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Indiana State Teachers' Retirement Fund 1996 Account

Annual Actuarial Valuation June 30, 2015

Indiana State Teachers' Retirement Fund 1996 Account

Annual Actuarial Valuation as of June 30, 2015

Nyhart

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November 1, 2015

The Board of Trustees Indiana Public Retirement System Indianapolis, IN

Dear Board Members:

An actuarial valuation is prepared annually for the Indiana State Teachers' Retirement Fund 1996 Account. Submitted in this report are the results of the June 30, 2015 actuarial valuation.

Census Data and Asset Information

The member census data and the asset information for this valuation were furnished by the Chief Financial Officer and Staff. Their efforts and cooperation in furnishing these materials are acknowledged with appreciation. We did not audit the information provided, but we did review it thoroughly for reasonableness and compared it with the prior year's submission for consistency.

Assumptions and Methods

The majority of the actuarial assumptions used in the June 30, 2015 valuation were adopted by the Board pursuant to the Experience Study completed in April 2015, which reflects the experience period from July 1, 2011 to June 30, 2014. The Board also adopted a change to the mortality basis effective with the June 30, 2015 valuation, and confirmed the 6.75% interest rate in use since 2012. Assumptions are summarized in the Assumptions and Methods section of this report. These assumptions and methods have been used to develop the Actuarially Determined Contribution and are consistent with the accounting requirements detailed in GASB Statements No. 67 and No. 68.

Benefit obligations in the June 30, 2015 valuation are determined using June 30, 2014 census data and rolled-forward to the June 30, 2015 measurement date at the valuation interest rate, using actual distributions and ASA account returns during that period. We are not aware of any material events that would require additional adjustments to the benefit obligations for changes to the population not anticipated in the demographic assumptions used in the valuation.

Funding Objective

The funding objective of the Indiana State Teachers' Retirement Fund 1996 Account is to establish and receive contributions that, when invested at the assumed rate of return, will ultimately accumulate assets over each member's working lifetime that will be sufficient to pay expected retirement allowances. As such, an employer contribution rate is calculated each year. That rate is then considered in conjunction with the goal of maintaining a relatively stable contribution over time.

Fund Structure

The Indiana State Teachers' Retirement Fund (TRF) is one fund comprised of a two-account structure in compliance with Indiana Code Section 5-10.4-2-2:

The 1996 Account consists of members who were:

- 1. hired on or after July 1, 1995; or
- 2. hired before July 1, 1995, and prior to June 30, 2005:
 - a. were either hired by another school corporation or institution covered by TRF, or
 - b. were re-hired by a covered prior employer.



Characteristics of the 1996 Account

- 1. As members depart from active service in the Pre-1996 Account, their replacements will become members of the 1996 Account. If the 1996 Account were a stand-alone plan, this pattern of departures and hirings would produce a fairly constant population size.
- 2. Defined Benefits payable from the 1996 Account are funded by contributions from local school corporations or other institutions that employ covered members. At the time of retirement, ASA benefits payable from the 1996 Account are funded by the annuitization of 1996 Account member contributions.

Funding Arrangements

Defined Benefits payable from the 1996 Account are funded through employer percent-of-pay contributions. The Board of the Indiana Public Retirement System sets this contribution rate after reviewing the most recent actuarial valuation report.

The contribution rate of 7.50% for fiscal year 2016 was set by the Board in fiscal year 2015. The contribution rate of 7.50% for fiscal year 2017 was set by the Board in fiscal year 2016.

Progress Toward Realization of Financing Objectives

The funded ratio (the ratio of the actuarial value of assets to the actuarial accrued liability) is a standard measure of a Plan's funded status. In the absence of benefit improvements, it should increase over time, until it reaches 100%. The funded ratio of the 1996 Account decreased to 92.5% from 96.1% for the preceding year. Based on the actuarial assumptions, it is anticipated that the 1996 Account will attain 100% funded status on 6/30/2026.

Certification

We have included several schedules and exhibits in this report, including the following:

Financial Section

- Note 1 Tables of Plan Membership
- Note 8 Net Pension Liability and Actuarial Information Defined Benefit Plans
- Schedule of Changes in Net Pension Liability and Net Pension Liability
- Schedule of Contributions (Actuarially Determined Contribution)
- Schedule of Notes to Required Supplementary Information

Actuarial Section

- Summary of INPRS Funded Status
- Historical Summary of Actuarial Valuation Results by Retirement Plan (Schedule of Funding Progress)
- Summary of Actuarial Assumptions, Methods and Plan Provisions
- Analysis of Financial Experience (Unfunded Actuarial Accrued Liability Reconciliation)
- Solvency Test
- Schedule of Active Member Valuation Data
- Schedule of Retirants and Beneficiaries

Statistical Section

- Membership Data Summary
- Ratio of Active Members to Annuitants
- Schedule of Benefit Recipients by Type of Benefit Option
- Schedule of Average Benefit Payments



To the best of our knowledge, this report presents a fair position of the funded status of the plan in accordance with the Actuarial Standards of Practice as described by the American Academy of Actuaries. In addition, information has been prepared in accordance with applicable government standards of financial reporting for defined benefit pension plans.

The actuarial valuation is prepared using information which has been reconciled and reviewed for reasonableness. We are not aware of any material inadequacy in employee census or asset values. The census information and the asset information have been provided to us by the Chief Financial Officer and Staff. We have not audited the information at the source, and therefore do not accept responsibility for the accuracy or the completeness of the data on which the information is based.

In our opinion, the actuarial assumptions and methods are individually reasonable and in combination represent our best estimate of anticipated experience of the plan.

Neither Nyhart nor any of its employees have any relationship with the plan or its sponsor which could impair or appear to impair the objectivity of this report.

The undersigned are compliant with the continuing education requirements of the Qualification Standards for Actuaries Issuing Statements of Actuarial Opinion in the United States.

Respectfully submitted,

Michael Zurek, EA, MAAA

Matt Sherertz, ASA, EA

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Tayt V. Odom, FSA, EA, MAAA



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Comments

Contribution Rates

The Calculated Contribution Rate section shows the calculated rate for the 1996 Account. That rate is determined as if the 1996 Account were a stand-alone plan.

Plan Provisions

There is no ad-hoc COLA on January 1, 2016. Instead, retirees were paid a service-related lump sum (i.e., referred to as 13th check) in September 2015. These changes are reflected in the June 30, 2015 valuation. Any future COLA is estimated by an ongoing assumption of 1.0% annual increases in all pension payments beginning January 1, 2017.

ASA annuitizations are scheduled to be based on a 5.75% conversion rate for the period from October 1, 2014 through September 30, 2015, and at a 4.50% conversion rate for the period from October 1, 2015 through December 31, 2016. After January 1, 2017, annuity conversions will occur outside of the plan. Benefit obligations in the June 30, 2014 valuation have been adjusted for the anticipated gains through December 31, 2016 for conversions at interest rates lower than the valuation interest rate of 6.75%.

We are not aware of any other material changes in the plan provisions since the June 30, 2014 actuarial valuation.

Census Data

Census data for the valuation was provided by INPRS. We have thoroughly examined the data for reasonableness and consistency with prior years, but we did not otherwise audit it.

Assumptions and Methods

The actuarial assumptions used in the June 30, 2015 valuation are based on plan experience from July 1, 2011 to June 30, 2014. The Board adopted a change to the mortality basis effective with the June 30, 2015 valuation and confirmed the 6.75% interest rate assumption in use since 2012.

Benefit obligations in the June 30, 2015 valuation are determined using June 30, 2014 census data and rolled-forward to the June 30, 2015 measurement date at the valuation interest rate, using actual distributions and ASA account returns during that period. We are not aware of any material events that would require additional adjustments to the benefit obligations for changes to the population not anticipated in the demographic assumptions used in the valuation.

Investment Experience

The investment return for the year ended June 30, 2015 was lower than the assumed 6.75% return. The assets of the TRF 1996 Account are commingled with the assets of other funds administered by INPRS. The TRF money-weighted return was 0.57% during fiscal 2015. Under the asset valuation method, market gains and losses are spread over a four-year period. The Market Value of Assets is currently \$82 million lower than the Actuarial Value of Assets, meaning the plan is currently in a position of having net deferred investment losses to be recognized in future years.

Challenges

The 1996 Account has been steadily funded since its inception. As membership in that portion of the plan increases, the amount of required contributions will increase as a dollar amount, but should remain relatively stable as a percentage of covered payroll with plan experience causing gradual changes.



Summary of Key Valuation Results

		June 30, 2015		June 30, 2014		June 30, 2013		June 30, 2012
Member Information								
Number								
Active Members		52,424		51,204		51,204		47,885
Inactive Vested Members		4,132		3,103		3,103		2,985
Inactive Nonvested Members		12,292		11,147		11,147		12,528
Retired Members and Beneficiaries		4,136		3,665		3,665		2,97
Total		72,984		69,119		69,119		66,369
/aluation Payroll Projected Payroll	\$ \$	2,827,310,987 3,078,600,000	\$ \$	2,740,661,321 2,987,300,000	\$	2,740,939,967	\$	2,594,952,143
Annual Benefit Payments								
Annuity	\$	8,189,292	\$	7,111,980	\$	7,111,980	\$	5,885,028
Pension		67,524,240		60,057,396		60,057,396		49,589,640
Total	\$	75,713,532	\$	67,169,376	\$	67,169,376	\$	55,474,668
ssets and Liabilities								
accrued Liability								
ASA Account Balance	\$	1,170,914,523	\$	1,120,728,729	\$	991,924,506	\$	899,338,904
ASA Annuities		108,501,422		86,516,737		78,374,599		65,008,426
Pension: Retirees		788,534,587		672,727,439		703,495,761		581,152,80°
Pension: Non-retirees	_	3,837,740,501		3,357,020,264		2,975,573,809		2,792,808,88
Total	\$	5,905,691,033	\$	5,236,993,169	\$	4,749,368,675	\$	4,338,309,018
Market Value of Assets								
ASA Account Balance	\$	1,170,914,523	\$	1,120,728,729	\$	991,924,506	\$	899,338,904
ASA Annuities	•	108,501,422	•	86,516,737	•	78,374,599	•	65,008,420
Pension: Retirees		788,534,587		672,727,439		703,495,761		581,152,80°
Pension: Non-retirees		3,311,162,510		3,309,469,425		2,659,891,307		2,472,648,700
Total	\$	5,379,113,042	\$	5,189,442,330	\$	4,433,686,173	\$	4,018,148,83
ctuarial Value of Assets								
ASA Account Balance	\$	1,170,914,523	\$	1,120,728,729	\$	991,924,506	\$	899,338,904
ASA Annuities		108,501,422		86,516,737		78,374,599		65,008,426
Pension: Retirees		788,534,587		672,727,439		703,495,761		581,152,80°
Pension: Non-retirees		3,393,221,851		3,155,258,596		2,680,033,218		2,390,954,90
Total	\$	5,461,172,383	\$	5,035,231,501	\$	4,453,828,084	\$	3,936,455,036
Infunded Accrued Liability								
ASA Account Balance	\$	0	\$	0	\$	0	\$	(
ASA Annuities		0		0		0		(
Pension: Retirees		0		0		0		(
Pension: Non-retirees		444,518,650		201,761,668		295,540,591		401,853,982
Total	\$	444,518,650	\$	201,761,668	\$	295,540,591	\$	401,853,982
unded Percentage								
ASA Account Balance		100.0%		100.0%		100.0%		100.0%
ASA Annuities		100.0%		100.0%		100.0%		100.0%
Pension: Retirees		100.0%		100.0%		100.0%		100.0%
Pension: Non-retirees	_	88.4%	_	94.0%	_	90.1%	_	85.6%
Total		92.5%		96.1%		93.8%		90.7%
Pension Normal Cost	\$	167,836,193	\$	170,892,424	\$	155,314,388	\$	147,336,605
innual Costs		Fiscal 2017		Fiscal 2016		Fiscal 2015		Fiscal 201
Actuarially Determined Contribution (ADC) Calculated Contribution Rate	\$	216,422,370	\$	201,966,380	\$	178,260,000	\$	177,711,000
Normal Cost		5.45%		5.72%		5.67%		5.68%
Amortization of Unfunded Liability		1.12%		0.54%		0.83%		1.16%
	_			0.00/		6 500/		6.84%
Total		6.57%		6.26%		6.50%		0.047

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Unfunded Accrued Liability

\$Millions				
June 30	Accrued Liability	Actuarial Value of Assets	Unfunded Accrued Liability	Funded Percentage
1996	\$ 48	\$ 21	\$ 27	43.8%
1997	176	72	104	40.9%
1998	298	136	162	45.6%
1999	498	240	258	48.2%
2000	706	368	338	52.1%
2001	828	447	381	54.0%
2002	1,167	621	546	53.2%
2003	1,392	826	566	59.3%
2004	1,649	1,039	610	63.0%
2005	2,011	1,268	743	63.1%
2006	2,363	2,209	154	93.5%
2007	2,828	2,713	115	95.9%
2008	2,958	3,080	(122)	104.1%
2009	3,136	2,921	215	93.1%
2010	3,615	3,423	192	94.7%
2011	3,997	3,665	332	91.7%
2012	4,338	3,936	402	90.7%
2013	4,750	4,454	296	93.8%
2014	5,237	5,035	202	96.1%
2015	5,906	5,461	445	92.5%

Active Member Data

		Valuation	Average			
June 30	Number	Payroll (\$000s)	Age	Service	Pay	Pay Increase %
1996	8,683	\$ 72,506	32.2	1.3	\$ 8,350	
1997	20,686	245,168	33.0	1.8	11,852	41.9%
1998	25,634	395,758	33.6	2.2	15,439	30.3
1999	21,185	538,837	35.3	4.0	25,435	64.7
2000	24,950	631,072	36.4	4.7	25,293	(0.6)
2001	24,846	754,426	36.3	5.5	30,364	20.0
2002	27,873	1,004,515	36.7	6.1	36,039	18.7
2003	29,936	1,136,864	37.0	6.5	37,976	5.4
2004	32,000	1,267,173	37.3	6.9	39,599	4.3
2005	34,826	1,428,604	37.5	7.2	41,021	3.6
2006	36,356	1,565,341	37.7	7.5	43,056	5.0
2007	39,307	1,891,605	38.2	7.8	48,124	11.8
2008	41,628	2,052,719	38.1	8.2	49,311	2.5
2009	45,046	2,308,548	38.3	8.4	51,249	3.9
2010	46,433	2,447,509	38.6	8.8	52,711	2.9
2011	46,633	2,507,193	39.2	9.4	53,764	2.0
2012	47,885	2,594,952	39.4	9.8	54,191	0.8
2013	51,204	2,740,940	39.3	9.8	53,530	(1.2)
2014*	51,204	2,740,940	39.3	9.8	53,530	(1.2)
2015*	52,424	2,827,311	39.4	10.0	53,932	0.8

^{*} Valuations on and after June 30, 2014 are based on census data collected at the prior measurement date.



Reconciliation of Market Value of Assets

		June 30, 2014 thru June 30, 2015	June 30, 2013 thru June 30, 2014		
Market Value, beginning of year		5,189,442,330	\$ 4,433,686,173		
Member Contributions	\$	86,515,294	\$ 81,399,655		
Employer Contributions		205,763,142	194,750,861		
Non-Employer Contributing Entity Contribut	tions	0	0		
Benefit Payments		(127,898,876)	(108,719,624)		
Net Transfers		5,889,210	 8,258,032		
Non-Investment Net Cash Flow	\$	170,268,770	\$ 175,688,924		
Administrative and Project Expenses	\$	(6,185,233)	\$ (6,707,586)		
Investment Return		25,587,17 <u>5</u>	 586,774,819		
Net Investment Return	\$	19,401,942	\$ 580,067,233		
Market Value, end of year	\$	5,379,113,042	\$ 5,189,442,330		
Market Value of Assets Approximate Time-Weighted Annual Rate of Return ¹		0.4%	12.8%		



¹ Consolidated pension and ASA account return, net of investment and administrative expenses, assumes cash flows occur at mid-year.

Development of the Actuarial Value of Assets

		June 30, 2014 thru	June 30, 2013 thru
		June 30, 2015	June 30, 2014
1.	Total Actuarial Value, beginning of year	\$10,393,582,888	\$ 9,688,931,998
2.	Total ASA Account Balance, beginning of year	\$ 2,836,068,903	\$ 2,804,754,433
3.	Total Actuarial Value, Net of ASA Account Balance, beginning of year [(1) – (2)]	\$ 7,557,513,985	\$ 6,884,177,565
4.	Total Market Value, Net of ASA Account Balance, beginning of year	\$ 7,855,240,302	\$ 6,844,124,317
5.	Total Market Value, Net of ASA Account Balance, end of year	\$ 7,886,652,537	\$ 7,855,240,302
6.	Total Non-Investment Net Cash Flow	40,489,264	27,814,880
7.	Total Net Investment Return		
	a. Expected [.0675 x ((4)+0.5*(6))]	531,595,233	462,917,144
	b. Actual [(5) - (4) - (6)]	(9,077,029)	983,301,105
8.	Total Current Year Market Value Gain/(Loss) [(7b) - (7a)]	\$ (540,672,262)	\$ 520,383,961
9.	Total Deferred Recognition of Investment Gain/(Loss)		
	a. Current Fiscal Year (75% of (8))	\$ (405,504,197)	\$ 390,287,971
	b. Current Fiscal Year - 1 (50%)	260,191,981	(16,953,030)
	c. Current Fiscal Year - 2 (25%)	(8,476,515)	(75,608,624)
	d. Total [(a) + (b) + (c)]	\$ (153,788,731)	\$ 297,726,317
10.	Total Preliminary Actuarial Value, end of year [(5) - (9d)]	\$ 8,040,441,268	\$ 7,557,513,985
	a. 80% of Market Value, end of year [80% of (5)]	6,309,322,030	6,284,192,242
	b. 120% of Market Value, end of year [120% of (5)]	9,463,983,044	9,426,288,362
11.	Total Actuarial Value, end of year [(10), but not Greater than (10b), nor Less than (10a)]	\$ 8,040,441,268	\$ 7,557,513,985
12.	Total Actuarial Value as a % of Market Value [(11) / (5)]	101.9499874%	96.2098382%
13.	Total Net Investment Return on Actuarial Value [(11) - (3) - (6)] \$ 442,438,019	\$ 645,521,540
14.	Total Actuarial Value Net Rate of Return [(13) / ((3) + 0.5*(6))]	5.84%	9.36%
15.	1996 Market Value, Net of ASA Account Balance, end of year	\$ 4,208,198,519	\$ 4,068,713,601
16.	1996 Actuarial Value, Net of ASA Account Balance, end of year [(12) x (15)]	\$ 4,290,257,860	\$ 3,914,502,772
17.	1996 ASA Account Balance, end of year	\$ 1,170,914,523	\$ 1,120,728,729
18.	1996 Actuarial Value, end of year [(16) + (17)]	\$ 5,461,172,383	\$ 5,035,231,501

The Actuarial Value of Assets is determined in total for TRF Pre-1996 and 1996 Accounts (lines 1 - 14) and applied on a plan basis (lines 15 – 18.)



Accrued Liability Reconciliation

	June 30, 2014 thru June 30, 2015		June 30, 2013 thru June 30, 2014
Total Accrued Liability, beginning of year	\$	5,236,993,169	\$ 4,749,368,675
ASA Account Balance, beginning of year	\$	1,120,728,729	\$ 991,924,506
Accrued Liability, Net of ASA Account Balance, beginning of year	\$	4,116,264,440	\$ 3,757,444,169
Normal Cost		170,892,424	155,314,388
Actual Benefit Payments		(90,266,941)	(77,253,362)
Transfers		27,488,475	22,496,220
Expected Interest		287,264,315	 262,263,149
Expected Accrued Liability, Net of ASA Account Balance, end of year	\$	4,511,642,713	\$ 4,120,264,564
Sources of Change:			
Experience (Gain) or Loss		(34,483,801)	7,204,077
Mortality Change ¹		303,071,328	0
Other Assumption Changes ²		(39,080,278)	0
Additional Liability due to Cost-of-Living Adjustment ³		(6,373,452)	(6,700,000)
Plan Provision Change ⁴		0	 (4,504,201)
Accrued Liability, Net of ASA Account Balance, end of year	\$	4,734,776,510	\$ 4,116,264,440
ASA Account Balance, end of year	\$	1,170,914,523	\$ 1,120,728,729
Total Accrued Liability, end of year	\$	5,905,691,033	\$ 5,236,993,169

¹ The June 30, 2015 mortality assumption was updated to the RP-2014 White Collar mortality table with Social Security Administration improvement scale applied from 2006.



² Assumption changes other than mortality adopted on June 30, 2015 pursuant to the 2015 experience study.

³ 13th check to retirees in lieu of the assumed 2016 and 2015 1.0% COLAs.

⁴ Recognition of cost of future ASA account conversions to annuities from October 1, 2014 through December 31, 2016 at conversion interest rates lower than the valuation interest rate of 6.75%.

Asset and Liability Allocation1

	Non-Retired		Retired		Total
Accrued Liability (AL) ASA Balance	\$ 1,159,597,089	\$	11,317,434	\$	1,170,914,523
ASA Annuities	0	Ψ	108,501,422	Ψ	108,501,422
Pension: Retirees	0		788,534,587		788,534,587
Pension: Non-Retirees	3,837,740,501		0		3,837,740,501
Total	\$ 4,997,337,590	\$	908,353,443		5,905,691,033
Market Assets					
ASA Balance	\$ 1,159,597,089	\$	11,317,434	\$	1,170,914,523
ASA Annuities	0		108,501,422		108,501,422
Pension: Retirees	0		788,534,587		788,534,587
Pension: Non-Retirees	3,311,162,510		0		3,311,162,510
Total	\$ 4,470,759,599	\$	908,353,443	\$	5,379,113,042
Actuarial Assets					
ASA Balance	\$ 1,159,597,089	\$	11,317,434	\$	1,170,914,523
ASA Annuities	0		108,501,422		108,501,422
Pension: Retirees	0		788,534,587		788,534,587
Pension: Non-Retirees	3,393,221,851		0		3,393,221,851
Total	\$ 4,552,818,940	\$	908,353,443	\$	5,461,172,383
Unfunded AL					
ASA Balance	\$ 0	\$	0	\$	0
ASA Annuities	0		0		0
Pension: Retirees	0		0		0
Pension: Non-Retirees	444,518,650		0		444,518,650
Total	\$ 444,518,650	\$	0	\$	444,518,650

	June 30, 2014							
	_	Non-Retired		Retired		Total		
Accrued Liability (AL) ASA Balance ASA Annuities Pension: Retirees Pension: Non-Retirees Total	\$ \$	1,102,685,520 0 0 3,357,020,264 4,459,705,784	\$	18,043,209 86,516,737 672,727,439 0 777,287,385		1,120,728,729 86,516,737 672,727,439 3,357,020,264 5,236,993,169		
Market Assets								
ASA Balance ASA Annuities Pension: Retirees Pension: Non-Retirees Total	* 	1,102,685,520 0 0 3,309,469,425 4,412,154,945	\$	18,043,209 86,516,737 672,727,439 0 777,287,385		1,120,728,729 86,516,737 672,727,439 3,309,469,425 5,189,442,330		
Actuarial Assets								
ASA Balance ASA Annuities Pension: Retirees Pension: Non-Retirees Total	\$ \$	1,102,685,520 0 0 3,155,258,596 4,257,944,116	\$	18,043,209 86,516,737 672,727,439 0 777,287,385		1,120,728,729 86,516,737 672,727,439 3,155,258,596 5,035,231,501		
Unfunded AL ASA Balance ASA Annuities Pension: Retirees Pension: Non-Retirees	\$	0 0 0 201,761,668	\$	0 0 0 0	\$	0 0 0 201,761,668		
Total	\$	201,761,668	\$	0	\$	201,761,668		

¹ Assets are allocated first to member ASA account liabilities, then to ASA annuity liabilities, then to Pension: Retirees liabilities, and finally to Pension: Non-Retirees liabilities to determine unfunded accrued liabilities.



Solvency Test

\$Thousands

		Accrued Li	iability		_	Po		crued Liability by Assets	/
Year Ended June 30	Active Member Contributions	Retirees and Beneficiaries	Active Member (Employer Financed Portion)	Total	Actuarial Value of Assets	Active Member Contribs.	Retirees and Bfcys	Active Member (Employer Financed Portion)	Total
2005	\$535,179	\$219,722	\$1,255,845	\$2,010,746	\$1,268,575	100.0%	100.0%	40.9%	63.1%
2006	\$602,051	\$282,638	\$1,478,412	\$2,363,101	\$2,209,468	100.0%	100.0%	89.6%	93.5%
2007	\$656,918	\$449,452	\$1,721,184	\$2,827,554	\$2,713,051	100.0%	100.0%	93.3%	95.9%
2008	\$649,840	\$514,933	\$1,792,985	\$2,957,758	\$3,080,057	100.0%	100.0%	100.0%	104.1%
2009	\$655,843	\$432,942	\$2,046,748	\$3,135,533	\$2,920,735	100.0%	100.0%	89.5%	93.1%
2010	\$750,575	\$483,117	\$2,380,867	\$3,614,559	\$3,422,554	100.0%	100.0%	91.9%	94.7%
2011	\$840,341	\$562,445	\$2,594,053	\$3,996,839	\$3,664,657	100.0%	100.0%	87.2%	91.7%
2012	\$882,942	\$662,558	\$2,792,809	\$4,338,309	\$3,936,455	100.0%	100.0%	85.6%	90.7%
2013	\$975,309	\$798,486	\$2,975,573	\$4,749,368	\$4,453,828	100.0%	100.0%	90.1%	93.8%
2014	\$1,102,686	\$777,287	\$3,357,020	\$5,236,993	\$5,035,232	100.0%	100.0%	94.0%	96.1%
2015	\$1,159,597	\$908,353	\$3,837,741	\$5,905,691	\$5,461,172	100.0%	100.0%	88.4%	92.5%



Analysis of Financial Experience¹

\$Thousands	ne 30, 2014 thru ne 30, 2015	June 30, 2013 thru June 30, 2014		
Unfunded Accrued Liability, beginning of year	\$ 201,762	\$	295,540	
(Gain) / Loss:				
Actuarial Value of Assets	\$ 36,284	\$	(74,202)	
Actuarial Accrued Liabilities	(34,484)		7,204	
Amortization of Existing Bases	(16,661)		(15,576)	
Mortality Change ²	303,071		0	
Other Assumption Changes ³	(39,080)		0	
Additional Liability due to Cost-of-Living Adjustment ⁴	(6,373)		(6,700)	
Plan Provision Change⁵	 0		(4,504)	
Net Change	\$ 242,757	\$	(93,778)	
Unfunded Accrued Liability, end of year	\$ 444,519	\$	201,762	



¹ Based on pension and ASA annuities only, i.e. net of ASA account balances.

² The June 30, 2015 mortality assumption was updated to the RP-2014 White Collar mortality table with Social Security Administration improvement scale applied from 2006.

³ Assumption changes other than mortality adopted on June 30, 2015 pursuant to the 2015 experience study.

⁴ 13th check to retirees in lieu of the assumed 2016 and 2015 1.0% COLAs.

⁵ Recognition of cost of future ASA account conversions to annuities from October 1, 2014 through December 31, 2016 at conversion interest rates lower than the valuation interest rate of 6.75%.

Sensitivity to Changes in Assumed Investment Return / Interest Rate

	Assumed Investment Return / Interest Rate					
\$Millions	5.75%	6.00%	6.25%	6.50%	6.75%	
Funded Status						
Actuarial Accrued Liability	\$ 6,787.1	\$ 6,552.5	\$ 6,327.7	\$ 6,112.2	\$ 5,905.7	
Actuarial Value of Assets	5,461.2	5,461.2	5,461.2	5,461.2	5,461.2	
Unfunded Accrued Liability	\$ 1,325.9	\$ 1,091.3	\$ 866.5	\$ 651.0	\$ 444.5	
Funded Ratio	80.5%	83.3%	86.3%	89.3%	92.5%	
Actuarially Determined Contribution	Rate					
Normal Cost %	7.31%	6.79%	6.31%	5.87%	5.45%	
UAL Amortization %	2.94%	2.48%	2.03%	<u> 1.57%</u>	<u>1.12%</u>	
Actuarially Determined Contribution %	10.25%	9.27%	8.34%	7.44%	6.57%	

	Assumed Investment Return / Interest Rate					
\$Millions	7.00%	7.25%	7.50%	7.75%	8.00%	
Funded Status Actuarial Accrued Liability Actuarial Value of Assets Unfunded Accrued Liability	\$ 5,720.4 5,461.2 \$ 259.2	\$ 5,542.3 5,461.2 \$ 81.1	\$ 5,371.2 5,461.2 \$ (90.0)	\$ 5,206.8 5,461.2 \$ (254.4)	\$ 5,048.7 5,461.2 \$ (412.5)	
Funded Ratio	95.5%	98.5%	101.7%	104.9%	108.2%	
Actuarially Determined Contribution Normal Cost % UAL Amortization % Actuarially Determined Contribution %	5.08% <u>0.69%</u>	4.73% <u>0.25%</u> 4.98%	4.40% -0.18% 4.22%	4.10% -0.62% 3.48%	3.81% -1.05% 2.76%	



Calculated Employer Contribution Rate

		June 30, 2015	% of Projected Payroll for Fiscal 2016		
Normal Cost	\$	167,836,193	5.45%		
Amortization of Unfunded Accrued Liability					
Unfunded Accrued Liability (UAL)*	\$	444,518,650			
Unamortized UAL from Prior Years		198,103,352			
Net Unamortized UAL	\$	246,415,298			
Amortization Factor (30-years, level dollar)		13.5862			
Current Year Amortization Payment	\$	18,137,176			
Payments Established in Prior Years		16,184,757			
Total Amortization Payments	\$	34,321,933	1.12%		
Calculated Employer Contribution Rate	\$	202,158,126	6.57%		
Projected Fiscal 2017 Payroll	\$	3,294,100,000			
Projected Fiscal 2017 ADC	\$	216,422,370			



^{*} Pension and ASA annuity only

Statement of Fiduciary Net Position

	June 30, 2015			June 30, 2014		
Assets						
Cash and Cash Equivalents	\$	1,082,812	\$	1,975,794		
Receivables						
Contributions	\$	2,249,757	\$	1,966,508		
Miscellaneous		299,460		293,447		
Investments		81,431,379		81,479,179		
Foreign Exchange Contracts		1,002,489,643		672,205,899		
Accrued Interest and Dividends		15,335,120		14,929,084		
Due from Other Funds		1,116,070		1,230,769		
Total Receivables	\$	1,102,921,429	\$	772,104,886		
Investments						
Short Term	\$	9,953,374	\$	2,183,740		
Pooled Unit Trust Assets						
Repurchase Agreements	\$	0	\$	0		
Short Term Investments		223,459,504		214,805,070		
Fixed Income		2,122,904,122		2,113,033,612		
Equities		1,397,181,889		1,379,778,762		
Alternatives		1,646,501,214		1,514,698,352		
Derivatives		608,228		4,548,567		
Securities Lending Collateral		211,163,685		358,987,612		
Total Investments	\$	5,611,772,016	\$	5,588,035,715		
Net Capitalized Assets	\$_	717,683		1,079,784		
Total Assets	\$	6,716,493,940	\$	6,363,178,179		
Liabilities						
Accounts Payable	\$	236,622	\$	610,245		
Retirement Benefits Payable	Ψ	17,515,010	Ψ	6,473,481		
Salaries and Benefits Payable		0		0, 170, 101		
Investments Payable		69,656,855		92,696,571		
Foreign Exchange Contracts		1,006,080,660		675,496,916		
Securities Lending Obligations		211,163,685		358,987,612		
Securities Sold Under Agreement to Repurchase		32,099,795		37,410,269		
Due to Other Funds		628,27 <u>1</u>		2,060,755		
Total Liabilities	\$	1,337,380,898	\$	1,173,735,849		
Net Position Restricted for Pensions	\$	5,379,113,042	\$	5,189,442,330		



Statement of Changes in Fiduciary Net Position

	June 30, 2015			June 30, 2014		
Additions						
Contributions						
Member Contributions	\$	86,515,294	\$	81,801,667		
Employer Contributions		205,763,142		194,750,861		
Nonemployer Contributing Entity Contributions		0		0		
Other Contributions		0		0		
Total Contributions	\$	292,278,436	\$	276,552,528		
Investment Income/(Loss)		, ,	·	, ,		
Net Appreciation/(Depreciation)						
Fair Value of Investments	\$	(14,664,501)	\$	546,019,437		
Other Net Investment Income		764,980		777,238		
Net Interest and Dividends Income		71,351,232		69,918,382		
Miscellaneous Income		0		0		
Securities Lending Income		702,276		665,734		
Total Investment Income/(Loss)	\$	58,153,987	\$	617,380,791		
Less Direct Investment Expenses	•	,,	•	- ,, -		
Investment Management Fees	\$	(29,958,051)	\$	(28,178,695)		
Securities Lending Fees	•	(113,395)	•	(91,980)		
Other Direct Investment Expenses		(2,495,365)		(2,326,469)		
Total Direct Investment Expenses	\$	(32,566,811)	\$	(30,597,144)		
Net Investment Income/(Loss)	\$	25,587,176	\$	586,783,647		
Other Additions	•	-,,	•	,,-		
Miscellaneous	\$	24,170	\$	20,749		
Interfund Transfers	•	7,133,930	*	8,883,525		
Total Other Additions	\$	7,158,100	\$	8,904,274		
Total Additions	\$	325,023,712	\$	872,240,449		
	*	0_0,0_0,1	*	0,		
Deductions	•		•			
Pension and Disability Benefits	\$	116,186,940	\$	97,985,767		
Special Death Benefits		0		0		
Distributions of Contributions and Interest		11,711,936		10,733,857		
Pension Relief Distributions		0		0		
Local Unit Withdrawals		0		0		
Administrative Expenses		5,602,399		5,347,154		
Project Expenses		582,834		1,360,432		
Interfund Transfers	_	1,268,891	_	1,048,254		
Total Deductions	\$	135,353,000	\$	116,475,464		
Net Increase/(Decrease) in Net Position	\$	189,670,712	\$	755,764,985		
Net Position Restricted for Pensions						
Beginning of Year	\$	5,189,442,330	\$	4,433,677,345		
End of Year	\$	5,379,113,042	\$	5,189,442,330		



Schedule of Changes in Net Pension Liability and Related Ratios

	June 30, 2015	June 30, 2014	June 30, 2013
Total Pension Liability			
Total Pension Liability, beginning of year	\$ 5,236,993,169	\$ 4,748,148,931	\$ 4,338,309,018
Annuity Savings Account (ASA), beginning of year	1,120,728,729	990,704,762	899,338,904
Excluding ASA, beginning of year	4,116,264,440	3,757,444,169	3,438,970,114
Service Cost	\$ 170,892,424	\$ 155,314,388	\$ 147,336,605
Interest Cost	287,264,315	262,263,149	240,281,897
Experience (Gains)/Losses	(40,857,253)	504,077	(15,994,636)
Assumption Changes	263,991,050	0	0
Plan Amendments	0	(4,504,201)	0
Benefit Payments	(90,266,941)	(77,253,362)	(68,792,905)
ASA Annuitizations	22,574,841	15,151,081	11,621,194
Net Member Reassignments	4,889,464	6,922,378	0
Other	 24,170	 422,761	 4,021,900
Net Change in Total Pension Liability, Excluding ASA	\$ 618,512,070	\$ 358,820,271	\$ 318,474,055
Net Change in Total Pension Liability, ASA	50,185,794	130,023,967	91,365,858
Net Change in Total Pension Liability	668,697,864	488,844,238	409,839,913
Total Pension Liability, Excluding ASA, end of year	\$ 4,734,776,510	\$ 4,116,264,440	\$ 3,757,444,169
Total Pension Liability, ASA, end of year	1,170,914,523	1,120,728,729	990,704,762
Total Pension Liability, end of year	5,905,691,033	5,236,993,169	4,748,148,931
Fiduciary Net Position			
Fiduciary Net Position, beginning of year	\$ 5,189,442,330	\$ 4,433,677,345	\$ 4,018,148,837
Employer Contributions	205,763,142	194,750,861	180,714,567
Nonemployer contributing entities contributions	0	0	0
Member Contributions	86,515,294	81,801,667	77,532,304
Net investment income	25,587,176	586,783,647	258,111,000
Benefit Payments	(127,898,876)	(108,719,624)	(97,157,000)
Net Member Reassignments	5,865,039	7,835,271	2,806,000
Administrative and Project Expenses	(6,185,233)	(6,707,586)	(6,482,000)
Other	 24,170	 20,749	 3,637
Net Change in Fiduciary Net Position	\$ 189,670,712	\$ 755,764,985	\$ 415,528,508
Fiduciary Net Position, end of year	\$ 5,379,113,042	\$ 5,189,442,330	\$ 4,433,677,345
Net Pension Liability and Related Ratios			
Net Pension Liability, beginning of year	\$ 47,550,839	\$ 314,471,586	\$ 320,160,181
Net Pension Liability, end of year	\$ 526,577,991	\$ 47,550,839	\$ 314,471,586
Plan's Fiduciary Net Position as a			
Percentage of the Total Pension Liability	91.1%	99.1%	93.4%
Covered Employee Payroll (Actual)	\$ 2,742,186,608	\$ 2,598,115,000	\$ 2,442,496,000
Net Pension Liability as a Percentage of Covered Employee Payroll	19.2%	1.8%	12.9%
Sovered Employee r dyron	13.2/0	1.070	12.3/0



Required Supplementary Information under GASB No. 68

	June 30, 2015	June 30, 2014	June 30, 2013
Schedule of Contributions			
Actuarially Determined Contribution Contributions in Relation to the Actuarially	\$ 178,260,000	\$ 177,711,000	\$ 167,311,000
Determined Contributions	205,525,842*	194,750,861	180,714,567
Contribution Deficiency/(Excess)	\$ (27,265,842)	\$ (17,039,861)	\$ (16,314,567)
Covered Employee Payroll Contributions as a Percentage of	\$ 2,742,186,608	\$ 2,598,115,000	\$ 2,442,496,000
Covered Employee Payroll	7.5%	7.5%	7.4%
Schedule of Investment Returns Annual Money-Weighted Rate of Return,	0.579/	42.740/	F 440/
Net of Investment Expense	0.57%	12.71%	5.11%

Sensitivity of the Net Pension Liability to Changes in the Discount Rate

The following presents the net pension liability of the TRF Pre-1996 Account calculated using the discount rate of 6.75%, as well as what the net pension liability would be if it were calculated using a discount rate that is 1% lower (5.75%) or 1% higher (7.75%) than the current rate:

	1% Decrease	Current Rate	1% Increase
	5.75%	6.75%	7.75%
Net Pension Liability	\$ 1,408,000,000	\$ 526,577,991	\$ (172,300,000)

^{*} Excludes \$237,300 attributable to member service credit purchases.



Pension Expense

	June :	30, 2015	June 30, 2014		
Service Cost	\$ 1	70,892,424	\$	155,314,388	
Interest on Total Pension Liability	2	87,264,315		262,263,149	
Projected Earnings on Pension Plan Investments	(27	79,255,149)		(236,899,056)	
Changes of Benefit Terms		0		(4,504,201)	
Pension Plan Administrative Expenses		6,068,861*		6,707,586	
Other Changes		0		0	
Current Period Recognition of Deferred					
Outflows/(Inflows) of resources:					
Differences between Expected and Actual Experience in Measurement of the					
Total Pension Liability	((2,879,600)		38,775	
Changes of Assumptions		18,856,504		0	
Differences between Projected and Actual					
Earnings on Pension Plan Investments		4,202,769		(51,111,166)	
Total	\$ 2	05,150,124	\$	131,809,475	

^{*} Administrative expenses are net of \$116,372 in INPRS contributions to the plan.



<u>Deferred Outflows of Resources and Deferred Inflows of Resources</u> <u>Related to Pensions</u>

	Initial Balance	Initial Amortization Period		F	Annual Recognition				une 30, 2015 Balance
Difference between Expected and Ac Experience in Measurement of the Total Pension Liability	tual								
Base for Year ending June 30, 2015	\$ (40,857,2	53)	14	\$	(2,918,375)	\$	(37,938,878)		
Base for Year ending June 30, 2014	504,0	077	13		38,775		426,527		
Base for Year ending June 30, 2013		0			0		0		
Change of Assumptions									
Base for Year ending June 30, 2015	\$ 263,991,0	050	14	\$	18,856,504	\$	245,134,546		
Base for Year ending June 30, 2014		0			0		0		
Base for Year ending June 30, 2013		0			0		0		
Differences between Projected and Actual Earnings on Pension Plan Investments									
Base for Year ending June 30, 2015	\$ 276,569,6	674	5	\$	55,313,935	\$	221,255,739		
Base for Year ending June 30, 2014	(255,555,8	29)	5		(51,111,166)		(153,333,497)		
Base for Year ending June 30, 2013		0			0		0		
Changes in State's Proportion and Differences between Actual State Contributions and State's Proportion Share of Contributions	ate								
Base for Year ending June 30, 2015	\$	0		\$	0	\$	0		
Base for Year ending June 30, 2014		0			0		0		
Base for Year ending June 30, 2013		0			0		0		
Total				\$	20,179,673	\$	275,544,437		

The balances as of June 30, 2015 of the deferred outflows/(inflows) of resources will be recognized in pension expense as follows:

Year Ended June 30,	
2016	\$ 20,179,673
2017	\$ 20,179,673
2018	\$ 20,179,674
2019	\$ 71,290,838
2020	\$ 15,976,904
Thereafter	\$ 127,737,675



Member Data

The tables below summarize the member data used in the valuation. The June 30, 2015 valuation is based on June 30, 2014 census data, with liabilities rolled-forward to the June 30, 2015 measurement date. The data summarized in this section is as of the June 30, 2014 census collection date. The pages that follow show various distributions of the member groups.

	Males	Females	Total
Number of Actives	13,862	38,562	52,424
Average Age	39.5	39.3	39.4
Average Service	10.6	9.9	10.0
Average Pay	\$ 59,357	\$ 51,981	\$ 53,932
Number of Inactive Vesteds	1,080	3,052	4,132
Average Age	49.4	51.0	50.6
Average Service	16.1	15.0	15.3
Number of Inactive Nonvesteds	2,790	9,502	12,292
Number of Retirees and Beneficiaries	1,407	2,729	4,136
Average Age	67.2	66.6	66.8
Average Years Retired	7.1	6.0	6.4
Average Monthly Annuity	\$ 206	\$ 144	\$ 165
Average Monthly Pension	\$ 1,689	\$ 1,191	\$ 1,360
Total Number of Members	19,139	53,845	72,984



Active Members

By Attained Age and Years of Service

Attained	Years of Service to Valuation Date								
Age	<10	10-14	15-19	20-24	25-29	30+	Total		
15-19									
20-24	1,505						1,505		
25-29	7,979	1					7,980		
30-34	8,261	1,748	4				10,013		
35-39	3,498	5,022	1,354	3			9,877		
40-44	2,348	1,855	3,704	404	3		8,314		
45-49	1,590	1,195	1,517	864	165	5	5,336		
50-54	1,097	885	1,007	468	460	111	4,028		
55-59	683	635	908	368	233	279	3,106		
60-64	312	355	522	236	147	212	1,784		
65-69	110	79	97	49	36	28	399		
70-74	28	12	7	1	2	1	51		
75-79	15	3	2				20		
80 & Over	9	1		1			11		
Total	27,435	11,791	9,122	2,394	1,046	636	52,424		

Average Age: 39.4 Average Service: 10.0



Inactive Vested Members

By Attained Age and Years of Service

Attained	Years of Service at Termination										
Age	<10	10-14	15-19	20-24	25-29	30+	Total				
30-34		60					60				
35-39		480	40	1			521				
40-44		485	235	13			733				
45-49		315	188	71	6	1	581				
50-54		333	169	92	37	10	641				
55-59		320	216	100	54	41	731				
60-64		304	155	80	43	55	637				
65-69		101	49	23	11	21	205				
70-74		12	4	1	2	2	21				
75-79		1	1				2				
80 & Over											
Total		2,411	1,057	381	153	130	4,132				

Average Age: 50.6 Average Service: 15.3



By Attained Age and Completed Years of Retirement

Attained		Years of Retirement											
Age	<10	10-14	15-19	20-24	25-29	30+	Total						
Under 40	6						6						
40-44	5	1					6						
45-49	10	6					16						
50-54	49	5					54						
55-59	255	9					264						
60-64	1,072	38	1	1	1		1,113						
65-69	1,209	275	17				1,501						
70-74	401	280	84	1			766						
75-79	58	107	76	26	4		271						
80-84	10	19	34	30	5	1	99						
85-89	2	3	5	12	9		31						
90 & Over		1	1	1	5	1	9						
Total	3,077	744	218	71	24	2	4,136						

Average Age: 66.8 Average Years Retired: 6.4



By Year of Retirement

Year of Retirement	Manueltan	Monthly	Monthly Pension				
As of June 30	Number	Total	Average				
1981	1	\$ 259	\$ 259				
1982	1	936	936				
1986	2	1,562	781				
1987	5	3,335	667				
1988	3	1,050	350				
1989	5	3,767	753				
1990	11	10,617	965				
1991	12	10,707	892				
1992	11	12,590	1,145				
1993	8	7,935	992				
1994	17	22,921	1,348				
1995	27	31,393	1,163				
1996	33	42,329	1,283				
1997	31	38,656	1,247				
1998	43	52,434	1,219				
1999	50	66,228	1,325				
2000	79	101,519	1,285				
2001	107	140,484	1,313				
2002	138	196,229	1,422				
2003	167	230,598	1,381				
2004	192	262,306	1,366				
2005	168	245,730	1,463				
2006	168	228,869	1,362				
2007	193	246,129	1,275				
2008	250	352,219	1,409				
2009	235	332,014	1,413				
2010	286	396,725	1,387				
2011	409	596,201	1,458				
2012	510	685,227	1,344				
2013	619	812,639	1,313				
2014	355	493,409	1,390				
Total	4,136	\$ 5,627,020	\$ 1,360				



Reconciliation of Benefit Recipients, July 1, 2013 to July 1, 2014

	Number of Members	Annual	Sum of Allowances*
Beginning of Year Rolls	3,665	\$	67,169,376
Added to Rolls Removed from Rolls Benefit Changes	499 (28)		9,100,772 (353,092) (203,524)
End of Year Rolls	4,136	\$	75,713,532
Percentage Increase in Annual Allowances Average Annual Allowances			12.72% \$ 18,306

^{*} Pension and ASA annuity



Number of Benefit Recipients by Benefit Option

Amount of Monthly Benefit ¹	Option A-1	Option A-2	Option A-3	Option B-1	Option B-2	Option B-3	Survivors	Disability	Total
\$1-\$500	188	122	19	129	21	37	22	59	597
\$501-\$1,000	311	258	51	280	63	96	24	55	1,138
\$1,001-\$1,500	231	202	43	229	72	75	3	13	868
\$1,501-\$2,000	161	153	23	184	52	87	4	7	671
\$2,001-\$3,000	117	131	20	233	61	94	4	5	665
Over \$3,000	38	49	1	57	26	25	1	0	197
Total	1,046	915	157	1,112	295	414	58	139	4,136

Summary of Benefit Options

- A-1 Provides a monthly benefit for retiree's life. In the event the retiree dies before receiving five years of payments, the beneficiary receives the remainder of the five years (60 months) of guaranteed Defined Benefit pension payments in a lump sum.
- A-2 Provides a monthly benefit for retiree's life. The benefit ceases upon the death of the retiree.
- A-3 Provides a monthly benefit for retiree's life, including monthly annuitization of member's Annuity Savings Account (ASA). In the event the retiree dies before receiving five years of payments, the beneficiary will receive the remainder of the five years of guaranteed pension payments. The ASA is reduced with each monthly benefit paid; if the retiree dies before reducing the balance to \$0.00, the beneficiary will receive a single payment of the amount remaining.
- B-1 Provides a monthly benefit for retiree's life. Upon the death of the retiree, the qualified designated survivor receives 100% of the member's Defined Benefit for the remainder of the survivor's life.
- B-2 Provides a monthly benefit for retiree's life. Upon the death of the retiree, the qualified designated survivor receives 66-2/3% of the member's Defined Benefit for the remainder of the survivor's life.
- B-3 Provides a monthly benefit for retiree's life. Upon the death of the retiree, the qualified designated survivor receives 50% of the member's Defined Benefit for the remainder of the survivor's life.
- Survivors* Provides a monthly benefit for the surviving spouse's or dependent's life. The benefit ceases upon death of the survivor.

 Disability** Available to members with five (5) or more years of creditable service who become disabled as determined by the Social Security Administration while teaching in Indiana.
- * (of members who die while in service)
- ** Includes Classroom Disability Provides a benefit of \$125 per month plus \$5 for each additional year of TRF-covered service over five years



Schedule of Average Benefit Payments by Service at Retirement

		Years of Service at Retirement								
	20-24	25-29	30+	Total						
Avg. Monthly Defined Benefit Pension	\$437	\$467	\$740	\$1,085	\$1,458	\$2,225	\$1,360			
Avg. Monthly Annuity	\$80	\$74	\$102	\$130	\$214	\$240	\$165			
Avg. Final Avg. Salary at Retirement	\$35,509	\$45,483	\$52,501	\$58,946	\$62,883	\$72,912	\$60,815			
Number of Benefit Recipients	45	499	998	614	570	1,410	4,136			



Reconciliation of Participant Data

	Active	Inactive Vested	Inactive Nonvested	Survivor	Disabled	Retired	Beneficiary	Total
6/30/2013 Census	51,204	3,103	11,147	59	126	3,417	63	69,119
Disabled	(12)	(7)			19			0
Retired	(223)	(238)				461		0
Terminated with Vested Benefit	(1,113)	1,113						0
Terminated, due	(2,626)		2 626					0
a Refund	(2,626)		2,626					U
Died with Survivor	(2)	(1)		2	(3)	(19)	23	0
Died, no Survivor*	(1)			(3)	(9)	(15)	(1)	(29)
Refunded*	(199)	(13)	(969)					(1,181)
Forfeited*		(1)	(409)					(410)
Dropped from Database			(4)					(4)
Rehired	720	(146)	(574)					0
Status Corrections		97	(101)		2	2		0
Data Corrections		224	193		4	8		429
Moved to Pre-1996 Account	(3)							(3)
Moved from Pre- 1996 Account	6	1	4					11
New Hires	4,673		379					5,052
6/30/2014 Census	52,424	4,132	12,292	58	139	3,854	85	72,984

^{*} No remaining benefit obligation in the plan.



Summary of Benefit Provisions

Changes in Plan Provisions

since June 30, 2014

None

Regular Retirement

Eligibility Age 65 with ten years of service, or age 60 with 15 years of

service, or if age is at least 55 and the sum of age plus

credited service is at least 85.

Annual Amount State pension equal to total service times 1.1% of Average

Annual Compensation.

Early Retirement

Eligibility Age 50 with 15 years of service.

Annual Amount State pension is computed as regular retirement benefit, but

reduced for each month between age at early retirement and attainment of age 65. The age reduction factor is calculated

as the sum of the following:

• 1/10 of 1% for each month from age 60 to 65.

• 5/12 of 1% for each month from age at early retirement

to 60.

Deferred Retirement

Eligibility Ten years of service. Benefit commences at regular or early

retirement eligibility.

Annual Amount Computed as a regular retirement benefit with state pension

based on service and Average Annual Compensation at

termination.

Disability Retirement

Regular Disability Benefit:

Eligibility Five years of service.

Annual Amount \$125 per month plus \$5 per month for each year of service

credit over five years.

Disability Retirement Benefit:

Eligibility

Five years of service and determined to be disabled by the

Social Security Administration. Annual verification of Social

Security disability is required.

Annual Amount Computed as a regular retirement benefit using creditable

service to the date of disability and without reduction for early retirement. The minimum benefit is \$180 per month



Summary of Benefit Provisions

Death Before Retirement

Eligibility 15 years of service. Spouse to whom member had been

married for two or more years is automatically eligible, or a

dependent may be designated as beneficiary.

Annual Amount Computed as regular retirement benefit but reduced in

accordance with a 100% joint and survivor election.

Benefit Increases After Retirement

No automatic increases after retirement are provided. Periodically, unscheduled increases have been made. In September 2015, retirees were paid a service-related lump sum ranging from \$150 to \$450.

Average Annual Compensation

Average of highest five years of compensation. Years do not need to be consecutive.

Member Contributions

All Fund members are required by state law to contribute 3% of salary contributions to their Annuity Savings Account. These 3% contributions are generally "picked up" by the employer and contributed on a pre-tax basis on behalf of the employee. Extra voluntary contributions by the member are also possible, but on a post-tax basis. At retirement, there are six alternatives for receiving the proceeds of this account, including lump sums, full and partial rollovers, full and partial annuitization of the balance, and deferred distribution.

Forms of Benefit Payment (Pension)

The normal form of benefit payment (Option A-1) is a single life annuity with a five-year certain period. There are five optional forms of payment available, as listed below. Additionally, members retiring between ages 50 and 62 may integrate their pension benefit with their Social Security benefit by choosing Social Security Integration (Option A-4) in conjunction with the normal form or any other optional form selected. Optional forms of payment are calculated on an actuarially equivalent basis.

Option A-2: Straight Life benefit with no certain period

Option A-3: Modified Cash Refund Annuity (operates in conjunction with the Annuity Savings

Account)

Option B-1: 100% Survivorship
Option B-2: 66 2/3% Survivorship
Option B-3: 50% Survivorship

State law provides for actuarially-adjusted and re-calculated benefits based on a new optional form election in the event of the death of the member's spouse after retirement.

Optional forms of benefit are calculated based on 6.75% interest with a 50% unisex blend of the IRS 2018 combined mortality basis.



Summary of Actuarial Assumptions and Methods

The assumptions used in this valuation reflect the study of experience covering the period July 1, 2011 through June 30, 2014.

Measurement Date June 30, 2015

Valuation Date

Assets June 30, 2015

Liabilities June 30, 2014. Member census data as of June 30, 2014 was

used in the valuation and adjusted, where appropriate, to reflect changes between June 30, 2014 and June 30, 2015. Standard actuarial roll-forward techniques were then used to project the total pension liability computed as of June 30, 2014 to the June

30, 2015 measurement date.

Interest Rate / Investment Return 6.75% per year, compounded annually (net of administrative and

investment expenses).

Pay Increase Assumption Sample increases are shown in a table on the following pages.

The assumption for each year of service consists of a merit

and/or seniority increase and 2.25% for price inflation.

Total Active Member Payroll Assumed to increase 9% from Fiscal 2015 to Fiscal 2016, and

7% from Fiscal 2016 to Fiscal 2017 for the 1996 Account for purposes of calculating the projected contribution for the 2016

and 2017 fiscal years.

Price Inflation 2.25% per year. Price inflation is not directly tied to benefits;

however, it is a component of the economic model used to

determine total wage inflation.

Mortality

Healthy RP-2014 White Collar Mortality Table with Social Security

Administration generational projection scale from 2006.

Disabled RP-2014 White Collar Mortality Table with Social Security

Administration generational projection scale from 2006.

Retirement Probabilities are shown in tables on the following pages.

Withdrawal Sample probabilities are shown in tables on the following pages.

Disability Sample probabilities are shown in a table on the following pages.

Actuarial Cost Method Entry Age Normal (level percent of pay) method, with a 30-year,

closed, level dollar amortization of the Unfunded Accrued Liability arising from all sources including actuarial gains and losses. The weighted average amortization period on 6/30/2015

is 26 years.

Asset Valuation Method The Actuarial Value of Assets recognizes investment gains and

losses in equal installments over four years. However, the Actuarial Value is limited to no more than 20% greater than or 20% less than the Market Value of Assets. Investment

experience on ASA account balances is not smoothed.



Marriage Assumption 100% of members are assumed to be married for purposes of

valuing death-in-service benefits. Male spouses are assumed to

be three years older than female spouses.

Pay Increase Timing Beginning of (fiscal) year. Payroll amounts stated in the

valuation data are amounts projected to be paid during the

current year.

Decrement Timing Decrements are assumed to occur at the beginning of the year.

Other Disability and withdrawal decrements do not operate after

member reaches retirement eligibility. Only the withdrawal and death decrements operate during the first ten years of service.

Miscellaneous Adjustments The calculated liabilities and normal costs were increased by 1%

to account for the inclusion of unused sick leave in the

calculation of Average Annual Compensation.

Actuarial Equivalence Basis for Optional Forms of Payment

6.75% interest with a 50% unisex blend of the 2018 IRS

combined mortality basis.

Explicit Expense Load None.

COLA Assumption 1.0% compounded annually on pension portion, with the first

COLA credited on January 1, 2017. The January 1, 2016 assumed 1.0% COLA was replaced by a service-related lump sum (a "13th check") ranging from \$150 to \$450 in September,

2015.

Cost for ASA Conversions ASA conversions between 10/1/2014 and 9/30/2015 will be

based on a 5.75% conversion rate. Conversions between 1/1/2015 and 12/31/2016 will be based on a 4.50% conversion rate. After 1/1/2017, ASA annuity conversions

will occur outside of the plan.

ASA Annuitization 50% of ASA balances are assumed to be converted to annuities

at retirement prior to 1/1/2017, 0% thereafter.

valuation were furnished by the Chief Financial Officer and Staff. We did not audit the information provided, but we did review it thoroughly for reasonableness and compared it with the prior

year's submission for consistency.

The actuarial valuation computations were made under the supervision of a Member of the American Academy of Actuaries (MAAA).



Probabilities of Age and Service Retirement

Regu	ılar Retirement	Rule	of 85 Retirement	Ear	ly Retirement
Age	Probability	Age	Probability	Age	Probability
				50-53	0.020
				54	0.050
		55	0.150	55	0.050
		56	0.150	56	0.050
		57	0.150	57	0.065
		58	0.150	58	0.080
		59	0.200	59	0.120
60	0.200	60	0.200		
61	0.250	61	0.250		
62	0.300	62	0.300		
63	0.350	63	0.350		
64	0.400	64	0.400		
65	0.450	65	0.450		
66	0.450	66	0.450		
67	0.450	67	0.450		
68	0.450	68	0.450		
69	0.450	69	0.450		
70	1.0000	70	1.0000		

Probabilities of Disability

Attained	Age-Based				
Age	Male	Female			
25	0.0001	0.0001			
30	0.0001	0.0001			
35	0.0001	0.0001			
40	0.0001	0.0001			
45	0.0002	0.0002			
50	0.0005	0.0005			
55	0.0009	0.0009			
60	0.0010	0.0010			



Probabilities of Withdrawal

Years of	Service-Based				
Service	Male	Female			
0	0.3500	0.3500			
1	0.1400	0.1400			
2	0.1100	0.1100			
3	0.0900	0.0900			
4	0.0800	0.0800			
5	0.0700	0.0700			
6	0.0600	0.0600			
7	0.0500	0.0550			
8	0.0450	0.0500			
9	0.0450	0.0450			

Attained	Age-Based*				
Age	Male	Female			
30	0.0225	0.0300			
35	0.0225	0.0300			
40	0.0225	0.0200			
45	0.0225	0.0200			
50	0.0225	0.0200			
55	0.0225	0.0200			
60	0.0225	0.0200			

^{*}Age-Based rates apply only if 10 or more years of service.



Pay Increase Assumption

Years of Service	Merit & Seniority	Inflation	Total
1	10.25%	2.25%	12.50%
5	2.75%	2.25%	5.00%
10	2.75%	2.25%	5.00%
15	1.50%	2.25%	3.75%
20	0.25%	2.25%	2.50%
25	0.25%	2.25%	2.50%
30	0.25%	2.25%	2.50%
35	0.25%	2.25%	2.50%
40	0.25%	2.25%	2.50%



Definitions of Technical Terms

Accrued Service Service credited under the system that was rendered before

the date of the actuarial valuation.

Accrued Liability

The difference between the actuarial present value of future benefit payments and the actuarial present value of future

normal costs. Also referred to as "actuarial accrued liability"

or "past service liability".

Actuarial Assumptions Estimates of expected future experience with respect to

rates of mortality, disability, turnover, retirement, rate of investment return, and pay increases. Decrement assumptions (rates of mortality, disability, turnover, and retirement) are generally based on past experience, often modified for projected changes in conditions. Economic assumptions (pay increases and investment return) consist of the underlying rates in an inflation-free environment plus a

provision for a long-term average rate of inflation.

Actuarial Cost Method A mathematical budgeting procedure for allocating the dollar

amount of the "actuarial present value of future benefit payments" between future normal costs and actuarial accrued liabilities. Sometimes referred to as the "actuarial

funding method".

Actuarial Equivalent One series of payments is said to be actuarially equivalent to

another series of payments if the two series have the same

actuarial present value.

Actuarial Gain / (Loss) The difference between actual unfunded actuarial accrued

liability and anticipated unfunded actuarial accrued liability — during the period between two valuation dates. It is a measurement of the difference between actual and expected

experience.

Actuarial Present Value The single amount now that is equal to a payment or series

of payments in the future. It is determined by discounting future payments at predetermined rates of interest and by

probabilities of payment.

Amortization Paying off a present value with periodic payments.

Normal Cost The portion of the actuarial present value of future benefits

that is assigned to the current year by the actuarial cost

method. Sometimes referred to as "current cost".

Unfunded Accrued Liability The difference between the accrued liability and the actuarial

value of assets. Sometimes referred to as "unfunded past service liability" or "unfunded actuarial accrued liability" or

simply as "unfunded liability".



The Actuarial Valuation Process

The actuarial valuation is the mathematical process by which a contribution rate is determined. The flow of activity constituting the valuation may be summarized as follows:

Covered Person Data: Furnished by the Plan Administrator

Retired Members and Beneficiaries Now Receiving Benefits Former Employees with Vested Benefits Not Yet Payable Active Members

- + Asset Data (Cash and Investments): Furnished by the Plan Administrator
- **+ Estimates of Future Experience (Actuarial Assumptions):** Established by the Board of Trustees after Consulting with the Actuary
- + Funding Method: The Allocation of Employer Costs to Past Service, Current Service, and Future Service
- + Mathematically Combining the Assumptions, the Funding Method, and the Data
- = Determination of:

Plan Funded Status and Employer Contribution Rate



Active Member Data: Total Fund

		Valuation			Averag	e	
June	30 Number	Payroll (\$000s)	Age	Service		Pay	Pay Increase %
1975	63,932	\$ 749,200	38.7	10.9	\$	11,719	
1980		1,107,699	39.7	11.9	*	16,638	
1985		1,519,887	41.5	14.2		24,151	
1987	•	1,751,709	42.0	14.5		27,303	
1989	•	2,044,797	42.6	14.9		30,988	
1991		2,278,715	43.0	15.4		35,957	
1992		2,416,263	43.8	16.0		37,766	5.0%
1993		2,536,165	44.0	16.1		39,263	4.0
1994	- /	2,614,915	44.1	16.2		40,101	2.1
1995	,	2,728,811	44.2	16.2		41,009	2.3
1996	•	2,878,329	42.9	14.1		36,497	(11.0)
1997	·	2,984,604	42.4	13.2		35,444	(2.9)
1998	•	3,094,941	42.5	13.2		36,556	3.1
1999	•	3,294,326	44.1	15.1		42,374	15.9
2000	•	3,192,605	44.4	15.2		40,999	(3.2)
2001	,	3,318,877	44.6	15.7		43,872	7.0
2002	· ·	3,609,471	44.7	15.8		47,884	9.1
2003	•	3,585,135	44.5	15.5		48,684	1.7
2004	•	3,651,653	44.5	15.5		49,676	2.0
2005		3,734,330	44.4	15.4		50,516	1.7
2006		3,802,721	44.5	15.4		51,844	2.6
2007	· ·	4,267,995	44.9	15.5		56,281	8.6
2008	76,256	4,348,535	44.6	15.6		57,025	1.3
2009	,	4,339,032	44.4	15.3		58,365	2.3
2010		4,312,611	44.2	15.2		59,181	1.4
2011		4,269,944	44.5	15.5		59,851	1.1
2012	- ,	4,232,018	44.4	15.4		59,967	0.2
2013		4,124,368	43.5	14.6		58,573	(2.3)
2014 2015	•	4,124,368 4,006,157	43.5 43.0	14.6 14.1		58,573	(2.3)
2015	5* 68,734	4,000,157	43.0	14.1		58,285	(0.5)

^{*} Valuations on and after June 30, 2014 are based on census data collected at the prior measurement date.



Member Data: Total Fund

The tables below summarize the member data used in the valuation. The June 30, 2015 valuation is based on June 30, 2014 census data, with liabilities rolled-forward to the June 30, 2015 measurement date. The data summarized in this section is as of the June 30, 2014 census collection date. The pages that follow show various distributions of the member groups.

	Males	Females	Total
Number of Actives	18,025	50,709	68,734
Average Age	43.0	43.0	43.0
Average Service	14.7	13.9	14.1
Average Pay	\$ 63,630	\$ 56,385	\$ 58,285
Number of Inactive Vesteds	2,159	6,518	8,677
Average Age	54.0	55.0	54.8
Average Service	21.1	19.7	20.1
Number of Inactive Nonvesteds	2,869	9,831	12,700
Number of Retirees and Beneficiaries	18,052	36,298	54,350
Average Age	72.3	72.1	72.2
Average Years Retired	12.6	12.3	12.4
Average Monthly Annuity	\$ 224	\$ 177	\$ 192
Average Monthly Pension	\$ 1,632	\$ 1,379	\$ 1,463
Total Number of Members	41,105	103,356	144,461



Active Members: Total Fund

By Attained Age and Years of Service

Attained	Years of Service to Valuation Date								
Age	<10	10-14	15-19	20-24	25-29	30+	Total		
15-19									
20-24	1,505						1,505		
25-29	7,979	1					7,980		
30-34	8,261	1,748	4				10,013		
35-39	3,499	5,022	1,354	3			9,878		
40-44	2,476	1,907	4,084	947	6		9,420		
45-49	1,710	1,311	1,761	2,620	770	8	8,180		
50-54	1,156	942	1,149	1,253	2,575	850	7,925		
55-59	731	684	1,025	1,045	1,279	2,692	7,456		
60-64	350	384	611	689	698	2,397	5,129		
65-69	135	89	115	127	134	476	1,076		
70-74	33	17	11	10	12	47	130		
75-79	20	5	2			3	30		
80 & Over	9	1	_	1	_	1	12		
Total	27,864	12,111	10,116	6,695	5,474	6,474	68,734		

Average Age: 43.0 Average Service: 14.1



Inactive Vested Members: Total Fund

By Attained Age and Years of Service

Attained	Years of Service at Termination							
Age	0-9	10-14	15-19	20-24	25-29	30+	Total	
20-24								
25-29								
30-34		60					60	
35-39		480	40	1			521	
40-44		545	283	25			853	
45-49		471	289	143	31	2	936	
50-54		546	323	205	151	27	1,252	
55-59		536	398	269	261	404	1,868	
60-64		646	291	258	216	875	2,286	
65-69		232	88	76	85	312	793	
70-74		25	14	7	5	23	74	
75-79		3	3	_	_	4	10	
80 & Over		10	6	3	5		24	
Total		3,554	1,735	987	754	1,647	8,677	

Average Age: 54.8 Average Service: 20.1



By Attained Age and Completed Years of Retirement

Attained		Years of Retirement							
Age	0-9	10-14	15-19	20-24	25-29	30+	Total		
Under 40	16	10	7	5	5	1	44		
40-44	14	4	8	3		1	30		
45-49	30	14	9	8	1		62		
50-54	137	32	18	12	2	2	203		
55-59	1,536	53	32	23	10	6	1,660		
60-64	8,240	244	70	53	35	14	8,656		
65-69	10,412	3,559	279	92	38	16	14,396		
70-74	3,648	4,174	2,386	291	67	31	10,597		
75-79	524	1,715	3,162	1,347	288	70	7,106		
80-84	47	319	1,548	2,306	776	265	5,261		
85-89	15	63	221	1,294	1,589	651	3,833		
90-94	7	4	22	149	727	813	1,722		
95-99	2	2	4	10	68	577	663		
100 & Over					1	116	117		
Total	24,628	10,193	7,766	5,593	3,607	2,563	54,350		

Average Age: 72.2 Average Years Retired: 12.4



By Year of Retirement

Year of Retirement	N	Monthly Pension		
As of June 30	Number	Total	Average	
Before 1978	507	\$213,733	\$422	
1978	146	71,853	492	
1979	177	93,082	526	
1980	235	142,291	605	
1981	244	139,703	573	
1982	240	139,082	580	
1983	339	207,971	613	
1984	396	251,411	635	
1985	579	404,555	699	
1986	535	384,696	719	
1987	649	500,973	772	
1988	766	629,646	822	
1989	651	566,924	871	
1990	1,015	1,025,749	1,011	
1991	1,024	1,122,755	1,096	
1992	955	1,070,414	1,121	
1993	1,007	1,208,165	1,200	
1994	1,156	1,418,158	1,227	
1995	1,513	1,925,593	1,273	
1996	1,521	1,984,455	1,305	
1997	1,325	1,719,292	1,298	
1998	1,679	2,170,943	1,293	
1999	1,577	2,160,267	1,370	
2000	1,860	2,622,537	1,410	
2001	1,863	2,699,585	1,449	
2002	2,207	3,192,118	1,446	
2003	1,991	2,937,835	1,476	
2004	2,329	3,477,752	1,493	
2005	2,213	3,471,776	1,569	
2006	2,396	3,808,580	1,590	
2007	2,316	3,616,245	1,561	
2008	2,789	4,627,312	1,659	
2009	2,098	3,623,289	1,727	
2010	2,371	4,214,916	1,778	
2011	3,240	5,916,985	1,826	
2012	3,607	6,674,399	1,850	
2013	3,226	6,046,865	1,874	
2014	1,608	3,029,405	1,884	
Total	54,350	\$79,511,307	\$1,463	



Number of Benefit Recipients by Benefit Option

Amount of Monthly Benefit ¹	Option A-1	Option A-2	Option A-3	Option B-1	Option B-2	Option B-3	Survivors	Disability	Total
\$1-\$500	1,836	948	222	1,225	256	454	480	137	5,558
\$501-\$1,000	2,316	1,649	346	2,189	740	1,028	357	226	8,851
\$1,001-\$1,500	3,340	2,660	470	4,154	1,263	1,421	144	236	13,688
\$1,501-\$2,000	3,206	3,096	372	4,484	1,465	1,772	134	119	14,648
\$2,001-\$3,000	2,275	2,726	289	2,753	1,042	1,291	57	32	10,465
Over \$3,000	264	305	20	297	125	128	1	0	1,140
Total	13,237	11,384	1,719	15,102	4,891	6,094	1,173	750	54,350

¹Pension only

Summary of Benefit Options

- A-1 Provides a monthly benefit for retiree's life. In the event the retiree dies before receiving five years of payments, the beneficiary receives the remainder of the five years (60 months) of guaranteed Defined Benefit pension payments in a lump sum.
- A-2 Provides a monthly benefit for retiree's life. The benefit ceases upon the death of the retiree.
- A-3 Provides a monthly benefit for retiree's life, including monthly annuitization of member's Annuity Savings Account (ASA). In the event the retiree dies before receiving five years of payments, the beneficiary will receive the remainder of the five years of guaranteed pension payments. The ASA is reduced with each monthly benefit paid; if the retiree dies before reducing the balance to \$0.00, the beneficiary will receive a single payment of the amount remaining.
- B-1 Provides a monthly benefit for retiree's life. Upon the death of the retiree, the qualified designated survivor receives 100% of the member's Defined Benefit for the remainder of the survivor's life.
- B-2 Provides a monthly benefit for retiree's life. Upon the death of the retiree, the qualified designated survivor receives 66-2/3% of the member's Defined Benefit for the remainder of the survivor's life.
- B-3 Provides a monthly benefit for retiree's life. Upon the death of the retiree, the qualified designated survivor receives 50% of the member's Defined Benefit for the remainder of the survivor's life.
- Survivors* Provides a monthly benefit for the surviving spouse's or dependent's life. The benefit ceases upon death of the survivor.

 Disability** Available to members with five (5) or more years of creditable service who become disabled as determined by the Social Security Administration while teaching in Indiana.
- * (of members who die while in service)
- ** Includes Classroom Disability Provides a benefit of \$125 per month plus \$5 for each additional year of TRF-covered service over five years



Schedule of Average Benefit Payments by Service at Retirement

	Years of Service at Retirement								
	<10	10-14	15-19	20-24	25-29	30+	Total		
Avg. Monthly Defined Benefit Pension	\$443	\$322	\$574	\$877	\$1,229	\$1,829	\$1,463		
Avg. Monthly Annuity	\$77	\$101	\$105	\$133	\$166	\$229	\$192		
Avg. Final Avg. Salary at Retirement	\$36,708	\$29,761	\$40,461	\$46,607	\$51,252	\$57,625	\$52,905		
Number of Benefit Recipients	87	1,737	4,777	6,224	8,745	32,780	54,350		



Reconciliation of Participant Data: Total Fund

	Active	Inactive Vested	Inactive Nonvested	Survivor	Disabled	Retired	Beneficiary	Total
6/30/2013 Census	70,414	6,417	11,693	1,205	741	47,373	3,691	141,534
Disabled	(22)	(16)			38			0
Retired	(1,198)	(1,074)				2,272		0
Terminated with Vested Benefit	(3,082)	3,082						0
Terminated, due a Refund	(2,680)		2,680					0
Died with Survivor	(16)	(3)		8	(13)	(382)	406	0
Died, no Survivor*	(2)	(2)		(39)	(31)	(789)	(185)	(1,048)
Refunded*	(210)	(36)	(1,043)					(1,289)
Forfeited*		(2)	(468)					(470)
Dropped from Database			(17)					(17)
Rehired	776	(186)	(590)					0
Status Corrections		128	(134)	(3)	(1)	10		0
Data Corrections		369	198	2	12	22	13	616
New Hires	4,754		381					5,135
6/30/2014 Census	68,734	8,677	12,700	1,173	746	48,506	3,925	144,461

^{*} No remaining benefit obligation in the plan.

