
Actuarial Section

Report of the Actuary
on the
Annual Valuation
of the
Retiree Medical and Life Insurance Plans
for Fiscal Year ending June 30, 2012



Cavanaugh Macdonald

CONSULTING, LLC

The experience and dedication you deserve

December 10, 2012

Board of Trustees
Teachers' Retirement System of the State of Kentucky
479 Versailles Road
Frankfort, KY 40601-3800

Members of the Board:

Governmental Accounting Standards Board Statements No. 43 and 45 require the Teachers' Retirement System of the State of Kentucky (the System) to conduct actuarial valuations of the System's retiree medical and other post employment benefit plans. This report covers the Retiree Medical Plan funded by the Medical Insurance Fund and OPEB liabilities related to the Life Insurance Plan funded by the Life Insurance Fund. Cavanaugh Macdonald Consulting, LLC (CMC) has submitted the results of the annual actuarial valuation prepared as of June 30, 2012. While not verifying the data at source, the actuary performed tests for consistency and reasonability.

The valuation indicates a total annual required contribution of 7.10% of active member payroll for the Medical Insurance Fund payable for the fiscal year ending June 30, 2015 is required to support the benefits of the Kentucky Employees' Health Plan (KEHP) and the Medicare Eligible Health Plan (MEHP). Of this amount, 2.27% of payroll is estimated to be paid by University members and 3.00% of payroll is estimated to be paid by all other members, leaving 4.83% and 4.10% respectively, as the remaining annual required contribution. This annual required contribution reflects the assets currently held in the Medical Insurance Fund and an 8.00% discount rate for valuing liabilities.

Since the previous valuation, the assumed rates of participation of future retirees in the Retiree Medical Plan have been adjusted to reflect experience.

The Life Insurance Plan valuation indicates a total annual required contribution of 0.03% of active member payroll payable for the fiscal year ending June 30, 2015 is required to support the benefits of the Life Insurance Fund. As contributions to the Life Insurance Fund meet the required levels, the discount rate for valuing liabilities is 7.50%.

The promised benefits of the Retiree Medical and Life Insurance Plans are included in the actuarially calculated contribution rates which are developed using the entry age normal actuarial cost method. The market value of plan assets is used for actuarial valuation purposes. Gains and losses are reflected in the unfunded accrued liability that is being amortized by regular annual contributions as a level percentage of payroll within a 30-year period, on the assumption that payroll will increase by 4.0% annually. The assumptions recommended by the actuary and adopted by the Board are in aggregate reasonably related to the experience under the Retiree Medical and Life Insurance Plans and to reasonable expectations of anticipated experience under the Retiree Medical and Life Insurance Plans and meet the parameters for the disclosures under GASB 43 and 45.

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CMC has prepared the trend information shown in the Schedule of Funding Progress in the Financial Section of the Annual Report and Section VII shown in the Actuarial Section of the Annual Report.

This is to certify that the independent consulting actuaries are members of the American Academy of Actuaries and have experience in performing valuations for public retirement systems, that the valuation was prepared in accordance with principles of practice prescribed by the Actuarial Standards Board, and that the actuarial calculations were performed by qualified actuaries in accordance with accepted actuarial procedures, based on the current provisions of the Retiree Medical and Life Insurance Plans and on actuarial assumptions that are internally consistent and reasonably based on the actual experience of the plans.

Future actuarial results may differ significantly from the current results presented in this report due to such factors as the following: plan experience differing from that anticipated by the economic or demographic assumptions; changes in economic or demographic assumptions; increases or decreases expected as part of the natural operation of the methodology used for these measurements (such as the end of an amortization period or additional cost or contribution requirements based on the plan's funded status); and changes in plan provisions or applicable law. Since the potential impact of such factors is outside the scope of a normal annual actuarial valuation, an analysis of the range of results is not presented herein.

In our opinion, if the State contributions to the Medical Insurance Fund are increased to the planned levels, the Retiree Medical Plan will begin to operate in a more actuarially sound basis. Assuming that required contributions to the Medical Insurance Fund are made by the employer from year to year in the future at the levels required on the basis of the successive actuarial valuations, the actuarial soundness of the Medical Insurance Fund to provide the benefits called for under the Retiree Medical Plan will improve.

Respectfully submitted,

Handwritten signature of Eric Gary in blue ink.

Eric Gary, FSA, FCA, MAAA
Senior Actuary

Handwritten signature of Alisa Bennett in blue ink.

Alisa Bennett, FSA, EA, FCA, MAAA
Principal and Senior Actuary

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Report of Actuary on the on the Annual Valuation of the Retiree Medical and Life Insurance Plans
 Prepared as of June 30, 2012

Section I - Summary of Principal Results

1. For convenience of reference, the principal results of the valuation and a comparison with the results of the previous valuation are summarized below (all dollar amounts are \$1,000's):

~ Medical Insurance Fund ~		
Valuation Date	June 30, 2012	June 30, 2011
Number of active members	75,951	76,349
Annual salaries	\$ 3,479,567	\$ 3,451,756
Number of vested former members	3,641	3,485
Number of annuitants in medical plans	36,000	35,033
Number of spouses and beneficiaries in medical plans*	<u>7,008</u>	<u>6,922</u>
Total	43,008	41,955
Assets:		
Market value	\$ 338,746	\$ 294,819
Unfunded actuarial accrued liability	\$ 3,255,794	\$ 3,128,330
Amortization period (years)	30	30
Discount rate	8.00%	8.00%

**Spouses of post-65 retirees, as well as surviving spouses of deceased retirees, pay 100% of the full contribution. 100% of the full contribution for non-Medicare eligible dependents is paid through a combination of payments from beneficiaries and the State.*

Medical Insurance Fund Contribution Rates for University Members				
Valuation Date For Fiscal Year Ending	June 30, 2012		June 30, 2011	
	June 30, 2015		June 30, 2014	
	Members hired before 7/1/2008	Members hired on or after 7/1/2008	Members hired before 7/1/2008	Members hired on or after 7/1/2008
Normal	1.99 %	1.99 %	2.00 %	2.00 %
Accrued liability	<u>5.11</u>	<u>5.11</u>	<u>4.95</u>	<u>4.95</u>
Total	7.10 %	7.10 %	6.95 %	6.95 %
Member	2.27 %	2.27 %	1.75 %	1.75 %
Employer (ARC)	2.27	1.27	1.75	0.75
State (ARC)	<u>2.56</u>	<u>3.56</u>	<u>3.45</u>	<u>4.45</u>
Total	7.10 %	7.10 %	6.95 %	6.95 %

Medical Insurance Fund Contribution Rates for School District Employees (Non-Federal)				
Valuation Date For Fiscal Year Ending	June 30, 2012		June 30, 2011	
	June 30, 2015		June 30, 2014	
	Members hired before 7/1/2008	Members hired on or after 7/1/2008	Members hired before 7/1/2008	Members hired on or after 7/1/2008
Normal	1.99 %	1.99 %	2.00 %	2.00 %
Accrued liability	<u>5.11</u>	<u>5.11</u>	<u>4.95</u>	<u>4.95</u>
Total	7.10 %	7.10 %	6.95 %	6.95 %
Member	3.00 %	3.00 %	2.25 %	2.25 %
Employer (ARC)	2.25	2.25	1.50	1.50
State (ARC)	<u>1.85</u>	<u>1.85</u>	<u>3.20</u>	<u>3.20</u>
Total	7.10 %	7.10 %	6.95 %	6.95 %



Medical Insurance Fund Contribution Rates for Other Employees				
Valuation Date For Fiscal Year Ending	June 30, 2012		June 30, 2011	
	June 30, 2015		June 30, 2014	
	Members hired before 7/1/2008	Members hired on or after 7/1/2008	Members hired before 7/1/2008	Members hired on or after 7/1/2008
Normal	1.99 %	1.99 %	2.00 %	2.00 %
Accrued liability	<u>5.11</u>	<u>5.11</u>	<u>4.95</u>	<u>4.95</u>
Total	7.10 %	7.10 %	6.95 %	6.95 %
Member	3.00 %	3.00 %	2.25 %	2.25 %
Employer (ARC)	3.00	2.00	2.25	1.25
State (ARC)	<u>1.10</u>	<u>2.10</u>	<u>2.45</u>	<u>3.45</u>
Total	7.10 %	7.10 %	6.95 %	6.95 %

~ Life Insurance Fund ~		
(dollar amounts are \$1,000's)		
Valuation Date	June 30, 2012	June 30, 2011
Number of active members	75,951	76,349
Annual salaries	\$ 3,479,567	\$ 3,451,756
Number of vested former members	3,641	3,485
Number of retirees in Life Insurance Plan	42,602	41,118
Assets:		
Market value	\$ 92,241	\$ 88,527
Unfunded actuarial accrued liability*	\$ (843)	\$ (439)
Amortization period (years)	30	30
Discount rate	7.50%	7.50%
Contribution for fiscal year ending	June 30, 2015	June 30, 2014
Normal	0.03%	0.03%
Accrued liability	<u>0.00</u>	<u>0.00</u>
Total	0.03%	0.03%

* Includes liability for death in active service. This amount could be segregated from the OPEB liability and assets could be split for active and post employment purposes. However, since this could be administratively burdensome and since death in active service liabilities can be considered de minimis, it is acceptable to consider the entire liability an OPEB liability under GASB 45 and 45.

- The valuation indicates combined member, employer, and State contributions of 7.10% of active member payroll would be sufficient to support the current benefits of the Retiree Medical Plan and State contributions of 0.03% of active member payroll would be sufficient to support the current benefits of the Life Insurance Plan. Comments on the valuation results as of June 30, 2012 are given in Section IV and further discussion of the contribution levels is set out in Sections VI and VII.
- Since the previous valuation an assumption change regarding future retiree participation was made to reflect fewer retirees electing coverage under the KEHP or the MEHP if the maximum benefit is not payable upon retirement. Schedule C of this report outlines the full set of actuarial assumptions and methods employed in the current valuation.



4. There were no changes in benefit provisions since the last valuation. However, the health insurance plan designs have changed for eligible retirees. The changes are summarized below.
- Plan design changes are to be implemented for Plan Year 2013 for the KEHP, the self-insured plan for active employees and non-Medicare eligible retirees administered by the Commonwealth of Kentucky.
 - The open enrollment for the MEHP for an effective date of January 1, 2013 is the last open enrollment opportunity for a spouse who is currently waiving coverage under the MEHP. After January 1, 2013, an MEHP spouse must have one of six qualifying events occur to enroll in the MEHP.
 - In 2013, the Kentucky Retirement Systems' (KRS) Medicare eligible premium is expected to be less than the MEHP premium. KRS will only allow a bill for a portion of the lower KRS premium, creating a discrepancy in premiums for 2013. As such, reciprocity retirees with less than 20 years of KTRS service (or less than 27 KTRS years for retirees who entered KTRS after 2002) will be responsible for the balance of the premium in addition to any other portion of the premium for which he/she is responsible. As the discrepancy is assumed to occur over a short period and impact a small number of participants, the impact to the Retiree Medical Plan's liability is assumed to be de minimis.

Section II - MEMBERSHIP DATA

1. Data regarding the membership of the medical and life insurance plans for use as a basis of the valuation were furnished by the System's office. The following tables summarize the membership of the System as of June 30, 2012, upon which the valuation was based. Detailed tabulations of the data are given in Schedule E.

Active Members as of June 30, 2012		
Group	Number	Annual Salaries (\$1,000's)
Full Time	58,874	\$ 3,361,793
Part Time	17,007	117,774
Total	75,951	\$ 3,479,567

The table reflects the active membership for whom complete valuation data was submitted. The results of the valuation were adjusted to take account of inactive members and members for whom incomplete data was submitted.

2. The following tables show the number of retired members and their beneficiaries receiving health care as of the valuation date as well as average ages.

Retirees Receiving Health Benefits as of June 30, 2012			
	Under Age 65	Age 65 and Over	TOTAL
Number	14,952	21,048	36,000
Average Age	60.3	74.4	68.6
Spouses Receiving Health Benefits as of June 30, 2012			
Number	3,273	3,735	7,008
Average Age	59.1	75.6	67.9

3. The valuation also includes 3,641 deferred vested members eligible for health care at age 60.



Section III - ASSETS

1. As of June 30, 2012 the market value of Medical Insurance Fund assets for valuation purposes held by the Retiree Medical Plan amounted to \$338,746,553 and the market value of Life Insurance Fund assets for valuation purposes held by the Life Insurance Plan amounted to \$92,241,246.
2. Schedule B shows the receipts and disbursements for the year preceding the valuation date and a reconciliation of the asset balances for the Medical Insurance Fund and the Life Insurance Fund.

Section IV - COMMENTS ON VALUATION

1. Schedule A of this report outlines the results of the actuarial valuation. The valuation was prepared in accordance with the actuarial assumptions and the actuarial cost method, which are described in Schedule C.
2. The valuation shows the Retiree Medical Plan has an actuarial accrued liability of \$1,547,871,105 for benefits expected to be paid on account of the present active membership, based on service to the valuation date. The liability on account of deferred vested members amounts to \$13,409,898. The liability on account of benefits payable to retirees and covered spouses amounts to \$2,033,259,311. The total actuarial accrued liability of the Retiree Medical Plan amounts to \$3,594,540,314. Against these liabilities, the Retiree Medical Plan has present assets for valuation purposes of \$338,746,553. When this amount is deducted from the actuarial accrued liability of \$3,594,540,314 there remains \$3,255,793,761 as the unfunded actuarial accrued liability for the Retiree Medical Plan.
3. The normal contribution is equal to the actuarial present value of benefits accruing during the current year. The normal contribution for the Retiree Medical Plan is determined to be \$69,338,237, or 1.99% of payroll.
4. The valuation shows that the Life Insurance Plan has an actuarial accrued liability of \$16,160,647 for benefits expected to be paid on account of the present active membership, based on service to the valuation date. The liability on account of deferred vested members amounts to \$1,726,221. The liability on account of benefits payable to retirees amounts to \$73,511,496. The total actuarial accrued liability of the Life Insurance Plan amounts to \$91,398,364. This amount includes liability for death in active service. The liability for death in active service could be segregated from the OPEB liability and assets could be split for active and post employment purposes. As this could be administratively burdensome and, as death in active service liabilities can be considered de minimis, it is acceptable to consider the entire liability an OPEB liability under GASB 43 and 45. Against these liabilities, the Life Insurance Plan has present assets for valuation purposes of \$92,241,246. When this amount is deducted from the actuarial accrued liability of \$91,398,364 there remains (\$842,882) as the unfunded actuarial accrued liability for the life insurance plan.
5. The normal contribution is equal to the actuarial present value of benefits accruing during the current year. The normal contribution for the life insurance plan is determined to be \$1,065,834, or 0.03% of payroll.



Section V - DERIVATION OF EXPERIENCE GAINS AND LOSSES

1. Actual experience will never (except by coincidence) coincide exactly with assumed experience. It is assumed that gains and losses will be in balance over a period of years, but sizable year to year fluctuations are common. Detail on the derivation of the experience gain (loss) for the year ended June 30, 2012 is shown below (\$1,000's).

EXPERIENCE GAIN/(LOSS) OF THE:		MEDICAL INSURANCE FUND	LIFE INSURANCE FUND
(1)	UAAL* as of 6/30/2011	\$ 3,128,330	\$ (439)
(2)	Normal cost from last valuation	68,938	1,071
(3)	Expected employer contributions	<u>239,910</u>	<u>1,048</u>
(4)	Interest accrual: [(1) + (2) - (3)] x interest**	236,589	(31)
(5)	Expected UAAL before changes: (1) + (2) - (3) + (4)	3,193,947	(447)
(6)	Change due to plan amendments	0	0
(7)	Change due to new actuarial assumptions	(11,834)	0
(8)	Change due to claims experience	<u>(13,009)</u>	<u>0</u>
(9)	Expected UAAL after changes: (5) + (6) + (7) + (8)	3,169,104	(447)
(10)	Actual UAAL as of 6/30/2012	3,255,794	(843)
(11)	Total gain/(loss): (9) - (10)	(86,690)	396
	(a) Contribution shortfall and investment loss	<u>(52,060)</u>	<u>574</u>
	(b) Experience gain/(loss) (11) - (11a)	(34,630)	(178)
(12)	Accrued liabilities as of 6/30/2011	\$ 3,423,148	\$ 88,088
(13)	Experience gain/(loss) as percent of actuarial accrued liabilities at start of year (11b) / (12)	(1.0%)	(0.2%)

* *Unfunded Actuarial Accrued Liability*
 ** *Interest is 8.0% for the Medical Insurance Fund and 7.5% for the Life Insurance Fund*

Section VI - CONTRIBUTIONS PAYABLE UNDER THE PLANS

1. Sections 161.420 and 161.550 of the Kentucky Revised Statutes provide the amounts employers and the State are required to contribute to the Medical Insurance Fund. These contribution amounts vary by fiscal year, date of membership, and employee type.



Employer Percentage of Payroll Contributions Made to Medical Insurance Fund						
Fiscal Year Ending	UNIVERSITY EMPLOYEES		SCHOOL DISTRICT EMPLOYEES (Non-Federal)*		OTHER EMPLOYEES	
	Members hired before 7/1/2008	Members hired on or after 7/1/2008	Members hired before 7/1/2008	Members hired on or after 7/1/2008	Members hired before 7/1/2008	Members hired on or after 7/1/2008
2013	1.430%	0.750%	1.000%	1.000%	1.750%	0.750%
2014	1.750	0.750	1.500	1.500	2.250	1.250
2015	2.270	1.270	2.250	2.250	3.000	2.000
2016 and Later	2.775	1.775	3.000	3.000	3.750	2.750

* In addition to the amounts contributed by School Districts on behalf of Non-Federal employees, the State contributes 0.75%.

For the fiscal year ending June 30, 2015, member contributions will be 2.27% for University employees and 3.00% for all other members. CMC recommends employer and State contributions increase to the required amount of 4.83% of payroll for University employees and 4.10% of payroll for all other members. The State is scheduled to contribute 0.03% of salary to the Life Insurance Fund for the fiscal year ending June 30, 2014. CMC's valuation indicates a contribution of 0.03% for the fiscal year ending June 30, 2015 is required to sufficiently support the benefits of the Life Insurance Plan.

REQUIRED CONTRIBUTION RATES For Fiscal Year Ending June 30, 2015 Medical Insurance Fund						
Normal			1.99%			
Accrued liability			<u>5.11</u>			
Total			7.10%			
	UNIVERSITY EMPLOYEES		SCHOOL DISTRICT EMPLOYEES (Non-Federal)		OTHER EMPLOYEES	
	Members hired prior 7/1/2008	Members hired on or after 7/1/2008	Members hired prior 7/1/2008	Members hired on or after 7/1/2008	Members hired prior 7/1/2008	Members hired on or after 7/1/2008
Member	2.27%	2.27%	3.00%	3.00%	3.00%	3.00%
Employer (ARC)	2.27	1.27	2.25	2.25	3.00	2.00
State (ARC)	<u>2.56</u>	<u>3.56</u>	<u>1.85</u>	<u>1.85</u>	<u>1.10</u>	<u>2.10</u>
Total	7.10%	7.10%	7.10%	7.10%	7.10%	7.10%

Life Insurance Fund	
Normal	0.03%
Accrued liability	<u>0.00</u>
Total	0.03%
Member State (ARC)	0.00%
Total	<u>0.03</u>
	0.03%

- The valuation indicates that a total normal contribution of 1.99% of payroll is required to meet the cost of benefits currently accruing under the Retiree Medical Plan and 0.03% of payroll is required to meet the cost of benefits currently accruing under the Life Insurance Plan. The difference between the total contribution and the normal contribution remains to be applied toward the liquidation of the unfunded actuarial accrued liability. This accrued liability payment is 5.11% of payroll for the Retiree Medical Plan and 0.00% of payroll for the Life Insurance Plan.



- The unfunded actuarial accrued liability amounts to \$3,255,793,761 for the Retiree Medical Plan and (\$842,882) for the Life Insurance Plan as of the valuation date. An accrued liability contribution of 5.11% of payroll for the Retiree Medical Plan and 0.00% of payroll for the Life Insurance Plan is sufficient to amortize the unfunded actuarial accrued liabilities over a 30-year period, based on the assumption that the payroll will increase by 4.0% annually.

Section VII - COMMENTS ON LEVEL OF FUNDING

- The System's monthly contribution for retirees who opt into the Retiree Medical Plan is based upon date of hire, date of attaining age 65, and years of service at retirement. Additionally, beneficiary contributions may vary by date of hire, date of attaining age 65, years of service at retirement, plan election, Medicare eligibility, and tobacco use. Beneficiary contributions for dependents are targeted to be 100% of the cost of expected claims for spouses age 65 and older. Historically, this target has been achieved. 100% of the full cost for non-Medicare eligible dependents is paid through a combination of payments from beneficiaries and the State. Current employer and State contributions have been determined to be insufficient to fund the cost of the benefits to be provided. Benefits for university, school district (non-Federal), and other members are identical, although active employee contributions collected from university, school district (non-Federal), and other members differ. A listing of active member Retiree Medical Plan contributions by fiscal year, date of membership, and employer type is provided in Schedule D.
- The valuation indicates an increase in scheduled contributions is required to fund the Retiree Medical Plan in an actuarially sound manner and to ensure the future solvency of the Medical Insurance Fund. For University employees a member contribution of 2.27% of payroll together with employer and State contributions of 4.83% of payroll are required to meet the cost of benefits currently accruing and provide for the amortization of the unfunded actuarial accrued liability over a period of 30 years. For the remaining membership, a member contribution of 3.00% of payroll together with employer and State contributions of 4.10% of payroll is required to meet the cost of benefits currently accruing and provide for the amortization of the unfunded actuarial accrued liability over a period of 30 years.

Section VIII - ACCOUNTING INFORMATION

- Governmental Accounting Standards Board Statements 43 and 45 set forth certain items of required supplementary information to be disclosed in the financial statements of the medical and life insurance plans and the employer.

Number of Active and Retired Members in Medical Plan as of June 30, 2012	
GROUP	NUMBER
Retirees currently receiving health benefits	36,000
Spouses of retirees currently receiving health benefits	7,008
Terminated employees entitled to benefits but not yet receiving benefits	3,641
Active plan members	<u>75,951</u>
Total	<u>122,600</u>

Number of Active and Retired Members in Life Insurance Plan as of June 30, 2012	
GROUP	NUMBER
Retirees	42,602
Terminated employees	3,641
Active plan members	<u>75,951</u>
Total	<u>122,194</u>



Schedule of Funding Progress Medical Insurance Fund (Dollar amount in thousands)						
ACTUARIAL VALUATION DATE	ACTUARIAL VALUE OF ASSETS	ACTUARIAL ACCRUED LIABILITIES (AAL)	UNFUNDED AAL (UAAL)	FUNDED RATIO	COVERED PAYROLL	UAAL AS A % OF COVERED PAYROLL
	A	B	(B-A)	(A/B)	C	[(B-A)/C]
6/30/2007 ¹	\$ 140,772	\$ 5,928,761	\$ 5,787,989	2.4%	\$ 2,975,289	194.5%
6/30/2008	185,883	6,434,522	6,248,639	2.9	3,190,332	195.9
6/30/2009 ²	229,103	6,454,733	6,225,630	3.5	3,253,077	191.4
6/30/2010 ³	241,224	3,206,806	2,965,582	7.5	3,321,614	89.3
6/30/2011 ⁴	294,819	3,423,149	3,128,330	8.6	3,451,756	90.6
6/30/2012	338,746	3,594,540	3,255,794	9.4	3,479,567	93.6

¹ Reflects change in discount rate to 4.5% and updating medical trend.
² Reflects change in participation assumptions and plan design.
³ Reflects change in discount rate to 8.0%, change in plan design and updating medical trend.
⁴ Reflects change in decrement assumptions and updating medical trend.

Schedule of Funding Progress Life Insurance Fund (Dollar amount in thousands)						
ACTUARIAL VALUATION DATE	ACTUARIAL VALUE OF ASSETS	ACTUARIAL ACCRUED LIABILITIES (AAL)	UNFUNDED AAL (UAAL)	FUNDED RATIO	COVERED PAYROLL	UAAL AS A % OF COVERED PAYROLL
	A	B	(B-A)	(A/B)	C	[(B-A)/C]
6/30/2007	\$ 71,426	\$ 82,722	\$ 11,296	86.3%	\$ 2,975,289	0.38%
6/30/2008	77,658	84,265	6,607	92.2	3,190,332	0.21
6/30/2009	84,703	90,334	5,631	93.8	3,253,077	0.17
6/30/2010	87,905	92,091	4,186	95.5	3,321,614	0.13
6/30/2011	88,527	88,088	(439)	100.5	3,451,756	(0.01)
6/30/2012	92,241	91,398	(843)	100.9	3,479,567	(0.02)

2. The information presented in the required supplementary schedules was determined as part of the actuarial valuation at June 30, 2012. Additional information as of the latest actuarial valuation follows.

Valuation Date	06/30/2012	Actuarial Assumptions:
Actuarial cost method	Entry age	<u>Investment Rate of Return*</u> 8.00% for Medical & 7.50% for Life Insurance
Amortization method	Level percent of pay, open	<u>Medical Trend Assumption</u> <u>(Pre-Medicare)**</u> 9.5% - 5.0%
Remaining amortization period	30 years	<u>Medical Trend Assumption</u> <u>(Post-Medicare)</u> 7.5% - 5.0%
Asset valuation method	Market Value of Assets	<u>Year of Ultimate Trend Rate</u> 2019
	* Includes Inflation at 3.50%.	
	** Alternate trend rates were used for Medicare Part B premiums and are disclosed in Schedule C.	



Schedule of Employer Contributions Medical Insurance Fund					
FISCAL YEAR ENDING	ANNUAL REQUIRED CONTRIBUTION (ARC)	ACTUAL EMPLOYER CONTRIBUTION	RDS CONTRIBUTION	TOTAL CONTRIBUTION	PERCENTAGE OF ARC CONTRIBUTED
	(A)	(B)	(C)	(B) + (C)	[(B) + (C)]/(A)
6/30/2007	\$ 231,473,321	\$ 113,258,761	\$ 10,312,361	\$ 123,571,122	53.4%
6/30/2008	395,282,164	148,954,644	11,911,565	160,866,209	40.7
6/30/2009	467,312,904	164,480,119	13,611,748	178,091,867	38.1
6/30/2010	457,054,117	158,765,496	14,614,285	173,379,781	37.9
6/30/2011	477,723,070	188,453,929	280,585	188,734,514	39.5
6/30/2012	470,217,067	177,450,206	297,639	177,747,845	37.8

Schedule of Employer Contributions Life Insurance Fund				
FISCAL YEAR ENDING	ANNUAL REQUIRED CONTRIBUTION (ARC)	ACTUAL EMPLOYER CONTRIBUTION	PERCENTAGE OF ARC CONTRIBUTED	
	(A)	(B)	(B) / (A)	
6/30/2007	\$ 1,785,173	\$ 5,022,137	281.3%	
6/30/2008	1,914,199	5,411,249	282.7	
6/30/2009	1,498,076	5,455,473	364.2	
6/30/2010	1,992,969	1,966,826	98.7	
6/30/2011	1,725,878	1,668,822	96.7	
6/30/2012	1,732,831	1,684,711	97.2	

3. Following is the calculation of the Annual OPEB Cost (AOC) and the Net OPEB Obligation (NOO) for the fiscal year ending June 30, 2012. As the Retiree Medical and Life Insurance Plans are cost-sharing multiple-employer plans, GASB Statement 45 does not require the participating employers to disclose this information.

Annual OPEB Cost and Net OPEB Obligation for the Medical Insurance Fund for Fiscal Year Ending June 30, 2012	
(a) Employer Annual Required Contribution	\$ 470,217,067
(b) Interest on Net OPEB Obligation	49,992,241
(c) Adjustment to Annual Required Contribution	<u>39,664,089</u>
(d) Annual OPEB Cost: (a) + (b) - (c)	480,545,219
(e) Employer Contributions for Fiscal Year 2012	<u>177,747,845</u>
(f) Increase in Net OPEB Obligation: (d) - (e)	302,797,374
(g) Net OPEB Obligation at beginning of Fiscal Year	<u>1,110,938,699</u>
(h) Net OPEB Obligation at end of Fiscal Year: (f) + (g)	<u><u>\$ 1,413,736,073</u></u>



Trend Information for the Medical Insurance Fund

Fiscal Year Ending	Annual OPEB Cost (AOC)	Percentage of AOC Contributed	Net OPEB Obligation (NOO)
6/30/2008	\$ 395,282,164	40.7%	\$ 234,415,955
6/30/2009	469,492,218	37.9	525,816,306
6/30/2010	461,942,516	37.5	814,379,040
6/30/2011	485,294,173	38.9	1,110,938,699
6/30/2012	480,545,219	37.0	1,413,736,073

Annual OPEB Cost and Net OPEB Obligation for the Life Insurance Fund for Fiscal year Ending June 30, 2012

(a) Employer Annual Required Contribution	\$ 1,732,831
(b) Interest on Net OPEB Obligation	(585,529)
(c) Adjustment to Annual Required Contribution	<u>(403,763)</u>
(d) Annual OPEB Cost: (a) + (b) - (c)	1,551,065
(e) Employer contributions for Fiscal Year 2012	<u>1,684,711</u>
(f) Increase in Net OPEB Obligation: (d) - (e)	(133,646)
(g) Net OPEB Obligation at beginning of Fiscal Year	<u>(7,807,049)</u>
(h) Net OPEB Obligation at end of Fiscal Year: (f) + (g)	<u><u>\$ (7,940,695)</u></u>

Trend Information for the Life Insurance Fund

Fiscal Year Ending	Annual OPEB Cost (AOC)	Percentage of AOC Contributed	Net OPEB Obligation (NOO)
6/30/2008	\$ 1,914,199	282.7%	\$ (3,497,050)
6/30/2009	1,416,656	385.1	(7,535,867)
6/30/2010	1,817,516	108.2	(7,685,177)
6/30/2011	1,546,950	107.9	(7,807,049)
6/30/2012	1,551,065	108.6	(7,940,695)



SCHEDULE A		
RESULTS OF THE VALUATION AS OF JUNE 30, 2012		
(Dollar amounts in thousands)		
	Medical Insurance Fund	Life Insurance Fund
PAYROLL	\$ 3,479,567	\$ 3,479,567
ACTUARIAL ACCRUED LIABILITY		
Present value of prospective benefits payable in respect of:		
(a) Present active members	\$ 1,547,871	\$ 16,161
(b) Present terminated vested members	13,410	1,726
(c) Present retired members and covered spouses	<u>2,033,259</u>	<u>73,511</u>
(d) Total actuarial accrued liability	\$ 3,594,540	\$ 91,398
PRESENT ASSETS FOR VALUATION PURPOSES	338,746	92,241
UNFUNDED ACTUARIAL ACCRUED LIABILITY	<u>\$ 3,255,794</u>	<u>\$ (843)</u>
CONTRIBUTIONS FOR FISCAL YEAR ENDING JUNE 30, 2014:		
Normal	1.99%	0.03%
Accrued Liability	<u>5.11</u>	<u>0.00</u>
Total	7.10%	0.03%
Member	2.96%	0.00%
Employer (ARC)	2.24	0.00
State (ARC)	<u>1.90</u>	<u>0.03</u>
Total	7.10%	0.03%

MEDICAL INSURANCE FUND							
Solvency Test							
(Dollar amounts in millions)							
Valuation Date	(1)	(2)	(3)	Valuation Assets	Portion of Accrued Liabilities Covered by Assets		
	Active Member Contributions	Retirants And Beneficiaries	Active Members (Employer Financed Portion)		(1)	(2)	(3)
6/30/2007	n/a	\$ 2,816.3	\$ 3,112.5	\$ 140.8	n/a	5%	0%
6/30/2008	n/a	3,084.4	3,350.2	185.9	n/a	6	0
6/30/2009	n/a	3,203.7	3,251.0	229.1	n/a	7	0
6/30/2010	n/a	1,948.6	1,258.2	241.2	n/a	12	0
6/30/2011	n/a	1,910.1	1,513.1	294.8	n/a	15	0
6/30/2012	n/a	2,046.7	1,547.9	338.7	n/a	17	0



**LIFE INSURANCE FUND
Solvency Test
(Dollar amounts in millions)**

Valuation Date	(1)	(2)	(3)	Valuation Assets	Portion of Accrued Liabilities Covered by Assets		
	Active Member Contributions	Retirants And Beneficiaries	Active Members (Employer Financed Portion)		(1)	(2)	(3)
6/30/2007	n/a	\$ 64.8	\$ 18.0	\$ 71.4	n/a	100%	37%
6/30/2008	n/a	66.9	17.4	77.7	n/a	100	62
6/30/2009	n/a	72.0	18.4	84.7	n/a	100	69
6/30/2010	n/a	74.4	17.7	87.9	n/a	100	76
6/30/2011	n/a	72.2	15.9	88.5	n/a	100	103
6/30/2012	n/a	75.2	16.2	92.2	n/a	100	105

**SCHEDULE B
MEDICAL INSURANCE FUND
Summary of Receipts & Disbursements
(Market Value)**

	<i>For the Year Ending</i>	
	<u>June 30, 2012</u>	<u>June 30, 2011</u>
RECEIPTS FOR THE YEAR		
Contributions		
Members Statutory	\$ 44,243,026	\$ 35,472,931
Payment by Retired Members	<u>56,103,044</u>	<u>48,674,406</u>
Total Members	100,346,070	84,147,337
Employer/State Statutory Contributions	39,166,623	32,455,802
State Statutory - Transition Fund/KEHP	122,500,000	145,900,000
General Fund Surplus	0	0
Allotment from Pension Fund	<u>12,300,000</u>	<u>9,885,400</u>
TOTAL EMPLOYER	173,966,623	188,241,202
GRAND TOTAL	274,312,693	273,388,539
Recovery Income	3,483,583	212,727
Medicare D Receipts	297,639	280,585
Net Investment Income	<u>(3,989,202)</u>	<u>8,334,296</u>
TOTAL	274,104,713	281,216,147
DISBURSEMENTS FOR THE YEAR		
Refunds to Members	0	0
Administrative Expense	1,201,629	1,186,029
Medical Insurance Expense	<u>228,975,126</u>	<u>226,435,363</u>
TOTAL	230,176,755	227,621,392
Excess of Receipts over Disbursements	43,927,958	53,594,755
RECONCILIATION OF ASSET BALANCES		
Asset Balance as of the Beginning of the Year	294,818,595	241,223,840
Excess of Receipts over Disbursements	<u>43,927,958</u>	<u>53,594,755</u>
Asset Balance as of the End of the Year	<u>\$ 338,746,553</u>	<u>\$ 294,818,595</u>



SCHEDULE B (continued)
LIFE INSURANCE FUND
Summary of Receipts & Disbursements
(Market Value)

	For the Year Ending	
	<u>June 30, 2012</u>	<u>June 30, 2011</u>
RECEIPTS FOR THE YEAR		
Contributions		
Members	\$ 0	\$ 0
State	<u>1,684,711</u>	<u>1,668,822</u>
TOTAL	1,684,711	1,668,822
Net Investment Income	<u>6,450,022</u>	<u>3,094,776</u>
TOTAL	8,134,733	4,763,598
DISBURSEMENTS FOR THE YEAR		
Benefit Payments	4,397,281	4,120,000
Refunds to Members	0	0
Medical Insurance Payments	0	0
Miscellaneous, including expenses	<u>22,886</u>	<u>21,511</u>
TOTAL	4,420,167	4,141,511
EXCESS OF RECEIPTS OVER DISBURSEMENTS	3,714,566	622,087
RECONCILIATION OF ASSET BALANCES		
Asset Balance as of the Beginning of the Year	88,526,680	87,904,593
Excess of Receipts over Disbursements	<u>3,714,566</u>	<u>622,087</u>
Asset Balance as of the End of the Year	<u>\$ 92,241,246</u>	<u>\$ 88,526,680</u>

SCHEDULE C
Statement of Actuarial Assumptions and Methods

The rates of retirement, disability, mortality, termination, and salary increases used in the valuation were selected based on the actuarial experience study prepared as of June 30, 2010, submitted to and adopted by the Board on September 19, 2011. The rates of future participation, health care cost trend rates, and expected plan costs were determined by the actuary based on plan experience.

Valuation Date: June 30, 2012

Discount Rate: 8.0% per annum, compounded annually for medical plans.
7.5% per annum, compounded annually for life insurance plan.



Health Care Cost Trend Rates: Following is a chart detailing trend assumptions.

FISCAL YEAR ENDED	MEDICARE PART B TREND	UNDER AGE 65 TREND	AGE 65 & OVER TREND
2013	5.0%	9.5%	7.5%
2014	6.9	8.5	7.0
2015	4.4	7.5	6.5
2016	4.3	6.5	6.0
2017	5.1	6.0	5.5
2018	5.7	5.5	5.0
2019	6.0	5.0	5.0
2020	5.8	5.0	5.0
2021	5.5	5.0	5.0
2022 and beyond	5.0	5.0	5.0

Age Related Morbidity: For retirees age 65 and older, per capita costs are adjusted to reflect expected medical cost changes related to age. The increase to the net incurred claims was assumed to be:

Participant Age	Annual Increase
65 - 69	3.0 %
70 - 74	2.5
75 - 79	2.0
80 - 84	1.0
85 - 89	0.5
90 and over	0.0

For the retiree health care liabilities of those under age 65, the current premium charged by the Kentucky Employees' Health Plan (KEHP) is used as the base cost and is projected forward using the healthcare trend assumption. No implicit rate subsidy is calculated or recognized as the implicit rate subsidy is deemed the responsibility of the KEHP.

Retiree Medical Plan Costs: Assumed per capita health care costs were based on past experience and trended based on the assumptions. Following are charts detailing retiree per capita assumptions. These amounts include medical, drug, and administrative costs and represent the amount that KTRS pays as the full contribution amount. For retirees ages 65 and older, the average costs shown are normalized to age 65 and then age adjusted in calculating liabilities.

Fiscal Year	Commonwealth Standard PPO	Commonwealth Common choice	Commonwealth Optimum PPO
Single	\$ 506.06	\$ 650.22	\$ 675.34
Parent Plus	791.54	961.42	961.84
Couple	1,177.80	1,457.90	1,476.00
Family	1,314.12	1,613.74	1,642.78



Average Monthly KTRS Full Costs & Contributions

Calendar Year	Under Age 65 (KEHP) Contributions	Age 65 & Over (MEHP) Full Costs	Age 65 & Over (MEHP) Contributions
2004	\$ 293	\$ 274	\$ 274
2005	412	288	288
2006	461	315	315
2007	458	283	283
2008	484	278	278
2009	545	301 ¹	285
2010	594	373 ¹	342
2011	626	289	289
2012	622	270 ²	270
2013	635	294 ²	290

- ¹ Under GASB 43 and 45, cost reductions for the amount of the Medicare Part D Retiree Drug Subsidy cannot be taken into account in the gross cost calculations.
- ² 2,000 current benefit recipients are not eligible for premium-free Medicare Part A benefits. For these individuals, the full cost of coverage is, on average, \$650 per month. It is assumed 17% of current benefit recipients under the age of 65 who were hired prior to 4/1/1986 and left covered employment prior to 4/1/1996 will not be eligible for premium-free Medicare Part A benefits. All active members are assumed to have begun contributing to Medicare as of 4/1/1986 and are assumed eligible for premium-free Medicare Part A benefits.

Anticipated Future Medical Plan Elections:

The assumed annual rates of member plan elections were based upon current retiree under age 65 plan elections, and are as follows:

Commonwealth Standard PPO	Commonwealth Capitol Choice	Commonwealth Optimum PPO
4%	18%	78%

Anticipated Member Medical Plan Participation: Representative values of the assumed annual rates of medical plan participation are as follows:

Member Participation*

Years of Service	Hired before 7/1/2002 (age 65 on 12/31/2004 or earlier)	Hired Before 7/1/2002 (age 65 on 1/1/2005 or later)	Hired after 6/30/2002 and hired before 7/1/2008	Hired 7/1/2008 and later
5-9.99	63.0%	23.0%	9.0%	Not Eligible
10-14.99	72.0	45.0	23.0	Not Eligible
15-19.99	81.0	68.0	41.0	41.0%
20-24.99	93.0	93.0	59.0	59.0
25-25.99	93.0	93.0	81.0	81.0
26-26.99	93.0	93.0	86.0	86.0
27 or more	93.0	93.0	93.0	93.0

** Members retiring from deferred vested status are assumed to participate at 50% of the corresponding rate listed.*



Spouse Coverage in Medical Plans: Used actual census data and current plan elections for spouses of current retirees. For spouses of future retirees, assumed 20% of future retirees will cover spouses, with females 3 years younger than males.

Disabled Dependent Children: The liability associated with disabled dependent children was determined to be de minimis and was therefore excluded from this valuation.

Reciprocity Service: In 2013, the Kentucky Retirement Systems' (KRS) Medicare eligible premium is expected to be less than the MEHP premium. KRS will only allow a bill for a portion of the lower KRS premium, creating a discrepancy in premiums for 2013. As such, reciprocity retirees with less than 20 years of KTRS service (or less than 27 KTRS years for retirees who entered KTRS after 2002) will be responsible for the balance of the premium in addition to any other portion of the premium for which he/she is responsible. As the discrepancy is assumed to occur over a short period and impact a small number of participants, the impact to the Retiree Medical Plan's liability is assumed to be de minimis.

Withdrawal Assumption: It is assumed 30% of the vested members who terminate elect to withdraw their contributions while the remaining 70% elect to leave their contributions in the plan in order to be eligible for a benefit at their retirement date.

Payroll Growth: 4.00% per annum, compounded annually.

Price Inflation: 3.5% per annum, compounded annually.

Asset Valuation Method: Market Value as provided by KTRS. Return on assets assumed to be 8.00% for the Medical Insurance Fund and 7.50% for the Life Insurance Fund.

Separations From Service: Representative values of the assumed annual rates of death, disability, withdrawal, service retirement and early retirement are as follows:

MALES: Annual Rate of . . .								
AGE	SALARY*	DEATH	DISABILITY	WITHDRAWAL			RETIREMENT	
				SERVICE			Before 27 Years of Service	After 27 Years of Service**
				0 - 4	5 - 9	10+		
20	8.10%	0.012%	0.01%	9.00%				
25	7.20	0.015	0.01	9.00	3.00%			
30	6.20	0.020	0.02	9.00	3.00	3.00%		
35	5.50	0.035	0.05	10.00	3.25	1.75		
40	5.00	0.046	0.09	10.00	4.00	1.40		
45	4.60	0.058	0.18	11.00	4.00	1.50		17.0%
50	4.50	0.074	0.33	9.00	4.00	2.00		17.0
55	4.30	0.124	0.55	12.00	3.50	2.50	5.5%	35.0
60	4.20	0.244	0.70	12.00	3.50	2.50	13.0	24.0
62	4.10	0.324	0.70	12.00	3.50	2.50	15.0	25.0
65	4.00	0.480	0.70	12.00	3.50	2.50	21.0	26.0
70	4.00	0.821	0.70	0.00	0.00	0.00	100.0	100.0

* Includes inflation at 3.5% per annum
 ** Plus 10% in year when first eligible for unreduced retirement with 27 years of service.



FEMALES: Annual Rate of . . .								
AGE	SALARY*	DEATH	DISABILITY	WITHDRAWAL			RETIREMENT	
				SERVICE			Before 27 Years of Service	After 27 Years of Service**
			0 - 4	5 - 9	10+			
20	8.10%	0.007%	0.01%	7.00%				
25	7.20	0.008	0.02	8.50	4.00%			
30	6.20	0.010	0.04	9.00	4.00	1.65%		
35	5.50	0.017	0.08	9.00	3.75	1.85		
40	5.00	0.024	0.14	8.50	3.25	1.50		
45	4.60	0.037	0.32	7.50	3.25	1.25	15.0%	
50	4.50	0.055	0.42	9.50	3.50	1.75	15.0	
55	4.30	0.103	0.56	11.00	4.00	2.00	6.0%	
60	4.20	0.201	0.85	11.00	4.00	2.00	14.0	
62	4.10	0.263	0.85	11.00	4.00	2.00	12.5	
65	4.00	0.390	0.85	11.00	4.00	2.00	22.0	
70	4.00	0.672	0.85	0.00	0.00	0.00	100.0	

* Includes inflation at 3.5% per annum
 ** Plus 10% in year when first eligible for unreduced retirement with 27 years of service.

Deaths After Retirement: The RP-2000 Combined Mortality Table projected to 2020 using scale AA (set back one year for females) is used for death after service retirement and beneficiaries. The RP-2000 Disabled Mortality Table (set back seven years for males and set forward five years for females) is used for death after disability retirement. Mortality improvement is anticipated under these assumptions as recent mortality experience shows actual deaths are approximately 4% greater for healthy lives and 5% greater for disabled lives than expected under the selected tables. Representative values of the assumed annual rates of death after service retirement and after disability retirement are shown below:

Annual Rate of Death After . . .				
Age	Service Retirement		Disability Retirement	
	MALE	FEMALE	MALE	FEMALE
45	0.1161%	0.0745%	2.2571%	1.1535%
50	0.1487	0.1100	2.2571	1.6544
55	0.2469	0.2064	2.6404	2.1839
60	0.4887	0.4017	3.2859	2.8026
65	0.9607	0.7797	3.9334	3.7635
70	1.6413	1.3443	4.6584	5.2230
75	2.8538	2.1680	5.6909	7.2312
80	5.2647	3.6066	7.3292	10.0203
85	9.6240	6.1634	9.7640	14.0049
90	16.9280	11.2205	12.8343	19.4509
95	25.6992	17.5624	16.2186	23.7467



Actuarial Cost Method: The valuation is prepared on the projected benefit basis, under which the present value, at the interest rate assumed to be earned in the future, of each active member's expected benefit at retirement or death is determined, based on his/her age, service, and gender. The calculations take into account the probability of a member's death or termination of employment prior to becoming eligible for a benefit, as well as the possibility of his/her terminating with a service, disability or survivor's benefit. The present value of the expected benefits payable on account of the active members is added to the present value of the expected future payments to retired members and beneficiaries and deferred vested members to obtain the present value of all expected benefits payable from the System on account of the present group of members and beneficiaries.

The employer contributions required to support the benefits of the System are determined following a level funding approach, and consist of a normal contribution and an accrued liability contribution.

The normal contribution is determined using the "entry age normal" method. Under this method, a calculation is made to determine the uniform and constant percentage rate of employer contribution which, if applied to the compensation of the average new member during the entire period of his/her anticipated covered service, would be required in addition to the contributions of the member to meet the cost of all benefits payable on his/her behalf.

The unfunded accrued liability is determined by subtracting the present value of prospective employer normal contributions and member contributions, together with the current actuarial value of assets held, from the present value of expected benefits to be paid from the System.

SCHEDULE D

Summary of Main Plan Provisions as Interpreted for Valuation Purposes

ELIGIBILITY FOR ACCESS TO RETIREE MEDICAL COVERAGE:

Service Retirement: For employees hired prior to July 1, 2008, retiree medical coverage eligibility is attained when an employee retires, which is possible after the completion of 27 years of service or attainment of age 55 and 5 years of service. For employees hired on or after July 1, 2008, employees may retire after the completion of 27 years of service, the attainment of age 55 and 10 years of service, or the attainment of age 60 and 5 years of service, but must complete a minimum of 15 years of service to be eligible for Retiree Medical Plan coverage.

Disability Retirement: Disabled employees with at least 5 years of service, who are totally and permanently incapable of being employed as a teacher, are eligible for Retiree Medical Plan coverage.

Survivors: Spouses of employees who die in service while eligible to retire, as well as survivors of service and disabled retirees, are eligible for Retiree Medical Plan coverage.

Termination: For employees hired prior to July 1, 2008 and who terminated with at least 5 years of service, Retiree Medical Plan coverage eligibility is attained at age 60. For employees hired on or after July 1, 2008 and who terminated with at least 15 years of service, Retiree Medical Plan coverage eligibility is attained at age 60.



COVERED MEMBER MEDICAL PLAN CONTRIBUTIONS:

Under Age 65 Retiree Shared Responsibility Contribution: Effective July 1, 2010, retirees under the age of 65 began a three-year phase-in of the Shared Responsibility Contribution. This contribution reduces the applicable amount of the full contribution provided by the System to retirees, by adjusting the Shared Responsibility Contribution amount by 100% less the appropriate percentage from the Retiree Percentage Contribution table on the following page. Effective July 1, 2012, the full Shared Responsibility Contribution equals the Standard Medicare Part B premium paid by retirees ages 65 and older.

Effective Date	Medicare Part B Monthly Cost	Formula	Shared Responsibility Contribution
July 1, 2010	\$ 110.50	$(1/3 \times \$110.50)$	\$ 37.00
January 1, 2011	115.40	$(1/3 \times 115.40)$	39.00
July 1, 2011	115.40	$(2/3 \times 115.40)$	77.00
January 1, 2012	99.90	$(2/3 \times 99.90)$	66.00
July 1, 2012	99.90	99.90	99.90
January 1, 2013	104.90	104.90	104.90

Retiree Years of Service Percentage Contribution: Retirees contribute the following percentages based on years of service at retirement, which are then applied to the Retiree Contribution Rate Basis:

Years of Service	Hired before 7/1/2002 (age 65 on 12/31/2004 or earlier)	Hired before 7/1/2002 (age 65 on 1/1/2005 or earlier)	Hired after 6/30/2002 and before 7/1/2008	Hired after 7/1/2008 or later
5 - 9.99	30%	75%	90%	Not Eligible
10 - 14.99	20	50	75	Not Eligible
15 - 19.99	10	25	55	55%
20 - 24.99	0	0	35	35
25 - 25.99	0	0	10	10
26 - 26.99	0	0	5	5
27 or more	0	0	0	0

Tier Elected	Commonwealth Standard PPO	Commonwealth Capitol Choice	Commonwealth Optimum PPO	Age 65 & Older (MEHP)
Single	\$506.06	\$612.94	\$612.58	\$290.00
Parent Plus	612.94	612.94	612.94	290.00
Couple	612.94	612.94	612.94	290.00
Family	612.94	612.94	612.94	290.00



Under Age 65 Retiree Plan Cost Contribution: A contribution according to the table below is required to be paid by retirees under the age of 65 based upon the plan elected:

Under Age 65 Plan Cost Contribution* Effective January 1, 2013			
Tier Elected	Commonwealth Standard PPO	Commonwealth Capitol Choice	Commonwealth Optimum PPO
Single	\$ 0.00	\$ 37.28	\$ 62.76
Parent Plus **	178.60	348.48	348.90
Couple **	564.86	844.96	863.06
Family **	701.18	1,000.80	1,029.84
<p>* Does not include the additional contribution required to be paid by retirees under the age of 65 who smoke, which also varies on the plan elected.</p> <p>** Contribution for Parent Plus, Couple, and Family tiers is offset by the State Under Age 65 Spouse/Dependent Subsidy</p>			

The Under Age 65 Plan Cost Contribution is reduced by subtracting the State Under Age 65 Spouse/Dependent Subsidy multiplied by 100% less the appropriate percentage in the Retiree Percentage Contribution table on the previous page, from the Under Age 65 Plan Cost Contribution.

State Under Age 65 Spouse/Dependent Subsidy Effective January 1, 2013			
Tier Elected	Commonwealth Standard PPO	Commonwealth Capitol Choice	Commonwealth Optimum PPO
Parent Plus	\$ 158.60	\$ 169.48	\$ 128.90
Couple	266.86	326.96	317.06
Family	391.18	390.80	379.84

Spouse Contributions: 100% of the full cost for non-Medicare eligible dependents is paid through a combination of payments from beneficiaries and the State. Spouses of post-65 retirees, as well as surviving spouses of deceased retirees, pay 100% of the full contribution. Spouses of active members who died while eligible to retire prior to July 1, 2002, are provided the same subsidy by KTRS that would have been provided to the retiree for the lifetime of the spouse, or until remarriage. Spouses of active members who die while eligible to retire July 1, 2002, and later, pay 100% of the full contribution.

Surviving Spouse Contribution Effective January 1, 2013 Under Age 65 (KEHP)				
Tier Elected	Commonwealth Standard PPO	Commonwealth Capitol Choice	Commonwealth Optimum PPO	Ages 65 & Older (MEHP)
Single Spouse	\$ 511.76	\$ 655.92	\$ 681.04	\$ 290.00



System Retiree Medical Plan Contributions: The System Contribution Rate Basis is determined annually by KTRS; and the full cost is projected based on historical claims data. For retirees, the following percentages are based on years of service at retirement and are then applied to the System Contribution Rate Basis:

Percentage of System Contribution Rate Provided to Retirees				
Years of Service	Hired before 7/1/2002 (age 65 on 12/31/2004 or earlier)	Hired before 7/1/2002 (age 65 on 1/1/2005 or earlier)	Hired after 6/30/2002 and before 7/1/2008	Hired after 7/1/2008 or later
5 - 9.99	70%	25%	10%	Not Eligible
10 - 14.99	80	50	25	Not Eligible
15 - 19.99	90	75	45	45%
20 - 24.99	100	100	65	65
25 - 25.99	100	100	90	90
26 - 26.99	100	100	95	95
27 or more	100	100	100	100

System Contribution Rate Basis Effective January 1, 2013 Under Age 65 (KEHP)				
Tier Elected	Commonwealth Standard PPO	Commonwealth Capitol Choice	Commonwealth Optimum PPO	Age 65 & Older (MEHP)
Single	\$ 506.06	\$ 612.94	\$ 612.58	\$ 290.00
Parent Plus	612.94	612.94	612.94	290.00
Couple	612.94	612.94	612.94	290.00
Family	612.94	612.94	612.94	290.00

Active Member Retiree Medical Plan Contributions: Actively employed members make payroll contributions to the Medical Insurance Fund based upon the following schedule:

Active Member Percentage of Payroll Contribution Made to Medical Insurance Fund						
Fiscal Year Ending	UNIVERSITY EMPLOYEES		SCHOOL DISTRICT EMPLOYEES (Non-Federal)		OTHER EMPLOYEES	
	Hired before 7/1/2008	Hired on or After 7/1/2008	Hired before 7/1/2008	Hired on or After 7/1/2008	Hired before 7/1/2008	Hired on or After 7/1/2008
2013	1.430%	1.750%	1.750%	1.750%	1.750%	1.750%
2014	1.750	1.750	2.250	2.250	2.250	2.250
2015	2.270	2.270	3.000	3.000	3.000	3.000
2016 & Later	2.775	2.775	3.750	3.750	3.750	3.750

**Life Insurance Plan Benefits:**

(1) Effective July 1, 2000, the Teachers' Retirement System shall:

- (a) Provide a life insurance benefit in a minimum amount of five thousand dollars (\$5,000) for its members who are retired for service or disability. This life insurance benefit shall be payable upon the death of a member retired for service or disability to the member's estate or to a party designated by the member on a form prescribed by the retirement system; and
- (b) Provide a life insurance benefit in a minimum amount of two thousand dollars (\$2,000) for its active contributing members. This life insurance benefit shall be payable upon the death of an active contributing member to the member's estate or to a party designated by the member on a form prescribed by the retirement system.

Note: Members employed on a substitute or part-time basis and working at least 69% of a full contract year in a single fiscal year will be eligible for a life insurance benefit for the balance of the fiscal year or the immediately succeeding fiscal year under certain conditions. For non-vested members employed on a substitute or part-time basis, the life insurance benefit is provided if death occurs as the result of a physical injury on the job. For vested members employed on a substitute or part-time basis, death does not have to be the result of a physical injury on the job for life insurance benefits to be provided.



KENTUCKY TEACHERS' RETIREMENT SYSTEM

SCHEDULE E
Table 1 - Service Table
Distribution of Active Members as of June 30, 2012
by Age and Service Groups

Attained Age	0 to 4	5 to 9	10 to 14	15 to 19	20 to 24	25 to 29	30 to 34	>= 35	TOTAL
24 & under	2,365	1							2,366
Total Pay	40,846,000	45,000							40,891,000
Avg. Pay	17,271	45,000							17,283
25 to 29	7,069	1,365							8,434
Total Pay	222,006,000	64,597,000							286,603,000
Avg. Pay	31,406	47,324							33,982
30 to 34	3,713	5,255	908						9,876
Total Pay	109,834,000	260,683,000	50,523,000						421,040,000
Avg. Pay	29,581	49,607	55,642						42,633
35 to 39	2,605	2,485	4,229	628					9,947
Total Pay	70,984,000	124,123,000	248,149,000	40,344,000					483,600,000
Avg. Pay	27,249	49,949	58,678	64,242					48,618
40 to 44	3,521	1,920	2,490	3,371	673	1			11,976
Total Pay	77,925,000	98,559,000	146,062,000	217,339,000	45,705,000	205,000			585,795,000
Avg. Pay	22,131	51,333	58,659	64,473	67,912	205,000			48,914
45 to 49	1,722	1,231	1,454	1,576	2,373	651			9,007
Total Pay	40,472,000	63,140,000	85,800,000	102,363,000	160,069,000	44,672,000			496,516,000
Avg. Pay	23,503	51,292	59,010	64,951	67,454	68,621			55,126
50 to 54	1,483	956	1,148	1,173	1,332	1,704	336		8,132
Total Pay	30,482,000	48,757,000	67,472,000	76,713,000	91,714,000	122,232,000	24,752,000		462,122,000
Avg. Pay	20,554	51,001	58,774	65,399	68,854	71,732	73,667		56,828
55 to 59	2,153	667	955	1,048	1,068	792	444	74	7,201
Total Pay	33,635,000	33,944,000	57,464,000	69,754,000	74,916,000	59,806,000	35,896,000	6,522,000	371,937,000
Avg. Pay	15,622	50,891	60,172	66,559	70,146	75,513	80,847	88,135	51,651
60 to 64	2,643	533	520	596	625	418	114	113	5,562
Total Pay	36,178,000	25,746,000	32,732,000	41,293,000	45,923,000	33,164,000	10,223,000	11,375,000	236,634,000
Avg. Pay	13,688	48,304	62,946	69,284	73,477	79,340	89,675	100,664	42,545
65 & over	2,276	359	181	176	177	155	43	83	3,450
Total Pay	20,242,000	12,464,000	11,931,000	12,303,000	13,673,000	12,141,000	3,921,000	7,754,000	94,429,000
Avg. Pay	8,894	34,719	65,917	69,903	77,249	78,329	91,186	93,422	27,371
Total	29,550	14,772	11,885	8,568	6,248	3,721	937	270	75,951
Total Pay	682,604,000	732,058,000	700,133,000	560,109,000	432,000,000	272,220,000	74,792,000	25,651,000	3,479,567,000
Avg. Pay	23,100	49,557	58,909	65,372	69,142	73,158	79,821	95,004	45,813

Average Age: 43.6

Average Service: 11.0



SCHEDULE E
Table 2 - Total Active Member Valuation Data

Valuation Date	Number	Annual Payroll	Annual Average Pay	Percentage Increase in Average Pay
6/30/2012	75,951	\$ 3,479,567,004	\$ 45,813	1.33%
6/30/2011	76,349	3,451,756,288	45,210	3.97
6/30/2010	76,387	3,321,614,223	43,484	1.51
6/30/2009	75,937	3,253,076,600	42,839	1.43
6/30/2008	75,539	3,190,332,239	42,234	6.67
6/30/2007	75,144	2,975,289,033	39,594	2.10

SCHEDULE E
Table 3 - Eligible Deferred Vested Members as of June 30, 2012
Male & Female Demographic Breakdown

Attained Age	Number of Males	Number of Females	Total Number
Under 30	4	17	21
30-34	53	258	311
35-39	115	433	548
40-44	154	519	673
45-49	147	493	640
50-54	150	473	623
55-59	149	370	519
60 & Over	82	224	306
Total	854	2,787	3,641

SCHEDULE E
Table 4 - All Retirees & Spouses Receiving Health Care Benefits as of June 30, 2012
Male & Female Demographic Breakdown

Attained Age	Number of Males	Number of Females	Total Number
Under 40	7	30	37
40-44	24	59	83
45-49	61	216	277
50-54	357	1,028	1,385
55-59	1,666	3,966	5,632
60-64	3,571	7,240	10,811
65-69	3,245	5,624	8,869
70-74	2,295	3,701	5,996
75-79	1,714	2,376	4,090
80-84	1,053	1,884	2,937
85-89	616	1,162	1,778
90-94	226	558	784
95-99	49	220	269
100	3	23	26
101	2	14	16
102	1	9	10
103	0	2	2
104	0	0	0
105 & Over	0	6	6
Total	14,890	28,118	43,008



SCHEDULE E

Table 5 – Retirees, Beneficiaries and Survivors added to and Removed From Rolls *

Fiscal Year Ending June 30	Medical Insurance Fund						Number of Members on Rolls at the End of the Year	Number of Spouses** on Rolls at the End of the Year	Total Number on Rolls at the End of the Year
	Number of Members Added to Rolls	Number of Spouses** Added to Rolls	Total Number Added to Rolls	Number of Members Removed from Rolls	Number of Spouses** Removed from Rolls	Total Number Removed from Rolls			
2007	1,674	580	2,254	1,009	512	1,521	31,642	6,674	38,316
2008	1,850	593	2,443	901	589	1,490	32,591	6,678	39,269
2009	1,777	640	2,417	887	510	1,397	33,481	6,808	40,289
2010	1,710	555	2,265	876	529	1,405	34,315	6,834	41,149
2011	1,770	629	2,399	1,052	541	1,593	35,033	6,922	41,955
2012	1,996	702	2,698	1,029	616	1,645	36,000	7,008	43,008

* Reflects members, spouses, and beneficiaries participating in a health care plan. ** Includes spouses, beneficiaries, and surviving spouses.

SCHEDULE E

Table 6 – Retirees, Beneficiaries and Survivors added to and Removed From Rolls *

Life Insurance Fund

Fiscal Year Ending June 30	Number Added to Rolls	Life Insurance Benefit (\$1,000's)	Number Removed from Rolls	Life Insurance Benefit (\$1,000's)	Number on Rolls at the End of the Year	Life Insurance Benefit (\$1,000's)	Increase in Life Insurance Benefit	Average Life Insurance Benefit
2007	n/a	n/a	n/a	n/a	36,616	\$ 183,080	n/a	\$ 5,000
2008	1,966	\$ 9,830	804	\$ 4,020	37,778	188,890	3.17%	5,000
2009	1,949	9,745	769	3,845	38,958	194,790	3.12	5,000
2010	1,799	8,995	806	4,030	39,951	199,755	2.55	5,000
2011	2,025	10,125	858	4,290	41,118	205,590	2.92	5,000
2012	2,364	11,820	880	4,400	42,602	213,010	3.61	5,000

* The life insurance benefit is payable upon the death of only members retired for service or disability. Numbers do not include life insurance benefits payable upon the death of an active contributing member.