

---

***NEBRASKA PUBLIC EMPLOYEES  
RETIREMENT SYSTEMS  
2004***

***State Employees' Retirement System  
Cash Balance Benefit Fund***

Actuarial Valuation Results  
as of January 1, 2004  
for State Fiscal Year Ending June 30, 2006

---

**REVISED**

November 2004



**Mellon**

**NEBRASKA PUBLIC EMPLOYEES RETIREMENT SYSTEMS**  
**STATE EMPLOYEES' RETIREMENT SYSTEM**  
**CASH BALANCE BENEFIT FUND**

---

**TABLE OF CONTENTS**

**LETTER OF CERTIFICATION**

**SUMMARY OF ACTUARIAL REPORT**

**EXECUTIVE SUMMARY**

<b><u>Exhibit Number</u></b>	<b><u>Title</u></b>	<b><u>Page</u></b>
1	System Assets _____	1
2	Actuarial Contribution Requirement _____	4
3	Actuarial (Gain)/Loss _____	7
4	Actuarial Balance Sheet _____	8
5	Accounting Information _____	9
6	Summary of Member Data _____	12
7	Forecast of Expected Disbursements _____	15
8	Summary of Plan Provisions _____	16
9	Summary of Actuarial Methods and Procedures as of January 1, 2004 _____	19
10	Summary of Actuarial Assumptions as of January 1, 2004 _____	21

November 15, 2004

Public Employees Retirement Board  
Nebraska Public Employees Retirement Systems  
Post Office Box 94816  
Lincoln, NE 68509

**Certification of Actuarial Valuation - Revised  
State Employees' Retirement System  
Cash Balance Benefit Fund**

Ladies and Gentlemen:

This report summarizes the results of the revised actuarial valuation of the State Employees' Retirement System Cash Balance Benefit Fund as of January 1, 2004, performed by Mellon Consultants, Inc.

The actuarial valuation is based on audited financial and unaudited member data provided to us by the Ameritas Life Insurance Corporation, recordkeeper for the plan, as summarized in this report. The benefits considered are those delineated in Nebraska State Statutes, effective as amended January 1, 2004. The 2004 actuarial valuation has been revised using audited financial information.

All costs, liabilities and other factors under the fund were determined in accordance with generally accepted actuarial principles and procedures, using actuarial cost methods which we believe are reasonable, and that follow the Nebraska State Statutes. This report fully and fairly discloses the actuarial position of the fund.

In our opinion, the actuarial assumptions used are reasonable, taking into account expected experience of the fund, and represent our best estimate of anticipated future experience. A summary of the actuarial assumptions used in this actuarial valuation are shown in Exhibit 10.

The contributions paid by the participating cash balance benefit members and the 156% matching State contributions defined by statute are more than sufficient to meet the actuarially required contribution which is equal to the sum of the annual normal cost and the annual payment necessary to amortize the unfunded liabilities over 25 years. The State is required to make any additional contribution necessary to meet the statutory funding requirement. For the 2005-2006 fiscal year, this additional amount is \$0.

We are available to answer any questions on the material contained in this report, or to provide explanations to further details as may be appropriate.

Respectively submitted,

MELLON CONSULTANTS, INC.

David H. Slisinsky, A.S.A., E.A., M.A.A.A.  
Principal and Consulting Actuary

**NEBRASKA PUBLIC EMPLOYEES RETIREMENT SYSTEMS**  
**STATE EMPLOYEES' RETIREMENT SYSTEM**  
**CASH BALANCE BENEFIT FUND**

---

**SUMMARY OF ACTUARIAL REPORT FOR CONTRIBUTION REQUIREMENTS AND  
FUNDED STATUS FOR THE 2004 PLAN YEAR**

The main purposes of this report are:

1. To determine the level of additional State contributions for the fiscal year ending June 30, 2006 sufficient to meet the funding policy defined under Nebraska State statutes;
2. To review the current funded status of the Cash Balance benefit; and
3. To quantify the contribution rate available for benefit improvements, if any.

The 2004 actuarial valuation is based upon the plan provisions as of January 1, 2004, as described in Exhibit 8. The actuarial methods and assumptions are described in Exhibit 9 and 10.

Highlights from the current valuation:

1. Under Legislative Bill 687, the Cash Balance benefit is established effective January 1, 2003. Active Members participating in the State Employees' Retirement System prior to January 1, 2003 were given a choice to remain covered by the Defined Contribution benefit or to transfer their account balances and become a participating member of the Cash Balance benefit effective January 1, 2003. All new State employees hired on or after January 1, 2003, will automatically participate in the Cash Balance benefit.
2. No additional State contribution is required for the 2005-2006 fiscal year to meet the actuarially required contribution. Expected member contributions and State contributions exceed the total funding requirement. The Reserve as of January 1, 2004, is \$(28,012,172).
3. For the 2004 plan year, the actuarially required contribution is under 90% of the actual contributions. Therefore, a funding excess exists to provide benefit improvements during the 2004 plan year of 0.66% of payroll.
4. The funded status of the system is measured by the ratio of the system assets over the Pension Benefit Obligation (PBO). The PBO is calculated using the Projected Unit Credit Method, which determines the benefit by using accumulated cash balance account values at the valuation date and projecting salary, contribution credits, and interest credits to assumed termination or retirement, and prorating the projected balances by service earned at the valuation date to service expected at termination or retirement. As of January 1, 2004, the funded percentage on Actuarial Value of Assets is 109.9%.

**NEBRASKA PUBLIC EMPLOYEES RETIREMENT SYSTEMS**  
**STATE EMPLOYEES' RETIREMENT SYSTEM**  
**CASH BALANCE BENEFIT FUND**

---

**EXECUTIVE SUMMARY**

**Basic Actuarial Valuation Results**

The 2004 actuarial valuation results are based upon the plan provisions as of January 1, 2004, as described in Exhibit 8. The actuarial methods and assumptions are described in detail in Exhibits 9 and 10, respectively.

**1. State Contribution**

The State's funding policy is to match the contributions paid by members at a rate of 156% of the member contribution, and make additional payments if necessary, to meet the actuarially required contribution. The actuarially required contribution is equal to the normal cost plus an amortization payment for unfunded liabilities. Unfunded liabilities created due to experience gains or losses, plan changes or assumption changes are amortized over 25 years.

The total expected State contribution for the 2004 plan year is \$12,112,627. Member contributions and matching State contributions are expected to exceed the total actuarially required funding.

Assets exceed the actuarial accrued liability as of the valuation date. As a result, the unfunded actuarial accrued liability is less than \$0. No additional payment is required for the 2004 plan year.

<b>History of Expected State Contributions</b>			
<b>Plan Year</b>	<b>State Contribution</b>	<b>Additional Contributions</b>	<b>Total</b>
2003	\$ 9,622,709	\$ 0	\$ 9,622,709
2004	12,112,627	0	12,112,627

**NEBRASKA PUBLIC EMPLOYEES RETIREMENT SYSTEMS**  
**STATE EMPLOYEES' RETIREMENT SYSTEM**  
**CASH BALANCE BENEFIT FUND**

**EXECUTIVE SUMMARY**

**2. Asset Values**

The total assets of the system as of the valuation date at both market value and actuarial value is as follows:

	January 1, 2003	January 1, 2004	Annual Rate of Return
(a) Market value	\$ 216,677,627	\$ 277,389,953	20.5%
(b) Actuarial value, an adjusted value intended to reduce the effect of market fluctuations (See Exhibit 9)	\$ 216,677,627	\$ 254,175,882	10.2%

**3. Actuarial Liability/(Reserve)**

The actuarial liability of the system is the excess of the total benefit obligation (present value of future benefits) over the projected financial resources (sum of (i) the actuarial value of assets, and (ii) the present value of future member and matching State contributions). If the projected financial resources exceed the total benefit obligation, the system has a Reserve. The actuarial position of the system as of the valuation date is as follows:

	January 1, 2003	January 1, 2004
(a) Present value of future benefits	\$ 333,085,896	\$ 391,433,876
(b) Actuarial value of assets	216,677,627	254,175,882
(c) Present value of future member contributions	50,032,856	64,558,660
(d) Present value of matching State contributions	<u>78,051,253</u>	<u>100,711,506</u>
(e) Actuarial Liability/(Reserve) (a-b-c-d)	\$ (11,675,840)	\$ (28,012,172)

**NEBRASKA PUBLIC EMPLOYEES RETIREMENT SYSTEMS**  
**STATE EMPLOYEES' RETIREMENT SYSTEM**  
**CASH BALANCE BENEFIT FUND**

**EXECUTIVE SUMMARY**

**4. Pension Benefit Obligation (PBO)**

The Pension Benefit Obligation represents a standardized disclosure measure of the present value of pension benefits payable in the future, which incorporates the effects of projected salary increases, based on service earned at the valuation date. The measure is intended to provide information regarding the Cash Balance Benefit's funded status on an ongoing-concern basis, progress made in accumulating sufficient assets to pay benefits when due, and comparability to other plans.

Funded Status	January 1, 2003	January 1, 2004
(a) Pension Benefit Obligation		
i) retirees, disabled members and beneficiaries receiving benefits and deferred vested members not yet receiving benefits	\$ 2,096,691	\$ 6,361,964
ii) active members	<u>205,731,046</u>	<u>224,850,123</u>
iii) total pension benefit obligation	\$ 207,827,737	\$ 231,212,087
(b) Assets available for benefits (actuarial value)	<u>216,677,627</u>	<u>254,175,882</u>
(c) Unfunded Pension Benefit Obligation	\$ (8,849,890)	\$ (22,963,795)
(d) Funded percentage on actuarial value of assets: (b)÷(a)(iii)	104.3%	109.9%

**NEBRASKA PUBLIC EMPLOYEES RETIREMENT SYSTEMS**  
**STATE EMPLOYEES' RETIREMENT SYSTEM**  
**CASH BALANCE BENEFIT FUND**

---

**EXECUTIVE SUMMARY**

**5. Benefit Accrual Cost**

The cost of benefits accruing over an active member's working career can be expressed as a level percentage of compensation. This cost represents the true cost of accruing benefits since it is not adjusted for any overfunding or underfunding which may exist on the valuation date. It is determined using the Entry Age Actuarial Cost Method and is also called the Normal Cost. The level benefit accrual cost determined at the valuation date is as follows:

	<b>January 1, 2003</b>	<b>January 1, 2004</b>
(a) Benefit accrual cost amount:	\$ 14,272,551	\$ 17,880,097
(b) Annual compensation before assumed retirement age:	\$ 134,774,460	\$ 169,930,138
(c) Benefit accrual cost rate (a) ÷ (b):	10.59%	10.52%

**6. Forecast of Disbursements**

A forecast of the annual benefit disbursements expected over the next ten years is presented in Exhibit 7. This forecast is based on the same actuarial assumptions with respect to salary increases and decrement rates used to determine the funding requirements. The forecast should be a useful guide in discussing the cash-flow needs of the system with investment managers and in projecting the future financing needs of the system.

**7. Actuarial Methods and Assumptions**

The required contribution developed in this report is an estimate of the amount necessary to provide ongoing benefits to plan members assuming the system is funded in a systematic manner. These estimates are based upon the actuarial method defined under State Statutes to allocate the total cost of the Cash Balance Benefit to various years and actuarial assumptions regarding the return on investments, salary rates, employee termination rates, mortality rates and other risk factors. The actuarial method used to determine the actuarial contribution requirement is the Entry Age Actuarial Cost Method.

The actuarial assumptions represent the expected long-term experience of the system on an explicit basis for each risk area considered. The experience is reviewed periodically. Where necessary, changes are recommended by the actuary and adopted by the Public Employees Retirement Board.

A summary of the actuarial methods and assumptions used in the current valuation is presented in Exhibits 9 and 10, respectively.

**NEBRASKA PUBLIC EMPLOYEES RETIREMENT SYSTEMS**  
**STATE EMPLOYEES' RETIREMENT SYSTEM**  
**CASH BALANCE BENEFIT FUND**

**SYSTEM ASSETS**

<b>A. Summary of Market Value of Assets</b>	<b>Market Value as of December 31, 2002</b>	<b>Market Value as of December 31, 2003</b>
1. Cash and Equivalents	\$ 0	\$ 32,796
2. Investments	216,677,627	283,006,028
3. Receivables and Prepaids	0	3,788,371
4. Accounts Payable	0	(9,437,242)
<b>5. Net Assets Available for Pension Benefits Considered (1 + 2 + 3 + 4)</b>	<b>\$ 216,677,627</b>	<b>\$ 277,389,953</b>

<b>B. Development of Actuarial Value of Assets</b>	<b>Amount</b>
1. Actuarial Value of Assets as of January 1, 2003	\$ 216,677,627
2. Unrecognized return as of January 1, 2003	\$ 0
3. Contributions	
(a) Employee	\$ 7,177,860
(b) Employer	<u>11,225,906</u>
(c) Total	\$ 18,403,766
4. Transfers In	\$ 1,688,961
5. Disbursements	
(a) Distributions	\$ 5,224,811
(b) Benefit Payments	<u>251,296</u>
(c) Total	\$ 5,476,107
6. Expected Return at 7.6% on:	
(a) Item 1	\$ 16,467,500
(b) Item 2	0
(c) Item 3(c)	686,538
(d) Item 4	128,361
(e) Item 5	<u>(204,282)</u>
(f) Total (a) + (b) + (c) + (d) - (e)	\$ 17,078,117
7. Actual Return on Market Value for 2003 Plan Year, net of expenses	\$ 46,095,706
8. Return to be Spread for 2003 Plan Year [7-6(f)]	\$ 29,017,589

**NEBRASKA PUBLIC EMPLOYEES RETIREMENT SYSTEMS**  
**STATE EMPLOYEES' RETIREMENT SYSTEM**  
**CASH BALANCE BENEFIT FUND**

**SYSTEM ASSETS**

<b>B. Development of Actuarial Value of Assets (continued)</b>		<b>Amount</b>																								
9. Total Market Value of Assets as of January 1, 2004		\$ 277,389,953																								
10. Return to be Spread:																										
<table border="1"> <thead> <tr> <th align="center">Plan Year</th> <th align="center">Return to be Spread</th> <th align="center">Unrecognized Percent</th> <th align="center">Unrecognized Return</th> </tr> </thead> <tbody> <tr> <td align="center">2004</td> <td align="right">\$ 29,017,589</td> <td align="center">80%</td> <td align="right">\$ 23,214,071</td> </tr> <tr> <td align="center">2003</td> <td align="right">0</td> <td align="center">60%</td> <td align="right">0</td> </tr> <tr> <td align="center">2002</td> <td align="right">0</td> <td align="center">40%</td> <td align="right">0</td> </tr> <tr> <td align="center">2001</td> <td align="right">0</td> <td align="center">20%</td> <td align="right">0</td> </tr> <tr> <td align="center" colspan="3"><b>Total</b></td> <td align="right"><b>\$ 23,214,071</b></td> </tr> </tbody> </table>			Plan Year	Return to be Spread	Unrecognized Percent	Unrecognized Return	2004	\$ 29,017,589	80%	\$ 23,214,071	2003	0	60%	0	2002	0	40%	0	2001	0	20%	0	<b>Total</b>			<b>\$ 23,214,071</b>
Plan Year	Return to be Spread	Unrecognized Percent	Unrecognized Return																							
2004	\$ 29,017,589	80%	\$ 23,214,071																							
2003	0	60%	0																							
2002	0	40%	0																							
2001	0	20%	0																							
<b>Total</b>			<b>\$ 23,214,071</b>																							
<b>11. Total Actuarial Value of Assets at January 1, 2004 (9-10)</b>		<b>\$ 254,175,882</b>																								
<b>12. Ratio of Actuarial Value to Market Value (11÷9)</b>		<b>91.6%</b>																								

**NEBRASKA PUBLIC EMPLOYEES RETIREMENT SYSTEMS**  
**STATE EMPLOYEES' RETIREMENT SYSTEM**  
**CASH BALANCE BENEFIT FUND**

**SYSTEM ASSETS**

<b>C. Change in Asset Values During 2003</b>	<b>Actuarial Value</b>	<b>Market Value</b>
1. Asset value as of January 1, 2003	\$ 216,677,627	\$ 216,677,627
2. Contributions for 2003:		
(a) Employee contributions paid	\$ 7,177,860	\$ 7,177,860
(b) Employer contributions collected	<u>11,225,906</u>	<u>11,225,906</u>
(d) Contributions for 2003: (a) + (b)	\$ 18,403,766	\$ 18,403,766
3. Transfers In	\$ 1,688,961	\$ 1,688,961
4. Disbursements for 2003:		
(a) Benefit payments	\$ 5,476,107	\$ 5,476,107
(b) Expenses and fees	<u>483,812</u>	<u>483,812</u>
(c) Disbursements for 2003: (a) + (b)	\$ 5,959,919	\$ 5,959,919
5. Investment return for 2003:	\$ 23,365,447	\$ 46,579,518
6. Asset value as of January 1, 2004: [1 + 2(d) + 3 - 4(c) + 5]	\$ 254,175,882	\$ 277,389,953
7. Approximate rate of investment return, net of expenses	10.2%	20.5%

**NEBRASKA PUBLIC EMPLOYEES RETIREMENT SYSTEMS  
STATE EMPLOYEES' RETIREMENT SYSTEM  
CASH BALANCE BENEFIT FUND**

**ACTUARIAL CONTRIBUTION REQUIREMENT**

<b>A. Development of Actuarially Required Funding Rate</b>	<b>January 1, 2004</b>
1. Actuarial present value of benefits	
(a) Active members	\$ 385,071,912
(b) Inactive members	2,380,127
(c) Retired members, disabilities and beneficiaries	<u>3,981,837</u>
(d) Total	\$ 391,433,876
2. Present Value of Future Normal Costs	<u>150,241,521</u>
3. Total Actuarial Accrued Liability [1(d) - 2]	\$ 241,192,355
4. Actuarial Value of Assets	<u>254,175,882</u>
5. Unfunded Actuarial Accrued Liability [3-4]	\$ (12,983,527)
6. 25-Year Amortization of the Unfunded Actuarial Accrued Liability	
(a) Amount	\$ (1,132,740)
(b) Amount as % of Pay	(0.66%)
7. Normal Cost	
(a) Amount	\$ 17,880,097
(b) Amount as % of Pay	10.44%
8. Total Actuarially Required Contribution	
(a) Amount [6(a) + 7(a)]	\$ 16,747,357
(b) Amount as % of Pay	9.78%

**NEBRASKA PUBLIC EMPLOYEES RETIREMENT SYSTEMS  
STATE EMPLOYEES' RETIREMENT SYSTEM  
CASH BALANCE BENEFIT FUND**

**ACTUARIAL CONTRIBUTION REQUIREMENT**

<b>B. Development of Additional State Contribution for 2005/2006</b>	<b>Annual Amount as a % of Pay</b>
1. Actuarially Required Contribution (a) Total Contribution Amount (b) Amount as % of Pay	\$ 16,747,357 9.78%
2. Statutory Contribution Rates (a) Employee Contribution Rate (b) Employer Contribution Rate (c) Total Employee/Employer Contribution Rate 2(a) + 2(b)	4.53% 7.07% <hr/> 11.60%
3. Additional Required State Contribution (a) Additional Required State Contribution Rate [1(b)-2(c), not less than 0.00%] (b) Additional Required State Contribution Amount for the 2004 plan year	0.00% \$ 0
4. Additional Required State Contribution Amount for the 2005/2006 fiscal year [item 3(b) with interest]	\$ 0
<b>C. Development of Excess Contribution Rate Available for Benefit Improvements</b>	<b>Annual Amount as a % of Pay</b>
1. Total Statutory Contribution Rate	11.60%
2. Benefit Improvement Threshold Rate [90% of (1)]	10.44%
3. Actuarially Required Contribution Rate	9.78%
4. Funding Excess Available for Benefit Improvement (a) As a Rate of Pay [(2)-(3), not less than 0%] (b) Annual Amount	0.66% \$ 1,130,740

**NEBRASKA PUBLIC EMPLOYEES RETIREMENT SYSTEMS**  
**STATE EMPLOYEES' RETIREMENT SYSTEM**  
**CASH BALANCE BENEFIT FUND**

**ACTUARIAL CONTRIBUTION REQUIREMENT**

<b>D. Schedule of Amortization Bases</b>	<b>January 1, 2004 Remaining Payments</b>	<b>Date of Last Payment</b>	<b>Outstanding Balance as of January 1, 2004</b>	<b>Annual Contribution</b>
1. 2004 Unfunded Actuarial Accrued Liability base	25	07/01/2028	\$ (12,983,527)	\$ (1,132,740)
<b>Total</b>			<b>\$ (12,983,527)</b>	<b>\$ (1,132,740)</b>

NOTE: Per Section 84-1319(4)(b) of the Nebraska Revised Statutes, since the unfunded actuarial accrued liability on the valuation date is less than \$0, all prior amortization bases are considered fully amortized and the 2004 amortization base is set equal to the unfunded actuarial accrued liability at January 1, 2004, and amortized over 25 years on a level dollar basis.

**NEBRASKA PUBLIC EMPLOYEES RETIREMENT SYSTEMS**  
**STATE EMPLOYEES' RETIREMENT SYSTEM**  
**CASH BALANCE BENEFIT FUND**

**ACTUARIAL (GAIN)/LOSS**

The actuarial gain/(loss) is comprised of both the liability gain/(loss) and the actuarial asset gain/(loss). Each of these represents the difference between the expected and actual values as of January 1, 2004.

<b>1.</b>	<b>Expected Actuarial Accrued Liability</b>	
a.	Actuarial Accrued Liability as of January 1, 2003	\$ 216,203,727
b.	Normal Cost during 2003	14,272,551
c.	Benefit payments for Plan Year Ending December 31, 2003	5,476,107
d.	Interest on a, b, and c to End of Year	<u>16,759,628</u>
e.	Expected Actuarial Accrued Liability Before Changes (a. + b. - c. + d.)	\$ 241,759,799
f.	Change in Actuarial Accrued Liability at January 1, 2004 Due to Change in Actuarial Assumptions	0
g.	Change in Actuarial Accrued Liability at January 1, 2004 Due to Change in Plan Provisions	0
h.	Expected Actuarial Accrued Liability at January 1, 2004	\$ 241,759,799
<b>2.</b>	<b>Actuarial Accrued Liability at January 1, 2004</b>	<b>\$ 241,192,355</b>
<b>3.</b>	<b>Liability Gain/(Loss) (1.h. - 2.)</b>	<b>\$ 567,444</b>
<b>4.</b>	<b>Expected Actuarial Value of Assets</b>	
a.	Actuarial Value of Assets as of January 1, 2003	\$ 216,677,627
b.	Contributions and Transfers In During Plan Year	20,092,727
c.	Benefit Payments During Plan Year	5,476,107
d.	Interest on a, b, and c to End of Year	<u>17,078,117</u>
e.	Expected Actuarial Value of Assets at January 1, 2004 (a. + b. - c. + d.)	\$ 248,372,364
<b>5.</b>	<b>Actuarial Value of Assets as of January 1, 2004</b>	<b>\$ 254,175,882</b>
<b>6.</b>	<b>Actuarial Asset Gain/(Loss) (5. - 4.f.)</b>	<b>\$ 5,803,518</b>
<b>7.</b>	<b>Actuarial Gain/(Loss) (3. + 6.)</b>	<b>\$ 6,370,962</b>

**NEBRASKA PUBLIC EMPLOYEES RETIREMENT SYSTEMS**  
**STATE EMPLOYEES' RETIREMENT SYSTEM**  
**CASH BALANCE BENEFIT FUND**

**ACTUARIAL BALANCE SHEET**

<b>A. Financial Resources</b>	<b>January 1, 2004</b>
1. Actuarial Value of Assets	\$ 254,175,882
2. Present Value of Future Normal Cost Contributions	
(a) Member	\$ 64,558,660
(b) Employer	<u>85,682,861</u>
(c) Total	150,241,521
3. Unfunded Actuarial Accrued Liability	(12,983,527)
4. Total Assets [1 + 2(c) + 3]	\$ 391,433,876

<b>B. Benefit Obligations</b>	<b>January 1, 2004</b>
1. Present Value of Future Benefits	
(a) Active members	\$ 385,071,912
(b) Inactive members	2,380,127
(c) Retirees, disabilities and beneficiaries	<u>3,981,837</u>
(d) Total	\$ 391,433,876

**NEBRASKA PUBLIC EMPLOYEES RETIREMENT SYSTEMS  
STATE EMPLOYEES' RETIREMENT SYSTEM  
CASH BALANCE BENEFIT FUND**

**ACCOUNTING INFORMATION**

**A. Pension Benefit Obligation under the Projected Unit Credit Cost Method.**

	January 1, 2003	January 1, 2004
<b>Pension Benefit Obligation (PBO):</b>		
Vested PBO		
(a) members currently receiving payments	\$ -	\$ 3,981,837
(b) other members		
i) accumulated member contributions	87,167,690	94,273,384
ii) employer financed vested	<u>118,359,472</u>	<u>127,764,874</u>
Total Vested PBO	\$ 205,527,162	\$ 228,400,222
Nonvested PBO	<u>2,300,575</u>	<u>2,811,865</u>
Total PBO	\$ 207,827,737	\$ 231,212,087
Actuarial Value of Assets	<u>216,677,627</u>	<u>254,175,882</u>
Unfunded Pension Benefit Obligation	\$ (8,849,890)	\$ (22,963,795)
Funded Percentage		
(a) on vested PBO	105.4%	111.3%
(b) on total PBO	104.3%	109.9%

**B. Change in Pension Benefit Obligation from January 1, 2003 to January 1, 2004.**

<b>Pension Benefit Obligation at January 1, 2003</b>	\$ 207,827,737
Increase/(Decrease) during Period:	
Plan Provision Changes	\$ 0
Assumption Changes	0
Benefits Accumulated	13,472,876
Benefits Paid	(5,476,107)
Interest Cost	16,614,565
Plan Experience	<u>(1,226,984)</u>
Total Change	\$ 23,384,350
<b>Pension Benefit Obligation at January 1, 2004</b>	\$ 231,212,087

**NEBRASKA PUBLIC EMPLOYEES RETIREMENT SYSTEMS**  
**STATE EMPLOYEES' RETIREMENT SYSTEM**  
**CASH BALANCE BENEFIT FUND**

**ACCOUNTING INFORMATION**

Exhibits 9 and 10 provide a more detailed summary of the underlying actuarial methods and assumptions used in the calculations of the Pension Benefit Obligation. The benefits valued are those in effect on January 1, 2004, as outlined in Exhibit 8. The determination of the Pension Benefit Obligation has been made in accordance with generally accepted actuarial principles and practices.

**B. Schedule of Employer Contributions - Disclosure Requirements Under GASB No. 25**

<b>Plan Year Ending</b>	<b>Annual Required Contributions</b>	<b>Percentage Contributed</b>
December 31, 2002	\$ 9,307,484	100%
December 31, 2003	\$ 11,474,951	100%

**C. Actuarial Assumptions, Method and Additional Information under GASB No. 25**

Valuation Date	December 31, 2003
Actuarial Cost Method	Entry Age
Amortization Method	Level dollar amount, closed
Amortization period	25 years
Asset Valuation Method	5 year smoothing of market value
Actuarial Assumptions:	
Investment rate of return*	7.6%
Projected salary increases*	4.5% - 9.1%
*Includes inflation at	3.5%
Cost-of-living adjustment	None

**NEBRASKA PUBLIC EMPLOYEES RETIREMENT SYSTEMS  
STATE EMPLOYEES' RETIREMENT SYSTEM  
CASH BALANCE BENEFIT FUND**

**ACCOUNTING INFORMATION**

**D. Schedule of Funding Progress Under GASB No. 25**

<b>Actuarial Valuation Date</b>	<b>Actuarial Value of Assets (a)</b>	<b>Actuarial Accrued Liability (AAL) (b)</b>	<b>Unfunded Accrued Liabilities (UAL) (b-a)</b>	<b>Funded Ratio (a÷b)</b>	<b>Covered Payroll (c)</b>	<b>UAL as a % of Covered Payroll [(b-a)/c]</b>
December 31, 2002	\$ 216,677,627	\$ 216,203,727	\$ (473,900)	100.2%	\$ 135,913,965	(3.5%)
December 31, 2003	\$ 254,175,882	\$ 241,192,355	\$(12,983,527)	105.4%	\$ 171,324,288	(7.6%)

**NEBRASKA PUBLIC EMPLOYEES RETIREMENT SYSTEMS**  
**STATE EMPLOYEES' RETIREMENT SYSTEM**  
**CASH BALANCE BENEFIT FUND**

**SUMMARY OF MEMBER DATA**

<b>A. Active Members</b>	<b>January 1, 2003</b>	<b>January 1, 2004</b>
1. Number of active members		
(a) Before assumed retirement age	3,927	5,119
(b) Beyond assumed retirement age	<u>37</u>	<u>44</u>
(c) Total	3,964	5,163
2. Annual considered compensation		
(a) Before assumed retirement age	\$ 134,774,460	\$ 169,930,138
(b) Beyond assumed retirement age	<u>1,139,505</u>	<u>1,394,150</u>
(c) Total	\$ 135,913,965	\$ 171,324,288
3. Accumulated contributions		
(a) Employee Cash Balance Account	\$ 86,358,395	\$ 94,273,384
(b) Employer Cash Balance Account	<u>128,222,541</u>	<u>140,816,675</u>
(c) Total Cash Balance Account	\$ 214,580,936	\$ 235,090,059
4. Active member averages		
(a) Age	49.70	47.05
(b) Service	12.40	10.08
(c) Compensation	\$ 34,287	\$ 33,183
(d) Cash Balance Account	\$ 54,132	\$ 45,534
<b>B. Inactive Members</b>		
1. Number of inactive members	70	60
2. Total vested Cash Balance Account	\$ 2,096,691	\$ 2,380,127
3. Inactive member averages		
(a) Age	45.9	48.0
(b) Vested Cash Balance Account	\$ 29,953	\$ 39,669
<b>C. Retired and Disabled Members and Beneficiaries</b>		
1. Number of members		
(a) Retired	0	45
(b) Disabled	0	0
(c) Beneficiaries	<u>0</u>	<u>1</u>
(d) Total	0	46
2. Annual benefits		
(a) Retired	\$ 0	\$ 369,248
(b) Disabled	0	0
(c) Beneficiaries	<u>0</u>	<u>8,620</u>
(d) Total	\$ 0	\$ 377,868

**NEBRASKA PUBLIC EMPLOYEES RETIREMENT SYSTEMS  
STATE EMPLOYEES' RETIREMENT SYSTEM  
CASH BALANCE BENEFIT FUND**

**SUMMARY OF MEMBER DATA**

**D. Distribution of Retired and Disabled Members and Beneficiaries as of January 1, 2004.**

Age Range	Number	Annual Benefit	Average Annual Benefit
Under 50	0	\$ 0	\$ 0
50 – 54	0	0	0
55 – 59	10	69,774	6,977
60 – 64	20	179,942	8,997
65 – 69	12	112,406	9,367
70 – 74	4	15,746	3,936
75 – 79	0	0	0
80 and Over	0	0	0
<b>Total</b>	<b>46</b>	<b>377,868</b>	<b>8,215</b>

**E. Member Data Reconciliation**

	Active Members	Inactive Members				Total
		With Deferred Benefits	Terminated With Balance	Retired and Disabled Members	Beneficiaries	
As of January 1, 2003	3964	70	0	0	0	4034
Changes in status						
a) Normal & early retirements	(28)	0	0	28	0	0
b) Became payable	0	0	0	0	0	0
c) Deaths	(1)	0	0	0	0	(1)
d) Nonvested terminations	(22)	0	22	0	0	0
e) Vested terminations	(22)	22	0	0	0	0
f) Contribution refund	(81)	(32)	0	0	0	(113)
g) Beneficiaries in receipt	0	0	0	0	1	1
h) Disability retirements	0	0	0	0	0	0
i) Return to active service	0	0	0	0	0	0
j) Data Change	(22)	0	10	17	0	5
Total changes in status	(176)	(10)	32	45	1	(108)
New entrants / Data Changes						
a) Without prior service	1375	0	0	0	0	1375
b) With prior service	0	0	0	0	0	0
Total new members	1375	0	0	0	0	1375
Net change	1199	(10)	32	45	1	1267
As of January 1, 2004	5163	60	32	45	1	5301

**NEBRASKA PUBLIC EMPLOYEES RETIREMENT SYSTEMS  
STATE EMPLOYEES' RETIREMENT SYSTEM  
CASH BALANCE BENEFIT FUND**

**SUMMARY OF MEMBER DATA**

**F. Age and Service Distribution of Active Members as of January 1, 2004.**

Age Last Birthday		0-4	5-9	10-14	15-19	20-24	25-29	30-34	35-39	40 and Over	Grand Total
20-24	Number Total Salary Average Sal.	249 \$5,978,453 \$24,010	0 \$0 \$0	0 \$0 \$0	0 \$0 \$0	0 \$0 \$0	0 \$0 \$0	0 \$0 \$0	0 \$0 \$0	0 \$0 \$0	249 \$5,978,453 \$24,010
25-29	Number Total Salary Average Sal.	386 \$10,211,008 \$26,453	12 \$375,735 \$31,311	0 \$0 \$0	0 \$0 \$0	0 \$0 \$0	0 \$0 \$0	0 \$0 \$0	0 \$0 \$0	0 \$0 \$0	398 \$10,586,743 \$26,600
30-34	Number Total Salary Average Sal.	308 \$8,380,026 \$27,208	50 \$1,598,465 \$31,969	3 \$105,608 \$35,203		0 \$0 \$0	0 \$0 \$0	0 \$0 \$0	0 \$0 \$0	0 \$0 \$0	361 \$10,084,099 \$27,934
35-39	Number Total Salary Average Sal.	245 \$6,939,484 \$28,324	90 \$3,150,065 \$35,001	47 \$1,638,795 \$34,868		0 \$0 \$0	0 \$0 \$0	0 \$0 \$0	0 \$0 \$0	0 \$0 \$0	382 \$11,728,344 \$30,702
40-44	Number Total Salary Average Sal.	261 \$7,270,305 \$27,856	84 \$2,735,253 \$32,563	167 \$5,675,011 \$33,982	48 \$1,740,693 \$36,264	0 \$0 \$0	0 \$0 \$0	0 \$0 \$0	0 \$0 \$0	0 \$0 \$0	560 \$17,421,262 \$31,109
45-49	Number Total Salary Average Sal.	270 \$7,504,778 \$27,795	106 \$3,228,162 \$30,454	120 \$4,426,052 \$36,884	260 \$9,767,195 \$37,566	45 \$1,601,197 \$35,582	0 \$0 \$0	0 \$0 \$0	0 \$0 \$0	0 \$0 \$0	801 \$26,527,384 \$33,118
50-54	Number Total Salary Average Sal.	258 \$7,887,705 \$30,573	101 \$3,426,210 \$33,923	118 \$3,865,550 \$32,759	132 \$5,069,380 \$38,404	295 \$12,227,125 \$41,448	5 \$178,861 \$35,772		0 \$0 \$0	0 \$0 \$0	909 \$32,654,831 \$35,924
55-59	Number Total Salary Average Sal.	187 \$5,820,790 \$31,127	94 \$2,974,141 \$31,640	114 \$4,100,861 \$35,972	123 \$4,488,258 \$36,490	105 \$4,385,228 \$41,764	193 \$9,057,455 \$46,930	5 \$195,006 \$39,001	0 \$0 \$0	0 \$0 \$0	821 \$31,021,739 \$37,785
60-64	Number Total Salary Average Sal.	64 \$1,813,300 \$28,333	54 \$1,889,536 \$34,991	74 \$2,421,087 \$32,717	94 \$3,385,798 \$36,019	75 \$2,953,538 \$39,381	46 \$1,941,311 \$42,202	84 \$3,882,962 \$46,226	2 \$146,039 \$73,020	0 \$0 \$0	493 \$18,433,570 \$37,391
65-69	Number Total Salary Average Sal.	15 \$487,316 \$32,488	16 \$419,087 \$26,193	22 \$917,373 \$41,699	27 \$883,652 \$32,728	17 \$684,128 \$40,243	17 \$795,504 \$46,794	0 \$0 \$0	19 \$871,518 \$45,869	0 \$0 \$0	145 \$5,493,713 \$37,888
70 & Up	Number Total Salary Average Sal.	5 \$72,798 \$14,560	6 \$77,847 \$12,975	5 \$205,106 \$41,021	6 \$157,109 \$26,185	7 \$203,370 \$29,053	6 \$234,253 \$39,042	3 \$208,262 \$69,421	6 \$235,405 \$39,234	0 \$0 \$0	44 \$1,394,150 \$31,685
Total	Number Total Salary Average Sal.	2,248 \$62,365,963 \$27,743	613 \$19,874,501 \$32,422	670 \$23,355,443 \$34,859	690 \$25,492,085 \$36,945	544 \$22,054,586 \$40,542	267 \$12,207,384 \$45,721	104 \$4,721,365 \$45,398	27 \$1,252,962 \$46,406	0 \$0 \$0	5,163 \$171,324,288 \$33,183

**NEBRASKA PUBLIC EMPLOYEES RETIREMENT SYSTEMS**  
**STATE EMPLOYEES' RETIREMENT SYSTEM**  
**CASH BALANCE BENEFIT FUND**

**FORECAST OF EXPECTED DISBURSEMENTS**

Plan Year Ending December 31	Active Employees	Retired and Disabled Members and Beneficiaries	Total
2004	\$ 11,304,299	\$ 380,274	\$ 11,684,573
2005	10,974,758	380,954	11,355,712
2006	13,014,627	381,524	13,396,151
2007	15,357,489	381,836	15,739,325
2008	17,742,703	379,230	18,121,933
2009	19,830,260	368,257	20,198,517
2010	21,989,626	367,675	22,357,301
2011	24,165,568	367,031	24,532,599
2012	26,362,171	366,150	26,728,321
2013	28,570,912	364,754	28,935,666

**Note:** These amounts are based on the assumption members terminating before reaching retirement eligibility will elect a lump sum distribution of their cash balance account. Members eligible for retirement will elect a monthly annuity, payable for life with five years certain.

**NEBRASKA PUBLIC EMPLOYEES RETIREMENT SYSTEMS**  
**STATE EMPLOYEES' RETIREMENT SYSTEM**  
**CASH BALANCE BENEFIT FUND**

---

**SUMMARY OF PLAN PROVISIONS**

**Membership**

All permanent full-time employees of the State who have twelve continuous months of service shall begin participation in the State Employees' Retirement System and all permanent full-time or permanent part-time employees who have twelve months of service within a five-year period, and who have attained the age of twenty, may exercise the option to begin participation in the State Employees' Retirement System.

Existing members of the State Employees' Retirement System may elect, during the period beginning October 1, 2002, and ending December 31, 2002, to participate in the Cash Balance benefit. If no election is made by January 1, 2003, the member shall be treated as though he or she elected to continue participating in the defined contribution benefit as provided in the State Employees' Retirement Act. For a member who first participates in the Retirement System on or after January 1, 2003, he or she shall automatically participate in the Cash Balance benefit once they have met the plan eligibility requirements.

**Compensation Considered**

Compensation means gross wages or salaries payable to the member for personal services performed during the plan year, overtime pay, member retirement contributions, and amounts contributed by the member to plans under sections 125, 403(b) and 457 of the Internal Revenue Code or any other section of the code which defers or excludes such amounts from income.

**Member Contributions**

Members of the State retirement system shall contribute an amount equal to four and one-third percent (4.33%) of annual compensation up to \$19,954, plus four and eight-tenths percent (4.8%) of annual compensation in excess of \$19,954 to the fund. The member contribution shall be credited to the employee cash balance account.

**Employer Contributions**

The State shall contribute at a rate of 156% of the members' contributions to the fund. The State contribution shall be credited to the employer cash balance account.

**Interest Credit Rate**

Interest credit rate means the greater of (a) five percent or (b) the applicable federal mid-term rate as published by the Internal Revenue Service as of the first day of the calendar quarter for which interest credits are credited, plus one and one-half percent, such rate to be compounded annually.

**Interest Credits**

Interest credits means the amount credited to the employee cash balance account and the employer cash balance account at the end of each day. Such interest credit for each account shall be determined by applying the daily portion of the interest credit rate to the account balance at the end of the previous day.

**Retirement Age**

A member is eligible for retirement after attaining age 55.

**NEBRASKA PUBLIC EMPLOYEES RETIREMENT SYSTEMS  
STATE EMPLOYEES' RETIREMENT SYSTEM  
CASH BALANCE BENEFIT FUND**

---

**SUMMARY OF PLAN PROVISIONS**

**Service**

Service is defined to mean the actual total length of employment with the State and is not interrupted by a) temporary or seasonal suspension of service that does not terminate the member's employment, b) leave of absence authorized by the state for no longer than twelve months, c) leave of absence due to disability or d) leave due to military service.

**Retirement Allowance**

Upon attainment of age 55 regardless of service, the retirement allowance, shall be equal to the accumulated employee and employer cash balance accounts including interest credit, annuitized for payment in the normal form. Also available are additional forms of payment allowed under the plan which are actuarially equivalent to the normal form including the option of a lump sum or partial lump sum.

**Normal Form of Payment**

The normal form of payment under the Cash Balance benefit is a single life annuity with five-year certain, payable monthly. Members will have the option to convert their member cash balance account to a monthly annuity with built in cost-of-living adjustments of 2.5% annually. This monthly benefit and all other options allowed under the Plan will be of actuarial equivalence to the accumulated employee and employer cash balance accounts including interest credits.

**Deferred Vested Allowance**

A member who terminates with at least 3 years of participation in the system, including eligibility and vesting credit, may choose to leave his employee and employer cash balance accounts in the fund and be eligible to receive a vested monthly allowance at retirement age or request a distribution of his employee and employer cash balance accounts plus interest credit, with no future benefit payable from the plan.

**Severance Benefits**

A member who terminates with less than 3 years of participation in the system, including eligibility and vesting credit, may elect to receive a distribution of his/her employee cash balance account including interest credit, with no future benefit payable from the plan.

**Disability Allowance**

If a member becomes disabled prior to retirement, the member shall receive the total amount of his/her accumulated employee and employer cash balance accounts including interest credit, as a lump sum or converted into a monthly annuity, as defined under the retirement allowance.

**Preretirement Death Allowance**

If a member dies prior to retirement, the surviving spouse, designated beneficiary (if different), or estate shall receive the total amount of his/her accumulated employee and employer cash balance accounts including interest credit, as a lump sum or converted into a monthly annuity, as defined under the retirement allowance.

***NEBRASKA PUBLIC EMPLOYEES RETIREMENT SYSTEMS***  
***STATE EMPLOYEES' RETIREMENT SYSTEM***  
***CASH BALANCE BENEFIT FUND***

---

***SUMMARY OF PLAN PROVISIONS***

**Benefit Improvements**

In accordance with Section 84-1319 of the Nebraska State Statutes, the Public Employees' Retirement Board may grant benefit improvements, but in no event will such improvement result in an actuarially required contribution rate in excess of 90% of the total statutory contribution rate.

**NEBRASKA PUBLIC EMPLOYEES RETIREMENT SYSTEMS**  
**STATE EMPLOYEES' RETIREMENT SYSTEM**  
**CASH BALANCE BENEFIT FUND**

---

**SUMMARY OF ACTUARIAL METHODS AND PROCEDURES AS OF JANUARY 1, 2004**

**A. ACTUARIAL METHODS**

- 1. Calculation of Normal Cost and Actuarial Accrued Liability:** The method used to determine the normal cost and actuarial accrued liability was the Entry Age Actuarial Cost Method described below.

**Entry Age Actuarial Cost Method**

Projected pension benefits were determined for all active members under age 70. Cost factors designed to produce annual costs as a constant percentage of each member's expected compensation in each year from the assumed entry age to the assumed retirement age were applied to the projected benefits to determine the normal cost (the portion of the total cost of the plan allocated to the current year under the method). The normal cost is determined by summing intermediate results for active members under age 70 and determining an average normal cost rate which is then related to the total payroll of active members under age 70. The actuarial assumptions shown in Exhibit 9 were used in determining the projected benefits and cost factors. The actuarial accrued liability for active members (the portion of the total cost of the plan allocated to prior years under the method) was determined as the excess of the actuarial present value of projected benefits over the actuarial present value of future normal costs.

The actuarial accrued liability for retired members and their beneficiaries currently receiving benefits, active members age 70 and over, terminated vested members and disabled members not yet receiving benefits was determined as the actuarial present value of the benefits expected to be paid. No normal costs are now payable for these members.

The actuarial accrued liability under this method at any point in time is the theoretical amount of the fund that would have been accumulated had annual contributions equal to the normal cost been made in prior years (it does not represent the liability for benefits accrued to the valuation date). The unfunded actuarial accrued liability is the excess of the actuarial accrued liability over the actuarial value of plan assets measured on the valuation date. The unfunded actuarial accrued liability is funded with a level dollar payment amount over 25 years from January 1, 2004.

Under this method, experience gains or losses, i.e., decreases or increases in accrued liabilities attributable to deviations in experience from the actuarial assumptions, adjust the unfunded actuarial accrued liability.

**NEBRASKA PUBLIC EMPLOYEES RETIREMENT SYSTEMS  
STATE EMPLOYEES' RETIREMENT SYSTEM  
CASH BALANCE BENEFIT FUND**

---

**SUMMARY OF ACTUARIAL METHODS AND PROCEDURES AS OF JANUARY 1, 2004**

- 2. Calculation of the Actuarial Value of Assets:** Effective January 1, 2003, the actuarial value of assets was initialized at Market Value and equals the sum of the employee and employer cash balance accounts. In future years, the actuarial value of assets will be based on a five-year smoothing method with phase-in and is determined by spreading the effect of each year's investment return in excess of or below the expected return. The Market Value of assets at the valuation date is reduced by the sum of the following, each determined after January 1, 2003:
- (i) 80% of the return to be spread during the first year preceding the valuation date.
  - (ii) 60% of the return to be spread during the second year preceding the valuation date.
  - (iii) 40% of the return to be spread during the third year preceding the valuation date.
  - (iv) 20% of the return to be spread during the fourth year preceding the valuation date.

The return to be spread is the difference between (1) the actual investment return on Market Value and (2) the expected return on Actuarial Value. The expected return on Actuarial Value includes interest on the previous year's unrecognized return.

- 3. Calculation of Pension Benefit Obligation:** The method used to determine the Pension Benefit Obligation was the Projected Unit Credit Actuarial Cost Method with service proration. Under this method, the benefit is based on salary projected to assumed termination or retirement and service as of the valuation date.

**B. VALUATION PROCEDURES**

No actuarial liability is included for participants who terminated without being vested prior to the valuation date, except those due a refund of the cash balance account.

The compensation amounts used in the projection of benefits and liabilities for active members were prior plan year compensations.

Projected benefits were limited by the dollar limitation required by the Internal Revenue Code Section 415 as it applies to governmental plans and compensation limited by Section 401(a)(17).

**NEBRASKA PUBLIC EMPLOYEES RETIREMENT SYSTEMS  
STATE EMPLOYEES' RETIREMENT SYSTEM  
CASH BALANCE BENEFIT FUND**

---

***SUMMARY OF ACTUARIAL ASSUMPTIONS AS OF JANUARY 1, 2004***

**ECONOMIC ASSUMPTIONS**

- |   |   |
|---|---|
| 1. Investment Return  | 7.6% per annum, compounded annually, net of expenses. |
| 2. Inflation  | 3.5% per annum, compounded annually.                  |
| 3. Interest Credit Rate on Cash Balance Accounts                | 7.0% per annum, compounded annually.                  |
| 4. Annuitization Rate of Member & Employer Accumulated Balances | 7.6% per annum, compounded annually.                  |
| 5. Salary Scale   | Graduated rates by age.                               |

Age	Annual Increase in Salary		
	Merit & Productivity	Inflation	Total
20	5.6%	3.5%	9.1%
25	4.6%	3.5%	8.1%
30	3.5%	3.5%	7.0%
35	2.9%	3.5%	6.4%
40	2.6%	3.5%	6.1%
45	2.3%	3.5%	5.8%
50	1.7%	3.5%	5.2%
55	1.2%	3.5%	4.7%
60	1.0%	3.5%	4.5%
65	1.0%	3.5%	4.5%
70	1.0%	3.5%	4.5%

**NEBRASKA PUBLIC EMPLOYEES RETIREMENT SYSTEMS  
STATE EMPLOYEES' RETIREMENT SYSTEM  
CASH BALANCE BENEFIT FUND**

**SUMMARY OF ACTUARIAL ASSUMPTIONS AS OF JANUARY 1, 2004**

**DEMOGRAPHIC ASSUMPTIONS**

1. Mortality

- a. Active and retired members and beneficiaries                      1994 Group Annuity Mortality Table, with one year setback, sex distinct.
- b. Mortality rates under the mortality tables are shown below at sample ages:

Sample Age	Mortality Rate	
	Males	Females
30	.08%	.03%
40	.10	.07
50	.23	.13
60	.71	.39
70	2.17	1.27
80	5.59	3.54

- c. Life expectancies under the mortality tables are shown below at sample ages:

Sample Age	Life Expectancy (Years)	
	Males	Females
30	50.7	55.3
40	41.1	45.5
50	31.6	35.8
60	22.7	26.5
70	15.0	18.1
80	8.9	10.9

- d. Mortality for Annuitization of Employee and Employer Cash Balance Accounts                      1994 Group Annuity Mortality Table, with 50% Male, 50% Female blending.

Sample Age	Mortality Rate	Life Expectancy (Years)
55	.34%	28.0
60	.62%	23.5
65	1.16%	19.4
70	1.87%	15.7
75	2.99%	12.2
80	5.07%	9.3

**NEBRASKA PUBLIC EMPLOYEES RETIREMENT SYSTEMS  
STATE EMPLOYEES' RETIREMENT SYSTEM  
CASH BALANCE BENEFIT FUND**

---

**SUMMARY OF ACTUARIAL ASSUMPTIONS AS OF JANUARY 1, 2004**

2. Retirement

Graduated rates by retirement age.

<b>Age</b>	<b>Annual Rates</b>
55	5.0%
56	5.0%
57	5.0%
58	5.0%
59	5.0%
60	8.0%
61	10.0%
62	25.0%
63	15.0%
64	15.0%
65	35.0%
66	25.0%
67	25.0%
68	25.0%
69	25.0%
70	100.0%

3. Termination

Graduated rates by age and service.

<b>Age</b>	<b>Annual Rate Per 1,000 Members</b>			
	<b>&lt;1</b>	<b>1-&lt;2</b>	<b>2-&lt;3</b>	<b>3+</b>
20	250.80	209.00	183.92	167.20
25	181.05	150.88	132.77	120.70
30	129.00	107.50	94.60	86.00
35	95.25	79.38	69.85	63.50
40	70.95	59.13	52.03	47.30
45	52.35	43.63	38.39	34.90
50	41.40	34.50	30.36	27.60
55	45.00	37.50	33.00	30.00
60	45.00	37.50	33.00	30.00
65	45.00	37.50	33.00	30.00
70	45.00	37.50	33.00	30.00

**NEBRASKA PUBLIC EMPLOYEES RETIREMENT SYSTEMS  
STATE EMPLOYEES' RETIREMENT SYSTEM  
CASH BALANCE BENEFIT FUND**

---

**SUMMARY OF ACTUARIAL ASSUMPTIONS AS OF JANUARY 1, 2004**

4. Disability

Graduated rates for all disabilities by age.

<b>Age</b>	<b>Annual Rate Per 1,000 Members</b>
20	0.20
25	0.30
30	0.40
35	0.80
40	1.80
45	3.50
50	6.30
55	10.30
60	15.60
65	21.70
70	25.70

**OTHER ASSUMPTIONS**

1. Payment Assumptions

As shown in the table below, 100% of all members eligible for retirement are assumed to be paid in the form of an annuity and 100% of members eligible for all other types of benefits are assumed to be paid in the form of a lump sum.

<b>Benefit</b>	<b>Assumed Form of Payment</b>
Retirement	Annuity*
Vested	Lump Sum
Nonvested	Lump Sum
Disability	Lump Sum
Death	Lump Sum

\*Five-year certain and life annuity.

2. Cost of Living Adjustment

None assumed.