
Oklahoma Municipal Retirement Fund

ACTUARIAL VALUATION OF FUNDING REQUIREMENTS

Effective for the Year Starting
July 1, 2002

May 15, 2002

Prepared by

DEAN & COMPANY
CONSULTING ACTUARIES
5464 MILTON STREET, SUITE 210
DALLAS, TX 75206
(214) 891-0990

Certification

This report presents the actuarial position of the member plans of the Oklahoma Municipal Retirement Fund as of January 1, 2002, in accordance with generally accepted actuarial principles applied on a basis consistent with the preceding valuation. The purposes of the valuation are:

- to determine the required contribution for the retirement program effective July 1, 2002.
- to provide accounting information required by GASB 25 (funding progress).

The valuation results in this report are based on participant data provided by the member employers and financial data provided by the Oklahoma Municipal Retirement Fund.

In our opinion, each assumption used in combination to calculate liabilities and costs represents our best estimate of anticipated experience under the plan and is reasonably related to the plan experience and to reasonable expectations.

DEAN & COMPANY

May 15, 2002

Date



Charles E. Dean, FSA, FCA
Enrolled Actuary 99-1249



Sean M. Sullivan, FSA
Enrolled Actuary 99-3649

Table of Contents

- I** Comparison of Required Contribution Rates
- II** Comparison of Plan Assets and Obligations
- III** Funded Status of Plans with No Active Participants
- IV** Development of the Actuarial Value of Assets
- V** Summary of Plan Provisions and Actuarial Method and Assumptions
- VI** Summary of Plan Participants
- VII** Sample Actuarial Report
- VIII** Actuarial Report for the City of Bartlesville

I

Comparison of Required Contribution Rates

I Comparison of Required Contribution Rates

The exhibit in this section shows the required contribution rates determined by the 2002 actuarial valuation. These rates will be in effect from July 1, 2002 through June 30, 2003. The following information is presented for each city:

- Whether the plan has an unfunded actuarial liability or a surplus (*UAL or Surplus*). In general, as long as there is an unfunded actuarial accrued liability, it is amortized as a level dollar amount over 30 years. When plan assets equal or exceed the actuarial accrued liability, the surplus is amortized as a level percent of pay over the future working lifetime of active plan participants. The amortization amount is redetermined each year.
- The *total rate*. This is the aggregate contribution rate determined under the 2002 valuation for each plan. The rate determined under the 2001 valuation is also shown for comparison.
- The *employee rate*. This rate, determined by plan provisions, is the percent of pay to be contributed to the plan by employees for the 2002-03 plan year. The employer rate is generally determined by subtracting the employee rate from the total rate. In some cases the employee rate actually exceeds the total rate because of favorable plan experience in the past (that is, investment performance better than the assumed 7½%, or demographic changes more favorable than assumed). In these cases, the required employer contribution rate effective 7/1/02 is 0.00%.
- A brief summary of the *plan provisions* elected in the adoption agreement. See Section V for a more detailed description of the plan provisions of the OMRF Master Plan. Those municipalities which have upgraded the plan level or other provision such as vesting since the prior valuation are indicated in the final column.

Oklahoma Municipal Retirement Fund
COMPARISON OF REQUIRED CONTRIBUTION RATES

City	UAL or Surplus	Total rate		Employee Rate	Plan Provisions	Changes
		7/1/01	7/1/02			
Adair	UAL	8.52%	8.89%	2.25%	Plan B, normal retirement age 65, 10 year vesting, 5 years certain, no COLA	
Altus	Surplus	8.13%	9.58%	4.00%	Plan AA, normal retirement age 62/30, 10 year vesting, 5 years certain, no COLA	
Alva	Surplus	0.00%	0.87%	0.00%	Plan B, normal retirement age 65, 10 year vesting, 5 years certain, COLA	
Antlers	UAL	6.83%	7.00%	2.25%	Plan B, normal retirement age 65, 10 year vesting, 5 years certain, no COLA	
Bartlesville	UAL	7.21%	8.41%	0.00%	Non-OMRF formula	
Bethany	Surplus	6.69%	19.49%	4.60%	Plan AAA, normal retirement age 65, 10 year vesting, 10 years certain, COLA	Upgrade, cert period
Bethany Warr Acres	Surplus	5.02%	9.71%	2.53%	Plan AAA, normal retirement age 65, 7 year vesting, 5 years certain, no COLA	
gs	UAL	9.57%	9.68%	3.00%	Plan A, normal retirement age 65, 7 year vesting, 5 years certain, no COLA	
Binger	UAL	3.76%	5.77%	1.50%	Plan C, normal retirement age 65, 10 year vesting, 5 years certain, no COLA	
Blackwell	Surplus	0.73%	8.56%	4.50%	Plan AAA, normal retirement age 65, 5 year vesting, 5 years certain, no COLA	Upgrade
Blair	UAL	9.40%	9.83%	3.41%	Plan AA, normal retirement age 65, 5 year vesting, 5 years certain, no COLA	
Boise City	UAL	15.81%	15.87%	0.00%	Plan BB, normal retirement age 65, 10 year vesting, 5 years certain, no COLA	
Braman	UAL	12.22%	10.00%	3.00%	Plan A, normal retirement age 65, 10 year vesting, 5 years certain, no COLA	
Bristow	UAL	22.29%	23.70%	5.25%	Plan AA, normal retirement age 65, 5 year vesting, 5 years certain, COLA	
Broken Bow	UAL	8.73%	9.05%	3.00%	Plan A, Rule of 80, 10 year vesting, 5 years certain, no COLA	
Buffalo	Surplus	7.26%	7.43%	3.50%	Plan AA, normal retirement age 62/30, 10 year vesting, 5 years certain, no COLA	
Burns Flat	UAL	6.13%	5.47%	1.50%	Plan C, normal retirement age 65, 10 year vesting, 5 years certain, no COLA	
Calera	UAL	6.56%	6.13%	1.50%	Plan C, normal retirement age 65, 10 year vesting, 5 years certain, no COLA	

**Oklahoma Municipal Retirement Fund
COMPARISON OF REQUIRED CONTRIBUTION RATES**

City	UAL or Surplus	Total rate		Employee Rate	Plan Provisions	Changes
		7/1/01	7/1/02			
Central OK MCD	UAL	27.65%	22.18%	6.00%	Plan AAA, normal retirement age 65, 10 year vesting, 5 years certain, COLA	
Chandler	UAL	8.60%	9.61%	3.75%	Plan CC, normal retirement age 65, 5 year vesting, 5 years certain, no COLA	
Chickasha	Surplus	0.00%	2.50%	2.50%	Plan AAA, normal retirement age 65, 10 year vesting, 10 years certain, COLA	
Claremore	UAL	10.58%	14.48%	3.75%	Plan AAA, normal retirement age 65, 7 year vesting, 5 years certain, no COLA	Upgrade
Cleo Springs	UAL	29.86%	29.19%	3.73%	Plan AAA, normal retirement age 65, 5 year vesting, 5 years certain, no COLA	
Cleveland	Surplus	7.60%	8.03%	0.00%	Plan AA, normal retirement age 65, 10 year vesting, 5 years certain, no COLA	
Clinton	Surplus	0.00%	5.25%	5.25%	Plan AA, normal retirement age 62/30, 7 year vesting, 10 years certain, COLA	
Collinsville	Surplus	4.30%	6.61%	2.00%	Plan BB, normal retirement age 65, 10 year vesting, 5 years certain, no COLA	
Cordell	Surplus	2.35%	8.65%	0.00%	Plan AA, normal retirement age 65, 7 year vesting, 5 years certain, COLA	
Cushing	UAL	12.45%	13.14%	0.00%	Plan AA, special retirement provisions, 10 year vesting, 5 years certain, no COLA	
Davis	UAL	5.51%	9.49%	3.75%	Plan CC, normal retirement age 65, 10 year vesting, 5 years certain, no COLA	Upgrade
Del City	Surplus	0.34%	5.42%	0.00%	Plan AAA, special retirement provisions, 7 year vesting, 10 years certain, COLA	
Dewey	Surplus	0.00%	4.00%	4.00%	Plan AA, normal retirement age 65, 10 year vesting, 5 years certain, no COLA	
Drumright	UAL	13.80%	13.76%	4.50%	Plan BB, normal retirement age 65, 10 year vesting, 5 years certain, no COLA	
Durant	Surplus	0.00%	3.94%	0.00%	Plan AA, normal retirement age 65, 7 year vesting, 5 years certain, COLA	
Eufaula	UAL	8.63%	9.08%	2.80%	Plan CC, normal retirement age 65, 10 year vesting, 5 years certain, no COLA	
Foss Reservoir	UAL	11.77%	11.77%	3.75%	Plan BB, normal retirement age 62/30, 10 year vesting, 5 years certain, no COLA	
Frederick	UAL	12.60%	16.82%	4.20%	Plan BB, normal retirement age 65, 10 year vesting, 5 years certain, no COLA	Upgrade

**Oklahoma Municipal Retirement Fund
COMPARISON OF REQUIRED CONTRIBUTION RATES**

City	UAL or Surplus	Total rate		Employee Rate	Plan Provisions	Changes
		7/1/01	7/1/02			
Garber	UAL	6.42%	5.09%	1.50%	Plan C, normal retirement age 65, 10 year vesting, 5 years certain, no COLA	
Gearly	Surplus	5.73%	4.79%	1.43%	Plan BB, normal retirement age 65, 10 year vesting, 5 years certain, no COLA	
Granite	Surplus	0.00%	9.37%	4.00%	Plan AA, normal retirement age 65, 10 year vesting, 5 years certain, COLA	
Guthrie	Surplus	4.35%	3.69%	3.69%	Plan AA, normal retirement age 65, 10 year vesting, 5 years certain, no COLA	
Guymon	UAL	6.74%	7.58%	0.00%	Plan CC, normal retirement age 65, 7 year vesting, 5 years certain, no COLA	
Harrah	UAL	11.16%	10.84%	3.75%	Plan CC, normal retirement age 65, 5 year vesting, 5 years certain, no COLA	
Healdton	Surplus	3.94%	8.52%	3.75%	Plan AA, normal retirement age 65, 10 year vesting, 5 years certain, no COLA	
Henryetta	Surplus	3.20%	3.79%	0.65%	Plan CC, normal retirement age 65, 10 year vesting, 5 years certain, no COLA	
Hooker	UAL	10.61%	10.25%	3.00%	Plan A, normal retirement age 65, 5 year vesting, 5 years certain, no COLA	
Hulbert	UAL	#N/A	9.59%	2.25%	Plan B, normal retirement age 65, 10 year vesting, 5 years certain, no COLA	New plan
Hydro	UAL	8.80%	7.92%	3.00%	Plan A, normal retirement age 62/30, 7 year vesting, 5 years certain, no COLA	
Kansas	UAL	7.34%	6.74%	1.50%	Plan C, normal retirement age 65, 10 year vesting, 5 years certain, no COLA	
Kingston	UAL	7.33%	8.24%	2.00%	Plan A, normal retirement age 62/30, 10 year vesting, 5 years certain, no COLA	
Krebs	UAL	8.99%	9.36%	3.00%	Plan A, normal retirement age 65, 10 year vesting, 5 years certain, no COLA	
Laverne	UAL	7.65%	8.32%	3.00%	Plan A, normal retirement age 65, 10 year vesting, 5 years certain, no COLA	
Lindsay	UAL	11.01%	12.53%	3.75%	Plan BB, normal retirement age 65, 10 year vesting, 5 years certain, COLA	
Madill	Surplus	4.22%	6.61%	3.74%	Plan CC, normal retirement age 65, 7 year vesting, 5 years certain, no COLA	
Mannford	UAL	16.98%	18.28%	5.25%	Plan AA, Rule of 80, 5 year vesting, 5 years certain, no COLA	

Oklahoma Municipal Retirement Fund
COMPARISON OF REQUIRED CONTRIBUTION RATES

City	UAL or Surplus	Total rate		Employee Rate	Plan Provisions	Changes
		7/1/01	7/1/02			
Marietta	Surplus	4.92%	5.99%	4.50%	Plan BB, normal retirement age 65, 10 year vesting, 5 years certain, no COLA	
Marietta PWA	UAL	13.83%	12.32%	5.00%	Plan AA, normal retirement age 65, 10 year vesting, 5 years certain, no COLA	
Mcloud	UAL	4.77%	8.95%	2.25%	Plan B, normal retirement age 65, 7 year vesting, 5 years certain, COLA	Upgrade, vesting
Medford	UAL	9.64%	16.09%	2.00%	Plan AA, normal retirement age 62/30, 10 year vesting, 10 years certain, COLA	
Meeker	Surplus	3.49%	3.00%	3.00%	Plan BB, normal retirement age 65, 5 year vesting, 5 years certain, no COLA	
Mooreland	Surplus	0.00%	1.20%	1.20%	Plan BB, special retirement provisions, 10 year vesting, 5 years certain, no COLA	
Mountain Park MCD	UAL	0.00%	6.01%	2.46%	Plan AAA, special retirement provisions, 10 year vesting, 5 years certain, no COLA	Upgrade, Ret age
Muldrow	UAL	8.62%	9.09%	3.75%	Plan CC, normal retirement age 65, 7 year vesting, 5 years certain, no COLA	
Mustang	UAL	13.50%	16.14%	5.00%	Plan AA, normal retirement age 65, 10 year vesting, 5 years certain, no COLA	
Newkirk	UAL	13.37%	15.14%	4.50%	Plan AA, normal retirement age 65, 10 year vesting, 5 years certain, no COLA	
Nichols Hills	Surplus	10.54%	17.98%	5.00%	Plan AA, Rule of 80, 7 year vesting, 10 years certain, COLA	
Noble	UAL	11.17%	11.07%	3.35%	Plan BB, normal retirement age 65, 5 year vesting, 5 years certain, no COLA	
Nowata	Surplus	0.00%	8.86%	5.00%	Plan AAA, normal retirement age 65, 5 year vesting, 5 years certain, no COLA	Upgrade
Oilton	Surplus	0.00%	3.29%	2.25%	Plan B, normal retirement age 65, 10 year vesting, 5 years certain, no COLA	Upgrade
Okeene	Surplus	0.00%	5.51%	3.60%	Plan AAA, normal retirement age 65, 7 year vesting, 5 years certain, no COLA	Upgrade
Okemah	UAL	5.74%	5.93%	2.25%	Plan B, normal retirement age 65, 7 year vesting, 5 years certain, no COLA	
Oklahoma Municipal League	Surplus	4.68%	7.94%	0.00%	Plan AAA, normal retirement age 65, 5 year vesting, 5 years certain, COLA	
Okmulgee	Surplus	2.05%	3.09%	0.00%	Plan AA, normal retirement age 65, 10 year vesting, 5 years certain, COLA	

Oklahoma Municipal Retirement Fund
COMPARISON OF REQUIRED CONTRIBUTION RATES

City	UAL or Surplus	Total rate		Employee Rate	Plan Provisions	Changes
		7/1/01	7/1/02			
Owasso	UAL	6.80%	10.20%	4.26%	Plan AA, normal retirement age 62/30, 5 year vesting, 5 years certain, no COLA	Upgrade
Pawnee	Surplus	6.37%	7.22%	3.75%	Plan CC, normal retirement age 62/30, 10 year vesting, 5 years certain, no COLA	
Perkins	UAL	15.35%	16.01%	3.75%	Plan CC, normal retirement age 65, 10 year vesting, 5 years certain, COLA	
Perry	Surplus	1.69%	3.00%	3.00%	Plan BB, normal retirement age 65, 10 year vesting, 5 years certain, no COLA	
Pond Creek	UAL	10.62%	11.65%	3.00%	Plan A, normal retirement age 62/30, 10 year vesting, 5 years certain, no COLA	
Poteau	Surplus	6.20%	7.72%	3.75%	Plan BB, normal retirement age 65, 10 year vesting, 5 years certain, no COLA	
Ringling	UAL	5.55%	6.26%	2.25%	Plan B, normal retirement age 65, 10 year vesting, 5 years certain, no COLA	
Sallisaw	UAL	17.66%	17.49%	6.00%	Plan AAA, Rule of 80, 10 year vesting, 5 years certain, no COLA	
Seiling	Surplus	3.89%	11.87%	4.90%	Plan AA, normal retirement age 65, 5 year vesting, 5 years certain, no COLA	Upgrade, vesting
Shawnee	Surplus	4.25%	5.52%	0.00%	Plan AA, Rule of 80, 7 year vesting, 10 years certain, COLA	Vesting, ee rate, cert
Spencer	Surplus	0.00%	9.33%	5.25%	Plan AA, normal retirement age 62/30, 7 year vesting, 5 years certain, no COLA	Vesting, hybrid
Spiro	UAL	8.64%	9.41%	3.00%	Plan A, normal retirement age 65, 10 year vesting, 5 years certain, no COLA	
Stilwell	UAL	11.23%	10.85%	3.00%	Plan A, normal retirement age 65, 5 year vesting, 5 years certain, no COLA	
Stratford	Surplus	3.13%	3.27%	1.39%	Plan C, normal retirement age 65, 10 year vesting, 5 years certain, no COLA	
Stroud	UAL	2.52%	8.42%	3.75%	Plan CC, normal retirement age 65, 10 year vesting, 5 years certain, no COLA	Upgrade
Sulphur	UAL	8.05%	13.18%	5.00%	Plan AAA, Rule of 80, 10 year vesting, 5 years certain, no COLA	
Tecumseh	Surplus	4.94%	7.24%	3.00%	Plan BB, normal retirement age 62/30, 5 year vesting, 5 years certain, no COLA	
Thomas	UAL	11.65%	12.69%	5.25%	Plan AA, normal retirement age 65, 10 year vesting, 5 years certain, no COLA	

Oklahoma Municipal Retirement Fund
COMPARISON OF REQUIRED CONTRIBUTION RATES

City	UAL or Surplus	Total rate		Employee Rate	Plan Provisions	Changes
		7/1/01	7/1/02			
Tipton	UAL	7.34%	7.01%	1.50%	Plan C, normal retirement age 65, 10 year vesting, 5 years certain, no COLA	New plan
Tonkawa	Surplus	0.00%	8.72%	3.00%	Plan AAA, normal retirement age 65, 10 year vesting, 5 years certain, no COLA	Upgrade
Velma	UAL	5.65%	6.31%	1.87%	Plan B, normal retirement age 65, 5 year vesting, 5 years certain, no COLA	
Vian	UAL	5.56%	5.42%	1.50%	Plan C, normal retirement age 65, 10 year vesting, 5 years certain, no COLA	
Vinita	UAL	12.34%	16.15%	5.25%	Plan AA, special retirement provisions, 10 year vesting, 5 years certain, COLA	
Wakita	UAL	13.48%	13.68%	2.25%	Plan B, normal retirement age 65, 10 year vesting, 5 years certain, COLA	
Warr Acres	Surplus	0.07%	3.59%	2.13%	Plan AA, special retirement provisions, 10 year vesting, 5 years certain, no COLA	
Watonga	UAL	16.98%	18.51%	4.00%	Plan AAA, normal retirement age 62/30, 10 year vesting, 5 years certain, no COLA	
Waukomis	Surplus	4.93%	8.81%	2.50%	Plan AA, normal retirement age 65, 10 year vesting, 5 years certain, no COLA	
Waurika	Surplus	0.00%	2.97%	2.50%	Plan AAA, normal retirement age 65, 10 year vesting, 5 years certain, no COLA	
Wellston	UAL	7.36%	8.46%	3.00%	Plan A, normal retirement age 65, 10 year vesting, 5 years certain, no COLA	
Westville PWA	UAL	2.75%	5.43%	1.50%	Plan B, normal retirement age 65, 10 year vesting, 5 years certain, no COLA	Upgrade
Wetumka	UAL	19.40%	20.57%	4.50%	Plan BB, Rule of 80, 10 year vesting, 5 years certain, no COLA	Ret age
Wynnewood	UAL	4.32%	3.89%	1.50%	Plan C, normal retirement age 65, 5 year vesting, 5 years certain, no COLA	
Yale	Surplus	7.56%	7.59%	2.00%	Plan AAA, Rule of 80, 10 year vesting, 5 years certain, no COLA	
Yukon	UAL	13.39%	13.14%	0.00%	Plan AA, normal retirement age 62/30, 5 year vesting, 5 years certain, no COLA	
Weighted Avg Contribution Rates		6.93%	9.48%	2.61%		

Averages exclude the City of Bartlesville

II

Comparison of Plan Assets and Obligations

II Comparison of Plan Assets and Obligations

The exhibit in this section shows the plan assets and obligations as of January 1, 2002, disclosure information required under GASB 25, and the number of active and nonactive participants. The following is presented for each plan with active participants:

- The *cost method* used for the plan. The entry age normal (EAN) cost method is used for all plans except Bartlesville, which uses the unit credit (UC) cost method. See Section V for a further description of the actuarial cost methods.
- The *valuation assets*. The valuation assets are generally the actuarial value of assets. For hybrid plans, however, the employee account balances are subtracted from the actuarial value of assets to determine the valuation assets. See Section IV for the development of the actuarial value of assets.
- The *valuation payroll*. This is the total compensation pay in calendar year 2001 to employees who were active participants on January 1, 2002. Pay for employees hired in 2001 is annualized in determining valuation payroll.
- The *present value of benefits (PVB)*. This is the total of all future benefits expected to be paid to plan participants as of January 1, 2002, discounted to the valuation date at the assumed rate of return (8% for the City of Mustang, 7.5% for all other plans). The PVB is shown separately for active and nonactive participants.
- The *actuarial accrued liability*. This amount, required to be disclosed in the employer's financial statements under GASB 25, is the liability for benefits attributable to past service under the cost method used for determining the required contribution rate.
- The *unfunded actuarial accrued liability*. This amount, required to be disclosed in the employer's financial statements under GASB 25, is the excess of the actuarial accrued liability over the valuation assets. If the assets exceed the actuarial accrued liability, the surplus is reported as a negative unfunded liability.
- Two percentages are required to be disclosed in the employer's financial statements under GASB 25. The *funded ratio* is the valuation assets as a percent of the actuarial accrued liability. The other percentage is the *unfunded actuarial accrued liability as a percent of valuation payroll*.
- The number of *active and nonactive participants* included in the valuation. See Section VI for more details on the participants included in the valuation.

Oklahoma Municipal Retirement Fund
COMPARISON OF PLAN ASSETS AND OBLIGATIONS

City	Cost Method	Valuation Assets	Valuation Payroll	PVB Actives	PVB Retired	Actuarial Acc'd Liability (AAL)	Unfunded AAL (UAAL)	Funded Ratio	UAAL as % of Val Pay	Actives	Nonactives
Adair	EAN	56,402	96,277	138,509	8,072	118,578	62,176	47.6%	64.6%	4	2
Altus	EAN	13,417,087	4,101,463	12,089,312	4,346,203	12,883,478	(533,609)	104.1%	(13.0)%	157	52
Alva	EAN	1,927,192	1,250,981	1,766,821	263,427	1,499,163	(428,029)	128.6%	(34.2)%	59	5
Antlers	EAN	304,563	466,255	493,808	113,688	409,143	104,580	74.4%	22.4%	28	10
Bartlesville	UC	1,921,264	5,824,388	5,665,049	1,619,508	3,272,152	1,350,888	58.7%	23.2%	178	40
Bethany	EAN	11,265,188	2,586,092	11,294,744	2,936,595	11,077,903	(187,285)	101.7%	(7.2)%	76	42
Bethany Warr Acres	EAN	1,074,170	336,001	1,285,312	47,655	1,049,784	(24,385)	102.3%	(7.3)%	10	1
Billings	EAN	59,446	65,583	64,364	53,071	71,643	12,197	83.0%	18.6%	3	2
Binger	EAN	13,854	74,992	60,278	0	33,344	19,491	41.5%	26.0%	3	0
Blackwell	EAN	4,965,526	1,373,437	4,359,667	1,548,861	4,524,555	(440,971)	109.7%	(32.1)%	57	29
Blair	EAN	65,971	108,000	162,145	0	79,522	13,551	83.0%	12.5%	5	0
Boise City	EAN	730,068	270,871	812,521	283,397	901,282	171,214	81.0%	63.2%	12	5
Braman	EAN	22,949	46,997	56,382	0	30,815	7,866	74.5%	16.7%	2	0
Bristow	EAN	939,017	511,156	1,490,215	384,071	1,165,496	226,479	80.6%	44.3%	25	12
Broken Bow	EAN	807,292	1,038,151	1,348,547	238,518	1,106,227	298,936	73.0%	28.8%	46	9
Buffalo	EAN	941,060	309,895	915,915	232,687	811,831	(129,229)	115.9%	(41.7)%	12	2
Burns Flat	EAN	36,813	144,320	110,108	13,066	90,529	53,716	40.7%	37.2%	7	1
Calera	EAN	69,429	257,904	203,648	31,500	182,282	112,853	38.1%	43.8%	14	2

Oklahoma Municipal Retirement Fund
COMPARISON OF PLAN ASSETS AND OBLIGATIONS

City	Cost Method	Valuation Assets	Valuation Payroll	PVB Actives	PVB Retired	Actuarial Acc'd Liability (AAL)	Unfunded AAL (UAAL)	Funded Ratio	UAAL as % of Val Pay	Actives	Nonactives
Central OK MCD	EAN	556,901	169,744	447,147	446,441	676,338	119,438	82.3%	70.4%	7	4
Chandler	EAN	732,178	594,339	913,791	322,769	791,294	59,116	92.5%	9.9%	24	11
Chickasha	EAN	11,178,712	1,611,684	7,459,529	2,811,394	8,120,671	(3,058,041)	137.7%	(189.7)%	77	48
Claremore	EAN	8,064,734	5,243,650	13,306,682	1,377,692	9,826,783	1,762,049	82.1%	33.6%	196	26
Cleo Springs	EAN	38,436	17,088	61,465	0	54,637	16,200	70.3%	94.8%	1	0
Cleveland	EAN	1,321,017	380,629	1,067,265	535,781	1,234,104	(86,913)	107.0%	(22.8)%	15	11
Clinton	EAN	7,827,938	1,328,492	4,131,288	2,873,803	5,337,831	(2,490,107)	146.7%	(187.4)%	58	33
Collinsville	EAN	1,705,098	875,169	1,770,570	371,041	1,494,431	(210,667)	114.1%	(24.1)%	36	10
Cordell	EAN	3,118,557	779,484	2,748,310	837,945	2,722,622	(395,936)	114.5%	(50.8)%	32	14
Cushing	EAN	8,701,459	2,428,433	7,713,790	3,749,778	9,743,403	1,041,944	89.3%	42.9%	96	70
Davis	EAN	809,408	745,528	1,363,640	50,335	947,219	137,811	85.5%	18.5%	37	1
Del City	EAN	12,589,613	2,470,612	10,580,934	2,865,233	10,518,083	(2,071,530)	119.7%	(83.8)%	87	30
Dewey	EAN	1,274,055	342,541	614,869	559,051	900,907	(373,149)	141.4%	(108.9)%	18	10
Drumright	EAN	1,103,150	490,426	909,391	790,778	1,291,566	188,416	85.4%	38.4%	21	11
Durant	EAN	10,478,536	2,915,155	8,311,942	3,133,260	7,924,677	(2,553,860)	132.2%	(87.6)%	120	37
Eufaula	EAN	510,967	526,836	759,395	178,566	586,296	75,330	87.2%	14.3%	22	4
Foss Reservoir	EAN	393,031	167,366	524,405	62,701	515,935	122,905	76.2%	73.4%	6	2
Frederick	EAN	1,405,587	879,746	2,169,367	679,542	2,255,100	849,514	62.3%	96.6%	42	15

Oklahoma Municipal Retirement Fund
COMPARISON OF PLAN ASSETS AND OBLIGATIONS

City	Cost Method	Valuation Assets	Valuation Payroll	PVB Actives	PVB Retired	Actuarial Acc'd Liability (AAL)	Unfunded AAL (UAAL)	Funded Ratio	UAAL as % of Val Pay	Actives	Nonactives
Garber	EAN	5,268	79,726	33,832	0	14,848	9,580	35.5%	12.0%	4	0
Geary	EAN	482,731	200,205	354,098	217,017	427,712	(55,019)	112.9%	(27.5)%	12	10
Granite	EAN	771,247	203,279	562,413	358,134	606,668	(164,579)	127.1%	(81.0)%	9	2
Guthrie	EAN	3,447,413	1,412,250	3,580,020	279,655	2,599,669	(847,744)	132.6%	(60.0)%	64	12
Guymon	EAN	3,313,767	2,191,015	4,282,945	423,982	3,385,899	72,131	97.9%	3.3%	84	21
Harrah	EAN	491,674	353,607	686,517	165,700	619,075	127,401	79.4%	36.0%	13	4
Healdton	EAN	539,954	340,407	635,470	125,910	474,692	(65,262)	113.7%	(19.2)%	17	2
Henryetta	EAN	2,138,141	986,134	1,728,375	692,982	1,886,616	(251,526)	113.3%	(25.5)%	47	25
Hooker	EAN	130,905	243,791	318,938	24,154	207,629	76,724	63.0%	31.5%	11	2
Hulbert	EAN	8,970	248,458	267,842	0	211,701	202,731	4.2%	81.6%	13	0
Hydro	EAN	206,573	128,803	199,010	89,114	218,637	12,064	94.5%	9.4%	7	2
Kansas	EAN	17,805	105,565	98,926	0	79,886	62,081	22.3%	58.8%	5	0
Kingston	EAN	169,795	196,296	320,402	1,205	257,302	87,508	66.0%	44.6%	10	0
Krebs	EAN	43,609	214,863	154,111	71,224	150,356	106,747	29.0%	49.7%	12	2
Laverne	EAN	601,613	428,747	627,139	269,572	693,619	92,006	86.7%	21.5%	19	6
Lindsay	EAN	2,864,042	837,777	2,799,115	834,434	2,868,584	4,542	99.8%	0.5%	36	13
Madill	EAN	1,168,250	587,795	1,017,669	423,575	1,061,264	(106,986)	110.1%	(18.2)%	25	7
Mannford	EAN	1,282,846	608,804	1,259,714	1,047,890	1,680,473	377,627	77.3%	62.0%	25	11

Oklahoma Municipal Retirement Fund
COMPARISON OF PLAN ASSETS AND OBLIGATIONS

City	Cost Method	Valuation Assets	Valuation Payroll	PVB Actives	PVB Retired	Actuarial Acc'd Liability (AAL)	Unfunded AAL (UAAL)	Funded Ratio	UAAL as % of Val Pay	Actives	Nonactives
Marietta	EAN	761,529	347,331	686,994	225,212	671,287	(90,242)	113.4%	(26.0)%	16	8
Marietta PWA	EAN	411,178	143,349	370,952	202,183	503,510	92,331	81.7%	64.4%	5	2
Mcloud	EAN	148,348	312,950	287,530	94,927	205,546	57,198	72.2%	18.3%	17	7
Medford	EAN	915,855	227,785	640,011	568,238	943,817	27,962	97.0%	12.3%	10	5
Meeker	EAN	237,546	196,077	247,807	36,093	174,432	(63,114)	136.2%	(32.2)%	10	5
Mooreland	EAN	685,055	131,905	505,603	156,712	583,439	(101,616)	117.4%	(77.0)%	5	3
Mountain Park MCD	EAN	362,413	75,326	365,391	35,666	370,382	7,969	97.8%	10.6%	3	1
Muldrow	EAN	458,790	589,024	899,410	48,099	533,834	75,044	85.9%	12.7%	25	3
Mustang	EAN	1,193,144	790,072	2,041,844	269,938	1,494,017	300,874	79.9%	38.1%	23	6
Newkirk	EAN	1,061,609	364,959	972,094	590,160	1,217,081	155,473	87.2%	42.6%	15	9
Nichols Hills	EAN	4,120,131	924,618	3,718,456	1,303,013	3,977,364	(142,767)	103.6%	(15.4)%	32	18
Noble	EAN	619,495	381,398	744,591	283,062	813,994	194,498	76.1%	51.0%	17	9
Nowata	EAN	1,042,793	440,280	822,739	530,573	757,777	(285,016)	137.6%	(64.7)%	23	18
Oilton	EAN	152,470	176,845	163,574	31,508	129,500	(22,970)	117.7%	(13.0)%	10	1
Okeene	EAN	496,352	130,759	325,298	221,724	385,681	(112,671)	129.2%	(86.2)%	7	6
Okemah	EAN	211,378	479,922	428,653	49,655	317,154	105,777	66.6%	22.0%	28	3
Oklahoma Municipal League	EAN	3,327,021	915,832	3,388,641	464,469	2,809,770	(517,251)	118.4%	(56.5)%	22	13
Okmulgee	EAN	8,918,039	2,908,767	7,968,298	1,646,143	6,239,849	(2,678,191)	142.9%	(92.1)%	119	27

Oklahoma Municipal Retirement Fund
COMPARISON OF PLAN ASSETS AND OBLIGATIONS

City	Cost Method	Valuation Assets	Valuation Payroll	PVB Actives	PVB Retired	Actuarial Acc'd Liability (AAL)	Unfunded AAL (UAAL)	Funded Ratio	UAAL as % of Val Pay	Actives	Nonactives
Owasso	EAN	3,558,663	3,420,346	5,601,888	719,817	3,731,560	172,897	95.4%	5.1%	95	22
Pawnee	EAN	1,099,303	609,581	982,997	486,948	1,030,113	(69,190)	106.7%	(11.4)%	25	10
Perkins	EAN	345,117	232,560	391,872	296,532	511,005	165,887	67.5%	71.3%	9	3
Perry	EAN	2,501,840	1,190,793	2,386,671	355,259	1,941,257	(560,583)	128.9%	(47.1)%	61	12
Pond Creek	EAN	344,921	232,452	505,385	119,064	549,274	204,353	62.8%	87.9%	11	3
Poteau	EAN	3,188,594	1,165,385	2,579,481	1,353,923	3,075,426	(113,168)	103.7%	(9.7)%	59	23
Ringling	EAN	89,110	186,444	150,807	48,480	111,468	22,358	79.9%	12.0%	8	4
Sallisaw	EAN	5,979,638	2,052,274	6,182,165	2,925,535	7,410,214	1,430,577	80.7%	69.7%	87	34
Seiling	EAN	471,169	188,056	440,208	156,521	471,144	(25)	100.0%	(0.0)%	8	4
Shawnee	EAN	21,491,773	4,692,782	19,297,931	4,112,407	18,552,363	(2,939,410)	115.8%	(62.6)%	165	46
Spencer	EAN	793,255	219,141	409,559	446,781	544,387	(248,869)	145.7%	(113.6)%	11	8
Spiro	EAN	433,666	435,323	741,539	88,446	635,647	201,982	68.2%	46.4%	18	5
Stilwell	EAN	1,061,863	1,939,940	2,995,808	134,201	2,356,507	1,294,644	45.1%	66.7%	81	5
Stratford	EAN	34,235	253,799	103,867	608	30,889	(3,346)	110.8%	(1.3)%	13	0
Stroud	EAN	2,125,573	874,425	1,879,243	824,983	2,264,525	138,952	93.9%	15.9%	43	13
Sulphur	EAN	1,581,974	577,130	1,904,053	270,094	1,647,139	65,165	96.0%	11.3%	24	6
Tecumseh	EAN	1,291,779	883,030	1,661,336	124,175	1,105,851	(185,928)	116.8%	(21.1)%	45	8
Thomas	EAN	539,501	171,726	526,285	197,524	621,934	82,434	86.7%	48.0%	6	4

Oklahoma Municipal Retirement Fund
COMPARISON OF PLAN ASSETS AND OBLIGATIONS

City	Cost Method	Valuation Assets	Valuation Payroll	PVB Actives	PVB Retired	Actuarial Acc'd Liability (AAL)	Unfunded AAL (UAAL)	Funded Ratio	UAAL as % of Val Pay	Actives	Nonactives
Tipton	EAN	8,926	116,091	77,337	17,261	62,044	53,118	14.4%	45.8%	7	1
Tonkawa	EAN	1,694,803	452,277	1,305,877	719,662	1,555,656	(139,147)	108.9%	(30.8)%	20	18
Velma	EAN	47,656	82,650	91,206	3,062	52,751	5,095	90.3%	6.2%	5	1
Vian	EAN	33,641	214,740	124,889	30,843	104,580	70,939	32.2%	33.0%	10	2
Vinita	EAN	3,940,396	1,204,182	4,203,782	1,097,784	3,985,164	44,768	98.9%	3.7%	54	20
Wakita	EAN	36,143	72,361	142,984	0	104,499	68,356	34.6%	94.5%	3	0
Warr Acres	EAN	4,256,242	1,113,808	3,311,680	1,205,854	3,756,810	(499,432)	113.3%	(44.8)%	39	14
Watonga	EAN	3,192,761	720,721	2,325,032	2,054,891	3,634,354	441,592	87.8%	61.3%	30	16
Waukomis	EAN	315,393	136,658	353,371	51,536	306,837	(8,556)	102.8%	(6.3)%	7	2
Waurika	EAN	567,256	248,819	584,939	36,951	343,195	(224,061)	165.3%	(90.0)%	13	2
Wellston	EAN	181,005	217,207	296,738	43,968	217,922	36,917	83.1%	17.0%	11	3
Westville PWA	EAN	71,068	196,702	181,778	0	128,047	56,979	55.5%	29.0%	9	0
Wetumka	EAN	483,323	341,175	951,645	219,869	994,382	511,059	48.6%	149.8%	18	9
Wynnewood	EAN	202,508	522,657	310,663	51,270	223,826	21,318	90.5%	4.1%	25	4
Yale	EAN	1,188,547	377,559	1,306,663	101,421	1,085,995	(102,552)	109.4%	(27.2)%	20	4
Yukon	EAN	7,706,337	3,037,108	6,356,526	4,925,081	8,806,738	1,100,401	87.5%	36.2%	104	57
Total		224,094,398	88,114,309	221,341,750	68,769,102	215,756,193	(8,338,205)	103.9%	(9.5)%	3,537	1,177

Totals exclude plans with only nonactive participants.

III

Funded Status of Plans with No Active Participants

III Funded Status of Plans with No Active Participants

There are 12 plans that no longer have employees accruing benefits under the plan, but still have assets in the OMRF Master Trust for paying benefits to nonactive participants. The following pages show key financial information for each of these plans:

- The number of participants due benefits from the Trust, both in total and by category. The categories of nonactive participants are retirees receiving benefits, beneficiaries of deceased participants entitled to benefits, participants receiving disability benefits, and vested participants entitled to future benefits. See Section VI for more details on the nonactive participants.
- The *present value of benefits*. This is the total of all future benefits expected to be paid to plan participants as of January 1, 2002, discounted to the valuation date at the assumed rate of return (7.5%). The present value of benefits is shown separately by category of nonactive participants. This amount should be disclosed as the actuarial accrued liability in the employer's financial statements under GASB 25.
- The *market value of assets*. This amount should be disclosed as the actuarial value of assets in the employer's financial statements under GASB 25. See Section IV for more detail on the trust fund activity during 2001.
- The *deficiency (or surplus)*. This is the excess of the plan obligations, measured as the present value of benefits, over the market value of assets. If the assets exceed the obligations, the surplus is reported as a negative amount. This amount should be disclosed as the unfunded actuarial accrued liability in the employer's financial statements under GASB 25.
- The *funded percentage*. This is the market value of assets as a percent of the plan obligations. This amount should be disclosed as the funded ratio in the employer's financial statements under GASB 25.
- The *plan funding requirement*. If plan obligations exceed assets, the annual payment required to amortize the deficiency over a specified number of years is reported.

**Oklahoma Municipal Retirement Fund
Employee Retirement System of Ardmore, Oklahoma**

FUNDED STATUS OF THE PLAN AS OF JANUARY 1, 2001

	<u>Count</u>	<u>Present Value of Benefits</u>
Retirees	12	\$302,113
Survivors	6	204,658
Disabled	4	102,624
Deferred Vested	<u>1</u>	<u>34,425</u>
Totals	23	\$643,820
Market Value of Assets		\$874,257
Deficiency (Surplus)		(\$230,437)
Funded Percentage		136%

Plan assets are currently sufficient.

Plan Funding Requirement

Annual contribution payable for 10 years commencing July 1, 2001 sufficient to amortize the funding deficiency	N/A
---	------------

Actuarial Basis

Interest rate	7.5 % per annum
Mortality	UP 94 mortality (projected)
Cost of Living Adjustments	3% per annum
Retirement Age for Deferred Vested	65

**Oklahoma Municipal Retirement Fund
Employee Retirement System of Broken Arrow, Oklahoma**

FUNDED STATUS OF THE PLAN AS OF JANUARY 1, 2001

	<u>Count</u>	<u>Present Value of Benefits</u>
Retirees	7	\$319,780
Survivors	6	247,223
Disabled	1	27,051
Deferred Vested	<u>0</u>	<u>0</u>
Totals	14	\$594,054
Market Value of Assets		\$1,918,674
Deficiency (Surplus)		(\$1,324,620)
Funded Percentage		323%

Plan assets are currently sufficient.

Plan Funding Requirement

Annual contribution payable for 10 years commencing July 1, 2001 sufficient to amortize the funding deficiency	N/A
--	------------

Actuarial Basis

Interest rate	7.5 % per annum
Mortality	UP 94 mortality (projected)
Cost of Living Adjustments	none
Retirement Age for Deferred Vested	65

**Oklahoma Municipal Retirement Fund
Employee Retirement System of Chouteau, Oklahoma**

FUNDED STATUS OF THE PLAN AS OF JANUARY 1, 2001

	<u>Count</u>	<u>Present Value of Benefits</u>
Retirees	2	\$21,687
Survivors	0	0
Disabled	0	0
Deferred Vested	<u>0</u>	<u>0</u>
Totals	2	\$21,687
Market Value of Assets		\$29,325
Deficiency (Surplus)		(\$7,638)
Funded Percentage		135%

Plan assets are currently sufficient.

Plan Funding Requirement

Annual contribution payable for 10 years commencing July 1, 2001 sufficient to amortize the funding deficiency	N/A
--	------------

Actuarial Basis

Interest rate	7.5 % per annum
Mortality	UP 94 mortality (projected)
Cost of Living Adjustments	none
Retirement Age for Deferred Vested	65

**Oklahoma Municipal Retirement Fund
Employee Retirement System of Fairfax, Oklahoma**

FUNDED STATUS OF THE PLAN AS OF JANUARY 1, 2001

	Count	Present Value of Benefits
Retirees	4	\$52,964
Survivors	0	0
Disabled	0	0
Deferred Vested	1	12,694
Totals	5	\$65,658
Market Value of Assets		\$177,449
Deficiency (Surplus)		(\$111,791)
Funded Percentage		270%

Plan assets are currently sufficient.

Plan Funding Requirement

Annual contribution payable for 10 years commencing July 1, 2001 sufficient to amortize the funding deficiency	N/A
--	------------

Actuarial Basis

Interest rate	7.5 % per annum
Mortality	UP 94 mortality (projected)
Cost of Living Adjustments	none
Retirement Age for Deferred Vested	65

**Oklahoma Municipal Retirement Fund
Employee Retirement System of Fairview, Oklahoma**

FUNDED STATUS OF THE PLAN AS OF JANUARY 1, 2001

	<u>Count</u>	<u>Present Value of Benefits</u>
Retirees	4	\$298,548
Survivors	1	29,778
Disabled	0	0
Deferred Vested	<u>1</u>	<u>10,492</u>
Totals	6	\$338,818
Market Value of Assets		\$475,860
Deficiency (Surplus)		(\$137,042)
Funded Percentage		140%

Plan assets are currently sufficient.

Plan Funding Requirement

Annual contribution payable for 10 years commencing July 1, 2001 sufficient to amortize the funding deficiency	N/A
--	------------

Actuarial Basis

Interest rate	7.5 % per annum
Mortality	UP 94 mortality (projected)
Cost of Living Adjustments	3% per annum
Retirement Age for Deferred Vested	65

**Oklahoma Municipal Retirement Fund
Employee Retirement System of Muskogee, Oklahoma**

FUNDED STATUS OF THE PLAN AS OF JANUARY 1, 2001

	<u>Count</u>	<u>Present Value of Benefits</u>
Retirees	23	\$134,189
Survivors	3	8,218
Disabled	0	0
Deferred Vested	<u>0</u>	<u>0</u>
Totals	26	\$142,407
Market Value of Assets		\$54,721
Deficiency (Surplus)		\$87,686
Funded Percentage		38%

Plan assets are not currently sufficient.

Plan Funding Requirement

Annual contribution payable for 5 years commencing July 1, 2001 sufficient to amortize the funding deficiency	\$21,673
--	-----------------

Actuarial Basis

Interest rate	7.5 % per annum
Mortality	UP 94 mortality (projected)
Cost of Living Adjustments	3% per annum
Retirement Age for Deferred Vested	65

**Oklahoma Municipal Retirement Fund
Employee Retirement System of Norman, Oklahoma**

FUNDED STATUS OF THE PLAN AS OF JANUARY 1, 2001

	Count	Present Value of Benefits
Retirees	26	\$1,674,085
Survivors	0	0
Disabled	0	0
Deferred Vested	0	0
Totals	26	\$1,674,085
Market Value of Assets		\$1,547,003
Deficiency (Surplus)		\$127,082
Funded Percentage		92%

Plan assets are not currently sufficient.

Plan Funding Requirement

Annual contribution payable for 10 years commencing July 1, 2001 sufficient to amortize the funding deficiency	\$18,514
--	-----------------

Actuarial Basis

Interest rate	7.5 % per annum
Mortality	UP 94 mortality (projected)
Cost of Living Adjustments	none
Retirement Age for Deferred Vested	65

**Oklahoma Municipal Retirement Fund
Employee Retirement System of Prague, Oklahoma**

FUNDED STATUS OF THE PLAN AS OF JANUARY 1, 2001

	Count	Present Value of Benefits
Retirees	0	\$0
Survivors	1	33,015
Disabled	0	0
Deferred Vested	0	0
Totals	1	\$33,015
Market Value of Assets		\$54,744
Deficiency (Surplus)		(\$21,729)
Funded Percentage		166%

Plan assets are currently sufficient.

Plan Funding Requirement

Annual contribution payable for 10 years commencing July 1, 2001 sufficient to amortize the funding deficiency	N/A
--	------------

Actuarial Basis

Interest rate	7.5 % per annum
Mortality	UP 94 mortality (projected)
Cost of Living Adjustments	none
Retirement Age for Deferred Vested	65

**Oklahoma Municipal Retirement Fund
Employee Retirement System of Skiatook, Oklahoma**

FUNDED STATUS OF THE PLAN AS OF JANUARY 1, 2001

	Count	Present Value of Benefits
Retirees	8	\$295,976
Survivors	3	105,196
Disabled	0	0
Deferred Vested	0	0
Totals	11	\$401,172
 Market Value of Assets		 \$291,805
 Deficiency (Surplus)		 \$109,367
 Funded Percentage		 73%

Plan assets are not currently sufficient.

Plan Funding Requirement

Annual contribution payable for 10 years commencing July 1, 2001 sufficient to amortize the funding deficiency	\$15,933
--	-----------------

Actuarial Basis

Interest rate	7.5 % per annum
Mortality	UP 94 mortality (projected)
Cost of Living Adjustments	2% per annum
Retirement Age for Deferred Vested	65

**Oklahoma Municipal Retirement Fund
Employee Retirement System of Stillwater, Oklahoma**

FUNDED STATUS OF THE PLAN AS OF JANUARY 1, 2001

	<u>Count</u>	<u>Present Value of Benefits</u>
Retirees	17	\$642,196
Survivors	2	40,624
Disabled	0	0
Deferred Vested	<u>1</u>	<u>26,193</u>
Totals	20	\$709,013
Market Value of Assets		\$4,289,704
Deficiency (Surplus)		(\$3,580,691)
Funded Percentage		605%

Plan assets are currently sufficient.

Plan Funding Requirement

Annual contribution payable for 10 years commencing July 1, 2001 sufficient to amortize the funding deficiency	N/A
---	------------

Actuarial Basis

Interest rate	7.5 % per annum
Mortality	UP 94 mortality (projected)
Cost of Living Adjustments	3% per annum
Retirement Age for Deferred Vested	65

**Oklahoma Municipal Retirement Fund
Employee Retirement System of Stillwater Medical Center, Oklahoma**

FUNDED STATUS OF THE PLAN AS OF JANUARY 1, 2001

	<u>Count</u>	<u>Present Value of Benefits</u>
Retirees	9	\$164,628
Survivors	0	0
Disabled	0	0
Deferred Vested	<u>0</u>	<u>0</u>
Totals	9	\$164,628
Market Value of Assets		\$530,288
Deficiency (Surplus)		(\$365,660)
Funded Percentage		322%

Plan assets are currently sufficient.

Plan Funding Requirement

Annual contribution payable for 10 years commencing July 1, 2001 sufficient to amortize the funding deficiency	N/A
---	------------

Actuarial Basis

Interest rate	7.5 % per annum
Mortality	UP 94 mortality (projected)
Cost of Living Adjustments	3% per annum
Retirement Age for Deferred Vested	65

**Oklahoma Municipal Retirement Fund
Employee Retirement System of Weatherford, Oklahoma**

FUNDED STATUS OF THE PLAN AS OF JANUARY 1, 2001

	Count	Present Value of Benefits
Retirees	4	\$200,508
Survivors	1	52,275
Disabled	0	0
Deferred Vested	1	35,674
Totals	6	\$288,457
Market Value of Assets		\$576,558
Deficiency (Surplus)		(\$288,101)
Funded Percentage		200%

Plan assets are currently sufficient.

Plan Funding Requirement

Annual contribution payable for 10 years commencing July 1, 2001 sufficient to amortize the funding deficiency	N/A
--	------------

Actuarial Basis

Interest rate	7.5 % per annum
Mortality	UP 94 mortality (projected)
Cost of Living Adjustments	none
Retirement Age for Deferred Vested	65

IV

Development of the Actuarial Value of Assets

IV Development of the Actuarial Value of Assets

This section shows the development of the actuarial value of assets as of January 1, 2002.

For plans with active participants, the actuarial value of assets is related to market value, but smoothed to reduce the volatility of contribution requirements. The actuarial value of assets is developed as follows:

- A preliminary actuarial value of assets is determined by adjusting the prior year's value for cash flows and interest at the valuation rate.
- This amount is compared to the current market value to determine the market value adjustment. This adjustment is one fourth of the difference between the current market value and the preliminary actuarial value.
- The actuarial value of assets is equal to the preliminary actuarial value plus the market value adjustment.

For plans with only nonactive participants, the actuarial value of assets is equal to the current market value. The market value adjustment for these plans is the total difference between the current market value and the preliminary actuarial value.

For most plans, the actuarial value of assets also serves as the valuation assets. In a hybrid plan, however, employee contributions are used to provide additional benefits, and these amounts are not available to pay the regular retirement benefits. For plans that have adopted the hybrid provision, therefore, the total value of the employee account balances (accumulated employee contributions with interest) is subtracted from the actuarial value of assets to determine valuation assets.

Oklahoma Municipal Retirement Fund

Exhibit 4

DEVELOPMENT OF THE ACTUARIAL VALUE OF ASSETS

City	Market Value of Assets as of 1/1/00	Actuarial Value of Assets as of 1/1/00	Market Value of Assets as of 1/1/01	Actuarial Value of Assets as of 1/1/01	Contributions			Assumed Yield at Valuation Rate (7.5%)	Preliminary Actuarial Value	Market Value of Assets as of 1/1/02	Market Value Adjustment	Actuarial Value of Assets as of 1/1/02
					Employer	Employee	Distributions					
Adair	45,665	46,286	45,665	46,286	6,107	2,166	0	3,782	58,341	50,587	(1,939)	56,402
Altus	13,156,670	13,201,846	13,156,670	13,201,846	154,298	155,793	(582,689)	979,916	13,909,164	11,940,855	(492,077)	13,417,087
Alva	1,912,062	1,920,102	1,912,062	1,920,102	0	0	(74,990)	141,196	1,986,307	1,749,844	(59,116)	1,927,192
Antlers	269,361	272,175	269,361	272,175	22,298	10,255	(10,457)	21,242	315,513	271,712	(10,950)	304,563
Ardmore *	1,036,944	1,036,944	1,036,944	1,036,944	0	0	(88,639)	74,447	1,022,752	874,257	(148,494)	874,257
Bartlesville	1,062,620	1,020,473	1,430,821	1,469,623	518,867	0	(124,658)	125,005	1,988,837	1,718,544	(67,573)	1,921,264
Bethany *	12,176,627	10,960,162	12,176,627	12,730,139	239,586	112,726	(676,006)	1,075,370	13,481,816	10,966,070	(628,936)	12,852,879
Bethany-Warr Acres	1,010,610	1,017,462	1,010,610	1,017,462	11,528	7,479	0	77,022	1,113,492	956,205	(39,322)	1,074,170
Billings	83,641	84,074	83,641	84,074	4,621	2,032	(33,906)	5,284	62,104	51,473	(2,658)	59,446
Binger	10,063	10,321	10,063	10,321	2,328	1,456	(665)	891	14,332	12,418	(478)	13,854
Blackwell	6,215,352	6,178,098	6,215,352	6,178,098	16,912	58,594	(1,500,889)	409,906	5,162,620	4,374,243	(197,094)	4,965,526
Blair	53,481	54,235	53,481	54,235	5,915	3,683	0	4,428	68,280	59,104	(2,289)	65,971
Boise City	684,088	689,137	684,088	689,137	40,795	0	(25,432)	52,261	756,762	649,988	(26,693)	730,068
Braman	15,105	15,510	15,105	15,510	5,372	1,404	0	1,417	23,704	20,684	(755)	22,949
Bristow	871,782	880,248	871,782	880,248	69,219	25,446	(68,127)	67,014	973,800	834,667	(34,783)	939,017
Broken Arrow *	2,154,668	2,154,668	2,154,668	2,154,668	0	0	(80,874)	158,567	2,232,361	1,918,674	(313,687)	1,918,674
Broken Bow	700,586	707,194	700,586	707,194	82,159	30,809	(40,448)	55,759	835,474	722,745	(28,182)	807,292
Buffalo	914,114	918,318	914,114	918,318	11,090	11,255	(33,305)	68,463	975,821	836,778	(34,761)	941,060
Burns Flat	26,765	27,503	26,765	27,503	6,095	2,126	0	2,371	38,096	32,965	(1,283)	36,813
Calera	53,504	54,709	53,504	54,709	12,563	3,746	(3,701)	4,576	71,892	62,040	(2,463)	69,429
Central OK MCD	517,606	521,828	517,606	521,828	39,170	10,829	(34,291)	39,726	577,262	495,818	(20,361)	556,901
Chandler	682,907	687,711	682,907	687,711	28,932	20,587	(30,581)	52,288	758,937	651,904	(26,758)	732,178
Chickasha	10,945,677	10,987,435	10,945,677	10,987,435	0	49,056	(261,605)	816,087	11,590,972	9,941,932	(412,260)	11,178,712
Chouteau *	34,105	34,105	34,105	34,105	0	0	(2,336)	2,470	34,239	29,325	(4,914)	29,325
Claremore	7,571,474	7,496,446	7,571,474	7,496,446	386,642	173,334	(302,756)	571,879	8,325,546	7,282,299	(260,812)	8,064,734
Cleo Springs	31,592	32,061	31,592	32,061	4,483	651	0	2,597	39,792	34,370	(1,356)	38,436

Oklahoma Municipal Retirement Fund

Exhibit 4

DEVELOPMENT OF THE ACTUARIAL VALUE OF ASSETS

City	Market Value of Assets as of 1/1/00	Actuarial Value of Assets as of 1/1/00	Market Value of Assets as of 1/1/01	Actuarial Value of Assets as of 1/1/01	Contributions			Assumed Yield at Valuation Rate (7.5%)	Preliminary Actuarial Value	Market Value of Assets as of 1/1/02	Market Value Adjustment	Actuarial Value of Assets as of 1/1/02
					Employer	Employee	Distributions					
Cleveland	1,286,418	1,294,048	1,286,418	1,294,048	38,309	0	(58,344)	96,302	1,370,315	1,173,124	(49,298)	1,321,017
Clinton	7,674,002	7,724,812	7,674,002	7,724,812	0	77,686	(252,651)	572,800	8,122,647	6,943,811	(294,709)	7,827,938
Collinsville	1,670,959	1,641,859	1,670,959	1,641,859	22,081	18,765	(46,811)	122,916	1,758,811	1,543,960	(53,713)	1,705,098
Cordell	3,035,554	3,051,678	3,035,554	3,051,678	16,569	0	(60,783)	227,218	3,234,682	2,770,184	(116,124)	3,118,557
Cushing	8,428,211	8,473,639	8,428,211	8,473,639	292,621	0	(375,745)	632,406	9,022,921	7,737,073	(321,462)	8,701,459
Davis	735,199	740,380	735,199	740,380	30,762	24,152	(13,951)	57,065	838,408	722,409	(29,000)	809,408
Del City *	12,714,421	12,516,298	12,714,421	12,516,298	3,883	0	(487,777)	1,493,800	13,526,203	11,327,663	(549,635)	12,976,568
Dewey	1,260,811	1,265,352	1,260,811	1,265,352	0	12,081	(49,657)	93,492	1,321,269	1,132,415	(47,214)	1,274,055
Drumright	1,094,791	1,100,231	1,094,791	1,100,231	44,497	19,401	(100,845)	81,132	1,144,416	979,352	(41,266)	1,103,150
Durant	10,404,467	10,443,164	10,404,467	10,443,164	0	0	(345,045)	770,298	10,868,417	9,308,894	(389,881)	10,478,536
Eufaula	471,179	476,003	471,179	476,003	28,889	14,961	(26,318)	36,358	529,892	454,190	(18,926)	510,967
Fairfax *	199,063	199,063	199,063	199,063	0	0	(7,276)	14,657	206,445	177,449	(28,996)	177,449
Fairview *	548,284	548,284	548,284	548,284	0	0	(33,073)	39,881	555,093	475,860	(79,233)	475,860
Foss Reservoir	368,529	370,422	368,529	370,422	12,632	6,003	(9,924)	28,108	407,241	350,400	(14,210)	393,031
Frederick	1,290,523	1,299,298	1,290,523	1,299,298	97,215	32,407	(72,615)	99,585	1,455,891	1,254,674	(50,304)	1,405,587
Garber	218	222	218	222	3,864	1,087	(45)	201	5,329	5,083	(62)	5,268
Geary	585,887	586,719	585,887	586,719	7,508	3,216	(138,161)	39,225	498,507	435,403	(15,776)	482,731
Granite	759,429	762,521	759,429	762,521	0	7,578	(26,731)	56,471	799,839	685,472	(28,592)	771,247
Guthrie	3,521,931	3,498,876	3,521,931	3,498,876	10,529	49,600	(251,000)	255,258	3,563,264	3,099,862	(115,850)	3,447,413
Guymon	3,086,716	3,099,379	3,086,716	3,099,379	131,204	0	(34,708)	236,072	3,431,947	2,959,227	(118,180)	3,313,767
Harrah	450,195	455,044	450,195	455,044	25,696	13,349	(19,195)	34,873	509,766	437,398	(18,092)	491,674
Healdton	514,443	516,457	514,443	516,457	4,893	13,429	(14,157)	38,890	559,512	481,282	(19,558)	539,954
Henryetta	2,197,299	2,207,095	2,197,299	2,207,095	24,952	6,652	(177,736)	160,052	2,221,015	1,889,519	(82,874)	2,138,141
Hooker	100,418	102,342	100,418	102,342	18,774	7,103	(1,458)	8,591	135,352	117,564	(4,447)	130,905
Hulbert					6,346	2,329	0	325	9,001	8,878	(31)	8,970
Hydro	199,025	200,286	199,025	200,286	7,055	3,747	(11,849)	14,982	214,221	183,628	(7,648)	206,573

Oklahoma Municipal Retirement Fund

Exhibit 4

DEVELOPMENT OF THE ACTUARIAL VALUE OF ASSETS

City	Market Value of Assets as of 1/1/00	Actuarial Value of Assets as of 1/1/00	Market Value of Assets as of 1/1/01	Actuarial Value of Assets as of 1/1/01	Contributions			Assumed Yield at Valuation Rate (7.5%)	Preliminary Actuarial Value	Market Value of Assets as of 1/1/02	Market Value Adjustment	Actuarial Value of Assets as of 1/1/02
					Employer	Employee	Distributions					
Kansas	10,997	11,353	10,997	11,353	5,073	1,258	(390)		18,369	16,115	(563)	17,805
Kingston	149,522	151,590	149,522	151,590	10,122	3,725	(1,273)	11,841	176,005	151,164	(6,210)	169,795
Krebs	16,108	16,707	16,108	16,707	19,290	7,359	(892)		44,684	40,384	(1,075)	43,609
Laverne	579,908	578,652	579,908	578,652	19,325	12,157	(30,913)	43,420	622,642	538,527	(21,029)	601,613
Lindsay	2,737,066	2,758,276	2,737,066	2,758,276	71,424	31,380	(97,304)	207,077	2,970,853	2,543,608	(106,811)	2,864,042
Madill	1,142,857	1,149,960	1,142,857	1,149,960	2,335	23,040	(48,724)	85,371	1,211,983	1,037,050	(43,733)	1,168,250
Mannford	1,203,294	1,215,647	1,203,294	1,215,647	65,881	28,288	(70,928)	92,045	1,330,933	1,138,584	(48,087)	1,282,846
Marietta	742,080	745,822	742,080	745,822	1,649	16,397	(29,401)	55,511	789,978	676,183	(28,448)	761,529
Marietta PWA	377,902	380,588	377,902	380,588	13,742	7,776	(5,229)	29,155	426,033	366,615	(14,855)	411,178
McLoud	127,896	128,885	127,896	128,885	15,064	6,046	(6,675)	10,208	153,527	132,811	(5,179)	148,348
Medford *	948,328	914,217	948,328	914,217	12,392	4,486	(48,984)	127,879	1,009,990	846,675	(40,829)	969,161
Meeker	227,835	229,798	227,835	229,798	7,313	5,215	(13,752)	17,189	245,763	212,894	(8,217)	237,546
Mooreland	667,139	670,551	667,139	670,551	6,385	2,111	(18,495)	49,916	710,469	608,812	(25,414)	685,055
Mountain Park	348,951	350,729	348,951	350,729	1,737	1,151	(4,140)	26,258	375,735	322,446	(13,322)	362,413
Muldrow	411,097	415,811	411,097	415,811	26,394	22,304	(20,992)	32,225	475,742	407,933	(16,952)	458,790
Muskogee *	65,151	65,151	65,151	65,151	21,804	0	(29,038)	4,608	62,325	54,721	(7,604)	54,721
Mustang **	1,377,809	1,385,928	1,377,809	1,385,928	66,072	47,250	(355,068)	101,204	1,245,387	1,036,414	(52,243)	1,193,144
Newkirk	1,023,193	1,029,434	1,023,193	1,029,434	38,886	17,158	(61,444)	77,005	1,101,040	943,315	(39,431)	1,061,609
Nichols Hills *	4,450,831	4,154,000	4,450,831	4,154,000	44,584	40,568	(270,659)	843,857	4,812,349	3,946,077	(216,568)	4,595,781
Noble	648,623	655,303	648,623	655,303	36,408	15,920	(113,482)	46,854	641,004	554,970	(21,508)	619,495
Norman *	1,886,708	1,886,708	1,886,708	1,886,708	0	0	(205,527)		1,814,977	1,547,003	(267,975)	1,547,003
Nowata	1,028,963	1,033,755	1,028,963	1,033,755	0	19,484	(47,978)	76,463	1,081,723	926,002	(38,930)	1,042,793
Oilton	144,931	145,729	144,931	145,729	394	3,492	(2,554)	10,980	158,041	135,759	(5,570)	152,470
Okeene	493,801	495,448	493,801	495,448	0	5,153	(20,380)	36,588	516,808	442,984	(18,456)	498,352
Okemah	181,828	184,825	181,828	184,825	18,712	11,397	(11,108)	14,574	218,400	190,311	(7,022)	211,378
Oklahoma Municipal Le	3,372,903	3,341,276	3,372,903	3,341,276	53,993	0	(246,406)	243,380	3,392,244	3,131,353	(65,223)	3,327,021

Oklahoma Municipal Retirement Fund

Exhibit 4

DEVELOPMENT OF THE ACTUARIAL VALUE OF ASSETS

City	Market Value of Assets as of 1/1/00	Actuarial Value of Assets as of 1/1/00	Market Value of Assets as of 1/1/01	Actuarial Value of Assets as of 1/1/01	Contributions			Assumed Yield at Valuation Rate (7.5%)	Preliminary Actuarial Value	Market Value of Assets as of 1/1/02	Market Value Adjustment	Actuarial Value of Assets as of 1/1/02
					Employer	Employee	Distributions					
Okmulgee	8,622,944	8,665,326	8,622,944	8,665,326	68,135	0	(134,372)	647,416	9,246,504	7,932,644	(328,465)	8,918,039
Owasso	3,289,035	3,317,585	3,289,035	3,317,585	123,943	118,531	(124,767)	253,233	3,688,525	3,169,078	(129,862)	3,558,663
Pawnee	1,065,546	1,070,554	1,065,546	1,070,554	22,288	23,955	(56,859)	79,893	1,139,831	977,720	(40,528)	1,099,303
Perkins	321,449	324,477	321,449	324,477	33,031	10,395	(34,596)	24,667	357,973	306,550	(12,856)	345,117
Perry	2,441,579	2,448,408	2,441,579	2,448,408	26,917	36,619	(103,442)	182,134	2,590,635	2,235,454	(88,795)	2,501,840
Pond Creek	320,760	323,378	320,760	323,378	18,217	7,200	(15,820)	24,613	357,588	306,919	(12,667)	344,921
Poteau	3,113,334	3,130,312	3,113,334	3,130,312	22,494	49,436	(127,648)	232,684	3,307,277	2,832,545	(118,683)	3,188,594
Prague *	63,704	63,704	63,704	63,704	0	0	(4,416)	4,612	63,900	54,744	(9,156)	54,744
Ringling	83,678	84,328	83,678	84,328	2,537	3,829	(4,702)	6,387	92,379	79,304	(3,269)	89,110
Sallisaw	5,640,570	5,682,313	5,640,570	5,682,313	281,518	114,651	(308,279)	429,469	6,199,673	5,319,534	(220,035)	5,979,638
Seiling	455,265	458,295	455,265	458,295	7,284	9,802	(20,944)	34,227	488,664	418,682	(17,496)	471,169
Shawnee *	22,787,739	20,721,347	22,787,739	20,721,347	416,121	155,589	(916,344)	4,658,801	25,035,514	20,793,837	(1,060,419)	23,975,095
Skiatook *	362,044	362,044	362,044	362,044	0	0	(44,518)	25,484	343,010	291,805	(51,205)	291,805
Spencer *	775,909	777,804	775,909	777,804	21,063	14,413	(47,032)	88,879	855,126	707,838	(36,822)	818,304
Spiro	384,623	388,889	384,623	388,889	24,641	12,717	(7,193)	30,298	449,352	386,608	(15,686)	433,666
Stillwater *	4,756,656	4,756,656	4,756,656	4,756,656	0	0	(123,955)	352,101	4,984,802	4,289,704	(895,098)	4,289,704
Stillwater Med Ctr *	603,862	603,862	603,862	603,862	0	0	(30,303)	44,153	617,713	530,288	(87,425)	530,288
Stilwell	809,395	824,461	809,395	824,461	168,789	57,988	(22,769)	69,485	1,097,954	953,591	(36,091)	1,061,863
Stratford	24,848	25,477	24,848	25,477	6,356	4,271	(2,874)	2,202	35,432	30,644	(1,197)	34,235
Stroud	2,039,522	2,054,314	2,039,522	2,054,314	28,500	38,286	(70,185)	153,946	2,204,860	1,867,712	(79,287)	2,125,573
Sulphur	1,517,875	1,526,572	1,517,875	1,526,572	22,327	28,031	(51,218)	114,461	1,640,173	1,407,376	(58,199)	1,581,974
Tecumseh	1,283,024	1,281,841	1,283,024	1,281,841	14,402	24,774	(76,284)	94,746	1,339,479	1,148,679	(47,700)	1,291,779
Thomas	501,096	504,798	501,096	504,798	12,009	10,394	(6,495)	38,456	559,162	480,516	(19,662)	539,501
Tipton	0	0	0	0	6,677	2,014	0	326	9,017	8,651	(92)	8,926
Tonkawa	1,665,064	1,672,778	1,665,064	1,672,778	30,978	16,302	(85,894)	124,010	1,758,175	1,504,686	(63,372)	1,694,803
Velma	43,599	44,225	43,599	44,225	2,900	1,502	(2,579)	3,385	49,434	42,324	(1,777)	47,656

Oklahoma Municipal Retirement Fund

Exhibit 4

DEVELOPMENT OF THE ACTUARIAL VALUE OF ASSETS

City	Market Value of Assets as of 1/1/00	Actuarial Value of Assets as of 1/1/00	Market Value of Assets as of 1/1/01	Actuarial Value of Assets as of 1/1/01	Contributions			Assumed Yield at Valuation Rate (7.5%)	Preliminary Actuarial Value	Market Value of Assets as of 1/1/02	Market Value Adjustment	Actuarial Value of Assets as of 1/1/02
					Employer	Employee	Distributions					
Vian	17,882	18,420	17,882	18,420	11,851	4,223	(1,780)		34,632	30,669	(991)	33,641
Vinita	3,718,805	3,742,247	3,718,805	3,742,247	104,564	62,152	(107,221)	282,900	4,084,642	3,507,661	(144,245)	3,940,396
Wakita	24,955	25,395	24,955	25,395	8,008	1,628	0	2,266	37,297	32,681	(1,154)	36,143
Warr Acres	4,174,343	4,194,280	4,174,343	4,194,280	0	21,722	(112,862)	311,153	4,414,293	3,782,087	(158,052)	4,256,242
Watonga	3,160,404	3,172,990	3,160,404	3,172,990	91,686	28,779	(216,338)	234,379	3,311,496	2,836,558	(118,734)	3,192,761
Waukomis	302,377	303,815	302,377	303,815	3,458	3,377	(6,504)	22,799	326,945	280,735	(11,552)	315,393
Waurika	544,445	544,413	544,445	544,413	0	6,164	(4,154)	40,906	587,330	507,036	(20,073)	567,256
Weatherford *	648,544	648,544	648,544	648,544	0	0	(25,089)	47,700	671,156	576,558	(94,598)	576,558
Wellston	161,776	163,100	161,776	163,100	10,764	6,753	(5,798)	12,672	187,490	161,549	(6,485)	181,005
Westville	61,312	60,927	61,312	60,927	5,740	3,133	(1,287)	4,854	73,367	64,171	(2,299)	71,068
Wetumka	422,279	426,863	422,279	426,863	51,873	14,645	(26,316)	33,522	500,587	431,531	(17,264)	483,323
Wynnewood	177,608	180,314	177,608	180,314	15,301	8,002	(7,712)	14,108	210,014	179,991	(7,506)	202,508
Yale	1,183,150	1,189,061	1,183,150	1,189,061	15,891	7,415	(66,865)	87,546	1,233,049	1,055,040	(44,502)	1,188,547
Yukon	7,419,377	7,466,375	7,419,377	7,466,375	407,010	0	(441,485)	558,685	7,990,585	6,853,592	(284,248)	7,706,337
Total	234,191,139	230,929,161	234,559,340	233,148,289	5,143,315	2,238,782	(11,800,844)	21,642,090	250,510,637	213,540,272	(10,583,880)	239,926,757

* Nonactive only city; the Actuarial Value of Assets is equal to the Market Value

** Hybrid city; employee account balances are subtracted from the Actuarial Value of Assets to determine the Valuation Assets

** Mustang assumes 8.00% yield on investments

V

**Summary of Plan Provisions and
Actuarial Method and Assumptions**

V Summary of Plan Provisions and Actuarial Method and Assumptions

This section outlines the plan provisions and actuarial method and assumptions used in the valuation.

The first exhibit outlines the provisions of the OMRF Master Plan.

The following exhibits outline the two actuarial methods used to value plan obligations: the entry age normal cost method and the unit credit cost method. See Section IV for a description of the actuarial methods used to value assets.

The final exhibit in this section presents the actuarial assumptions.

See Section VIII for a summary of plan provisions and the actuarial method and assumptions used in the valuation for the City of Bartlesville.

Oklahoma Municipal Retirement Fund

Summary of Plan Provisions

Eligibility	All regular, full-time employees of a participating employer except police, firefighters and other employees covered under a state system.
Service	
Credited service	The last period of continuous employment with the employer excluding any periods before the effective date of the plan specified in the adoption agreement.
Vesting	Credited service plus transferred service from other OMRF employers. Employees of the Oklahoma Municipal League do not receive vesting service for transferred service from other OMRF employers.
Service requirement for benefit eligibility	5, 7 or 10 years of vesting service, as specified in the adoption agreement.
Normal Retirement and Unreduced Early Retirement Ages	<p>Age 65 with service requirement fulfilled.</p> <p>If specified in the adoption agreement, normal retirement age for an employee with 30 years of vesting service may be as early as age 62.</p> <p>Also if specified in the adoption agreement, an employee may receive unreduced benefits when the sum of an employee's age in years and number of years of credited service equals 80 or more, as provided under the Rule of 80 alternative.</p> <p>Four cities have adopted special retirement provisions not provided in the standard adoption agreements:</p> <ul style="list-style-type: none">▪ For employees of Cushing, normal retirement age is 60 with 10 years of service.▪ Normal retirement age for an employee of Altus with 25 years of vesting service may be as early as age 62.▪ An employee of Warr Acres may receive unreduced benefits when the sum of an employee's age in years and number of years of credited service equals 75 or more.▪ For employees of Del City, normal retirement age is 60 with 7 years of service. Employees with 20 years of vesting service may also receive unreduced benefits as early as age 55.
Normal Retirement and Unreduced Early Retirement Benefits	<p>The percentage of final average compensation specified in the adoption agreement, multiplied by the number of years of credited service. The percentages that may be elected are:</p> <ul style="list-style-type: none">- Plan AAA 3.000%- Plan AA 2.625%- Plan BB 2.250%- Plan CC 1.875%- Plan A 1.500%- Plan B 1.125%- Plan C 0.750%

Final average compensation is the average of the five highest consecutive annual salaries out to the last 10 calendar years of service.

Oklahoma Municipal Retirement Fund

Summary of Plan Provisions

Employee contributions	As specified in the adoption agreement. The options that may be elected are the standard contribution rate, a fixed amount which is less than the standard contribution rate, a fixed percentage of the total contribution rate determined each year, or no employee contributions. The standard contribution rates are: <ul style="list-style-type: none">- Plan AAA 6.00%- Plan AA 5.25%- Plan BB 4.50%- Plan CC 3.75%- Plan A 3.00%- Plan B 2.25%- Plan C 1.50%
Early Retirement	
Eligibility	Age 55 with service requirement fulfilled.
Benefit	The accrued benefit payable starting at age 65, or an actuarially reduced benefit starting at early retirement age.
Late Retirement	The accrued benefit based on pay and service to actual retirement.
Termination of Service	
Vesting requirement	Fulfillment of the service requirement
Before vesting	Return of member contributions with interest.
After vesting	The accrued benefit payable starting at age 65, or an actuarially reduced benefit starting at early retirement age.
Disability Retirement	
Eligibility	Total and permanent disability.
Benefit	The accrued benefit is payable upon disablement without reduction for early payment.
In-service Death	
Before vesting	Return of member contributions with interest.
After vesting	If the participant is married at the time of death, 50% of the accrued benefit is payable to the spouse until death or remarriage. Otherwise, 50% of the accrued benefit is payable to the designated beneficiary for 60 months.
Payment Options	
Normal form	The normal form of payment of the accrued benefit is a monthly lifetime annuity with 5 or 10 years certain, as specified in the adoption agreement.

Oklahoma Municipal Retirement Fund

Summary of Plan Provisions

Optional forms	Other annuity forms available on an actuarial equivalent basis are: <ul style="list-style-type: none">- Joint and 50% survivor annuity- Joint and 66-2/3rds last survivor annuity- Joint and 100% survivor annuity
Cost of Living Option	If specified in the adoption agreement, benefits in payment status are adjusted each July 1st based on the percentage change in the CPI. The maximum increase in any year is 3% (2% for employees of Skiatook).
Hybrid Option	If specified in the adoption agreement, employee contributions are accumulated at the actual rate earned by the retirement fund and paid to the employee upon retirement in addition to the formula amount.

Oklahoma Municipal Retirement Fund
SUMMARY OF THE ACTUARIAL COST METHOD
(Entry Age Normal)

Pension funding requirements are allocated to periods of time using the entry age normal cost method.

Under the entry age normal cost method, the normal cost is computed as the level percent of pay which, if paid from the time an employee became a participant until his assumed retirement, would accumulate to a fund sufficient to pay all plan benefits.

The actuarial liability of the plan is the hypothetical accumulation with interest of prior normal costs less payments, from the employee's date of participation to present.

The actuarial liability for non-active participants is the present value of future benefits anticipated to be paid to current retirees, beneficiaries and deferred vested participants, discounted for interest and mortality.

The unfunded actuarial liability (UAL) is the difference between the actuarial liability and the actuarial value of plan assets. If greater than zero, this amount (redetermined each year) is amortized over 30 years from the valuation date; otherwise, it is amortized as a level percent of pay over the future working lifetime of active participants.

Experience gains (decreases in cost due to favorable experience), or experience losses (increases in cost due to adverse experience), attributable to deviations between the assumed and actual experience of the Plan, are amortized as part of the UAL.

Oklahoma Municipal Retirement Fund
SUMMARY OF THE ACTUARIAL COST METHOD
(Unit Credit)

Pension funding requirements are allocated to periods of time using the unit credit cost method.

Under the unit credit cost method, the normal cost is computed as the present value of the increase in accrued retirement income for each employee's service during the following year.

The actuarial liability of the plan is the present value of the accrued retirement income earned to date. Present values are discounted for interest, mortality, turnover, and retirement rates by age.

The actuarial liability for non-active participants is the present value of future benefits anticipated to be paid to current retirees, beneficiaries and deferred vested participants, discounted for interest and mortality.

The unfunded actuarial liability (UAL) is the difference between the actuarial liability and the actuarial value of plan assets. This amount (redetermined each year) is amortized over 30 years from the first valuation date after joining OMRF.

Experience gains (decreases in cost due to favorable experience), or experience losses (increases in cost due to adverse experience), attributable to deviations between the assumed and actual experience of the Plan, are amortized as part of the UAL.

Oklahoma Municipal Retirement Fund

SUMMARY OF ACTUARIAL ASSUMPTIONS

Male

Interest Rates	Purpose	Rate	Age	Rates per Thousand				Annual Pay Increase	Ratio of Pay at 65 to Pay at x	
				Mortality	Turnover	Disability	Retirement A			Retirement B
Before retirement			20	0.545	265.80	0.80	0	0	5.00%	8.99
	City of Mustang	8.00%	21	0.570	252.60	0.85	0	0	5.00%	8.56
	All other	7.50%	22	0.598	240.40	0.91	0	0	5.00%	8.15
After retirement			23	0.633	228.00	0.96	0	0	5.00%	7.76
	City of Mustang	8.00%	24	0.671	216.40	1.01	0	0	5.00%	7.39
	All other	7.50%	25	0.711	205.40	1.07	0	0	5.00%	7.04
Mortality Tables			26	0.749	195.80	1.15	0	0	5.00%	6.70
			27	0.782	186.60	1.23	0	0	5.00%	6.39
	Before retirement	UP 1994	28	0.811	177.60	1.31	0	0	5.00%	6.08
	After retirement	UP 1994	29	0.838	169.00	1.39	0	0	5.00%	5.79
	with projected mortality improvement		30	0.862	160.40	1.47	0	0	5.00%	5.52
			31	0.883	152.40	1.60	0	0	5.00%	5.25
Pay Increase Assumption			32	0.902	144.40	1.73	0	0	5.00%	5.00
	Annual rates of pay increase as shown (5%)		33	0.912	136.80	1.87	0	0	5.00%	4.76
			34	0.913	129.20	2.00	0	0	5.00%	4.54
			35	0.915	122.00	2.13	0	0	5.00%	4.32
Turnover			36	0.922	115.20	2.40	0	0	5.00%	4.12
	Age-related rates as shown		37	0.948	108.60	2.67	0	0	5.00%	3.92
			38	0.992	102.20	2.93	0	0	5.00%	3.73
Retirement Age			39	1.045	96.00	3.20	0	0	5.00%	3.56
	Rates of retirement as shown		40	1.108	90.00	3.47	0	0	5.00%	3.39
	Retirement B for 62/30 or Rule of 80		41	1.177	84.40	3.97	0	0	5.00%	3.23
	Retirement A for all other		42	1.255	78.80	4.48	0	0	5.00%	3.07
	Rates are only applied if the employee is eligible to retire.		43	1.331	73.20	4.99	0	0	5.00%	2.93
			44	1.407	68.00	5.49	0	0	5.00%	2.79
Other Assumptions			45	1.489	62.80	6.00	0	0	5.00%	2.65
	Percent married	100%	46	1.586	58.00	6.00	0	0	5.00%	2.53
	Husband/wife age difference	3	47	1.703	53.20	6.00	0	0	5.00%	2.41
			48	1.833	48.40	6.00	0	0	5.00%	2.29
			49	1.967	44.00	6.00	0	0	5.00%	2.18
			50	2.112	39.60	6.00	0	0	5.00%	2.08
			51	2.272	35.60	6.80	0	0	5.00%	1.98
			52	2.451	31.60	7.60	0	0	5.00%	1.89
			53	2.679	27.60	8.40	0	0	5.00%	1.80
			54	2.914	24.00	9.20	0	0	5.00%	1.71
			55	3.242	20.40	10.00	0	0	5.00%	1.63
		56	3.634	17.20	11.23	0	0	5.00%	1.55	
		57	4.115	14.00	12.45	0	0	5.00%	1.48	
		58	4.674	10.80	13.68	0	0	5.00%	1.41	
		59	5.176	7.60	14.91	0	0	5.00%	1.34	
		60	5.730	4.60	16.13	0	0	5.00%	1.28	
		61	6.523	2.00	16.13	0	0	5.00%	1.22	
		62	7.277	1.00	16.13	0	1000	5.00%	1.16	
		63	8.312	0.00	16.13	0	1000	5.00%	1.10	
		64	9.244	0.00	16.13	0	1000	5.00%	1.05	
		65	10.239	0.00	0.00	1000	1000	5.00%	1.00	

Mortality shown is projected by the Society of Actuaries' table AA for an employee born in 1958

Oklahoma Municipal Retirement Fund

SUMMARY OF ACTUARIAL ASSUMPTIONS

Female

Interest Rates	Purpose	Rate	Age	Rates per Thousand				Annual Pay Increase	Ratio of Pay at 65 to Pay at x	
				Mortality	Turnover	Disability	Retirement A			Retirement B
Before retirement			20	0.305	265.80	0.80	0	0	5.00%	8.99
City of Mustang		8.00%	21	0.308	252.60	0.85	0	0	5.00%	8.56
All other		7.50%	22	0.311	240.40	0.91	0	0	5.00%	8.15
After retirement			23	0.313	228.00	0.96	0	0	5.00%	7.76
City of Mustang		8.00%	24	0.313	216.40	1.01	0	0	5.00%	7.39
All other		7.50%	25	0.313	205.40	1.07	0	0	5.00%	7.04
			26	0.316	195.80	1.15	0	0	5.00%	6.70
			27	0.324	186.60	1.23	0	0	5.00%	6.39
Mortality Tables			28	0.338	177.60	1.31	0	0	5.00%	6.08
Before retirement	UP 1994		29	0.356	169.00	1.39	0	0	5.00%	5.79
After retirement	UP 1994		30	0.377	160.40	1.47	0	0	5.00%	5.52
with projected mortality improvement			31	0.401	152.40	1.60	0	0	5.00%	5.25
			32	0.427	144.40	1.73	0	0	5.00%	5.00
Pay Increase Assumption			33	0.454	136.80	1.87	0	0	5.00%	4.76
Annual rates of pay increase			34	0.482	129.20	2.00	0	0	5.00%	4.54
as shown (5%)			35	0.514	122.00	2.13	0	0	5.00%	4.32
			36	0.543	115.20	2.40	0	0	5.00%	4.12
Turnover			37	0.578	108.60	2.67	0	0	5.00%	3.92
Age-related rates as shown			38	0.616	102.20	2.93	0	0	5.00%	3.73
			39	0.660	96.00	3.20	0	0	5.00%	3.56
Retirement Age			40	0.707	90.00	3.47	0	0	5.00%	3.39
Rates of retirement as shown			41	0.754	84.40	3.97	0	0	5.00%	3.23
Retirement B for 62/30 or Rule of 80			42	0.799	78.80	4.48	0	0	5.00%	3.07
Retirement A for all other			43	0.836	73.20	4.99	0	0	5.00%	2.93
Rates are only applied if the employee is eligible to retire.			44	0.866	68.00	5.49	0	0	5.00%	2.79
			45	0.890	62.80	6.00	0	0	5.00%	2.65
			46	0.920	58.00	6.00	0	0	5.00%	2.53
Other Assumptions			47	0.962	53.20	6.00	0	0	5.00%	2.41
Percent married	100%		48	1.024	48.40	6.00	0	0	5.00%	2.29
Husband/wife age difference	3		49	1.092	44.00	6.00	0	0	5.00%	2.18
			50	1.188	39.60	6.00	0	0	5.00%	2.08
			51	1.303	35.60	6.80	0	0	5.00%	1.98
			52	1.467	31.60	7.60	0	0	5.00%	1.89
			53	1.650	27.60	8.40	0	0	5.00%	1.80
			54	1.851	24.00	9.20	0	0	5.00%	1.71
			55	2.100	20.40	10.00	0	0	5.00%	1.63
			56	2.428	17.20	11.23	0	0	5.00%	1.55
			57	2.811	14.00	12.45	0	0	5.00%	1.48
			58	3.219	10.80	13.68	0	0	5.00%	1.41
			59	3.683	7.60	14.91	0	0	5.00%	1.34
			60	4.211	4.60	16.13	0	0	5.00%	1.28
			61	4.807	2.00	16.13	0	0	5.00%	1.22
			62	5.477	1.00	16.13	0	1000	5.00%	1.16
			63	6.239	0.00	16.13	0	1000	5.00%	1.10
			64	7.085	0.00	16.13	0	1000	5.00%	1.05
			65	7.990	0.00	0.00	1000	1000	5.00%	1.00

Mortality shown is projected by the Society of Actuaries' table AA for an employee born in 1958

VI

Summary of Plan Participants

VI Summary of Plan Participants

The first exhibit in this section shows the age and service distribution, along with average valuation pay, for active participants as of January 1, 2002 (OMRF Master Trust in total). The City of Bartlesville is included in the count although it has not adopted the OMRF master plan but has a career average benefit formula. Similar exhibits in the individual municipalities' actuarial reports show the distribution for each member plan with active participants.

The second exhibit in this section shows the age distribution and average benefit for each category of nonactive participant as of January 1, 2002 (OMRF Master Trust in total). Again, participants in the City of Bartlesville plan are included. Similar exhibits in the municipalities' actuarial reports show the distribution for each member plan with nonactive participants.

Oklahoma Municipal Retirement Fund
 All Cities Combined
AGE AND SERVICE OF ACTIVE PARTICIPANTS
 January 1, 2002

Age Group	Years of Service														All Service	
	0 - 4		5 - 9		10 - 14		15 - 19		20 - 24		25 - 29		30 - 49		Count	Ave Pay
	Count	Ave Pay	Count	Ave Pay	Count	Ave Pay	Count	Ave Pay	Count	Ave Pay	Count	Ave Pay	Count	Ave Pay		
15 - 19	20	16,607													20	16,607
20 - 24	196	18,634	2	24,456											198	18,693
25 - 29	254	20,126	49	24,175	3	26,938									306	20,861
30 - 34	241	20,875	70	23,281	34	28,193									345	22,085
35 - 39	235	20,797	86	25,851	62	28,215	55	28,836	5	29,515					443	23,913
40 - 44	221	20,996	117	25,233	107	27,898	84	29,469	50	28,988	6	31,735			585	25,079
45 - 49	176	22,343	97	24,289	100	28,306	95	28,648	66	32,635	30	32,684			564	26,552
50 - 54	130	23,200	93	25,479	94	29,600	68	30,540	42	31,915	31	27,450	11	34,082	469	27,316
55 - 59	89	22,089	57	24,969	60	27,559	65	29,790	38	30,694	26	31,372	16	35,677	351	27,156
60 - 64	41	21,696	30	28,984	41	28,186	39	27,391	18	26,801	11	29,283	19	33,624	199	27,268
65 - 69	4	23,604	6	19,629	7	26,084	2	31,539	9	23,261	4	37,295	2	30,001	35	26,168
70 - 109	1	21,444	1	18,598	4	24,622	3	248,507	3	16,552	2	25,679	3	23,783	17	62,142
All Ages	1,608		608		512		411		231		110		51		3,532	

Age is in completed years (age last birthday) on the census date.
 Service is completed years of vesting service on the census date.
 Pay is the annual pay for 2001

Oklahoma Municipal Retirement Fund
All Cities Combined

SUMMARY OF NONACTIVE PARTICIPANTS

January 1, 2002

Age Group	Males			Females			Total		
	Count	Benefit	Weighted Ave Age	Count	Benefit	Weighted Ave Age	Count	Benefit	Weighted Ave Age
<i>Retired Participants in Payment Status</i>									
40 - 49									
50 - 54	2	13,935	51.70				2	13,935	51.70
55 - 59	34	275,028	57.58	12	109,027	58.40	46	384,055	57.82
60 - 64	78	732,417	63.07	35	298,325	62.73	113	1,030,742	62.97
65 - 69	134	986,547	67.46	48	409,956	67.11	182	1,396,503	67.36
70 - 74	101	723,625	72.59	45	431,792	72.35	146	1,155,416	72.50
75 - 79	95	651,503	76.97	32	176,880	77.33	127	828,383	77.05
80 - 84	74	405,557	81.83	33	133,570	82.28	107	539,127	81.94
85 - 89	31	124,704	86.89	16	34,077	86.81	47	158,781	86.87
90 - 110	20	50,530	93.08	13	30,498	90.64	33	81,028	92.18
Totals	569	3,963,847	70.81	234	1,624,124	70.33	803	5,587,970.64	70.67
Ave amount		6,966.34			6,940.70			6,958.87	
<i>Survivors in Payment Status</i>									
20 - 29				3	5,481	24.92	3	5,481	24.92
30 - 39	4	17,245	36.56	3	19,239	36.48	7	36,484	36.52
40 - 49	2	15,026	47.78	8	36,898	44.96	10	51,924	45.77
50 - 54	1	3,794	50.01	6	31,123	53.98	7	34,917	53.55
55 - 59				12	44,012	57.22	12	44,012	57.22
60 - 64				18	81,264	62.08	18	81,264	62.08
65 - 69	1	3,937	69.87	12	44,532	66.68	13	48,470	66.94
70 - 74	3	20,511	71.64	16	91,999	73.32	19	112,510	73.01
75 - 79				23	91,932	76.75	23	91,932	76.75
80 - 84	1	2,446	84.89	13	38,383	82.83	14	40,829	82.95
85 - 89				6	16,447	86.77	6	16,447	86.77
90 - 110				5	18,925	91.90	5	18,925	91.90
Totals	12	62,960	55.96	125	520,235	67.00	137	583,194.60	65.81
Ave amount		5,246.66			4,161.88			4,256.89	
<i>Disabled Participants</i>									
20 - 29									
30 - 39									
40 - 49	20	145,256	46.30	1	4,524	48.93	21	149,780	46.38
50 - 54	14	92,689	52.65	3	46,871	53.48	17	139,561	52.92
55 - 59	18	155,209	57.97	3	37,214	57.45	21	192,423	57.87
60 - 64	24	161,019	61.98	4	45,751	62.54	28	206,770	62.11
65 - 69	26	194,853	67.49	3	30,279	66.38	29	225,132	67.34
70 - 74	10	85,857	71.95	3	20,061	72.41	13	105,918	72.04
75 - 79	2	9,930	78.99	2	8,007	76.36	4	17,937	77.82
80 - 84	2	9,025	81.74	2	11,568	83.59	4	20,593	82.78
85 - 89	2	3,660	86.75				2	3,660	86.75
90 - 110									
Totals	118	857,497	60.35	21	204,276	62.50	139	1,061,772.84	60.76
Ave amount		7,266.92			9,727.42			7,638.65	
<i>Deferred Vested Former Employees</i>									
20 - 29	2	585	27.19	7	2,964	28.10	9	3,549	27.95
30 - 39	18	62,969	36.95	7	30,305	37.59	25	93,274	37.16
40 - 49	68	395,982	45.27	23	174,228	45.50	91	570,210	45.34
50 - 54	32	196,648	52.74	18	120,703	52.25	50	317,351	52.56
55 - 59	25	176,435	57.14	11	50,206	55.97	36	226,641	56.88
60 - 64	9	35,788	61.94	9	32,348	61.69	18	68,137	61.82
65 - 69	4	17,571	67.33	1	2,923	69.62	5	20,494	67.66
Totals	176	973,661	52.37	79	425,520	50.21	255	1,399,180.56	51.72
Ave amount		5,532.17			5,386.32			5,486.98	
Grand Totals	875	5,857,965	66.05	459	2,774,154	66.04	1334	8,632,119	66.05
Ave amount		6,694.82			6,043.91			6,470.85	

VII

Sample Actuarial Report

VII Sample Actuarial Report

This section contains a copy of the 2002 Actuarial Valuation of Funding Requirements for the Employee Retirement System of Bristow, Oklahoma. It is included as a sample of the valuation reports sent to member employers.

**Oklahoma Municipal Retirement Fund
Employee Retirement System of Bristow, Oklahoma**

ACTUARIAL VALUATION OF FUNDING REQUIREMENTS

**Effective for the Year Starting
July 1, 2002**

March 3, 2002

Prepared by

DEAN & COMPANY
CONSULTING ACTUARIES
5646 MILTON STREET, SUITE 210
DALLAS, TX 75206
(214) 891-0990

INTRODUCTION

This report presents the results of an actuarial valuation of the Employee Retirement System of Bristow, Oklahoma.

The purposes of the valuation are:

- to determine the required contribution for the retirement program effective July 1, 2002.
- to illustrate the increase in contributions that would be necessary to support the next benefit level available under the OMRF program.
- to provide accounting information required by GASB 25 (funding progress).

The first purpose of the report is to set the plan contribution level for the next year. Exhibit 1 summarizes the required contribution level for the plan at its current level and at the next available benefit level.

The total contribution rate for the plan is separated between the employee-paid and municipality-paid portions based on the most recent employee contribution rate.

The employee contribution rate is set by the plan, and the municipality is committed to meet the long term funding needs of the plan by paying any portion of the contribution not provided by employees.

Exhibit 2 shows the detailed development of the contribution requirements for the year.

The actuarial value of assets (Exhibit 3) is related to market value, but smoothed to reduce the volatility of contribution requirements. The assets valuation method was revised this year to smooth market fluctuations over a 4-year period, rather than the 2-year period used last year.

GASB Statement 25 requires the employer to record its progress towards funding the retirement program (see Exhibit 4).

The remainder of the report summarizes the plan provisions, participant data and actuarial valuation assumptions.

The amortization period for the unfunded actuarial liability was changed to a floating 30-period. Previously, amounts were funded to a fixed 30-year time horizon which was reset only when the plan was amended.

**Oklahoma Municipal Retirement System
Employee Retirement System of Bristow, Oklahoma**

SUMMARY OF 2002-2003 PLAN CONTRIBUTION RATES

	<u>Current Plan</u>	<u>Next Plan Level</u>	<i>Increase</i>
	AA	AAA	
Employee contribution rate as a percent of pay	5.25%	6.00%	0.75%
Municipality-required contribution rate as a percent of participant payroll	18.45%	63.13%	44.67%
Total required contribution rate	23.70%	69.13%	45.42%

Notes:

The required contribution rate is actuarially measured each plan year as the amount necessary to fund the plan on a long term basis using the actuarial cost methods and assumptions adopted for the plan:

Cost Method	Entry age normal
Interest rate	7.5% per annum
Pay Increases	5% per annum on average
Mortality	1994 Group Annuity Mortality (projected)
Retirement age	Rates by age
Turnover	Rates by age
Asset value	Actuarial method

The total required contribution rate for the prior year (2001-2002) was 22.29% of participant payroll. The required contribution rate changes each year, reflecting the investments earnings of OMRF and the demographic experience of the participant group.

Since the employee contribution rate is fixed by the terms of the plan, the municipality-required contribution rate is the amount necessary to bring the total contribution rate to at least the total required contribution rate.

The employee contribution rate is a plan provision and typically increases as the plan's benefit level increases.

Plan AA, normal retirement age 65, 5 year vesting, 5 years certain, COLA

**Oklahoma Municipal Retirement Fund
Employee Retirement System of Bristow, Oklahoma**

Development of Plan Contribution Requirement

	<u>Current Plan</u>	<u>Next Plan Level</u>	
	<u>AA</u>	<u>AAA</u>	
Actuarial liability (entry age normal method)			
Retired, survivors and deferred vested	\$ 384,071	\$ 2,936,595	\$ -
Active employees (25)	<u>781,425</u>	<u>\$ 892,551</u>	<u>\$ 111,126</u>
Total	\$ 1,165,496	\$ 3,829,146	\$ 111,126
Assets (actuarial value as of 1-1-2002)	<u>939,017</u>	<u>939,017</u>	<u>0</u>
Unfunded actuarial liability	\$ 226,479	\$ 2,890,129	\$ 111,126
Annual amount to amortize the unfunded actuarial liability over 30 years	\$ 18,495	\$ 236,017	\$ 217,522
Annual normal cost	<u>102,662</u>	<u>117,327</u>	<u>14,666</u>
Total annual cost	\$ 121,157	\$ 353,345	\$ 232,188
Valuation payroll as of 1-1-2002	\$ 511,156	\$ 511,156	
Required total contribution as a percent of payroll (effective 7-1-2002)	23.70%	69.13%	45.42%

As a measure of the long term cost of the plan, the entry age normal cost as a % of pay may be viewed as the value of benefits accruing under the plan:

20.08%	22.95%	2.87%
--------	--------	-------

Notes

See Exhibit 3 for the development of the actuarial value of assets.

See Exhibits 7 and 8 for a description of the actuarial methods and assumptions used in the valuation.

See Exhibits 9 and 10 for a summary of the active participants and retirees.

The present value of benefits for non-active participants includes remaining balances of \$1,060 for 2 former employees not included in the deferred vested census.

Plan AA, normal retirement age 65, 5 year vesting, 5 years certain, COLA

Oklahoma Municipal Retirement Fund
Employee Retirement System of Bristow, Oklahoma

DEVELOPMENT OF THE ACTUARIAL VALUE OF ASSETS

1 Market Value of Assets as of 1/1/01	\$871,782
2 Actuarial Value of Assets as of 1/1/01	\$880,248
Percent of Market Value	101%
3 Contributions	
Employer	69,219
Employee	25,446
4 Distributions	(68,127)
5 Assumed Yield at Valuation Rate (7.50%)	67,014
6 Preliminary Actuarial Value	973,800
7 Market Value of Assets as of 1/1/02	834,667
8 Adjustment	
25% of market less preliminary value	(34,783)
9 Actuarial Value of Assets as of 1/1/02	\$939,017
Percent of Market Value	113%

An actuarial technique is used to reduce the effect of fluctuations in market value on plan funding requirements.

The actuarial value of assets is equal to the prior year's value adjusted for cash flows and interest at the valuation rate. This amount is adjusted by a percentage of the difference between it and market.

The asset smoothing adjustment (line 8) was changed to 25% from the 50% used in prior years. This change increased the actuarial value of assets by \$34,783.

Oklahoma Municipal Retirement Fund
Employee Retirement System of Bristow, Oklahoma

SCHEDULE OF FUNDING PROGRESS

Actuarial Valuation Date	Value of Assets	Asset Valuation Basis	Actuarial Accrued Liability (AAL)*	Type*	Unfunded AAL (UAAL)	Funded Ratio	Covered Payroll	UAAL as a Percentage of Covered Payroll
1/1/96	279,407	Market	547,993	PBO	268,586	51.0%	414,066	64.9%
1/1/97	374,262	Market	721,346	PBO	347,084	51.9%	442,744	78.4%
1/1/98	474,642	Actuarial	758,237	PBO	283,595	62.6%	374,406	75.7%
1/1/98	474,642	Actuarial	1,084,874	EAN	610,232	43.8%	374,406	163.0%
1/1/99	597,964	Actuarial	1,052,327	EAN	454,363	56.8%	406,004	111.9%
1/1/00	754,176	Actuarial	1,203,707	EAN	449,531	62.7%	421,846	106.6%
1/1/01	880,248	Actuarial	1,061,239	EAN	180,991	82.9%	484,977	37.3%
1/1/02	939,017	Actuarial	1,165,496	EAN	226,479	80.6%	511,156	44.3%

* The amounts shown for valuations prior to 1/1/98 are the pension benefit obligation (PBO) defined in GASB 5. GASB 25 which replaced GASB 5 requires that the actuarial liability used to fund the plan be used to measure funding progress.

GASB 25 results are shown in bold type. Both values are shown for 1/1/98 for comparative purposes.

Covered payroll is the total annualized rate of pay as of the valuation date based on actual pay for the preceding year.

Oklahoma Municipal Retirement Fund
Employee Retirement System of Bristow, Oklahoma

SUMMARY OF PLAN PROVISIONS

Eligibility	All regular, full-time employees except police, firefighters and other employees who are covered under an approved system.
Service	
Credited service	The last period of continuous employment with the employer excluding any periods before the effective date of the plan specified in the adoption agreement.
Vesting	Credited service plus transferred service from other OMRF employers.
Employee contributions	5.25% of pay.
Normal Retirement Age	Age 65 with 5 or more years of vesting service
Normal Retirement Benefit	Plan AA 2.625% of final average compensation multiplied by the number of years of credited service.
Early Retirement	
Eligibility	Age 55 with 5 or more years of vesting service.
Benefit	The accrued benefit payable starting at age 65, or an actuarially reduced benefit starting at early retirement age.
Late Retirement	The accrued benefit based on pay and service to actual retirement.
Termination of Service	
Vesting	100% vested after 5 or more years of vesting service.
Before vesting	Return of member contributions with interest.
After vesting	The accrued benefit payable starting at age 65, or an actuarially reduced benefit starting at early retirement age.
Disability Retirement	
Eligibility	Total and permanent disability after 5 or more years of service.
Benefit	The accrued benefit is payable upon disablement without reduction for early payment.

Oklahoma Municipal Retirement Fund
Employee Retirement System of Bristow, Oklahoma

SUMMARY OF PLAN PROVISIONS

In-service Death

Before vesting Return of member contributions with interest.

Married, vested 50% of the accrued benefit is payable to the spouse until death or remarriage.

Single, vested 50% of the accrued benefit is payable for 60 months certain.

Payment Options

Normal form The normal form of payment of the accrued benefit is a monthly lifetime annuity with 5 years certain.

Other annuity forms available on an actuarial equivalent basis are:

- Joint and 50% survivor annuity
- Joint and 66-2/3rds last survivor annuity
- Joint and 100% survivor annuity

Cost of Living

Benefits in payment status are adjusted each July 1st based on the percentage change in the CPI. The maximum increase is 3% per year.

Oklahoma Municipal Retirement Fund

ILLUSTRATION OF RETIREMENT INCOME BY PLAN LEVEL

(Annual retirement income for an employee working to age 65 under the normal form of annuity at various pay and income levels)

Pension as a percent of Final Average Pay per year of service

C	B	A	CC	BB	AA	AAA
0.750%	1.125%	1.500%	1.875%	2.250%	2.625%	3.000%

20 Years of Service at Retirement

Final Average Pay Level	Plan Level						
	C	B	A	CC	BB	AA	AAA
10,000	\$1,500	\$2,250	\$3,000	\$3,750	\$4,500	\$5,250	\$6,000
20,000	3,000	4,500	6,000	7,500	9,000	10,500	12,000
30,000	4,500	6,750	9,000	11,250	13,500	15,750	18,000
40,000	6,000	9,000	12,000	15,000	18,000	21,000	24,000
50,000	7,500	11,250	15,000	18,750	22,500	26,250	30,000

30 Years of Service at Retirement

Final Average Pay Level	Plan Level						
	C	B	A	CC	BB	AA	AAA
10,000	\$2,250	\$3,375	\$4,500	\$5,625	\$6,750	\$7,875	\$9,000
20,000	4,500	6,750	9,000	11,250	13,500	15,750	18,000
30,000	6,750	10,125	13,500	16,875	20,250	23,625	27,000
40,000	9,000	13,500	18,000	22,500	27,000	31,500	36,000
50,000	11,250	16,875	22,500	28,125	33,750	39,375	45,000

40 Years of Service at Retirement

Final Average Pay Level	Plan Level						
	C	B	A	CC	BB	AA	AAA
10,000	\$3,000	\$4,500	\$6,000	\$7,500	\$9,000	\$10,500	\$12,000
20,000	6,000	9,000	12,000	15,000	18,000	21,000	24,000
30,000	9,000	13,500	18,000	22,500	27,000	31,500	36,000
40,000	12,000	18,000	24,000	30,000	36,000	42,000	48,000
50,000	15,000	22,500	30,000	37,500	45,000	52,500	60,000

Plan AAA is illustrated with no service limit. The master plan documents permits the plan sponsor to limit the years of service used in the AAA formula.

Oklahoma Municipal Retirement Fund

SUMMARY OF THE ACTUARIAL COST METHOD

Pension funding requirements are allocated to periods of time using the entry age normal cost method.

Under the entry age normal cost method, the normal cost is computed as the level percent of pay which, if paid from the time an employee became a participant until his assumed retirement, would accumulate to a fund sufficient to pay all plan benefits.

The actuarial liability of the plan is the hypothetical accumulation with interest of prior normal costs less payments, from the employee's date of participation to present.

The actuarial liability for non-active participants is the present value of future benefits anticipated to be paid to current retirees, beneficiaries and deferred vested participants, discounted for interest and mortality.

The unfunded actuarial liability (UAL) is the difference between the actuarial liability and the actuarial value of plan assets. This amount (redetermined each year) is amortized over 30 years from the valuation date.

Experience gains (decreases in cost due to favorable experience), or experience losses (increases in cost due to adverse experience), attributable to deviations between the assumed and actual experience of the Plan, are amortized as part of the UAL.

Oklahoma Municipal Retirement Fund

SUMMARY OF ACTUARIAL ASSUMPTIONS

		Male				Annual Pay Increase	Ratio of Pay at 65 to Pay at x	
		Age	Rates per Thousand					
Interest Rates			Mortality	Turnover	Disability	Retirement		
<i>Purpose</i>	<i>Rate</i>							
Basic valuation		20	0.545	265.80	0.80	0	5.00%	8.99
Before retirement	7.50%	21	0.570	252.60	0.85	0	5.00%	8.56
After retirement	7.50%	22	0.598	240.40	0.91	0	5.00%	8.15
		23	0.633	228.00	0.96	0	5.00%	7.76
Mortality Tables		24	0.671	216.40	1.01	0	5.00%	7.39
Before retirement	UP 1994	25	0.711	205.40	1.07	0	5.00%	7.04
After retirement	UP 1994	26	0.749	195.80	1.15	0	5.00%	6.70
with projected mortality improvement		27	0.782	186.60	1.23	0	5.00%	6.39
		28	0.811	177.60	1.31	0	5.00%	6.08
Pay Increase Assumption		29	0.838	169.00	1.39	0	5.00%	5.79
Annual rates of pay increase		30	0.862	160.40	1.47	0	5.00%	5.52
as shown (5%)		31	0.883	152.40	1.60	0	5.00%	5.25
		32	0.902	144.40	1.73	0	5.00%	5.00
Turnover		33	0.912	136.80	1.87	0	5.00%	4.76
Age-related rates as shown		34	0.913	129.20	2.00	0	5.00%	4.54
		35	0.915	122.00	2.13	0	5.00%	4.32
Retirement Age		36	0.927	115.20	2.40	0	5.00%	4.12
Rates of retirement as shown		37	0.953	108.60	2.67	0	5.00%	3.92
Rates are only applied if the employee is eligible to retire.		38	0.998	102.20	2.93	0	5.00%	3.73
		39	1.053	96.00	3.20	0	5.00%	3.56
		40	1.117	90.00	3.47	0	5.00%	3.39
Other Assumptions		41	1.188	84.40	3.97	0	5.00%	3.23
Percent married	100%	42	1.267	78.80	4.48	0	5.00%	3.07
Spouse age difference	3	43	1.346	73.20	4.99	0	5.00%	2.93
(female spouses younger)		44	1.424	68.00	5.49	0	5.00%	2.79
		45	1.508	62.80	6.00	0	5.00%	2.65
		46	1.608	58.00	6.00	0	5.00%	2.53
		47	1.729	53.20	6.00	0	5.00%	2.41
		48	1.862	48.40	6.00	0	5.00%	2.29
		49	2.001	44.00	6.00	0	5.00%	2.18
		50	2.150	39.60	6.00	0	5.00%	2.08
		51	2.316	35.60	6.80	0	5.00%	1.98
		52	2.501	31.60	7.60	0	5.00%	1.89
		53	2.734	27.60	8.40	0	5.00%	1.80
		54	2.974	24.00	9.20	0	5.00%	1.71
		55	3.305	20.40	10.00	0	5.00%	1.63
		56	3.701	17.20	11.23	0	5.00%	1.55
		57	4.186	14.00	12.45	0	5.00%	1.48
		58	4.750	10.80	13.68	0	5.00%	1.41
		59	5.260	7.60	14.91	0	5.00%	1.34
		60	5.823	4.60	16.13	0	5.00%	1.28
		61	6.622	2.00	16.13	0	5.00%	1.22
		62	7.388	1.00	16.13	0	5.00%	1.16
		63	8.430	0.00	16.13	0	5.00%	1.10
		64	9.376	0.00	16.13	0	5.00%	1.05
		65	10.384	0.00	0.00	1000	5.00%	1.00

Mortality shown is projected by the Society of Actuaries' table AA for an employee born in 1958

Oklahoma Municipal Retirement Fund
 Bristow
AGE AND SERVICE OF ACTIVE PARTICIPANTS
 1/1/02

Age Group	Years of Service														All Service		
	0 - 4		5 - 9		10 - 14		15 - 19		20 - 24		25 - 29		30 - 49		Count	Ave Pay	
	Count	Ave Pay	Count	Ave Pay	Count	Ave Pay	Count	Ave Pay	Count	Ave Pay	Count	Ave Pay	Count	Ave Pay			
15 - 19																	
20 - 24	1	8,729													1	8,729	
25 - 29																	
30 - 34	2	9,701	1	21,324											3	13,575	
35 - 39	2	14,433													2	14,433	
40 - 44	1	14,753	1	17,596	1	20,516									3	17,622	
45 - 49	2	19,393			1	23,410			1	20,655					4	20,713	
50 - 54	2	16,020	1	21,846											3	17,962	
55 - 59	4	19,834	2	26,299			1	37,791							7	24,247	
60 - 64	2	24,789													2	24,789	
65 - 69																	
70 - 109																	
All Ages	16		5		2		1		1		0		0		25		

Age is in completed years (age last birthday) on the census date.
 Service is completed years of credited service on the census date.
 Pay is the considered compensation for the preceding plan year.

**Oklahoma Municipal Retirement Fund
Bristow
SUMMARY OF NONACTIVE PARTICIPANTS**

January 1, 2002

Age Group	Males			Females			Total		
	Count	Benefit	Weighted Ave Age	Count	Benefit	Weighted Ave Age	Count	Benefit	Weighted Ave Age
<i>Retired Participants in Payment Status</i>									
55 - 59	1	1,950	59.47				1	1,950	59.47
60 - 64									
65 - 69	2	10,995	67.68	1	4,116	65.98	3	15,111	67.22
70 - 74									
75 - 79	1	3,879	78.37				1	3,879	78.37
80 - 84	1	5,750	80.27				1	5,750	80.27
85 - 89									
90 - 110									
Totals	5	22,574	72.02	1	4,116	65.98	6	26,691	71.08
Ave amount		4,514.88			4,116.12			4,448.42	
<i>Survivors in Payment Status</i>									
20 - 29				2	3,777	23.52	2	3,777	23.52
30 - 39									
40 - 49									
50 - 54									
55 - 59				1	977	59.14	1	977	59.14
60 - 64				1	3,480	64.08	1	3,480	64.08
65 - 69									
70 - 74									
75 - 79									
80 - 84									
85 - 89									
90 - 110									
Totals	0	0		4	8,234	44.89	4	8,234	44.89
Ave amount		0.00			2,058.54			2,058.54	
<i>Disabled Participants</i>									
20 - 29									
30 - 39									
40 - 49									
50 - 54	1	7,826	50.53				1	7,826	50.53
55 - 59									
60 - 64									
65 - 69									
70 - 74									
75 - 79									
80 - 84									
85 - 89									
90 - 110									
Totals	1	7,826	50.53	0	0		1	7,826	50.53
Ave amount		7,826.04			0.00			7,826.04	
<i>Deferred Vested Former Employees</i>									
20 - 29									
30 - 39									
40 - 49				1	3,015	41.21	1	3,015	41.21
50 - 54									
55 - 59									
60 - 64									
65 - 69									
Totals	0	0		1	3,015	41.21	1	3,015	41.21
Ave amount		0.00			3,015.36			3,015.36	
Grand Totals	6	30,400	66.48	6	15,366	49.82	12	45,766	60.89
Ave amount		5,066.74			2,560.94			3,813.84	

VIII

**Actuarial Report
for the City of
Bartlesville**

VIII Actuarial Report for the City of Bartlesville

This section contains a copy of the 2002 Actuarial Valuation of Funding Requirements for the Employee Retirement System of Bartlesville, Oklahoma. It is included because there are many aspects unique to this plan, including the plan provisions, actuarial cost method and actuarial assumptions.

**Oklahoma Municipal Retirement Fund
Employee Retirement System of Bartlesville, Oklahoma**

ACTUARIAL VALUATION OF FUNDING REQUIREMENTS

**Effective for the Year Starting
July 1, 2002**

May 8, 2002

Prepared by

DEAN & COMPANY
CONSULTING ACTUARIES
5646 MILTON STREET, SUITE 210
DALLAS, TX 75205
(214) 891-0990

INTRODUCTION

This report presents the results of an actuarial valuation of the Employee Retirement System of Bartlesville, Oklahoma.

The purposes of the valuation are:

- to determine the required contribution for the retirement program effective July 1, 2002.
- to provide accounting information required by GASB 25 (funding progress).

Exhibit 1 summarizes the required contribution level for the plan.

Exhibit 2 shows the detailed development of the contribution requirements for the year.

The actuarial value of assets (Exhibit 3) is related to market value, but smoothed to reduce the volatility of contribution requirements. The assets valuation method was revised this year to smooth market fluctuations over a 4-year period, rather than the 2-year period used last year.

GASB Statement 25 requires the employer to record its progress towards funding the retirement program (see Exhibit 4).

The remainder of the report summarizes the plan provisions, participant data and actuarial valuation assumptions.

Benefits for service under the plan through July 1, 1996 have been secured through annuity contracts with an insurance company. This valuation excludes both assets and liabilities related to these purchased annuities.

**Oklahoma Municipal Retirement System
Employee Retirement System of Bartlesville, Oklahoma**

SUMMARY OF REQUIRED CONTRIBUTION RATES

	Current Plan
	2% Career Ave
Employee contribution rate as a percent of pay	0.00%
Municipality-required contribution rate as a percent of participant payroll	8.41%
Total required contribution rate	8.41%

Notes:

The municipality-required contribution rate is actuarially measured each plan year as the amount necessary to fund the plan on a long term basis using the actuarial cost methods and assumptions adopted for the plan:

Cost Method	Unit Credit
Interest rate	7.5 % per annum
Pay Increases	5% per annum on average
Mortality	1994 Group Annuity Mortality (projected to 2002)
Retirement age	Age 65 or rates by age if Rule of 80 is met
Turnover	Rates by age
Asset value	Actuarial write up method

The required contribution rate changes each year, reflecting the investments earnings of the OMRF fund and the demographic experience of the participant group.

Plan 2% Career Ave, normal retirement age 65, 7 year vesting, 0 years certain, no COLA

**Oklahoma Municipal Retirement Fund
Employee Retirement System of Bartlesville, Oklahoma
Development of Plan Contribution Requirement**

	<i>Current Plan</i>
	2% Career Ave
Actuarial liability (unit credit cost method)	
Retired, survivors and deferred vested	\$ 1,619,508
Active employees	1,652,644
Total	\$ 3,272,152
Assets (actuarial value as of 1-1-2002)	1,921,264
Unfunded actuarial liability	\$ 1,350,888
Annual amount to amortize the unfunded actuarial liability over 26 years	\$ 115,307
Annual normal cost	374,305
Total annual cost	\$ 489,612
Valuation payroll as of 1-1-2002	\$ 5,824,388
Required total contribution as a percent of payroll (effective 7-1-2002)	8.41%

Notes

See Exhibit 3 for the development of the actuarial value of assets.

See Exhibits 6 and 7 for a description of the actuarial methods and assumptions used in the valuation.

See Exhibits 8 for a summary of the participants.

Plan 2% Career Ave, normal retirement age 65, 7 year vesting, 0 years certain, no COLA

Oklahoma Municipal Retirement Fund
Employee Retirement System of Bartlesville, Oklahoma

DEVELOPMENT OF THE ACTUARIAL VALUE OF ASSETS

1	Market Value of Assets as of 1/1/01	\$1,430,821
2	Actuarial Value of Assets as of 1/1/01	\$1,469,623
	Percent of Market Value	103%
3	Contributions	
	Employer	518,867
	Employee	0
4	Distributions	(124,658)
5	Assumed Yield at Valuation Rate (7.50%)	125,005
6	Preliminary Actuarial Value	1,988,837
7	Market Value of Assets as of 1/1/02	1,718,544
8	Adjustment	
	25% of market less preliminary value	(67,573)
9	Actuarial Value of Assets as of 1/1/02	\$1,921,264
	Percent of Market Value	112%

An actuarial technique is used to reduce the effect of fluctuations in market value on plan funding requirements.

The actuarial value of assets is equal to the prior year's value adjusted for cash flows and interest at the valuation rate. This amount is adjusted by a percentage of the difference between it and market, if it is outside a corridor of market value.

The corridor is set to 0 and the smoothing factor is set to 25%.

These changes will assure that the actuarial value follows the general pattern of market value while preserving a smoothing effect.

Oklahoma Municipal Retirement Fund
Employee Retirement System of Bartlesville, Oklahoma

SCHEDULE OF FUNDING PROGRESS

Actuarial Valuation Date	Value of Assets	Asset Valuation Basis	Actuarial Accrued Liability (AAL)*	Type*	Unfunded AAL (UAAL)	Funded Ratio	Covered Payroll	UAAL as a Percentage of Covered Payroll
1/1/98	188,676	Actuarial	2,229,875	PBO	2,041,199	8.5%	5,340,597	38.2%
1/1/98	188,676	Actuarial	366,584	UC	177,908	51.5%	5,340,597	3.3%
1/1/99	545,442	Actuarial	989,945	UC	444,502	55.1%	5,773,116	7.7%
1/1/00	1,020,473	Actuarial	1,371,407	UC	350,934	74.4%	5,606,521	6.3%
1/1/01	1,469,623	Actuarial	2,013,106	UC	543,483	73.0%	5,679,787	9.6%
1/1/02	1,921,264	Actuarial	3,272,152	UC	1,350,888	58.7%	5,824,388	23.2%

* For valuations prior to 1/1/98, GASB 5 required that the pension benefit obligation (PBO) be disclosed. GASB 25 which replaced GASB 5 requires that the actuarial liability used to fund the plan be used to measure funding progress.

GASB 25 results are shown in bold type. Both values are shown for 1/1/98 for comparative purposes.

The mortality table used in the actuarial valuation was updated effective with the 1/1/98 valuation. The new table is the 1994 GAM table with projected mortality improvement.

Covered payroll is the total annualized rate of pay as of the July 1 of the valuation date based on actual pay for the preceding year.

**Employee Retirement System Of
Bartlesville, Oklahoma**

PLAN SUMMARY

Eligibility	Two years of service (elapsed time method) excluding police and firefighters. Entry dates are on the July 1 following eligibility.
Retirement ages	
Normal	Age 65. Normal retirement date is first of the month on or after age 65 and completion of 7 years of service.
Early	Age 55 with 7 years of service
Vesting	7 years of service
Disability	Total and permanent disability with 7 or more years of service
Accrued Benefit	A life-only annuity payable at normal retirement age based on career average pay equal to the sum of the past service benefit and the future service benefit.
	<u>Past Service Benefit</u> is equal to
	2% of base pay rate on 7-1-78 times full years of service from hire to 7-1-78.
	Available only to employees whose participation in the plan began before 7-1-78.
	<u>Future Service Benefit</u> is equal to
	Accumulation of 2% of base pay rate in effect on each July 1 from 7-1-78 and after.
Retirement Benefits	
Normal	The Accrued Benefit is payable as a life only annuity or another annuity option with actuarial reduction. An employee may elect to defer the start of this annuity.
Late	Benefit accruals continue until actual retirement age.
Early	The Accrued Benefit is payable as a life only annuity starting at age 65. An employee may elect earlier payment reduced as follows:
	<u>If age plus service equals 80 or more:</u>
	Reduced 2% for each year the start date precedes normal retirement date.
	<u>If age plus service are less than 80:</u>
	Actuarially reduced (based on 6% interest and UP84 mortality).
Disability	The Accrued Benefit is payable during the period of disability up to age 65. The normal retirement benefit (not subject to continued disability) starts at age 65.
	If the employee becomes disabled after age 55 with less than 7 years of

service the actuarial equivalent of the Accrued Benefit is payable starting at age 65 (i.e. full vesting).

Vesting

100% vesting after 7 years of service and at normal retirement date.

The Accrued Benefit is payable at age 65 or an actuarially reduced amount may be elected starting on or after age 55.

Death Benefits

Married participants

The surviving spouse receives 50% of the participant's accrued benefit for life or until remarriage.

Unmarried participants

The beneficiary receives 120 monthly payments in the amount of 50% of the participant's accrued benefit at the time of death.

Payment Options

1. Life only annuity
2. Life with 5, 10, 15 or 20 years certain
3. Joint and 100% survivor annuity (spouse only)
4. Joint and 100% survivor annuity with 5, 10 or 15 years certain.

Actuarial equivalency based on 6% interest, UP84 mortality.

Employee Retirement System of Bartlesville, Oklahoma

SUMMARY OF THE ACTUARIAL COST METHOD

Pension funding requirements are allocated to periods of time using the unit credit cost method.

Under the unit credit cost method, the normal cost is computed as the present value of the increase in accrued retirement income for each employee's service during the following year.

The actuarial liability of the plan is the present value of the accrued retirement income earned to date. Present values are discounted for interest, mortality, turnover, and retirement rates by age.

The actuarial liability for non-active participants is the present value of future benefits anticipated to be paid to current retirees, beneficiaries and deferred vested participants, discounted for interest and mortality.

The unfunded actuarial liability (UAL) is the difference between the actuarial liability and the actuarial value of plan assets.

Experience gains (decreases in cost due to favorable experience), or experience losses (increases in cost due to adverse experience), attributable to deviations between the assumed and actual experience of the Plan, are amortized as part of the UAL.

Employee Retirement System of Bartlesville, Oklahoma

SUMMARY OF ACTUARIAL ASSUMPTIONS

Interest Rates		Male				Annual Pay Increase	Ratio of Pay at 65 to Pay at x	
		Age	Rates per Thousand					
			Mortality	Turnover	Disability			Retirement
Purpose	Rate							
Basic valuation		20	0.545	265.80	0.80	0	5.00%	8.99
Before retirement	7.50%	21	0.570	252.60	0.85	0	5.00%	8.56
After retirement	7.50%	22	0.598	240.40	0.91	0	5.00%	8.15
		23	0.633	228.00	0.96	0	5.00%	7.76
Mortality Tables		24	0.671	216.40	1.01	0	5.00%	7.39
Before retirement	UP 1994p2002	25	0.711	205.40	1.07	0	5.00%	7.04
After retirement	UP 1994p2002	26	0.749	195.80	1.15	0	5.00%	6.70
with projected mortality improvement		27	0.782	186.60	1.23	0	5.00%	6.39
		28	0.811	177.60	1.31	0	5.00%	6.08
Pay Increase Assumption		29	0.838	169.00	1.39	0	5.00%	5.79
Annual rates of pay increase		30	0.862	160.40	1.47	0	5.00%	5.52
as shown (5%)		31	0.883	152.40	1.60	0	5.00%	5.25
		32	0.902	144.40	1.73	0	5.00%	5.00
Turnover		33	0.912	136.80	1.87	0	5.00%	4.76
Age-related rates as shown		34	0.913	129.20	2.00	0	5.00%	4.54
		35	0.915	122.00	2.13	0	5.00%	4.32
Retirement Age		36	0.927	115.20	2.40	0	5.00%	4.12
Rates of retirement as shown		37	0.953	108.60	2.67	0	5.00%	3.92
Rates are only applied if the employee is		38	0.998	102.20	2.93	0	5.00%	3.73
eligible for Rule of 80 retirement.		39	1.053	96.00	3.20	0	5.00%	3.56
		40	1.117	90.00	3.47	0	5.00%	3.39
Other Assumptions		41	1.188	84.40	3.97	0	5.00%	3.23
Percent married	100%	42	1.267	78.80	4.48	0	5.00%	3.07
Husband/wife age difference	3	43	1.346	73.20	4.99	0	5.00%	2.93
		44	1.424	68.00	5.49	0	5.00%	2.79
Increase in Social Security		45	1.508	62.80	6.00	0	5.00%	2.65
Wage Base	4.50%	46	1.608	58.00	6.00	0	5.00%	2.53
		47	1.729	53.20	6.00	0	5.00%	2.41
		48	1.862	48.40	6.00	0	5.00%	2.29
		49	2.001	44.00	6.00	0	5.00%	2.18
		50	2.150	39.60	6.00	0	5.00%	2.08
		51	2.316	35.60	6.80	0	5.00%	1.98
		52	2.501	31.60	7.60	0	5.00%	1.89
		53	2.734	27.60	8.40	0	5.00%	1.80
		54	2.974	24.00	9.20	0	5.00%	1.71
		55	3.305	20.40	10.00	50	5.00%	1.63
		56	3.701	17.20	11.23	50	5.00%	1.55
		57	4.186	14.00	12.45	50	5.00%	1.48
		58	4.750	10.80	13.68	50	5.00%	1.41
		59	5.260	7.60	14.91	50	5.00%	1.34
		60	5.823	4.60	16.13	100	5.00%	1.28
		61	6.622	2.00	16.13	100	5.00%	1.22
		62	7.388	1.00	16.13	300	5.00%	1.16
		63	8.430	0.00	16.13	150	5.00%	1.10
		64	9.376	0.00	16.13	150	5.00%	1.05
		65	10.384	0.00	0.00	1000	5.00%	1.00

Oklahoma Municipal Retirement Fund
 Bartlesville
AGE AND SERVICE OF ACTIVE PARTICIPANTS
 1/1/02

Age Group	Years of Service														All Service	
	0 - 4		5 - 9		10 - 14		15 - 19		20 - 24		25 - 29		30 - 49		Count	Ave Pay
	Count	Ave Pay	Count	Ave Pay	Count	Ave Pay	Count	Ave Pay	Count	Ave Pay	Count	Ave Pay	Count	Ave Pay		
15 - 19																
20 - 24	3	20,467													3	20,467
25 - 29	5	21,990	3	34,486											8	26,676
30 - 34	4	27,300	3	23,747	7	29,774									14	27,775
35 - 39	4	21,668	5	33,118	8	31,717	7	32,368	1	35,714					25	30,732
40 - 44	2	32,916	4	36,270	12	30,070	10	32,107	11	34,891	2	35,329			41	32,860
45 - 49	1	45,386	4	22,422	6	30,351	10	32,346	9	36,529	5	33,771			35	32,522
50 - 54			4	37,820	6	38,549	6	34,497	5	39,857	2	34,611	1	32,136	24	37,092
55 - 59	2	26,208					4	29,754	7	35,607	3	44,831	4	38,262	20	35,411
60 - 64					2	24,825	1	33,072			1	29,390	3	30,659	7	29,156
65 - 69															1	39,478
70 - 109																
All Ages	21		23		41		38		33		13		8		178	

Age is in completed years (age last birthday) on the census date.
 Service is completed years of credited service on the census date.
 Pay is the considered compensation for the preceding plan year.

**Oklahoma Municipal Retirement Fund
Bartlesville
SUMMARY OF NONACTIVE PARTICIPANTS**

January 1, 2002

Age Group	Males			Females			Total		
	Count	Benefit	Weighted Ave Age	Count	Benefit	Weighted Ave Age	Count	Benefit	Weighted Ave Age
<i>Retired Participants in Payment Status</i>									
55 - 59	3	14,609	56.09				3	14,609	56.09
60 - 64	3	8,483	63.04	3	10,405	62.23	6	18,888	62.59
65 - 69	5	8,605	67.28	1	1,065	66.39	6	9,670	67.19
70 - 74	2	3,711	71.67				2	3,711	71.67
75 - 79									
80 - 84									
85 - 89									
90 - 110									
Totals	14	43,625	60.01	4	11,470	62.61	18	55,095	60.55
Ave amount		3,116.07			2,867.52			3,060.84	
<i>Survivors in Payment Status</i>									
20 - 29									
30 - 39									
40 - 49									
50 - 54									
55 - 59									
60 - 64									
65 - 69									
70 - 74	1	9,936	72.77				1	9,936	72.77
75 - 79									
80 - 84									
85 - 89									
90 - 110									
Totals	1	9,936	72.77	0	0	0.00	1	9,936	72.77
Ave amount		9,935.64			0.00			9,935.64	
<i>Disabled Participants</i>									
20 - 29									
30 - 39									
40 - 49	1	7,822	42.96				1	7,822	42.96
50 - 54	1	11,802	51.24				1	11,802	51.24
55 - 59				1	7,142	59.32	1	7,142	59.32
60 - 64	4	28,491	63.03				4	28,491	63.03
65 - 69	1	9,575	66.29				1	9,575	66.29
70 - 74									
75 - 79									
80 - 84									
85 - 89									
90 - 110									
Totals	7	57,690	58.44	1	7,142	59.32	8	64,832	58.53
Ave amount		8,241.41			7,142.04			8,103.99	
<i>Deferred Vested Former Employees</i>									
20 - 29				2	13,059	39.29	2	13,059	39.29
30 - 39				2	22,622	43.52	8	72,986	45.97
40 - 49	6	50,364	47.07	1	12,119	50.35	1	12,119	50.35
50 - 54							1	13,787	57.82
55 - 59	1	13,787	57.82				1	13,787	57.82
60 - 64									
65 - 69									
Totals	8	86,999	55.00	5	47,799	44.10	13	134,799	51.13
Ave amount		10,874.91			9,559.87			10,369.13	
Grand Totals	30	198,250	57.99	10	66,411	48.93	40	264,661	55.72
Ave amount		6,608.33			6,641.15			6,616.53	