....	KRG USCRF Retail Portfolio LLC	Ownership.....	100.000	TIAA Board of Overseers .....	..N.....	
							KRG Livingston Center, LLC	DE	NIA.....	KRG USCRF Retail Portfolio LLC	Ownership.....	100.000	TIAA Board of Overseers .....	..N.....	
							KRG-USCRF Plaza Volente, LLC	DE	NIA.....	KRG USCRF Retail Portfolio LLC	Ownership.....	100.000	TIAA Board of Overseers .....	..N.....	
			82-3988257				U.S. Core-Plus Real Estate Debt Fund LP	DE	NIA.....	Teachers Insurance and Annuity Association of America	Management.....		TIAA Board of Overseers .....	..N.....	
			82-3760575				CRED REIT LLC	DE	NIA.....	U.S. Core+ Real Estate Debt Fund LP	Ownership.....	100.000	TIAA Board of Overseers .....	..N.....	
			47-1938723				CRED REIT Holdco LLC	DE	NIA.....	CRED REIT LLC	Ownership.....	100.000	TIAA Board of Overseers .....	..N.....	
			83-2024014				CRED REIT Holdco Seller LLC	DE	NIA.....	CRED REIT Holdco LLC	Ownership.....	100.000	TIAA Board of Overseers .....	..N.....	
			81-1392434				CRED REIT Holdco TRS LLC	DE	NIA.....	CRED REIT Holdco LLC	Ownership.....	100.000	TIAA Board of Overseers .....	..N.....	
			82-4800804				CRED REIT Manager LLC	DE	NIA.....	CRED REIT Holdco LLC	Ownership.....	100.000	TIAA Board of Overseers .....	..N.....	
			82-5347019				CRED REIT Member LP	DE	NIA.....	CRED REIT Holdco LLC	Ownership.....	100.000	TIAA Board of Overseers .....	..N.....	
			83-2267896				CRED Sawtelle LLC	DE	NIA.....	CRED REIT Holdco LLC	Ownership.....	100.000	TIAA Board of Overseers .....	..N.....	
			83-3184068				CRED Slabtown LLC	DE	NIA.....	CRED REIT Holdco LLC	Ownership.....	100.000	TIAA Board of Overseers .....	..N.....	
			83-4107560				CRED West Coast Industrial LLC	DE	NIA.....	CRED REIT Holdco LLC	Ownership.....	100.000	TIAA Board of Overseers .....	..N.....	
			51-0141732	4599829			WRC Properties, LLC	DE	NIA.....	Teachers Insurance and Annuity Association of America	Ownership.....	100.000	TIAA Board of Overseers .....	..N.....	
				4630601			Stichting Bewaarder Ziemia Fund	NLD	NIA.....	Teachers Insurance and Annuity Association of America	Influence.....		TIAA Board of Overseers .....	..N.....	

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	Greenwood Resources Brasil, Ltda. is ultimately controlled and owned entirely by TIAA, with 99% owned by GWR Property Management International, LLC and 1% owned by Greenwood Resources, Inc.
0300	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.
0400	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
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	Nuveen Real Estate 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.
1100	European Cities Partnership SCSp is owned 29.8% by T-C Lux Investments Special Limited Partnership and 1% by European Cities Partnership (GP) S.à.r.l.
1200	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.
1300	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.
1400	Westchester Group South America Gestao de Investimentos Ltda. is controlled and owned entirely by TIAA, with 99% owned by Westchester Group Investment Management, Inc. and 1% owned by Westchester Group Real Estate, Inc.
1500	Symphony Asset Management, LLC is ultimately controlled and owned entirely by TIAA, with 51% owned by Nuveen Investments, Inc. and 49% owned by Nuveen Investments Holdings, Inc.
1600	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%.
1700	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.
1800	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.
1900	Global Real Estate Debt Partners Fund I (UK) is controlled by TIAA, which owns 36.3%. T-C Lux Investments Special Limited Partnership, which is 100% owned by TIAA, owns 24.3%.
2000	Cityhold Nymphe S.à r.l. (Nymphe) is ultimately controlled by TIAA via a 50% ownership of Cityhold Office Partnership S.à r.l., which owns 88% of Nymphe, and 6% owned by wholly-owned ND Europe Office Holding S.à r.l.
2100	Cityhold Euro S.à r.l. (CES) is ultimately controlled by TIAA via a 50% ownership of Cityhold Propco 9 S.à r.l., which owns 88% of CES, and 6% owned by wholly-owned ND Europe Office Holding S.à r.l.
2200	SNC Roosevelt is ultimately controlled by TIAA via a 50% 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%).
2300	London Belgrave Unit Trust (LBUT) is ultimately controlled by TIAA via a 50% 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%).
2400	New Fetter Lane Unit Trust (NFLUT) is ultimately controlled by TIAA via a 50% 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%).
2500	60 Great Portland Street Unit Trust (60GPS) is ultimately controlled by TIAA via a 50% 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%).
2600	70 St. Mary Axe Unit Trust (SMAUT) is ultimately controlled by TIAA via a 50% 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%).

STATEMENT AS OF SEPTEMBER 30, 2019 OF THE TIAA-CREF LIFE INSURANCE COMPANY

Asterisk	Explanation
2700	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%
2800	Erlangen Arcaden GmbH & Co. KG is controlled by TIAA, and partially owned by TIAA Lux 5 S.à r.l., which owns 94.9% and Erlangen Arcaden Verwaltungs GmbH which owns 5.1%
2900	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.
3000	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.
3100	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%).
3200	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
3300	CPPIB-TIAA US Real Property Fund LP is controlled by TIAA, which owns 50%. T-C SMA I, LLC, which is 100% owned by TIAA, is the General Partner and owns 1%
3400	Thurrock Retail Park Unit Trust is ultimately controlled and owned entirely by TIAA with 99.5% owned by T-C UK RE Holdings III, LLC and 0.5% owned by T-C UK RE Holdings II, LLC.
3500	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%.
3600	Asia Pacific Cities Fund, FCP is owned 38.6% by TGA APAC Fund Holdings, LLC and 38.6% by TGA Real Estate Fund Holdings, LLC
3700	Viertel Zwei Entwicklung GmbH & Co Studenthouse 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%.
3800	TGA Ginza115 TMK is ultimately controlled and owned entirely by TIAA, with 51% owned by TGA Japan GK Holdings Pte Ltd and 49% of owned by TGA Ginza 115 Holdings Pte Ltd.
3900	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.
4000	Tellus Brasil Participaco S.A. is owned 48.9% by Terraviva Brasil Participaco Ltda. and 0.47% by Nova Gaia Brasil Participaco Ltda.
4100	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, 2019 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.

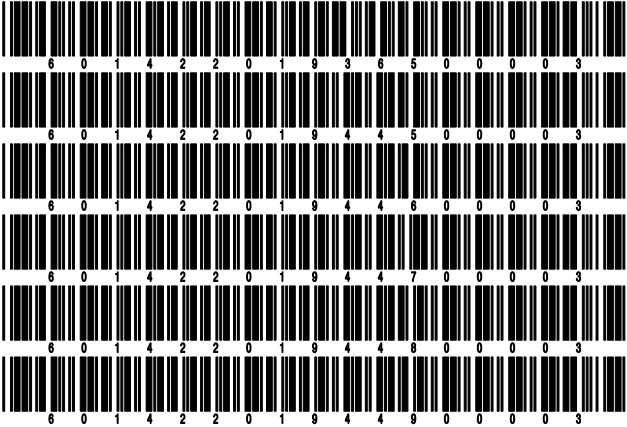
	Response
1. Will the Trusteed Surplus Statement be filed with the state of domicile and the NAIC with this statement?	SEE EXPLANATION
2. Will the Medicare Part D Coverage Supplement be filed with the state of domicile and the NAIC with this statement?	NO
3. Will the Reasonableness of Assumptions Certification 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

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 investment and commitment fees		
9. Total foreign exchange change in book value/recorded investment including 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	4,707,025	5,926,925
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	894	1,120
5. Unrealized valuation increase (decrease)		(201,711)
6. Total gain (loss) on disposals		
7. Deduct amounts received on disposals		1,000,000
8. Deduct amortization of premium and depreciation	15,227	19,309
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)	4,692,692	4,707,025
12. Deduct total nonadmitted amounts		
13. Statement value at end of current period (Line 11 minus Line 12)	4,692,692	4,707,025

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	7,913,354,524	7,240,269,190
2. Cost of bonds and stocks acquired	1,231,483,160	1,483,500,442
3. Accrual of discount	3,093,392	4,453,560
4. Unrealized valuation increase (decrease)		
5. Total gain (loss) on disposals	5,183,730	3,985,112
6. Deduct consideration for bonds and stocks disposed of	715,807,673	808,056,001
7. Deduct amortization of premium	4,084,994	5,184,508
8. Total foreign exchange change in book/adjusted carrying value		
9. Deduct current year's other than temporary impairment recognized	9,476,579	5,868,457
10. Total investment income recognized as a result of prepayment penalties and/or acceleration fees	498,492	255,186
11. Book/adjusted carrying value at end of current period (Lines 1+2+3+4+5-6-7+8-9+10)	8,424,244,052	7,913,354,524
12. Deduct total nonadmitted amounts		
13. Statement value at end of current period (Line 11 minus Line 12)	8,424,244,052	7,913,354,524

STATEMENT AS OF SEPTEMBER 30, 2019 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)	5,203,285,813	1,294,539,377	1,195,939,563	(30,540,969)	5,047,217,296	5,203,285,813	5,271,344,658	4,791,125,138
2. NAIC 2 (a)	3,311,144,769	81,841,509	127,573,126	37,288,390	3,225,713,490	3,311,144,769	3,302,701,542	3,243,363,655
3. NAIC 3 (a)	19,968,087			(4,455,411)	15,518,305	19,968,087	15,512,676	22,003,839
4. NAIC 4 (a)	22,336,315		28,082	(21,842,583)	24,957,543	22,336,315	465,650	24,977,238
5. NAIC 5 (a)	602,635		40,110	12,471,707	1,286,892	602,635	13,034,232	679,648
6. NAIC 6 (a)					9,554,375			
7. Total Bonds	8,557,337,619	1,376,380,886	1,323,580,881	(7,078,866)	8,324,247,901	8,557,337,619	8,603,058,758	8,082,149,518
PREFERRED STOCK								
8. NAIC 1								
9. NAIC 2								
10. NAIC 3								
11. NAIC 4								
12. NAIC 5								
13. NAIC 6	182,882				182,882	182,882	182,882	182,882
14. Total Preferred Stock	182,882				182,882	182,882	182,882	182,882
15. Total Bonds and Preferred Stock	8,557,520,501	1,376,380,886	1,323,580,881	(7,078,866)	8,324,430,783	8,557,520,501	8,603,241,640	8,082,332,400

(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 \$178,997,601 ; 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	Par Value	Cost	Interest Collected Year-to-Date	Paid for Accrued Interest Year-to-Date
9199999 Totals					

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		20,927,766
2. Cost of short-term investments acquired		
3. Accrual of discount		26,183
4. Unrealized valuation increase (decrease)		
5. Total gain (loss) on disposals		2,078
6. Deduct consideration received on disposals		20,956,027
7. Deduct amortization of premium		
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)		
11. Deduct total nonadmitted amounts		
12. Statement value at end of current period (Line 10 minus Line 11)		

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	168,977,887	78,997,366
2. Cost of cash equivalents acquired	6,419,737,784	9,350,087,632
3. Accrual of discount	839,838	852,986
4. Unrealized valuation increase (decrease)		
5. Total gain (loss) on disposals	(288)	(1,766)
6. Deduct consideration received on disposals	6,410,557,620	9,260,958,331
7. Deduct amortization of premium		
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)	178,997,601	168,977,887
11. Deduct total nonadmitted amounts		
12. Statement value at end of current period (Line 10 minus Line 11)	178,997,601	168,977,887

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, 2019 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 and Administrative Symbol/Market Indicator (a)
072024-WT-5	BAY AREA CA TOLL AUTH TOLL BRI Bay Area Toll Authority 3.552 3.552% 04/01/54		09/20/2019	BANK OF AMERICA		10,845,000	10,845,000		1FE
3136B3-EW-6	FNR 2018-78 ZB Z 4.000% 10/25/48		09/01/2019	Interest Capitalization		103,384	103,384		1
3137BB-FB-1	FHR 4352 ZW EXCH Z SEQ 3.000% 06/15/44		09/01/2019	Interest Capitalization		97,957	97,957		1
3137BG-3K-3	FHR 4430 Z Z SEQ 4.000% 01/15/45		09/01/2019	Interest Capitalization		119,686	119,686		1
3137BN-ED-2	FHR 4565 DZ Z SEQ 3.000% 03/15/46		09/01/2019	Interest Capitalization		41,672	41,672		1
3137BP-Q2-8	FHR 4579 GZ Z SEQ 3.000% 05/15/46		09/01/2019	Interest Capitalization		87,695	87,695		1
3137BT-2L-4	FHR 4631 VZ Z SEQ 3.500% 11/15/46		09/01/2019	Interest Capitalization		40,944	40,944		1
3137BW-HK-3	FHR 4665 NZ Z SEQ 3.500% 02/15/47		09/01/2019	Interest Capitalization		37,385	37,385		1
3137FG-3N-3	FHR 4801 ZD Z SEQ 4.000% 06/15/48		09/01/2019	Interest Capitalization		106,865	106,865		1
31397U-RC-5	FNR 2011-53 TN EXCH PT 4.000% 06/25/41		09/25/2019	CANTOR FITZGERALD & CO.		521,619	490,358	1,580	1
89602R-FM-2	TRIBOROUGH BRIDGE & TUNNEL AUT Triborough Bridge & Tunne 3.42 3.427% 11/15/44		09/20/2019	JP MORGAN SECURITIES		6,250,000	6,250,000		1FE
3199999. Subtotal - Bonds - U.S. Special Revenues						18,252,207	18,220,946	1,580	XXX
015271-AR-0	ALEXANDRIA REAL ESTATE E CO.GUARNT 3.375% 08/15/31		07/09/2019	Various		5,001,666	5,000,000		2FE
015271-AT-6	ALEXANDRIA REAL ESTATE E CO.GUARNT 2.750% 12/15/29		09/03/2019	JP MORGAN SECURITIES		3,868,878	3,875,000		2FE
06051G-HV-4	BANK OF AMERICA CORP SR UNSEC 3.194% 07/23/30		07/18/2019	Various		6,506,270	6,500,000		1FE
092113-AR-0	BLACK HILLS CORP SR UNSEC 3.050% 10/15/29		09/26/2019	BANK OF AMERICA		8,969,040	9,000,000		2FE
125523-AJ-2	CIGNA CORP CO.GUARNT 4.800% 08/15/38		08/27/2019	Tax Free Exchange		2,981,889	3,000,000	4,800	2FE
125523-AK-6	CIGNA CORP CO.GUARNT 4.900% 12/15/48		08/27/2019	Tax Free Exchange		2,973,724	3,000,000	29,400	2FE
254687-FL-5	WALT DISNEY COMPANY/THE CO.GUARNT 2.000% 09/01/29		09/03/2019	JP MORGAN SECURITIES		640,361	650,000		1FE
314180-FN-7	FN MA3772 3.500% 09/01/39		09/24/2019	JP MORGAN SECURITIES		15,481,531	14,933,202	13,067	1
416515-BF-0	HARTFORD FINL SVCS GRP Hartford Financial Servic 3.6 3.600% 08/19/49		08/08/2019	CREDIT SUISSE SECURITIES US LL		2,125,856	2,150,000		2FE
44107T-AY-2	HOST HOTELS & RESORTS LP SR UNSEC 3.375% 12/15/29		09/26/2019	MIZUHO SECURITIES USA INC.		7,996,800	8,000,000	3,000	2FE
44409M-AC-0	HUDSON PACIFIC PROPERTIE CO.GUARNT 3.250% 01/15/30		09/24/2019	WELLS FARGO		6,948,760	7,000,000		2FE
461070-AR-5	INTERSTATE POWER & LIGHT SR UNSEC 3.500% 09/30/49		09/19/2019	WELLS FARGO		3,986,720	4,000,000		2FE
502431-AA-7	L3HARRIS TECH INC SR UNSEC 4.950% 02/15/21		07/02/2019	Taxable Exchange		2,873,747	2,785,000	52,462	2FE
502431-AB-5	L3HARRIS TECH INC SR UNSEC 3.850% 06/15/23		07/02/2019	Taxable Exchange		2,658,380	2,550,000	4,636	2FE
502431-AD-1	L3HARRIS TECH INC SR UNSEC 3.850% 12/15/26		07/02/2019	Taxable Exchange		1,518,302	1,450,000	2,636	2FE
502431-AE-9	L3HARRIS TECH INC SR UNSEC 4.400% 06/15/28		07/02/2019	Taxable Exchange		11,473,479	10,500,000	21,817	2FE
534187-BJ-7	LINCOLN NATIONAL CORP SR UNSEC 3.050% 01/15/30		08/12/2019	WELLS FARGO		1,298,648	1,300,000		2FE
617446-BJ-1	MORGAN STANLEY SR UNSEC 2.720% 07/22/25		07/18/2019	Various		9,308,785	9,300,000		1FE
649840-CR-4	NY STATE ELECTRIC & GAS SR UNSEC 3.300% 09/15/49		09/03/2019	JP MORGAN SECURITIES		6,961,570	7,000,000		1FE
674599-DJ-1	OCCIDENTAL PETROLEUM COR SR UNSEC 6.200% 03/15/40		09/18/2019	Taxable Exchange		2,747,757	2,310,000	1,194	2FE
69351U-AW-3	PPL ELECTRIC UTILITIES 1ST MORTG 3.000% 10/01/49		09/03/2019	WELLS FARGO		5,678,038	5,775,000		1FE
743820-AA-0	PROV ST JOSEPH HLTH OBL UNSEC 2.532% 10/01/29		09/24/2019	GOLDMAN SACHS & COMPANY		18,765,000	18,765,000		1FE
744320-CF-0	PRUDENTIAL FINANCIAL INC SR UNSEC 3.700% 03/13/51		09/10/2019	GOLDMAN SACHS & COMPANY		1,986,360	2,000,000		1FE
744448-CS-8	PUBLIC SERVICE COLORADO 1ST MORTG 3.200% 03/01/50		08/06/2019	BARCLAYS BANK PLC		2,664,144	2,700,000		1FE
744560-CA-2	PUBLIC SERVICE ELECTRIC 1ST MORTG 3.200% 08/01/49		08/08/2019	WELLS FARGO		1,389,850	1,400,000		1FE
745332-CJ-3	PUGET SOUND ENERGY INC SR SEC 3.250% 09/15/49		08/19/2019	MITSUBISHI UFJ SECURITIES USA		1,341,266	1,350,000		1FE
75884R-AZ-6	REGENCY CENTERS LP CO.GUARNT 2.950% 09/15/29		08/13/2019	U.S. BANCORP INVESTMENTS INC		2,997,090	3,000,000		2FE
75951A-AK-4	RELiance STAND LIFE II SECURED 2.625% 07/22/22		07/15/2019	JP MORGAN SECURITIES		4,573,170	4,575,000		1FE
82652M-AA-8	SFPC 2019-2A A SEQ 2.710% 05/20/36		07/16/2019	BARCLAYS BANK PLC		7,597,948	7,600,000		1FE
875127-BG-6	TAMPA ELECTRIC CO SR UNSEC 3.625% 06/15/50		07/30/2019	Various		9,533,554	9,600,000	3,524	1FE
904764-BH-9	UNILEVER CAPITAL CORP CO.GUARNT 2.125% 09/06/29		09/03/2019	BANK OF AMERICA		990,990	1,000,000		1FE
906548-CQ-3	UNION ELECTRIC CO 1ST MORTG 3.250% 10/01/49		09/23/2019	WELLS FARGO		4,982,850	5,000,000		1FE
91324P-DT-6	UNITEDHEALTH GROUP INC SR UNSEC 3.500% 08/15/39		07/23/2019	BANK OF AMERICA		2,648,678	2,675,000		1FE
91324P-DU-3	UNITEDHEALTH GROUP INC SR UNSEC 3.700% 08/15/49		07/23/2019	BANK OF AMERICA		7,474,200	7,500,000		1FE
928668-AZ-5	VOLKSWAGEN GROUP AMERICA CO.GUARNT 2.700% 09/26/22		09/19/2019	BANK OF AMERICA		11,420,773	11,425,000		2FE
95709T-AO-3	WESTAR ENERGY INC SR SEC 3.250% 09/01/49		08/12/2019	U.S. BANCORP INVESTMENTS INC		3,618,099	3,650,000		1FE
064159-QD-1	BANK OF NOVA SCOTIA SR UNSEC 2.375% 01/18/23	A.	07/15/2019	SCOTIA CAPITAL INC		5,547,392	5,550,000		1FE
136069-BA-2	CANADIAN IMPERIAL BANK SR UNSEC 2.606% 07/22/23	A.	07/15/2019	CITIGROUP GLOBAL MARKETS INC		4,250,000	4,250,000		1FE
05578A-AN-8	BPCE SA SR UNSEC 2.700% 10/01/29	D.	09/25/2019	RBC DAIN RAUSCHER INC.		6,950,790	7,000,000		1FE
25243Y-BB-4	DIAGEO CAPITAL PLC CO.GUARNT 2.375% 10/24/29	D.	09/30/2019	DEUTSCHE BANK SECURITIES INCOR		11,594,232	11,700,000		1FE
606822-BJ-2	MITSUBISHI UFJ FIN GRP SR UNSEC 2.801% 07/18/24	D.	07/11/2019	MORGAN STANLEY & CO. INC.		3,000,000	3,000,000		1FE
74977R-DF-8	COOPERATIVE RABOBANK UA SR UNSEC 2.625% 07/22/24	D.	07/15/2019	GOLDMAN SACHS & COMPANY		3,292,179	3,300,000		1FE
3899999. Subtotal - Bonds - Industrial and Miscellaneous (Unaffiliated)						228,618,766	227,118,202	136,536	XXX
8399997. Total - Bonds - Part 3						246,870,973	245,339,148	138,116	XXX

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 and Admini- strative Symbol/ Market Indicator (a)
8399998. Total - Bonds - Part 5						XXX	XXX	XXX	XXX
8399999. Total - Bonds						246,870,973	245,339,148	138,116	XXX
8999997. Total - Preferred Stocks - Part 3							XXX		XXX
8999998. Total - Preferred Stocks - Part 5						XXX	XXX	XXX	XXX
8999999. Total - Preferred Stocks							XXX		XXX
9799997. Total - Common Stocks - Part 3							XXX		XXX
9799998. Total - Common Stocks - Part 5						XXX	XXX	XXX	XXX
9799999. Total - Common Stocks							XXX		XXX
9899999. Total - Preferred and Common Stocks							XXX		XXX
9999999 - Totals						246,870,973	XXX	138,116	XXX

(a) For all common stock bearing the NAIC market indicator "U" provide: the number of such issues

STATEMENT AS OF SEPTEMBER 30, 2019 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 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 Recog- nized	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 and Admini- strative Symbol /Market Indicator (a)
228027-AA-6	VESSEL MANAGEMENT SERVIC US GOVT GUARANT 3.432% 08/15/36		08/15/2019	Call 100.0000		90,000	90,000	90,000	90,000						90,000				3,089	08/15/2036	1
228027-AB-4	VESSEL MANAGEMENT SERVIC US GOVT GUARANT 3.477% 01/16/37		07/16/2019	Call 100.0000		140,000	140,000	140,000	140,000						140,000				4,868	01/16/2037	1
29766D-AF-1	ETHIOPIAN LEASING 2012 US GOVT GUARANT 2.646% 05/12/26		08/12/2019	Redemption 100.0000		522,633	522,633	522,633	522,633						522,633				10,372	05/12/2026	1
29766D-AG-9	ETHIOPIAN LEASING 2012 US GOVT GUARANT 2.566% 08/14/26		08/14/2019	Redemption 100.0000		210,902	210,902	210,902	210,902						210,902				4,059	08/14/2026	1
30217T-AA-0	EXPORT LEASE TEN CO LLC US GOVT GUARANT 1.650% 05/07/25		08/07/2019	Redemption 100.0000		83,366	83,366	79,830	81,183		2,184		2,184		83,366				1,032	05/07/2025	1
36174A-PJ-1	GN A04025 3.700% 10/15/33		09/01/2019	Paydown Redemption 100.0000		110,068	110,068	113,370	112,811		(2,743)		(2,743)		110,068				2,716	10/15/2033	1
367333-AD-3	GATE CAPITAL CAYMAN TWO US GOVT GUARANT 2.637% 12/02/21		09/02/2019	Redemption 100.0000		302,056	302,056	302,056	302,056						302,056				5,974	12/02/2021	1
49549C-AA-6	KING INTL LEASING LLC US GOVT GUARANT 2.754% 10/15/22		07/15/2019	Redemption 100.0000		188,799	188,799	188,799	188,799						188,799				3,900	10/15/2022	1
59280P-AA-9	MEXICAN AIR FINANCE IV US GOVT GUARANT 2.537% 07/13/25		07/13/2019	Redemption 100.0000		310,238	310,238	310,238	310,238						310,238				5,903	07/13/2025	1
690353-XM-4	OVERSEAS PRIVATE INV COR US GOVT GUARANT 3.590% 12/15/30		09/15/2019	Redemption 100.0000		35,714	35,714	35,714	35,714						35,714				962	12/15/2030	1
690353-XN-2	OVERSEAS PRIVATE INV COR US GOVT GUARANT 3.540% 06/15/30		09/15/2019	Redemption 100.0000		124,997	124,997	124,997	124,997						124,997				3,319	06/15/2030	1
690353-XR-3	OVERSEAS PRIVATE INV COR US GOVT GUARANT 3.938% 12/20/32		07/05/2019	Redemption 100.0000		4	4	4	4						4				1,123	12/20/2032	1
71654Q-BL-5	PETROLEOS MEXICANOS US GOVT GUARANT 2.830% 02/15/24		08/15/2019	Redemption 100.0000		750,000	750,000	750,000	750,000						750,000				21,225	02/15/2024	1
71654Q-BP-6	PETROLEOS MEXICANOS US GOVT GUARANT 2.290% 02/15/24		08/15/2019	Redemption 100.0000		750,000	750,000	750,000	750,000						750,000				17,175	02/15/2024	1
71654Q-BS-0	PETROLEOS MEXICANOS US GOVT GUARANT 2.653% 04/15/25		07/15/2019	Redemption 100.0000		125,000	125,000	123,125	123,796		1,204		1,204		125,000				2,802	04/15/2025	1
746388-AA-5	PURPLE CHEN 2011 LLC US GOVT GUARANT 2.735% 08/01/23		08/01/2019	Redemption 100.0000		559,918	559,918	559,918	559,918						559,918				11,485	08/01/2023	1
797224-AB-8	SAN CLEMENTE LEASING LLC US GOVT GUARANT 3.350% 06/07/22		09/07/2019	Redemption 100.0000		94,525	94,525	94,525	94,525						94,525				2,375	06/07/2022	1
797224-AC-6	SAN CLEMENTE LEASING LLC US GOVT GUARANT 3.030% 11/22/22		08/22/2019	Redemption 100.0000		182,593	182,593	182,593	182,593						182,593				4,149	11/22/2022	1
79977T-AA-7	SANDALWOOD 2013 LLC US GOVT GUARANT 2.836% 07/10/25		07/10/2019	Redemption 100.0000		364,001	364,001	364,001	364,001						364,001				7,742	07/10/2025	1
79977T-AB-5	SANDALWOOD 2013 LLC US GOVT GUARANT 2.897% 07/10/25		07/10/2019	Redemption 100.0000		321,178	321,178	321,178	321,178						321,178				6,978	07/10/2025	1
805649-AA-8	SAYARRA LTD US GOVT GUARANT 2.774% 10/29/21		07/29/2019	Redemption 100.0000		250,107	250,107	250,107	250,107						250,107				5,203	10/29/2021	1
876780-AA-5	TAYARRA LTD US GOVT GUARANT 3.628% 02/15/22		08/15/2019	Redemption 100.0000		118,660	118,660	118,660	118,660						118,660				3,229	02/15/2022	1
89609G-AA-0	TRICAHUE LEASING LLC US GOVT GUARANT 3.503% 11/19/21		08/19/2019	Redemption 100.0000		117,012	117,012	117,012	117,012						117,012				3,074	11/19/2021	1
89609G-AB-8	TRICAHUE LEASING LLC US GOVT GUARANT 3.744% 02/26/22		08/26/2019	Redemption 100.0000		87,814	87,814	87,814	87,814						87,814				1,644	02/26/2022	1
90373R-AA-8	ULANI MSN 35940 LLC US GOVT GUARANT 2.227% 05/16/25		08/16/2019	Redemption 100.0000		208,333	208,333	208,333	208,333						208,333				3,480	05/16/2025	1
912810-ED-6	US TREASURY N/B United States Treasury No 8.12 8.125% 08/15/19		08/15/2019	Maturity Redemption 100.0000		100,000	100,000	128,555	101,921		(1,921)		(1,921)		100,000				8,035	08/15/2019	1
92242V-AB-2	VCK LEASE SA US GOVT GUARANT 2.591% 07/24/26		07/24/2019	Redemption 100.0000		423,075	423,075	423,075	423,075						423,075				8,221	07/24/2026	1
98913L-AB-9	ZARAPITO LEASING LLC US GOVT GUARANT 2.628% 11/12/26		08/12/2019	Redemption 100.0000		200,360	200,360	200,360	200,360						200,360				3,949	11/12/2026	1
0599999	Subtotal - Bonds - U.S. Governments					6,771,353	6,771,353	6,797,799	6,772,630		(1,276)		(1,276)		6,771,353				158,083	XXX	XXX

STATEMENT AS OF SEPTEMBER 30, 2019 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 Ident-ification	Description	For-foreign	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 Recog-nized	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 on Disposal	Bond Interest/ Stock Dividends Received During Year	Stated Con-tractual Maturity Date	NAIC Desig-nation and Admini-strative Symbol /Market Indicator (a)
14440P-AA-1	CARPINTERO FINANCE LTD GOVT GTD. 2.004% 09/18/24	D	09/18/2019	Redemption 100.0000		219,741	219,741	219,741	219,741						219,741				5,495	09/18/2024	1
1099999	Subtotal - Bonds - All Other Governments					219,741	219,741	219,741	219,741						219,741				5,495	XXX	XXX
29270C-YM-1	ENERGY N W I/A ELEC REVENUE Energy Northwst 2.197 07/01/2 2.197% 07/01/19		07/01/2019	Maturity		3,745,000	3,745,000	3,745,000	3,745,000						3,745,000				82,278	07/01/2019	1FE
31359U-PG-2	FNW 1998-W2 B1 SUB 6.500% 06/25/28		09/01/2019	Paydown		28,082	28,082	26,879	27,249		832		832		28,082				1,218	06/25/2028	2FE
31359U-PH-2	FNW 1998-W2 B2 SUB 6.500% 06/25/28		09/01/2019	Paydown		28,082	28,082	26,467	26,976		1,105		1,105		28,082				1,218	06/25/2028	4FE
3136A1-T3-9	FNR 2011-115 MB PAC-11 2.500% 11/25/26		09/01/2019	Paydown		437,552	437,552	444,388	442,814		(5,263)		(5,263)		437,552				6,952	11/25/2026	1
3136AA-A2-1	FNR 2012-133 NA PAC-11 1.500% 05/25/42		09/01/2019	Paydown		346,147	346,147	345,390	345,441		706		706		346,147				3,477	05/25/2042	1
3136AA-FR-1	FNR 2012-138 QA EXCH PAC-11 2.000% 11/25/42		09/01/2019	Paydown		761,445	761,445	777,507	775,987		(14,541)		(14,541)		761,445				10,383	11/25/2042	1
3136AG-JV-5	FNR 2013-94 CA EXCH SEQ 3.500% 08/25/38		09/01/2019	Paydown		343,680	343,680	358,045	352,043		(8,363)		(8,363)		343,680				7,823	08/25/2038	1
3136AS-SM-4	FNR 2016-53 GA SEQ 3.500% 12/25/43		09/01/2019	Paydown		441,310	441,310	468,236	460,632		(19,323)		(19,323)		441,310				10,373	12/25/2043	1
3136AS-OR-0	FNR 2016-37 MJ EXCH SEQ 3.500% 08/25/43		09/01/2019	Paydown		460,729	460,729	487,941	479,465		(18,736)		(18,736)		460,729				10,637	08/25/2043	1
3136AX-M2-8	FNR 2017-67 BN EXCH AD SEQ 3.000% 02/25/44		09/01/2019	Paydown		357,338	357,338	364,763			(7,426)		(7,426)		357,338				1,583	02/25/2044	1
3136AX-TU-9	FNR 2017-62 AB EXCH PAC 3.000% 08/25/45		09/01/2019	Paydown		546,509	546,509	560,343	559,272		(12,763)		(12,763)		546,509				11,028	08/25/2045	1
3136B2-XP-2	FNR 2018-58 P AD PAC 4.000% 12/25/44		09/01/2019	Paydown		316,177	316,177	325,762			(9,584)		(9,584)		316,177				5,297	12/25/2044	1
3137AG-R3-6	FNR 3935 GA EXCH PAC-11 3.000% 10/15/26		09/01/2019	Paydown		326,557	326,557	340,384	337,565		(11,008)		(11,008)		326,557				6,514	10/15/2026	1
3137AG-UM-0	FNR 3940 CB SCH-11 3.000% 01/15/25		09/01/2019	Paydown		401,805	401,805	418,505	414,917		(13,113)		(13,113)		401,805				7,629	01/15/2025	1
3137AJ-CP-7	FNR 3958 PA PAC-11 3.000% 11/15/26		09/01/2019	Paydown		303,431	303,431	316,220	313,733		(10,302)		(10,302)		303,431				6,455	11/15/2026	1
3137BA-D6-6	FHR 4323 CA EXCH SEQ 4.000% 03/15/40		09/01/2019	Paydown		921,513	921,513	975,076	956,333		(34,820)		(34,820)		921,513				25,121	03/15/2040	1
3137BW-ZE-9	FHR 4550 GA SEQ 3.000% 10/15/41		09/01/2019	Paydown		704,775	704,775	732,855	720,911		(16,136)		(16,136)		704,775				14,204	10/15/2041	1
3137BN-EB-3	FHR 4565 DM EXCH SEQ 3.000% 02/15/42		09/01/2019	Paydown		510,756	510,756	529,271	523,704		(12,948)		(12,948)		510,756				10,266	02/15/2042	1
3137BR-E3-5	FHR 4607 A EXCH SEQ 3.000% 11/15/40		09/01/2019	Paydown		414,417	414,417	430,475	424,192		(9,775)		(9,775)		414,417				8,338	11/15/2040	1
3137BS-OP-5	FHR 4622 GA SEQ 3.000% 05/15/41		09/01/2019	Paydown		368,235	368,235	376,520	374,630		(6,395)		(6,395)		368,235				7,431	05/15/2041	1
3137BS-DS-9	FHR 4622 HA SEQ 3.000% 11/15/43		09/01/2019	Paydown		297,218	297,218	311,150	308,938		(11,719)		(11,719)		297,218				5,970	11/15/2043	1
3137BS-E7-4	FHR 4622 JA SEQ 3.000% 12/15/42		09/01/2019	Paydown		411,084	411,084	428,298	425,512		(14,428)		(14,428)		411,084				8,295	12/15/2042	1
3137BS-UB-7	FHR 4628 BA EXCH SEQ 3.000% 05/15/41		09/01/2019	Paydown		395,808	395,808	403,230	401,342		(5,533)		(5,533)		395,808				7,987	05/15/2041	1
3137BW-2C-7	FHR 4671 CA EXCH SEQ 3.500% 08/15/43		09/01/2019	Paydown		212,875	212,875	220,525	219,428		(6,554)		(6,554)		212,875				4,956	08/15/2043	1
3137BX-CX-8	FHR 4673 KA EXCH SEQ 3.500% 08/15/42		09/01/2019	Paydown		1,340,162	1,340,162	1,387,905	1,376,706		(36,545)		(36,545)		1,340,162				31,545	08/15/2042	1
3137F1-4B-1	FHR 4690 QA EXCH SEQ 3.500% 05/15/44		09/01/2019	Paydown		737,846	737,846	759,982	756,858		(19,012)		(19,012)		737,846				17,490	05/15/2044	1
3137F1-5E-4	FHR 4690 WA EXCH SEQ 3.500% 12/15/43		09/01/2019	Paydown		1,386,311	1,386,311	1,432,232	1,425,632		(39,321)		(39,321)		1,386,311				32,442	12/15/2043	1
3137F3-OV-9	FHR 4764 DA EXCH SEQ 4.000% 07/15/45		09/01/2019	Paydown		895,652	895,652	916,644	915,304		(19,652)		(19,652)		895,652				24,077	07/15/2045	1
3137F4-DB-5	FHR 4778 BA EXCH SEQ 4.000% 09/15/45		09/01/2019	Paydown		899,841	899,841	921,212	919,771		(19,930)		(19,930)		899,841				24,433	09/15/2045	1
3137F4-S7-8	FHR 4776 WA EXCH SEQ 4.000% 07/15/45		09/01/2019	Paydown		641,351	641,351	656,182	655,235		(13,885)		(13,885)		641,351				17,244	07/15/2045	1
3137FA-E7-9	FHR 4708 B EXCH SEQ 3.500% 10/15/44		09/01/2019	Paydown		1,150,144	1,150,144	1,190,758	1,185,965		(35,821)		(35,821)		1,150,144				27,070	10/15/2044	1
3137FB-03-7	FHR 4728 A EXCH SEQ 3.500% 02/15/45		09/01/2019	Paydown		697,601	697,601	721,444	718,836		(21,235)		(21,235)		697,601				16,419	02/15/2045	1
3137FB-HU-3	FHR 4725 QT EXCH SEQ 3.500% 01/15/45		09/01/2019	Paydown		1,167,857	1,167,857	1,206,999	1,203,494		(35,637)		(35,637)		1,167,857				27,487	01/15/2045	1
3137FC-S9-6	FHR 4749 GA SEQ 3.500% 10/15/44		09/01/2019	Paydown		484,798	484,798	492,449	491,823		(7,025)		(7,025)		484,798				11,464	10/15/2044	1
3137FD-GW-7	FHR 4748 YA EXCH SEQ 3.500% 09/15/44		09/01/2019	Paydown		939,315	939,315	961,330	958,552		(19,237)		(19,237)		939,315				22,194	09/15/2044	1
3138EL-N8-2	FN AL4014 3.500% 07/01/43		09/01/2019	Paydown		334,412	334,412	357,141	356,367		(21,955)		(21,955)		334,412				7,522	07/01/2043	1
31392J-LN-7	FNR 2003-15 PG PAC-11 5.500% 03/25/33		09/01/2019	Paydown		23,825	23,825	22,911	23,315		510		510		23,825				913	03/25/2033	1
31394Y-2B-9	FHR 2800 DZ Z SEQ 5.500% 05/15/34		09/01/2019	Paydown		43,930	43,930	36,641	40,972		2,958		2,958		43,930				1,611	05/15/2034	1
31395D-CQ-0	FNR 2006-41 ZV Z SEQ 6.000% 05/25/36		09/01/2019	Paydown		149,459	149,459	146,353	147,994		1,465		1,465		149,459				6,073	05/25/2036	1
31395E-RK-5	FHR 2840 ZH Z SEQ 5.000% 08/15/34		09/01/2019	Paydown		34,259	34,259	28,949	32,519		1,741		1,741		34,259				1,132	08/15/2034	1
31395N-GE-1	FNR 2006-45 AN SEQ 6.000% 06/25/26		09/01/2019	Paydown		90,100	90,100	89,228	89,442		659		659		90,100				3,599	06/25/2026	1
31396G-LB-2	FHR 3101 PE PAC-1-11 5.500% 01/15/36		09/01/2019	Paydown		186,498	186,498	183,730	185,007		1,491		1,491		186,498				6,829	01/15/2036	1
31397E-W5-0	FHR 3280 ME PAC-1-11 5.500% 02/15/37		09/01/2019	Paydown		108,755	108,755	107,345	108,218		537		537		108,755				4,103	02/15/2037	1
31397J-MR-2	FHR 3341 B SEQ 6.000% 07/15/37		09/01/2019	Paydown		930	930	887	894		35		35		930				37	07/15/2037	1
31397U-RC-5	FNR 2011-53 TN EXCH PT 4.000% 06/25/41		09/01/2019	Paydown		379,198	379,198	399,639	398,610		(19,412)		(19,412)		379,198				10,151	06/25/2041	1
3140JG-YB-1	FN BMS205 4.000% 06/01/45		09/01/2019	Paydown		463,304	463,304	480,605			(17,302)		(17,302)		463,304				5,751	06/01/2045	1
69848A-AA-6	PANHANDLE TX ECON DEV CORP LEA Panhandle Economic Develo 3.98 3.985% 07/15/48		07/15/2019	Redemption 100.0000		42,373	42,373	42,978	42,954		(581)		(581)		42,373				1,689	07/15/2048	1FE
3199999	Subtotal - Bonds - U.S. Special Revenues					25,278,446	25,278,446	25,956,774	24,670,552		(563,241)		(563,241)		25,278,446				566,708	XXX	XXX

STATEMENT AS OF SEPTEMBER 30, 2019 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 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 and Admini- strative Symbol /Market Indicator (a)
032510-AC-3	ANADARKO PETROLEUM CORP SR UNSEC 6.200%		09/18/2019	Taxable Exchange		2,747,757	2,310,000	2,293,206	2,295,461			241	241		2,295,702		452,055	452,055	144,414	03/15/2040	2FE
05607U-AA-7	BXGNT 2018-A A SEQ 3.770% 02/02/34		09/02/2019	Paydown		199,547	199,547	199,497	199,498			49	49		199,547			5,005	02/02/2034	1FE	
06742L-AM-5	DROCK 2016-1 A SB 1.520% 05/16/22		07/15/2019	Paydown		5,500,000	5,500,000	5,499,182	5,499,845			155	155		5,500,000			48,767	05/16/2022	1FE	
07274N-BG-7	BAYER US FINANCE II LLC CO.GUARNT 3.950%		04/15/45																		
	BURLINGTN NO SF 04-1 TR PT CERTS 4.575%		09/16/2019	BNP PARIBAS Redemption 100.0000		3,180,975	3,500,000	3,134,705	3,137,862		5,138		5,138		3,143,001		37,974	37,974	127,881	04/15/2045	2FE
12200B-AA-6	01/15/21		07/18/2019			1,543	1,543	1,531	1,542		1		1		1,543				71	01/15/2021	1FE
14042R-BS-9	CAPITAL ONE NA SR UNSEC 1.850% 09/13/19		09/13/2019	Maturity		5,000,000	5,000,000	4,999,850	4,999,964		36		36		5,000,000				92,500	09/13/2019	2FE
14314M-AC-7	CARMX 2016-2 A3 SEQ 1.520% 02/16/21		09/15/2019	Paydown		154,606	154,606	154,598	154,605		2		2		154,606				1,566	02/16/2021	1FE
20847T-BL-4	CNFHE 2001-D M2 MEZ FLT AFC IRC 3.778%		09/15/2019	Paydown		189,657	189,657	197,744	203,877		(14,220)		(14,220)		189,657				5,301	11/15/2032	1FIM
233050-AC-7	DBUBS 2011-LC1A A3 SEQ 5.002% 11/10/46		09/01/2019	Paydown		64,629	64,629	65,272	64,665		(35)		(35)		64,629				2,207	11/10/2046	1FIM
233851-AR-5	DAIMLER FINANCE NA LLC CO.GUARNT 2.250%		07/31/19	Maturity		10,000,000	10,000,000	9,935,800	9,994,262		5,738		5,738		10,000,000				225,000	07/31/2019	1FE
252724-AA-7	DROT 2018-1 A SEQ 3.700% 01/21/31		09/20/2019	Paydown		747,780	747,780	747,772	747,772		8		8		747,780				18,053	01/21/2031	1FE
	DISCOVERY COMMUNICATIONS CO.GUARNT 2.200%		09/20/2019	Maturity		575,000	575,000	574,776	574,919		81		81		575,000				12,650	09/20/2019	2FE
25470D-AN-9	FPL 2007-A A4 SEQ 5.256% 08/01/21		08/01/2019	Paydown		617,258	617,258	688,870	638,479		(21,221)		(21,221)		617,258				32,440	08/01/2021	1FE
302583-AD-1	FCITL 2019-1A A SEQ 3.630% 02/18/31		09/15/2019	Paydown		323,275	323,275	323,219			55		55		323,275				4,051	02/18/2031	1FE
30259M-AA-4	FORD 2016-3 A1 SEQ 1.550% 07/15/21		07/15/2019	Paydown		3,000,000	3,000,000	2,999,483	2,999,752		248		248		3,000,000				27,125	07/15/2021	1FE
34528Q-EU-4	FORD MOTOR CREDIT CO LLC SR UNSEC 3.810%		01/09/24			1,986,300	2,000,000	1,943,720			3,268		3,268		1,946,988		39,312	39,312	51,647	01/09/2024	2FE
345397-YG-2	GATX CORP SR UNSEC 2.500% 07/30/19		07/30/2019	Maturity		3,545,000	3,545,000	3,545,106	3,545,021		(21)		(21)		3,545,000				88,625	07/30/2019	2FE
361448-AT-0	GENERAL ELECTRIC CO SR UNSEC 4.125%		10/09/42	TENDER SALE		5,571,405	6,250,000	6,214,813	6,219,034		580		580		6,219,614		(648,209)	(648,209)	241,688	10/09/2042	2FE
369604-BF-9	GENERAL ELECTRIC CO SR UNSEC 4.500%		09/30/2019																		
369604-BH-5	03/11/44		08/08/2019	JEFFERIES & CO. INC. Redemption 100.0000		10,103,900	10,000,000	9,908,900	9,916,600		1,098		1,098		9,917,698		186,202	186,202	413,750	03/11/2044	2FE
39121J-AG-5	GREAT RIVER ENERGY 1ST MORTG 7.233%		07/01/38			16,825	16,825	16,825	16,825						16,825				1,217	07/01/2038	1FE
39121J-AH-3	GREAT RIVER ENERGY 1ST MORTG 4.478%		07/01/2019	Call 100.0000		450,000	450,000	450,000	450,000						450,000				20,151	07/01/2030	1FE
40573L-AU-0	CIGNA CORP CO.GUARNT 4.800% 08/15/38		08/27/2019	Tax Free Exchange		2,981,889	3,000,000	2,981,460	2,981,544		345		345		2,981,889				136,000	08/15/2038	2FE
40573L-AW-6	CIGNA CORP CO.GUARNT 4.900% 12/15/48		08/27/2019	Tax Free Exchange		2,973,724	3,000,000	2,972,700	2,972,788		936		936		2,973,724				138,833	12/15/2048	2FE
42225U-AC-8	HEALTHCARE TRUST OF AMER CO.GUARNT 3.375%		07/15/21	Call 102.4810		3,575,562	3,489,000	3,466,112	3,470,452		5,099		5,099		3,475,551		13,449	13,449	225,577	07/15/2021	2FE
42225U-AE-4	HEALTHCARE TRUST OF AMER CO.GUARNT 2.950%		07/01/22	Call 102.7340		3,082,020	3,000,000	2,998,140	2,998,718		253		253		2,998,971		1,029	1,029	189,941	07/01/2022	2FE
42770L-AA-1	HERO 2015-1A A SEQ 3.840% 09/21/40		09/20/2019	Paydown		363,436	363,436	363,272	363,353		84		84		363,436				12,680	09/21/2040	1FE
42771A-AA-4	HERO 2017-3A A1 SEQ 3.190% 09/20/48		09/20/2019	Paydown		378,767	378,767	378,638	378,643		124		124		378,767				10,328	09/20/2048	1FE
42771L-AB-8	HERO 2017-2A A1 SEQ 3.280% 09/20/48		09/20/2019	Paydown		204,789	204,789	204,762	204,764		25		25		204,789				5,715	09/20/2048	1FE
43284B-AA-0	HGV1 2018-AA A SEQ 3.540% 02/25/32		09/25/2019	Paydown		74,268	74,268	74,245			23		23		74,268				1,749	02/25/2032	1FE
446438-RU-9	HUNTINGTON NATIONAL BANK SR UNSEC 2.375%		03/10/20			7,700,693	7,700,000	7,699,538	7,699,813		90		90		7,699,904		789	789	163,064	03/10/2020	1FE
466313-AH-6	JABIL INC SR UNSEC 3.950% 01/12/28		09/26/2019	JP MORGAN SECURITIES		9,321,407	9,275,000	8,972,427	5,609,651		15,913		15,913		8,996,834		324,573	324,573	374,133	01/12/2028	2FE
46647S-AJ-9	JPMIT 2017-3 1A5 EXCH AFC SEQ SSNR 3.500%		08/25/47	Paydown		624,659	624,659	634,614			(9,956)		(9,956)		624,659				4,290	08/25/2047	1FIM
46648H-AE-3	JPMIT 2017-2 A5 EXCH AFC SEQ SSNR 3.500%		05/25/47	Paydown		235,422	235,422	230,272	230,302		5,119		5,119		235,422				5,510	05/25/2047	1FIM
46648U-AE-4	JPMIT 2017-4 A5 EXCH AFC SEQ SSNR 3.500%		11/25/48	Paydown		1,500,264	1,500,264	1,481,979	1,485,475		14,789		14,789		1,500,264				35,373	11/25/2048	1FIM
46649Y-AE-5	JPMIT 2018-9 A5 EXCH AFC SEQ SSNR 4.000%		02/25/49	Paydown		1,405,179	1,405,179	1,421,426			(16,247)		(16,247)		1,405,179				23,578	02/25/2049	1FIM
47788N-AD-0	JDOT 2016-B A4 SEQ 1.490% 05/15/23		09/15/2019	Paydown		591,836	591,836	591,689	591,746		89		89		591,836				6,401	05/15/2023	1FE
	KANSAS CITY SOUTHERN CO.GUARNT 3.000%		09/16/2019	INC		5,808,129	5,700,000	5,487,721	5,557,640		21,657		21,657		5,579,297		228,832	228,832	143,925	05/15/2023	2FE
485170-AV-6	KELLOGG CO SR UNSEC 4.000% 12/15/20		08/09/2019	TENDER SALE		8,359,888	8,380,000	8,307,681	8,363,489		4,969		4,969		8,368,458		(8,570)	(8,570)	217,880	12/15/2020	2FE

STATEMENT AS OF SEPTEMBER 30, 2019 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 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 Recog- nized	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 and Admini- strative Symbol /Market Indicator (a)
502413-BA-4	L3 TECHNOLOGIES INC CO.GUARNT 4.950% 02/15/21		07/02/2019	Taxable Exchange		2,876,532	2,785,000	2,769,098	2,780,956		917		917		2,781,872		94,660	94,660	121,391	02/15/2021	2FE
502413-BE-6	L3 TECHNOLOGIES INC CO.GUARNT 3.850% 12/15/26		07/02/2019	Taxable Exchange		1,519,752	1,450,000	1,442,591	1,443,910		330		330		1,444,240		75,513	75,513	30,549	12/15/2026	2FE
502413-BF-3	L3 TECHNOLOGIES INC CO.GUARNT 3.850% 06/15/23		07/02/2019	Taxable Exchange		2,660,930	2,550,000	2,545,002	2,545,545		463		463		2,546,008		114,922	114,922	53,724	06/15/2023	2FE
502413-BG-1	L3 TECHNOLOGIES INC CO.GUARNT 4.400% 06/15/28		07/02/2019	Taxable Exchange		11,483,979	10,500,000	10,471,265	10,472,696		1,176		1,176		10,473,872		1,010,106	1,010,106	252,817	06/15/2028	2FE
52521R-AS-0	LMT 2007-5 2A3 FLT SSNR AS 2.348% 06/25/37		09/25/2019	Paydown		21,331	23,955	5,368	4,664		17,092		17,092		21,756		(425)	(425)	436	06/25/2037	1FM
525221-EB-9	LXS 2005-8 2A1B STEP AFC AS 5.560% 12/25/35		07/01/2019	Paydown		24,238	24,238	1,073	1,073		23,165		23,165		24,238				864	12/25/2035	1FM
553896-AA-9	MVIOT 2017-1A A SEQ 2.420% 12/20/34		09/20/2019	Paydown		461,825	461,825	458,186	458,294		3,531		3,531		461,825				7,454	12/20/2034	1FE
581557-BJ-3	MCKESSON CORP SR UNSEC 3.950% 02/16/28		09/11/2019	US LL MORGAN STANLEY & CO.		4,436,166	4,225,000	4,223,944	4,224,021		63		63		4,224,084		212,081	212,081	179,404	02/16/2028	2FE
58155Q-AG-8	MCKESSON CORP SR UNSEC 2.850% 03/15/23		09/11/2019	INC		3,439,916	3,400,000	3,395,852	3,398,122		296		296		3,398,418		41,498	41,498	96,362	03/15/2023	2FE
61747Y-CJ-2	MORGAN STANLEY SR UNSEC 5.625% 09/23/19		09/23/2019	Maturity		2,000,000	2,000,000	2,264,314	2,040,271		(40,271)		(40,271)		2,000,000				112,500	09/23/2019	1FE
62848B-AA-9	MVIOT 2018-1A A SEQ 3.450% 01/21/36		09/20/2019	Paydown		631,617	631,617	631,736	631,736		(119)		(119)		631,617				14,593	01/21/2036	1FE
74153W-CK-3	PRICOA GLOBAL FUNDING 1 SECURED 1.450% 09/13/19		09/13/2019	Maturity		2,500,000	2,500,000	2,499,775	2,499,947		53		53		2,500,000				36,250	09/13/2019	1FE
771196-BA-9	ROCHE HOLDINGS INC CO.GUARNT 2.250% 09/30/19		09/30/2019	Maturity		34,500,000	34,500,000	34,449,630	34,492,158		7,842		7,842		34,500,000				776,250	09/30/2019	1FE
78448W-AB-1	SMB 2017-A A2A SEQ 2.880% 09/15/34		09/15/2019	Paydown		192,405	192,405	192,337	192,345		60		60		192,405				3,640	09/15/2034	1FE
78449K-AB-6	SMB 2016-C A2A SEQ 2.340% 09/15/34		09/15/2019	Paydown		287,544	287,544	283,837	285,179		2,365		2,365		287,544				4,477	09/15/2034	1FE
78470R-AC-1	SOFI 2016-E A2B SEQ 2.490% 01/25/36		09/25/2019	Paydown		959,245	959,245	956,894	957,822		1,423		1,423		959,245				16,088	01/25/2036	1FE
81746N-AK-4	SEMT 2016-3 A10 EXCH AFC SEQ SSNR 3.500% 11/25/46		09/01/2019	Paydown		249,892	249,892	245,558	245,583		4,310		4,310		249,892				5,973	11/25/2046	1FM
81747A-AG-0	SEMT 2019-1 A4 EXCH AFC SSNR 4.000% 02/25/49		09/01/2019	Paydown		1,415,484	1,415,484	1,428,755			(13,270)		(13,270)		1,415,484				32,749	02/25/2049	1FE
81747W-AG-2	SEMT 2018-7 A4 EXCH AFC SEQ SSNR 4.000% 09/25/48		09/01/2019	Paydown		1,133,468	1,133,468	1,139,135	1,138,702		(5,234)		(5,234)		1,133,468				30,667	09/25/2048	1FM
81748H-AD-1	SEMT 2018-8 A4 EXCH AFC SEQ SSNR 4.000% 11/25/48		09/04/2019	JP MORGAN SECURITIES		3,293,352	3,262,764	3,265,823	3,265,469		186		186		3,265,655		27,697	27,697	99,696	11/25/2048	1FM
81748H-AD-1	SEMT 2018-8 A4 EXCH AFC SEQ SSNR 4.000% 11/25/48		09/01/2019	Paydown		827,907	827,907	828,683	828,593		(686)		(686)		827,907				22,736	11/25/2048	1FM
82652M-AA-8	SRFC 2019-2A A SEQ 2.710% 05/20/36		09/20/2019	Paydown		620,194	620,194	620,026	620,167		167		167		620,194				1,860	05/20/2036	1FE
82653D-AA-7	SRFC 2018-2A A SEQ 3.500% 06/20/35		09/20/2019	Paydown		555,714	555,714	555,609	555,613		100		100		555,714				12,957	06/20/2035	1FE
82653G-AA-0	SRFC 2018-3A A SEQ 3.690% 09/20/35		09/20/2019	Paydown		230,340	230,340	230,282	230,284		56		56		230,340				5,640	09/20/2035	1FE
83189D-AB-6	SMB 2017-B A2A SEQ 2.820% 10/15/35		09/15/2019	Paydown		67,217	67,217	65,443	65,673		1,544		1,544		67,217				1,402	10/15/2035	1FE
83403Y-AB-0	SOFI 2017-B A2FX SEQ 2.740% 05/25/40		09/25/2019	Paydown		221,737	221,737	221,683	221,699		37		37		221,737				4,557	05/25/2040	1FE
83404F-AC-8	SOFI 2017-A A2B SEQ 2.400% 03/26/40		09/25/2019	Paydown		143,794	143,794	141,865	142,471		1,323		1,323		143,794				2,588	03/26/2040	1FE
83404L-AC-5	SOFI 2016-D A2B SEQ 2.340% 04/25/33		09/25/2019	Paydown		321,780	321,780	318,224	319,223		2,558		2,558		321,780				5,125	04/25/2033	1FE
86358R-XZ-5	SASC 2002-AL1 A3 AS CPT SEQ 3.450% 02/25/32		09/01/2019	Paydown		40,110	40,110	35,504	37,669		2,441		2,441		40,110				932	02/25/2032	5FE
86359B-2H-3	SASC 2005-2XS 2A1 XRESET FTV FLT DL 2.600% 02/25/35		09/03/2019	Paydown		25,246	25,246	25,246	25,246						25,246				489	02/25/2035	1FM
87272Q-AA-8	TLF 2017-1A A SEQ 3.090% 12/15/29		09/15/2019	Paydown		263,751	263,751	261,772			1,978		1,978		263,751				3,447	12/15/2029	1FE
918286-AA-8	VSTNA 2018-A A SEQ 3.560% 02/20/36		09/20/2019	Paydown		620,844	620,844	629,577	371,380		(8,733)		(8,733)		620,844				10,710	02/20/2036	1FE
918288-AA-9	VSTNA 2017-A A SEQ 2.330% 03/20/35		09/20/2019	Paydown		307,854	307,854	307,791	307,797		57		57		307,854				4,836	03/20/2035	1FE
958254-AD-6	WESTERN MIDSTREAM OPERAT SR UNSEC 5.450% 04/01/44		08/19/2019	SEA PORT GROUP THE LLC		888,713	975,000	1,002,066	1,001,017		(334)		(334)		1,000,683		(111,971)	(111,971)	47,233	04/01/2044	2FE
06367T-HQ-6	BANK OF MONTREAL SR UNSEC 1.500% 07/18/19	A	07/18/2019	Maturity		5,575,000	5,575,000	5,569,648	5,574,008		992		992		5,575,000				83,625	07/18/2019	1FE
05253J-AP-6	AUST & NZ BANKING GRP NY SR UNSEC 2.050% 09/23/19	D	09/23/2019	Maturity		4,000,000	4,000,000	3,998,200	3,999,518		482		482		4,000,000				82,000	09/23/2019	1FE
202712-BJ-3	COMMONWEALTH BANK AUST SUBORD 4.316% 01/10/48	D	07/16/2019	BARCLAYS BANK PLC		8,500,000	8,500,000	8,500,000	8,500,000						8,500,000				375,012	01/10/2048	2FE

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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
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	11	12	13	14	15	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 and Admini- strative Symbol /Market Indicator (a)
..58507L-AC-3	MEDTRONIC GLOBAL HLDINGS CO.GUARNT 3.350% 04/01/27	D.....	..07/15/2019 ..	TENDER SALE ..		.....8,696,768	.....8,375,000	.....8,375,000	.....8,375,000						.....8,375,000		.....321,768	.....321,768	.....218,995	..04/01/2027 ..	1FE.....
..71654Q-CE-0	PETROLEOS MEXICANOS CO.GUARNT 5.375% 03/13/22	D.....	..07/23/2019 ..	SANTANDER SECURITIES INC. ....		.....2,926,100	.....2,900,000	2,887,229	2,889,563		.....1,701		.....1,701		.....2,891,264		.....34,836	.....34,836	.....135,092	..03/13/2022 ..	2FE.....
..75973F-AA-9	RENEW 2018-1 A SEQ 3.950% 09/20/53 09/22/19	D.....	..09/20/2019 ..	Paydown ..		.....299,985	.....299,985	299,872	299,873		.....113		.....113		.....299,985				.....9,568	..09/20/2053 ..	1FE.....
..822582-AJ-1	SHELL INTERNATIONAL FIN CO.GUARNT 4.300% 09/22/19	D.....	..09/22/2019 ..	Maturity ..		.....8,000,000	.....8,000,000	7,972,320	7,997,587		.....2,413		.....2,413		.....8,000,000				.....344,000	..09/22/2019 ..	1FE.....
..82481L-AA-7	SHIRE ACQ INV IRELAND DA CO.GUARNT 1.900% 09/23/19	D.....	..09/23/2019 ..	Maturity ..		.....20,000,000	.....20,000,000	19,983,800	19,996,009		.....3,991		.....3,991		.....20,000,000				.....380,000	..09/23/2019 ..	2FE.....
3899999. Subtotal - Bonds - Industrial and Miscellaneous (Unaffiliated)						240,378,119	238,791,650	237,661,558	227,459,322		39,091		39,091		237,761,414		2,448,121	2,448,121	6,887,774	XXX	XXX
8399997. Total - Bonds - Part 4						272,647,659	271,061,190	270,635,872	259,122,245		(525,426)		(525,426)		270,030,954		2,448,121	2,448,121	7,618,060	XXX	XXX
8399998. Total - Bonds - Part 5						XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
8399999. Total - Bonds						272,647,659	271,061,190	270,635,872	259,122,245		(525,426)		(525,426)		270,030,954		2,448,121	2,448,121	7,618,060	XXX	XXX
8999997. Total - Preferred Stocks - Part 4							XXX													XXX	XXX
8999998. Total - Preferred Stocks - Part 5						XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
8999999. Total - Preferred Stocks							XXX													XXX	XXX
9799997. Total - Common Stocks - Part 4							XXX													XXX	XXX
9799998. Total - Common Stocks - Part 5						XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX	XXX
9799999. Total - Common Stocks							XXX													XXX	XXX
9899999. Total - Preferred and Common Stocks							XXX													XXX	XXX
9999999 - Totals						272,647,659	XXX	270,635,872	259,122,245		(525,426)		(525,426)		270,030,954		2,448,121	2,448,121	7,618,060	XXX	XXX

(a) For all common stock bearing the NAIC market indicator "U" provide: the number of such issues.....

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 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					(24,813)	(16,538)	(43,842)	.XXX.
Citibank, N.A. New York, NY					4,462,051	4,043,197	5,113,730	.XXX.
Harris, N.A. Chicago, IL					37,607	66,899	94,332	.XXX.
JPMorgan Chase Bank, N.A. New York, NY					1,698,226	2,358,949	991,512	.XXX.
The Northern Trust Company Chicago, IL					25,130	21,000	31,500	.XXX.
Wells Fargo, N.A. Philadelphia, PA					(4,254,394)	(13,587,045)	(3,685,577)	.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			1,943,807	(7,113,539)	2,501,655	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			1,943,807	(7,113,539)	2,501,655	XXX
0499999. Cash in Company's Office	XXX	XXX	XXX	XXX				XXX
0599999. Total - Cash	XXX	XXX			1,943,807	(7,113,539)	2,501,655	XXX

SCHEDULE E - PART 2 - CASH EQUIVALENTS

[illegible]