



**WAYNE COUNTY
EMPLOYEES' RETIREMENT SYSTEM**

SIXTY-SECOND ANNUAL ACTUARIAL VALUATION

SEPTEMBER 30, 2005

Submitted to

THE RETIREMENT COMMISSION

Wayne County Employees' Retirement System

GRS
Gabriel Roeder Smith & Company



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September 20, 2006

The Retirement Commission
Wayne County Employees' Retirement System
Detroit, Michigan

Dear Commission Members:

The results of the **Sixty-Second Annual Actuarial Valuation** of the assets, actuarial present values and contribution rates needed to fund benefits provided by the Wayne County Employees' Retirement System are presented in this report. The purpose of this valuation was to measure the System's funding progress and to recommend a contribution rate for the fiscal year beginning October 1, 2006.

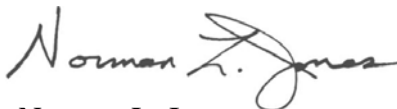
The date of the valuation was September 30, 2005.

Valuation results and comments are presented in Section A.

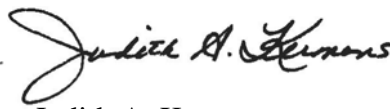
The valuation was based upon information, furnished by your Executive Secretary and his staff concerning Retirement System benefits, financial assets and transactions, individual members, terminated members, retired members and beneficiaries. Data was checked for year-to-year consistency, but was not otherwise audited. This information is summarized in Section B.

To the best of our knowledge, this report is complete and accurate and was made in accordance with standards of practice prescribed by the Actuarial Standards Board and in compliance with the Retirement System Ordinance. The actuarial assumptions used for the valuation were adopted by the Retirement Commission pursuant to the 5-year experience study for the period October 1, 1999 through September 30, 2004, and produce results which, in the aggregate, appear to be reasonable.

Respectfully submitted,



Norman L. Jones



Judith A. Kermans



Brad L. Armstrong

NLJ/JAK/clb:lr

SECTION A



Valuation Results and Comments

FUNDING OBJECTIVE

The funding objective for the Retirement System is to establish and receive percent of payroll contributions which, when invested at the assumed rate of return, will accumulate assets over each member's working years that will be sufficient to pay expected retirement benefits.

CONTRIBUTION RATES

The Retirement System is supported by member contributions, County contributions and investment income on Retirement System assets. Members contribute percentages of their pay (by Ordinance and/or collective bargaining agreement) and the County contributes the actuarially determined remainder needed to meet the funding objective.

Contributions are determined by the actuarial valuation and are sufficient to:

- (1) cover the actuarial costs allocated to the current year by the actuarial cost method (the normal cost); and
- (2) finance over a period of future years the actuarial costs not covered by present assets and anticipated future normal costs (unfunded actuarial accrued liability).

Contribution requirements for the fiscal year beginning October 1, 2006 are shown on page A-2.

**CONTRIBUTIONS TO FINANCE DEFINED BENEFIT PLANS
OF THE RETIREMENT SYSTEM
FOR THE FISCAL YEAR BEGINNING OCTOBER 1**

Defined Benefit Plans - Contributions for	2006	2005
Normal Cost		
Service allowances	8.73 %	9.62 %
Disability allowances	0.84 %	0.93 %
Survivor allowances	0.41 %	0.39 %
Termination benefits		
Deferred service allowances	0.24 %	0.23 %
Refunds of member contributions	0.00 %	0.00 %
Total Normal Cost	10.22 %	11.17 %
Less Portion Paid by Members*	0.90 %	1.09 %
County Defined Benefit Normal Cost	9.32 %	10.08 %
Unfunded Actuarial Accrued Liability#	6.71 %	3.72 %
Total Computed Employer Rate	16.03 %	13.80 %

* Weighted average of the various contribution rates.

Amortized as a level percent of pay over an open period of 20 years.

Historical contribution rates for prior fiscal years are shown on page A-3. The total computed employer contribution rates shown on this page are meant to be applied to Plan 1, 2, 3 and 5 payroll to determine dollar contributions from the County into the Retirement System.

**HISTORICAL SCHEDULE OF NORMAL COST RATES
AND UNFUNDED ACTUARIAL ACCRUED LIABILITIES
CONTRIBUTION AMOUNTS FOR DEFINED BENEFIT PLANS**

Fiscal Year Beginning	Valuation Date September 30+	Normal Cost Rate	UAAL Contribution Rate	Total Contribution Rate
1991	1990	11.55 %	N/A	N/A
1992	1991#@	11.33 %	N/A	N/A
1993	1992*	12.45 %	N/A	N/A
1994	1993*	13.11 %	N/A	N/A
1995	1994	13.06 %	N/A	N/A
1996	1995*	14.62 %	N/A	N/A
1997	1996*@	12.36 %	N/A	N/A
1998	1997*	12.52 %	N/A	N/A
1999	1998#	13.18 %	N/A	N/A
2000	1999	13.14 %	(8.35)%	4.79 %
2001	2000	13.14 %	(13.14)%	0.00 %
2002	2001*	14.49 %	(11.35)%	3.14 %
2003	2002	12.39 %	(4.33)%	8.06 %
2004	2003	11.10 %	1.20 %	12.30 %
2005	2004#	10.08 %	3.72 %	13.80 %
2006	2005	9.32 %	6.71 %	16.03 %

* Benefit changes are reflected in this valuation.

After assumption changes.

@ Adjustment made to funding value of assets.

+ Valuations before 1998 were based on a fiscal year ending November 30.

Note: Hybrid Plan 5 exists September 30, 2003 and later.

FUNDING PROGRESS INDICATORS

The funding progress and status of the defined benefit plans is measured by the following indicators:

- **The ratio of the funding value of assets to accrued liabilities.** The ratio is expected to hold steady or gradually move toward 100% in the absence of benefit improvements.
- **The ratio of the unfunded actuarial accrued liability to member payroll.** In a soundly financed retirement system, the amount of the unfunded actuarial accrued liabilities will be controlled and prevented from increasing in the absence of benefit improvements. The ratio is a relative indicator of the condition in an inflationary environment.

Valuation Date September 30###	Accrued Liability	Funding Value of Assets(1)	Funded Ratio	Member Payroll +	Unfunded Actuarial Accrued Liability	
					Dollars	% of Payroll
(\$ in thousands)						
1986	\$ 615,503	\$ 570,016	93%	\$125,131	\$45,487	36 %
1987	648,388	586,559	90%	134,890	61,829	46 %
1988	657,258	608,928	93%	135,941	48,330	36 %
1989	668,021	633,653	95%	147,799	34,368	23 %
1990	680,676	643,173	94%	157,406	37,503	24 %
1991#@	720,838	724,554	101%	166,936	(3,716)	-
1992*	761,660	730,036	96%	180,686	31,624	18 %
1993*	777,454	749,538	96%	184,010	27,916	15 %
1994	783,534	766,070	98%	182,662	17,464	10 %
1995*	829,174	781,424	94%	192,903	47,750	25 %
1996@*	861,655	861,655	100%	208,569	0	-
1997*	870,052	877,926	101%	224,075	(7,874)	-
1998#	906,620	933,000	103%	230,989	(26,380)	-
1999	915,339	965,798	106%	256,379	(50,458)	-
2000	947,557	1,028,626	109%	275,627	(81,069)	-
2001*	979,176	1,041,645	106%	294,128	(62,469)	-
2002	1,010,744	1,043,282	103%	308,962	(32,538)	-
2003	1,007,734	996,621	99%	289,250	11,113	4 %
2004#	959,697	910,056	94%	343,330	49,642	14 %
2005	969,333	891,427	92%	298,581	77,906	26 %

* Benefit changes are reflected in this valuation.

After changes in assumptions.

+ Includes defined contribution Plan 4 payroll.

(1) Reserve for inflation equity not included in this schedule.

@ After one time adjustment of funding value of assets.

Valuations before 1998 were based on a fiscal year ending November 30.

Note: Hybrid Plan 5 exists September 30, 2003 and later.

COMMENTS ON THE ACTUARIAL VALUATION

COMMENT A: This year, the computed employer contribution rate increased by over 2% of payroll. This increase is primarily due to the net effect of the Early Retirement Incentives provided in 2004 and the net recognized investment losses this year.

COMMENT B: The Market Value rate of return was 14.5%, which exceeds the assumed rate of 8.0%. However, under the asset valuation method, gains and losses are spread over a 4-year period. The net result of this year's Market Value gain, and carryover gains and losses from prior years, is a net loss of \$8.0 million. As of September 30, 2005, the Market Value of assets exceeds the Funding Value by \$45.7 million. This means that, barring any significant data changes or plan changes, if future plan experience is in accordance with expectations, the funded ratio is expected to increase.

COMMENT C: Computed actuarial accrued liabilities exceed the Funding Value of assets by \$77.9 million. Unfunded actuarial accrued liabilities are currently being amortized over a 20-year period in accordance with Retirement Commission policy. The 20-year amortization period (changed from 15-year) was first adopted for the September 30, 2004 valuation.

COMMENT D: This year, significant changes were incorporated as retirement system staff continues to refine data collection processes. The changes resulted in movement towards better reporting of pay amounts (W-2 amounts are still needed) for defined benefit plan members and the elimination of a few hundred people who were previously reported as being eligible for a defined benefit (but were not eligible). These people included members of the State System, temporary and contract employees and members who returned to work but are not accruing benefits. Liabilities were increased by 1% to reflect data uncertainties.

COMMENT E: The Reserve for Undistributed Investment Income and Expenses was adjusted on a one-time basis to reflect a balance of \$10 million, as requested by WCERS staff (see page B-8).

COMMENT F: Actuarial Accrued Liabilities were adjusted by 2% to account for potential refunds due from the accumulated employee contributions reserve that were not reported.

COMMENT G: We have not yet received audited financial information. The information in this report is based on unaudited information received from WCERS staff. If audited information is substantially different, this valuation will need to be redone.

CONCLUSION: The Wayne County Employees' Retirement System is 92% funded (net of the Inflation Equity Fund), indicating a solid financial position and progress in recovering from one of the worst investment markets since the Great Depression.

ACTUARIAL BALANCE SHEET - SEPTEMBER 30, 2005

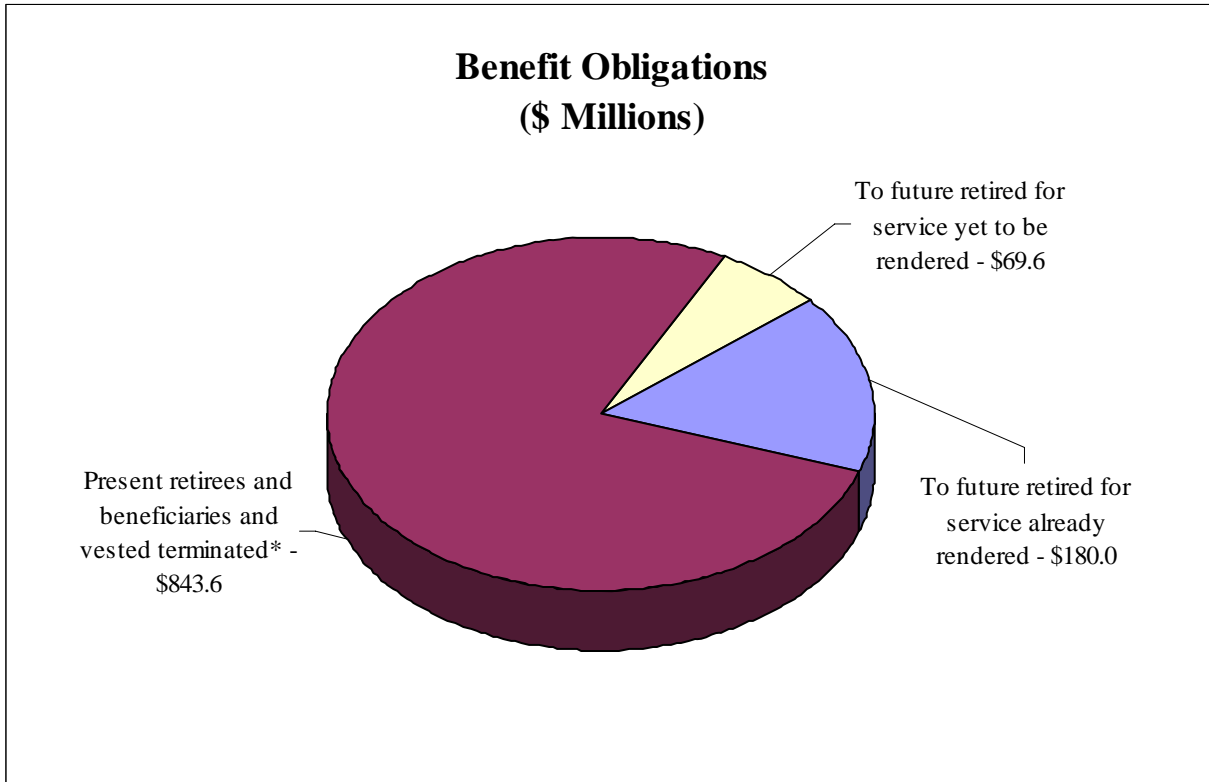
Present Resources and Expected Future Resources

A. Valuation assets	
1. Net assets from system financial statements (market value)	\$ 991,448,564
2. Valuation adjustment	(45,700,796)
3. Valuation assets	945,747,768
B. Actuarial present value of expected future employer contributions	
1. For normal costs	66,219,816
2. For unfunded actuarial accrued liabilities	77,905,935
3. Total	144,125,751
C. Actuarial present value of expected future member contributions	3,390,645
D. Total Actuarial Present Value of Present and Expected Future Resources	\$1,093,264,164

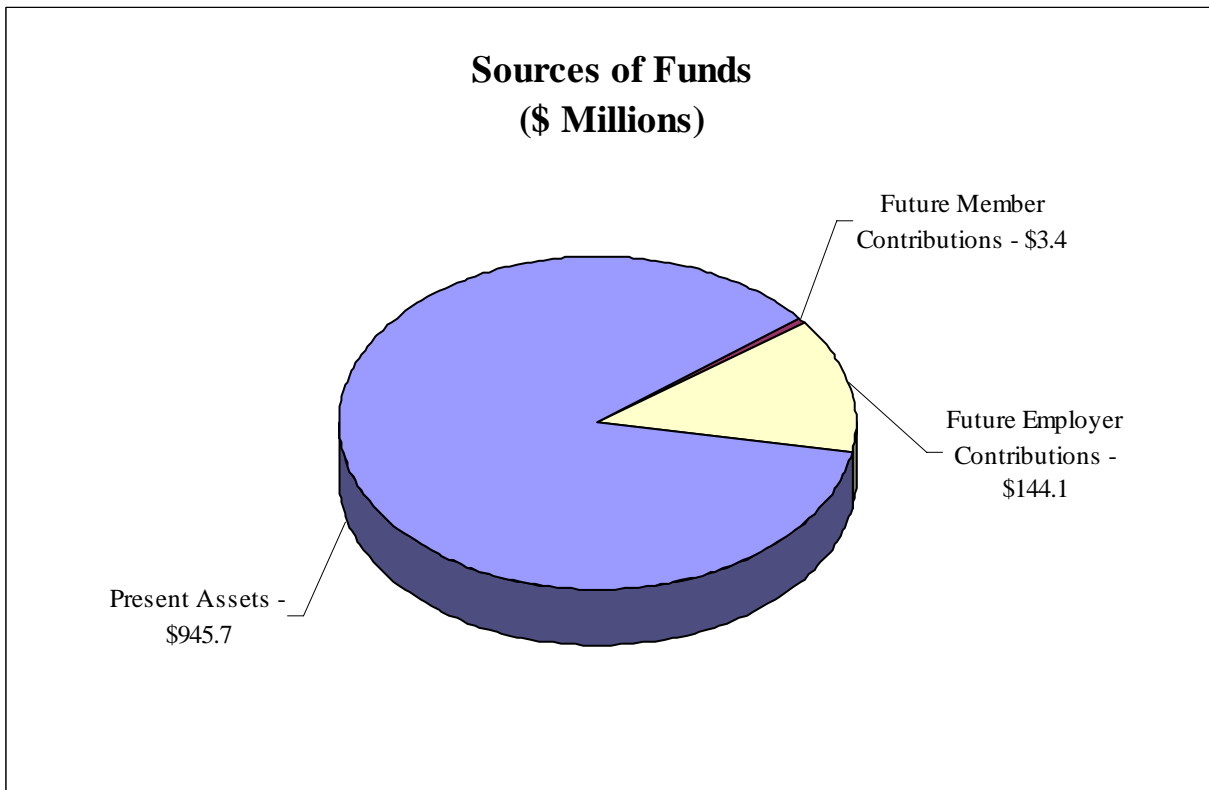
Actuarial Present Value of Expected Future Benefit Payments and Reserves

A. To retired members and beneficiaries	\$ 784,906,263
B. To vested terminated members	4,389,815
C. To present active members	
1. Allocated to service rendered prior to valuation date	180,036,610
2. Allocated to service likely to be rendered after valuation date	69,610,461
3. Total	249,647,071
D. Total Actuarial Present Value of Expected Future Benefit Payments	1,038,943,149
E. Reserve for Inflation Equity	54,321,015
F. Total Actuarial Present Value of Expected Future Benefit Payments and Reserves	\$1,093,264,164

**FINANCING \$1,093.2 MILLION OF BENEFIT PROMISES
SEPTEMBER 30, 2005**



* Includes Inflation Equity Fund



SECTION B



Summary of Benefit Provisions and Valuation Data

BRIEF SUMMARY OF BENEFIT PROVISIONS
DEFINED BENEFIT PLAN 1
(SEPTEMBER 30, 2005)

Availability

Defined Benefit Plan 1 was closed to new hires on August 15, 1983
(or on the date in a negotiated agreement).

Normal Retirement (no reduction factor for age):

Eligibility - Sheriff: 25 years of service or age 60 with 5 years of service.
Others: Age 50 with 25 years of service, age 60 with 5 years of service or any age with 30 years of service.

Pension Amount – Total service times 2.65% of average final compensation.

Maximum pension is 75% of AFC (less worker's compensation payments). Minimum monthly pension is \$5 times years of service.

Average Final Compensation (AFC) - Monthly average of covered compensations for best 4 years of credited service. Some lump sums, overtime & premium pay are included.

Vested Termination (deferred retirement):

Eligibility - 8 years of service. Pension begins at age 60.

Pension Amount - Computed as normal retirement but based upon service and AFC at time of termination.

Duty Disability Retirement:

Eligibility - No age or service requirements.

Pension Amount - Computed as normal retirement with additional service credit granted from date of retirement to age 60. Minimum pension is \$4,800 annually. Maximum pension is the lesser of 75% of AFC, and 100% of AFC less outside earnings and social security disability benefits. Worker's compensation payments offset the maximum.

Non-Duty Disability Retirement:

Eligibility - 10 years of service.

Pension Amount - Computed as normal retirement but based on service and AFC at time of termination.

BRIEF SUMMARY OF BENEFIT PROVISIONS
DEFINED BENEFIT PLAN 1
(SEPTEMBER 30, 2005)

Duty Death Before Retirement:

Eligibility - No age or service requirements.

Pension Amount - Pension to the spouse is computed as a normal retirement but actuarially reduced in accordance with a 100% joint and survivor election. Additional service credit is granted from date of death to date the deceased member would have attained 60 years of age. If there is no eligible spouse, unmarried children under age 18 receive equal shares of 50% of normal retirement pension. Spouse's pension shall not be less than \$4,800. Worker's compensation payments offset the maximum.

Non-Duty Death Before Retirement:

Eligibility - 10 years of service.

Pension Amount - Pension to the spouse is computed as a normal retirement but actuarially reduced in accordance with a 100% joint and survivor election. If there is no eligible spouse, unmarried children under age 18 receive equal shares of 50% of normal retirement pension.

Post-Retirement Cost-of-Living Adjustment:

Eligible for distributions from Reserve for Inflation Equity.

Member Contributions:

Sheriff Command Officers and Deputies: 5.00% of annual compensation.

Others:

Credited Service	Contribution Rate*
0 yrs. thru 8 yrs.	6.00% or 6.58% of compensation
9 yrs. thru 12 yrs.	4.00% or 4.58% of compensation
13 yrs. thru 16 yrs.	3.00% or 3.58% of compensation
17 yrs. or more	2.00% or 2.58% of compensation

* Contribution rate is determined by coverage group from collective bargaining agreement.

BRIEF SUMMARY OF BENEFIT PROVISIONS
DEFINED BENEFIT PLAN 2
(SEPTEMBER 30, 2005)

Availability - Defined Benefit Plan 2 was available to persons hired after August 15, 1983 and to DBP 1 and DBP 3 members who elect to be covered by DBP 2. **Eligibility to enter this Plan ceased as of October 1, 2001.**

Normal Retirement (no reduction factor for age):

Eligibility - Age 55 with 25 years of service or age 60 with 20 years of service; or, age 65 with 8 years of service. Sheriffs may retire with 25 years of service regardless of age.

Pension Amount - Average final compensation multiplied by the sum of a) 1% of credited service up to 20 years; and, b) 1.25% of credited service over 20 years. Maximum County financed portion is 75% of AFC.

Average Final Compensation (AFC) - Monthly average of covered compensation for the best 5 years of credited service. Covered compensation includes overtime, premium and holiday pay, but not lump sums.

Vested Termination (deferred retirement):

Eligibility - 8 years of service. Pension begins at age 65.

Pension Amount - Computed as normal retirement based on service and AFC at time of termination.

Duty Disability Retirement:

Eligibility - No age or service requirements.

Pension Amount - Computed as normal retirement with additional service credit granted from date of retirement to age 60. Maximum pension is the lesser of 75% of AFC, and 100% of AFC less outside earnings and social security disability benefits. Worker's compensation payments offset the maximum. Minimum pension for Sheriff Command Officers and Probate GAA is 75% of AFC.

Non-Duty Disability Retirement:

Eligibility - 10 years of service.

Pension Amount - Computed as normal retirement but based on service and AFC at time of termination.

Death Before Retirement:

Eligibility - 10 years of service; or age 65 and 8 years of service (any amount of service if Duty related).

Pension Amount - Pension to the spouse is computed as a normal retirement but actuarially reduced in accordance with a 100% joint and survivor election. If there is no eligible spouse, unmarried children under 18 receive equal shares of 50% of normal retirement pension.

Post-Retirement Cost-of-Living Adjustment:

Eligible for distributions from the Reserve for Inflation Equity.

Member Contributions:

None.

BRIEF SUMMARY OF BENEFIT PROVISIONS
DEFINED BENEFIT PLAN 3
(SEPTEMBER 30, 2005)

Availability - Defined Benefit Plan 3 was available to persons last hired prior to August 15, 1983; and, to other persons if offered by collective bargaining agreement. **Eligibility to enter this Plan ceased as of October 1, 2001.**

Normal Retirement (no reduction factor for age):

Eligibility - Age 55 with 25 years of service; or age 60 with 20 years of service; or age 65 with 5 years of service. Sheriff Command may retire with 25 years of service regardless of age.

Pension Amount - Average final compensation multiplied by the sum of a) 1.5% of credited service up to 20 years; and b) 2.0% of credited service between 20 and 25 years; and, c) 2.5% of credited service over 25 years. Maximum County financed portion is 75% of AFC.

Average Final Compensation (AFC) - Monthly average of covered compensation for the last 5 years of credited service. Covered compensation includes overtime, premium and holiday pay, up to 320 hours of lump sum payments for unused sick leave and up to 120 hours of lump sum payments for unused vacation time.

Vested Termination (deferred retirement):

Eligibility - 8 years of service. Pension begins at age 65.

Pension Amount - Computed as normal retirement but based upon service and AFC at time of termination.

Duty Disability Retirement:

Sheriff Command Officers and Probate GAA receive 75% of AFC.

Others: covered outside of Retirement System.

Non-Duty Disability Retirement:

Covered outside of Retirement System.

Non-Duty Death Before Retirement:

Eligibility - 10 years of service; or, age 65 with 5 years of service (any amount of service if Duty related).

Pension Amount - Pension to the spouse is computed as a normal retirement but actuarially reduced in accordance with a 100% joint and survivor election. If there is no eligible spouse, unmarried children under age 18 receive equal shares of 50% of normal retirement pension.

Post-Retirement Cost-of-Living Adjustment:

Eligible for distributions from the Reserve for Inflation Equity.

Member Contributions:

3% of covered compensation.

BRIEF SUMMARY OF BENEFIT PROVISIONS
DEFINED CONTRIBUTION PLAN 4
(SEPTEMBER 30, 2005)

Defined Contribution Plan 4 is not included in this valuation with the exception of the following provision covered under the Defined Benefit Plans:

Duty Disability Retirement:

Sheriff Deputy Officers receive 75% of AFC.

Eligibility – No age or service requirements.

The Duty Disability benefit is partially funded by the member's account balance and may be offset by worker's compensation benefits, if any.

Members in Plan 4 are eligible to roll account balances into Defined Benefit Plan 5 to receive a defined benefit. This benefit would be based on the amount of service that can be purchased by the member's account balance.

BRIEF SUMMARY OF BENEFIT PROVISIONS
HYBRID PLAN 5
(SEPTEMBER 30, 2005)

Availability - Hybrid Plan 5 is obligatory for persons hired after October 1, 2001. Exempt employees may choose between Plan 5 and DC Plan 4. Members may transfer from Plan 4 into this Plan.

DEFINED BENEFIT PROVISIONS

Normal Retirement (no reduction for age):

Eligibility - Age 55 with 25 years of service; or age 60 with 20 years of service; or age 65 with 8 years of service. Sheriffs may retire with 30 years of service regardless of age.

Pension Amount - Average final compensation multiplied by the sum of a) 1.25% of credited service up to 20 years; and b) 1.5% of credited service over 20 years. Maximum pension is 75% of AFC (less worker's compensation payments).

Average Final Compensation (AFC) - Monthly average of covered compensation for the last 5 years of credited service. Covered compensation includes overtime and premium pay.

Vested Termination (deferred retirement):

Eligibility - 8 years of service. Pension begins at age 65.

Pension Amount - Computed as normal retirement but based upon service and AFC at time of termination.

Duty Disability Retirement:

Eligibility - No age or service requirements.

Pension Amount - Computed as normal retirement with additional service credit granted from date of retirement to age 60. Worker's compensation payments and Federal Social Security benefit payments offset the defined benefit portion of the pension.

Non-Duty Disability Retirement:

Eligibility - 10 years of service.

Pension Amount - Computed as normal retirement but based on service and AFC at time of termination.

Duty Death Before Retirement:

Eligibility - No age or service requirements.

BRIEF SUMMARY OF BENEFIT PROVISIONS
HYBRID PLAN 5
(SEPTEMBER 30, 2005)

Pension Amount - Pension to the spouse is computed as a normal retirement but actuarially reduced in accordance with a 100% joint and survivor election. Additional service credit is granted from date of death to date the deceased member would have attained 60 years of age. If there is no eligible spouse, unmarried children under age 18 receive equal shares of 50% of normal retirement pension. Worker's compensation payments offset the maximum.

Non-Duty Death Before Retirement:

Eligibility - 10 years of service.

Pension Amount - Pension to the spouse is computed as a normal retirement but actuarially reduced in accordance with a 100% joint and survivor election. If there is no eligible spouse, unmarried children under age 18 receive equal shares of 50% of normal retirement pension.

Post-Retirement Cost-of-Living Adjustment:

Eligible for distributions from the Reserve for Inflation Equity.

Member Contributions:

None.

DEFINED CONTRIBUTION PROVISIONS

Contributions:

6% of base compensation (3% member plus 3% employer). Contributions are invested by the members based on investment options established by the Retirement Commission. Contribution balances are credited with actual net market rates of return of the selected investments.

Vesting:

Member portion – 100% immediately.

Employer portion – 50% after 1 year of total service
75% after 2 years of total service
100% after 3 years of total service

Distribution Options:

Terminating members may choose between:

- Lump sum distribution of vested account balance, or
- Rollover of vested account balance to a qualified plan, or
- Annuitized vested account balance if the member is also eligible for a defined benefit pension.

**DEFINED BENEFIT PLANS RESERVE BALANCES
(INCLUDING ADJUSTING ENTRIES)**

Accounts	Reserve Balances September 30, 2005
Reserve for Accum. Member Contributions	\$ 52,318,246
Reserve for DB Employer Contributions	89,903,040
Reserve for Pension Payments	784,906,263
Reserve for Inflation Equity	54,321,015
Reserve for Undist. Investment Income & Exp.	10,000,000
Total Reserve Balances (Market Value)	\$991,448,564

Note: The Reserve for Undistributed Investment Income and Expenses was adjusted on a one-time basis to have a balance of \$10 million, as instructed by WCERS staff.

DEVELOPMENT OF FUNDING VALUE OF RETIREMENT SYSTEM ASSETS

Year Ended September 30:	2003	2004	2005	2006	2007	2008
A. Funding Value Beginning of Year	\$1,139,243,294	\$1,075,427,476	\$975,542,640			
B. Market Value End of Year	973,714,944	956,006,814	991,448,564			
C. Market Value Beginning of Year	967,999,904	973,714,944	956,006,814			
D. Non-Investment Net Cash Flow	(96,135,483)	(98,056,791)	(96,018,660)			
E. Investment Income						
E1. Market Total: B - C - D	101,850,523	80,348,661	131,460,410			
E2. Amount for Immediate Recognition	87,294,044	82,111,926	74,202,665			
E3. Amount for Phased-In Recognition: E1-E2	14,556,479	(1,763,265)	57,257,745			
F. Phased-In Recognition of Investment Income						
F1. Current Year: 0.25 x E3	3,639,120	(440,816)	14,314,436			
F2. First Prior Years	(25,491,617)	3,639,120	(440,816)	\$14,314,436		
F3. Second Prior Years	(61,646,658)	(25,491,617)	3,639,120	(440,816)	\$14,314,436	
F4. Third Prior Years	28,524,776	(61,646,658)	(25,491,617)	3,639,120	(440,816)	\$14,314,436
F5. Total Recognized Investment Gain	(54,974,379)	(83,939,971)	(7,978,877)	17,512,740	13,873,620	14,314,436
G. Funding Value End of Year: A + D + E2 + F5	\$1,075,427,476	\$ 975,542,640	\$945,747,768			
H. Difference between Market & Funding Value	(101,712,532)	(19,535,826)	45,700,796	28,188,056	14,314,436	0
I. Recognized Rate of Return	3.0%	(0.2)%	7.1%			
J. Market Value Rate of Return	11.1%	8.7%	14.5%			
K. Ratio of Funding Value to Market Value	110.4%	102.0%	95.4%			

The Funding Value of Assets recognizes assumed investment income (line E2) fully each year. Differences between actual and assumed investment income (line E3) are phased in over a closed 4-year period. During periods when investment performance exceeds the assumed rate, Funding Value of Assets will tend to be less than Market Value. During periods when investment performance is less than the assumed rate, Funding Value of Assets will tend to be greater than Market Value. The Funding Value of Assets is *unbiased* with respect to Market Value. At any time it may be either greater or less than Market Value. If assumed rates are exactly realized for 3 consecutive years, it will become equal to Market Value.

DERIVATION OF RESERVE FOR INFLATION EQUITY

	September 30, 2004	September 30, 2005
Rate of investment return		
(1) Actual return on funding value of assets	(0.18)%	7.14 %
(2) Threshold return	8.00 %	8.00 %
(3) Excess, if any, of (1) over (2)	0.00 %	0.00 %
Actuarial present value of pensions	\$713,188,853	\$784,906,263
Dollars available for allocation	0	0
Reserve balance - start of year	78,806,562	65,486,997
Disbursements during year	13,319,565	11,165,981
Transfer for minimum pensions	0	0
Current year addition	0	0
Reserve balance - end of year	\$ 65,486,997	\$ 54,321,016
Reserve for year end transfer	N/A	N/A

**APPLICATION OF THE FUNDING VALUE
OF DEFINED BENEFIT PLAN ASSETS
IN FINANCING ACTUARIAL ACCRUED LIABILITIES**

Reserve for	Applied To		
	Active & Inactive Members	Retired Members and Beneficiaries	Totals
Accumulated Member Contributions	\$ 52,318,246		\$ 52,318,246
DB Employer Contributions	54,202,244		54,202,244
Pension Payments		\$784,906,263	784,906,263
Total Assets Applied			891,426,753
Inflation Equity Reserve			54,321,015
Funding Value of Assets*			\$945,747,768

* Development of the funding value of assets is shown on page B-9.

RETIRED MEMBERS AND BENEFICIARIES ADDED AND REMOVED

Year Ended Sept. 30	Added		Removed		Net Increase		End of Year	
	No.	Annual Pensions	No.	Annual@ Pensions	No.	Annual Pensions	No.	Annual Pensions
1970	298	\$1,887,508	148	\$ 307,186	150	\$1,580,322	2,454	\$ 7,067,753
1975	323	2,300,782	129	575,157	194	1,725,625	3,277	14,532,239
1980	322	3,629,866	140	1,009,861	182	2,620,005	4,359	28,307,255
1985	329	4,609,633	204	2,002,018	125	2,607,615	5,861	53,297,557
1990	176	3,004,814	172	1,986,571	4	1,018,243	6,149	59,607,315
1991	169	2,531,422	154	1,868,781	15	662,641	6,164	60,269,956
1992	195	3,876,810	148	1,831,565	47	2,045,245	6,211	62,315,201
1993	172	3,914,864	173	1,885,010	(1)	2,029,854	6,210	64,345,055
1994	191	3,626,150	163	1,844,072	28	1,782,078	6,238	66,127,133
1995	150	3,481,882	171	2,223,393	(21)	1,258,489	6,217	67,385,622
1996	212	6,445,919	210	3,101,236	2	3,344,683	6,219	70,730,305
1997	171	4,593,132	188	1,328,817	(17)	3,264,315	6,202	73,994,620
1998	112	3,428,743	174	1,823,043	(62)	1,605,700	6,140	75,600,320
1999	133	3,496,500	221	2,143,122	(88)	1,353,378	6,052	76,953,698
2000	136	4,414,263	204	2,481,571	(68)	1,932,692	5,984	78,886,390
2001	131	4,993,401	221	2,733,398	(90)	2,260,003	5,894	81,146,393
2002	125	4,462,475	186	2,247,194	(61)	2,215,281	5,833	83,361,674
2003	177	7,530,715	201	2,267,018	(24)	5,263,697	5,809	88,625,371
2004	96	3,645,959	309	3,569,564	(213)	76,395	5,596	88,701,766
2005	264	10,505,300	225	2,768,648	39	7,736,652	5,635	96,438,418

@ Includes annual benefit adjustments.

RETIRED MEMBERS AND BENEFICIARIES COMPARATIVE SCHEDULE

Valuation Date Sept. 30	Pensions Being Paid					Average Pension	Active Member Ratio(2)
	No.	Amount*	% of Member Payroll#	Annual % Increase(1)			
				No.	Amount		
1950	477	\$ 450	2.0 %	37.9 %	44.4 %	\$ 943	11.9
1955	931	1,166	3.6 %	14.3 %	21.0 %	1,252	6.9
1960	1,487	2,454	5.9 %	9.3 %	14.7 %	1,565	4.7
1965	1,949	4,025	7.8 %	7.4 %	14.2 %	2,065	3.8
1970	2,454	7,068	8.7 %	6.5 %	11.9 %	2,880	3.3
1975	3,277	14,532	12.5 %	6.3 %	15.5 %	4,435	2.4
1980	4,359	28,307	15.9 %	5.9 %	14.3 %	6,494	1.6
1985	5,861	53,298	41.0 %	6.1 %	13.5 %	9,094	0.8
1990	6,149	59,607	37.9 %	1.0 %	2.3 %	9,694	0.8
1995	6,217	67,386	85.0 %	0.2 %	2.5 %	10,839	0.9
1996	6,219	70,730	94.9 %	0.0 %	5.0 %	11,373	0.9
1997	6,202	73,995	103.2 %	(0.3)%	4.6 %	11,931	0.9
1998	6,140	75,600	112.1 %	(1.0)%	2.2 %	12,313	0.9
1999	6,052	76,954	113.3 %	(1.4)%	1.8 %	12,715	1.0
2000	5,984	78,886	118.0 %	(1.1)%	2.5 %	13,183	1.0
2001	5,894	81,146	128.7 %	(1.5)%	2.9 %	13,768	1.0
2002	5,833	83,362	97.4 %	(1.0)%	2.7 %	14,291	1.0
2003	5,809	88,625	106.5 %	(0.4)%	6.3 %	15,257	1.0
2004	5,596	88,702	89.8 %	(3.7)%	0.1 %	15,851	1.2
2005	5,635	96,438	113.9 %	0.7 %	8.7 %	17,114	1.0

(1) For 1950, 1955, 1960, 1965, 1970, 1975, 1980, 1985, 1990 and 1995 the percentage increase shown is the average of the 5 annual increases ending with the stated year.

(2) Number of active members (including defined contribution plan members) divided by number of retired members and beneficiaries.

* In thousands of dollars.

EXCLUDES Defined Contribution Plan payroll after 1991.

RETIRED MEMBERS AND BENEFICIARIES SEPTEMBER 30, 2005
BY ATTAINED AGE GROUPS

Attained Age Group	Totals	
	No.	Annual Pensions
Under 35	6	\$ 62,877
35-39	1	1,913
40-44	10	158,417
45-49	30	548,478
50-54	254	9,076,484
55-59	599	18,914,470
60-64	704	19,037,950
65-69	642	11,802,794
70-74	765	11,310,956
75-79	931	11,009,301
80-84	922	9,000,748
85-89	511	4,091,257
90-94	211	1,165,315
95-99	44	230,471
100 & Over	5	26,987
Totals	5,635	\$96,438,418

Average age now: 72.7 yrs.
Average age at retirement: 55.5 yrs.
Average service at retirement: 23.6 yrs.

RETIRED MEMBERS AND BENEFICIARIES SEPTEMBER 30, 2005
BY TYPE OF RETIREMENT

Type of Pension Being Paid	Benefit Paid	Number
Age & Service Pensions		
S.S. Equated		
Straight Life	\$ 22,382,057	1,169
Option1	979,054	41
Option2	16,563,917	663
Option3	12,026,961	438
Total	51,951,989	2,311
Not S.S. Equated		
Straight Life	\$ 14,291,024	1,152
Option1	776,509	24
Option2	7,350,522	334
Option3	8,556,242	458
Total	30,974,297	1,968
Survivor beneficiary of deceased retired member	6,749,390	741
Total Age and Service Pensions	\$ 89,675,676	5,020
Casualty Pensions		
Duty Disability	\$ 3,069,082	170
Non-Duty Disability	1,505,506	172
Survivor beneficiary of deceased retired member	872,840	107
Duty Death	117,897	17
Non-Duty Death	1,197,417	149
Total Casualty Pensions	6,762,742	615
Total Pensions Being Paid	\$ 96,438,418	5,635

Vested former members included in the valuation totaled 83. A vested former member is a person who has left the employ of the County after acquiring credited service sufficient for a vested pension and has not withdrawn their accumulated member contributions from the Reserve for Accumulated Member Contributions. A vested former member may retire upon satisfying the conditions for normal retirement.

VESTED FORMER MEMBERS SEPTEMBER 30, 2005
TABULATED BY ATTAINED AGE GROUPS

Attained Ages	No.	Estimated Annual Allowances
45-49	4	\$ 8,149
50-54	4	113,328
55-59	21	109,102
60-64	34	211,143
65-69	12	49,772
70 & Up	8	131,175
Totals	83	\$622,669

Also included in the valuation, were 6 former members who were transferred to State employment during 1981 and are eligible for deferred retirement and 5 former members who transferred to the State and have since terminated. The total vested benefits for the 5 terminated members are \$28,293.

ACTIVE MEMBERS SEPTEMBER 30, 2005

Plan	No.	Valuation Payroll	Average		
			Pay	Age	Service
Defined Benefit Plan 1					
General	188	\$ 13,329,867	\$70,904	55.5 yrs.	28.4 yrs.
DPS	58	3,264,924	56,292	48.6	25.4
Sheriff	27	1,577,451	58,424	53.1	26.4
Airport	35	2,208,384	63,097	52.8	27.2
Total	308	20,380,626	66,171	53.7	27.5
Defined Benefit Plan 2					
General	65	3,047,383	46,883	50.4	16.7
DPS	14	580,001	41,429	49.9	20.2
Sheriff	29	1,409,045	48,588	37.1	10.8
Airport	5	176,435	35,287	33.5	6.0
Total	113	5,212,864	46,132	46.2	15.1
Defined Benefit Plan 3					
General	63	3,519,415	55,864	53.6	17.7
DPS	5	330,720	66,144	57.3	20.0
Sheriff	47	2,795,417	59,477	47.6	21.1
Airport	7	438,217	62,602	47.6	21.4
Total	122	7,083,769	58,064	51.1	19.3
Defined Benefit Plan 5					
General	528	21,818,949	41,324	41.3	4.8
DPS	121	4,922,085	40,678	43.5	10.1
Sheriff	328	14,368,184	43,805	36.4	9.1
Airport	224	10,883,760	48,588	39.8	7.8
Total	1,201	51,992,978	43,291	39.9	7.1
Defined Benefit Sub-total	1,744	84,670,237	48,549	43.5	12.1
Defined Contribution Plan 4	4,123	213,910,414	51,882	44.3	11.7
Total	5,867	\$298,580,651	\$50,892	44.1	11.8

**ACTIVE AND INACTIVE MEMBERS IN VALUATION
HISTORICAL SCHEDULE
PLAN 1 ONLY**

Valuation Date September 30	Inactive @		Active Members				
	No.	Estimated Pensions	No.	Valuation Payroll#	Average		
					Pay	Age	Service
Defined Benefit Plan 1							
1970	283	N/A	8,170	\$ 81,395,280	\$ 9,963	41.8 yrs.	10.2 yrs.
1975	254	\$ 579,747	7,906	115,811,211	14,649	42.0	10.5
1980	323	1,107,547	6,832	178,221,092	26,086	42.8	12.1
1985	245	1,229,467	3,520	104,007,698	29,548	43.6	13.4
1990	181	985,556	2,212	83,199,604	37,613	47.7	18.2
1995	110	700,859	1,454	67,055,260	46,118	50.3	22.1
1999	74	529,010	981	55,641,299	56,719	51.8	23.9
2000	72	519,980	874	53,822,371	61,582	52.3	24.2
2001	69	490,230	773	49,891,050	64,542	52.7	24.7
2002	64	454,657	686	46,125,812	67,239	53.4	25.3
2003	60	419,316	525	34,354,679	65,437	53.3	26.3
2004	58	410,561	493	32,695,112	66,319	54.4	27.2
2005	36	236,163	308	20,380,626	66,171	53.7	27.5

Cost-of-living increases included since 1976. Beginning in 1979 gross fiscal pay was provided.

@ In addition, 304 members were transferred to the State in 1981 (with 6 still working there in 2005 and 5 who have since terminated from the State) who are eligible for deferred retirement.

**ACTIVE AND INACTIVE MEMBERS IN VALUATION
HISTORICAL SCHEDULE
PLANS 2, 3, 4 AND 5**

Valuation Date September 30	Inactive @		Active Members				
	No.	Estimated Pensions	No.	Valuation Payroll#	Average		
					Pay	Age	Service
Defined Benefit Plan 2							
2000	80	\$ 365,994	185	\$ 7,025,511	\$37,976	40.4 yrs.	9.9 yrs.
2001	81	369,832	179	7,284,627	40,696	41.7	10.5
2002	81	369,832	152	6,838,161	44,988	43.0	11.6
2003	80	367,115	137	5,700,048	41,606	44.1	12.5
2004	55	253,284	123	5,633,831	45,804	44.8	14.5
2005	47	386,506	113	5,212,864	46,132	46.2	15.1
Defined Benefit Plan 3							
2000	0	\$ 0	108	\$ 6,007,889	\$55,629	45.5 yrs.	15.3 yrs.
2001	0	0	106	5,869,972	55,377	46.0	16.3
2002	0	0	103	6,021,860	58,465	47.1	17.4
2003	0	0	102	5,719,859	56,077	47.9	18.4
2004	0	0	106	6,097,671	57,525	49.7	19.1
2005	0	0	122	7,083,769	58,064	51.1	19.3
Defined Contribution Plan 4							
2000	NA	NA	4,828	\$208,770,801	\$43,242	40.3 yrs.	7.7 yrs.
2001	NA	NA	5,018	231,082,080	46,051	41.0	8.0
2002	NA	NA	4,499	223,379,142	49,651	41.9	8.6
2003	NA	NA	4,351	206,015,408	47,349	42.7	9.4
2004	NA	NA	4,842	244,543,363	50,505	44.4	10.7
2005	NA	NA	4,123	213,910,414	51,882	44.3	11.7
Hybrid Plan 5							
2002	NA	NA	579	\$ 26,596,747	\$45,936	39.6 yrs.	8.3 yrs.
2003	NA	NA	880	37,460,262	42,568	38.9	7.3
2004	NA	NA	1,423	54,359,556	38,201	38.4	5.6
2005	NA	NA	1,201	51,992,978	43,291	39.9	7.1

Cost-of-living increases included since 1976. Beginning in 1979 gross fiscal pay was provided.

@ In addition, 304 members were transferred to the State in 1981 (with 6 still working there in 2005 and 5 who have since terminated from the State) who are eligible for deferred retirement.

**ACTIVE AND INACTIVE MEMBERS IN VALUATION
HISTORICAL SCHEDULE
RETIREMENT SYSTEM TOTALS**

Valuation Date September 30	Inactive @		Active Members				
	No.	Estimated Pensions	No.	Valuation Payroll#	Average		
					Pay	Age	Service
Retirement System Totals							
1970	283	\$ 461,045	8,170	\$ 81,396,280	\$9,963	41.7 yrs.	10.2 yrs.
1975	254	579,747	7,906	115,811,211	14,649	42.0	10.5
1980	323	1,107,547	6,832	178,221,092	26,086	42.8	12.1
1985	245	1,229,467	4,758	129,534,998	27,225	41.1	11.0
1990	251	1,286,311	4,999	157,406,461	31,488	41.0	10.9
1995	198	1,114,099	5,407	192,903,829	35,677	41.1	10.3
1999	153	893,028	5,903	256,378,506	43,432	41.9	10.3
2000	152	885,974	5,995	275,626,572	45,976	42.1	10.3
2001	150	860,061	6,076	294,127,729	48,408	42.6	10.4
2002	145	824,488	6,019	308,961,722	51,331	43.1	10.7
2003	140	786,431	5,995	289,250,256	48,249	43.2	10.8
2004	118	956,869	6,987	343,329,533	49,138	44.0	11.0
2005	83	622,669	5,867	298,580,651	50,892	44.1	11.8

Cost-of-living increases included since 1976. Beginning in 1979 gross fiscal pay was provided.

@ In addition, 304 members were transferred to the State in 1981 (with 6 still working there in 2005 and 5 who have since terminated from the State) who are eligible for deferred retirement.

DEFINED BENEFIT PLAN 1
ACTIVE MEMBERS SEPTEMBER 30, 2005
BY ATTAINED AGE AND YEARS OF SERVICE

Attained Age	Years of Service to Valuation Date							Totals	
	0-4	5-9	10-14	15-19	20-24	25-29	30 Plus	No.	Salary
35-39					1			1	\$ 55,741
40-44				3	10	1		14	880,504
45-49				4	35	26	3	68	4,073,983
50-54			2	4	31	38	24	99	7,143,103
55-59		1	1	1	17	17	37	74	4,786,810
60					4	2	7	13	855,061
61							4	4	239,975
62					1	2	6	9	482,547
63					3		4	7	506,451
64						1	3	4	251,780
65							2	2	158,696
68					1		1	2	138,069
69						2	1	3	192,621
70							1	1	45,724
71							1	1	139,919
72						1		1	45,724
74							1	1	45,724
76						1		1	128,768
78							1	1	84,843
79 & Over						1	1	2	124,583
Totals		1	3	12	103	92	97	308	\$20,380,626

While not used in the financial computations, the following group averages are computed and shown because of their general interest.

Age: 53.7 years
Service: 27.5 years
Annual Pay: \$66,171

DEFINED BENEFIT PLAN 2
ACTIVE MEMBERS SEPTEMBER 30, 2005
BY ATTAINED AGE AND YEARS OF SERVICE

Attained Age	Years of Service to Valuation Date							Totals	
	0-4	5-9	10-14	15-19	20-24	25-29	30 Plus	No.	Salary
20-24	1							1	\$ 38,559
25-29	3	3						6	258,040
30-34	2	9						11	504,575
35-39	2	2	4	7				15	607,012
40-44	2	1	1	8	2			14	648,558
45-49		3	2	10	5			20	1,003,896
50-54	1	2	1	5	6	2	1	18	932,508
55-59		3	2	5	2	3	3	18	758,160
60							2	2	151,204
62		1	1					2	63,021
63				1				1	37,087
64	1			1				2	110,784
67			1					1	28,597
69					1			1	47,896
73			1					1	22,967
Totals	12	24	13	37	16	5	6	113	\$5,212,864

While not used in the financial computations, the following group averages are computed and shown because of their general interest.

Age: 46.2 years
Service: 15.1 years
Annual Pay: \$46,132

DEFINED BENEFIT PLAN 3
ACTIVE MEMBERS SEPTEMBER 30, 2005
BY ATTAINED AGE AND YEARS OF SERVICE

Attained Age	Years of Service to Valuation Date							Totals	
	0-4	5-9	10-14	15-19	20-24	25-29	30 Plus	No.	Salary
35-39				1				1	\$ 50,177
40-44				4	20			24	1,445,395
45-49		1	2	4	22			29	1,662,656
50-54			5	7	16	2		30	1,736,770
55-59		1	4	9	7			21	1,241,944
60			1	3	2			6	311,857
61			1	2	2			5	334,962
62				1				1	46,050
63				1				1	45,724
64			1					1	45,724
65					2			2	114,614
66				1				1	47,896
Totals		2	14	33	71	2		122	\$7,083,769

While not used in the financial computations, the following group averages are computed and shown because of their general interest.

Age: 51.1 years
Service: 19.3 years
Annual Pay: \$58,064

DEFINED CONTRIBUTION PLAN 4
ACTIVE MEMBERS SEPTEMBER 30, 2005
BY ATTAINED AGE AND YEARS OF SERVICE

Attained Age	Years of Service to Valuation Date							Totals	
	0-4	5-9	10-14	15-19	20-24	25-29	30 Plus	No.	Salary
20-24	16	4						20	\$ 567,464
25-29	62	137	5					204	7,635,313
30-34	87	271	85	6				449	19,463,379
35-39	83	250	221	146	8			708	34,415,529
40-44	94	211	189	220	87	1		802	40,872,676
45-49	63	200	139	187	101	18	1	709	39,609,750
50-54	77	142	132	122	59	37	17	586	33,979,874
55-59	65	94	80	75	29	20	22	385	23,235,703
60	3	13	5	6	5	3	2	37	1,887,966
61	4	15	9	11	5	4	4	52	2,832,002
62	5	11	7	9	4	1	1	38	2,171,844
63	4	11	13	9	2		1	40	2,051,412
64	2	4	8	4		1		19	957,730
65	1	5	6	5	2		2	21	1,366,568
66	1	3	5	4	1	1	1	16	895,092
67	1		3	2	2		1	9	560,812
68		5	2	1				8	363,936
69		3	4					7	335,349
70			3	2	1			6	351,338
71				1				1	55,909
72			2					2	83,384
73		1						1	67,529
74									
75		1						1	73,429
76									
77									
78									
79 & Over		1					1	2	76,426
Totals	568	1,382	918	810	306	86	53	4,123	\$213,910,414

While not used in the financial computations, the following group averages are computed and shown because of their general interest.

Age: 44.3 years
Service: 11.7 years
Annual Pay: \$51,882

HYBRID PLAN 5
ACTIVE MEMBERS SEPTEMBER 30, 2005
BY ATTAINED AGE AND YEARS OF SERVICE

Attained Age	Years of Service to Valuation Date							Totals	
	0-4	5-9	10-14	15-19	20-24	25-29	30 Plus	No.	Salary
20-24	63							63	\$ 1,890,493
25-29	160	19						179	6,217,120
30-34	128	19	11					158	6,451,647
35-39	106	28	45	24	3			206	9,054,072
40-44	101	13	30	52	16	2		214	10,167,964
45-49	79	7	8	19	15	2	1	131	6,100,222
50-54	62	9	9	16	13	14	5	128	6,472,941
55-59	46	3	6	11	7	5	9	87	4,176,843
60	3			1			1	5	275,806
61	1			1	2			4	238,246
62	2	1		1				4	144,398
63	3		1	1				5	177,674
64	1	2	1	1				5	143,076
65	1		1	1				3	137,757
66	1							1	21,466
67	2							2	108,355
68	1							1	84,412
69	1							1	21,466
70									
71	1							1	22,995
72	1							1	21,466
73	2							2	64,559
74									
75									
76									
79 & Over									
Totals	765	101	112	128	56	23	16	1,201	\$51,992,978

While not used in the financial computations, the following group averages are computed and shown because of their general interest.

Age: 39.9 years
Service: 7.1 years
Annual Pay: \$43,291

SECTION C



Financial Principles
Actuarial Valuation Process
Actuarial Cost Methods
Actuarial Assumptions
and
Definitions of Technical Terms

BASIC FINANCIAL PRINCIPLES AND OPERATION OF THE RETIREMENT SYSTEM

Benefit Promises Made Which Must Be Paid For. A retirement program is an orderly means of handing out, keeping track of, and financing pension promises to a group of employees. As each member of the retirement program acquires a unit of service credit the member is, in effect, handed an "IOU" which reads: "The Retirement System promises to pay you one unit of retirement benefits, payments in cash commencing when you retire."

The principal related financial question is: When shall the money required to cover the "IOU" be contributed? This year, when the benefit of the member's service is received? Or, some future year when the "IOU" becomes a cash demand?

The Constitution of the State of Michigan is directed to the question:

"Financial benefits arising on account of service rendered in each fiscal year shall be funded during that year and such funding shall not be used for financing unfunded accrued liabilities."

This Retirement System meets this requirement by having as its financial objective the establishment and receipt of contributions, expressed as percents of active member payroll, which will remain approximately level from year to year and will not have to be increased for future generations of taxpayers.

Translated into actuarial terminology, a level percent-of-payroll contribution objective means that the contribution rate must be at least:

Normal Cost (the present value of future benefits assigned to members' service being rendered in the current year)

. . . plus . . .

Interest on the Unfunded Actuarial Accrued Liability (the difference between the actuarial accrued liability and current system assets).

The accumulation of invested assets is a by-product of level percent of payroll contributions, not the objective. Investment income becomes the third major contributor to the retirement program, and the amount is directly reacted to the amount of contributions and investment performance.

If contributions to the retirement program are less than the preceding amount, the difference, plus investment earnings not realized thereon, will have to be contributed at some later time, or, benefits will have to be reduced, to satisfy the fundamental fiscal equation under which all retirement programs must operate:

$$\mathbf{B = C + I - E}$$

The aggregate amount of **B**enefit payments to any group of members and their beneficiaries cannot exceed the sum of:

The aggregate amount of **C**ontributions received on behalf of the group

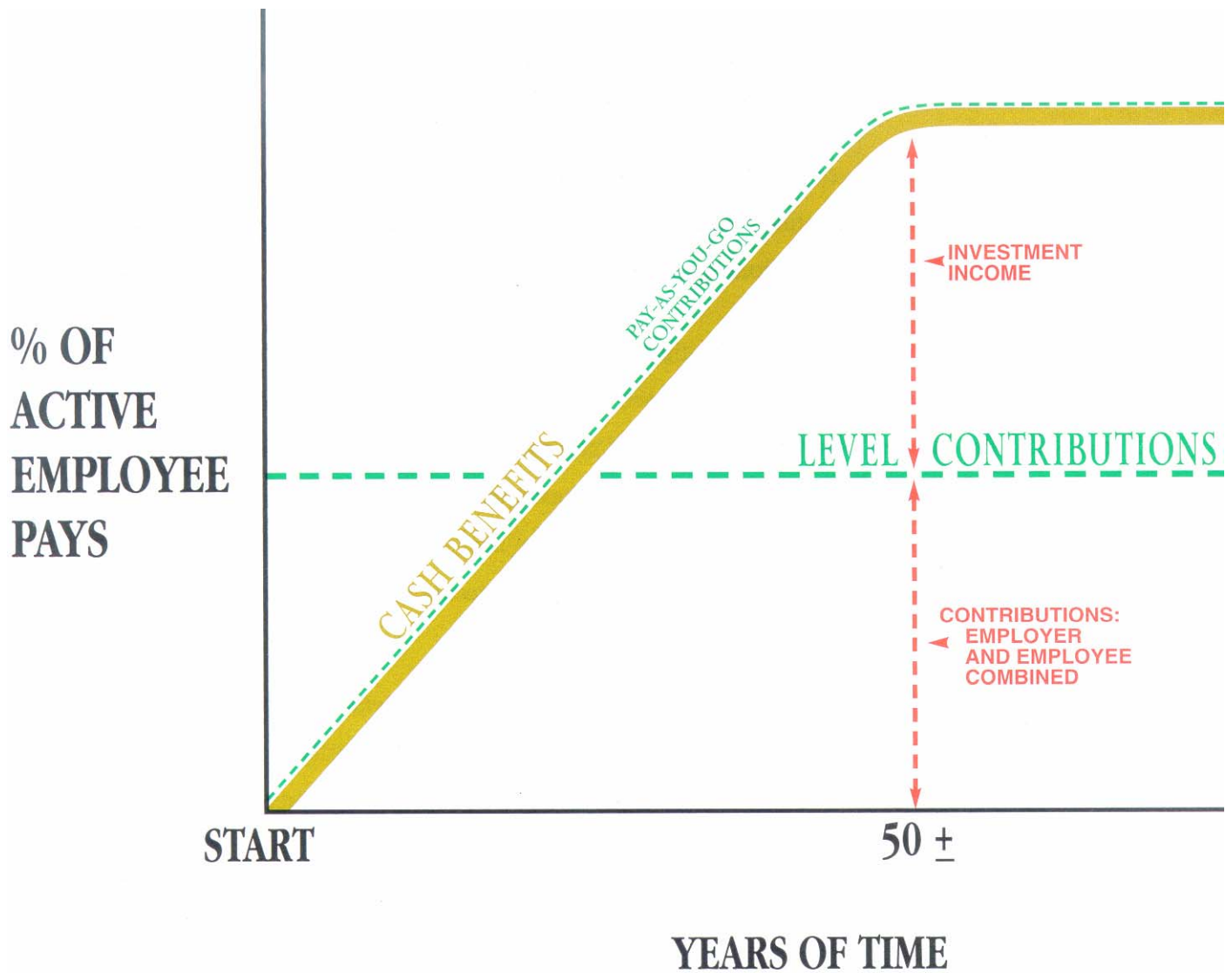
. . . plus . . .

Investment earnings on contributions received and not required for immediate cash payments of benefits

. . . minus . . .

The **E**xpenses of operating the program.

Computed Contribution Rate Needed To Finance Benefits. From a given schedule of benefits and from the data furnished, the actuary calculates the contribution rate *by means of an actuarial valuation* - the technique of assigning monetary values to the risks assumed in operating a retirement program.



CASH BENEFITS LINE. This relentlessly increasing line is the fundamental reality of retirement plan financing. It happens each time a new benefit is added for future retirements (and happens regardless of the design for contributing for benefits).

LEVEL CONTRIBUTION LINE. Determining the level contribution line requires detailed assumptions concerning a variety of experiences in future decades, including:

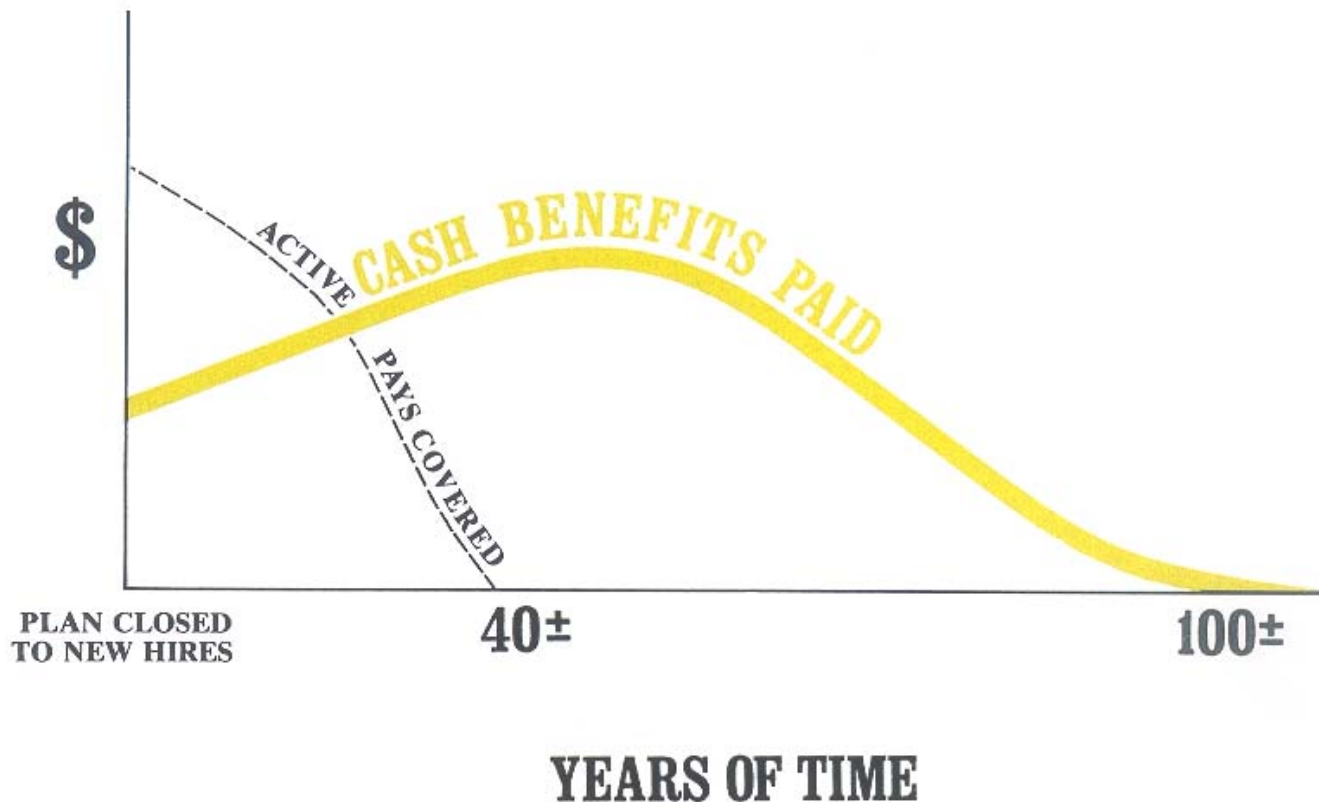
Economic Risk Areas

- Rates of investment return
- Rates of pay increase
- Changes in active member group size

Non-Economic Risk Areas

- Ages at actual retirement
- Rates of mortality
- Rates of withdrawal of active members (turnover)
- Rates of disability

A CLOSED PENSION PLAN



A plan becomes closed when no new hires are admitted to active membership. The persons covered by the plan at the time of closing continue their normal activities and continue to be covered by the plan, until the last survivor dies.

CASH BENEFITS LINE. After a pension plan becomes closed, the usual pattern is for cash benefits to continue to increase for decades of time. Eventually the cash benefits will peak, and then gradually decrease over more decades of time, ultimately to zero. The last cash benefit is likely to occur a century after the time the plan is closed.

The precise amounts of cash benefits cannot be known now, and must be estimated by assumptions of future experiences in a variety of financial risk areas.

THE ACTUARIAL VALUATION PROCESS

The financing diagram on page C-3 shows the relationship between the two fundamentally different philosophies of paying for retirement benefits: the method where contributions match cash benefit payments (or barely exceed cash benefit payments, as in the Federal Social Security program) which is an *increasing contribution method*; and the *level contribution method* which equalizes contributions between the generations.

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

- A. **Census Data**, furnished by plan administrator.
 - Retired lives now receiving benefits
 - Former employees with vested benefits not yet payable
 - Active employees

- B. + **Asset data** (cash & investments), furnished by plan administrator

- C. + **Assumptions concerning future experience in various risk areas**, which assumptions are established by the Retirement System after consulting with the actuary

- D. + **The funding method** (the long-term, planned pattern for employer contributions)

- E. + **Mathematically combining the assumptions, the funding method, and the data**

- F. = Determination of:
 - Plan financial position; and/or
 - New Employer Contribution Rate

ACTUARIAL COST METHODS

The actuarial cost method is a procedure for allocating the actuarial present value of benefits and expenses to time periods. The method used for your valuation is known as the projected unit credit actuarial cost method, and has the following characteristics:

- (i) The future annual normal costs for each individual active member are sufficient to accumulate the value of the member's pension, at time of retirement, attributable to service likely to be rendered after the valuation date.

- (ii) Each annual normal cost is the percentage of the member's current pay that is expected to finance the portion of the member's future benefit that is accruing in the current year.

The projected unit credit actuarial cost method allocates the actuarial present value of each member's projected benefits to time periods in the ratio of credited service during the time period to total projected credited service.

The portion of the actuarial present value allocated to the valuation year is called the normal cost. The portion of the actuarial present value not provided for by the actuarial present value of future normal costs is called the actuarial accrued liability. Deducting accrued assets from the actuarial accrued liability determines the unfunded actuarial accrued liability.

The base rate of increase in salaries used to calculate the actuarial liability was assumed to be 4.0%.

ACTUARIAL ASSUMPTIONS USED FOR THE VALUATION

Contribution requirements and actuarial present values are calculated by applying estimates of future experience (actuarial assumptions) to the benefit provisions and participant data of the System, using the actuarial cost methods described on page C-6.

The principal areas of activity which require experience estimates are:

- long-term rates of investment return to be generated by the assets of the System
- patterns of pay increases to members
- rates of mortality among members, retired members and beneficiaries
- rates of withdrawal of active members
- rates of disability among active members
- the age patterns of actual retirements.

In an actuarial valuation, the monetary effect of each activity is calculated for as long as a present covered person survives - - - a period of time which can be as long as a century.

Actual experience of the System will not coincide exactly with the experience estimates. Each valuation provides a complete recalculation of estimated future experience and takes into account all past differences between estimated and actual experience. The result is a continual series of adjustments (usually small) to the computed contribution rate.

From time to time one or more of the estimates are modified to reflect experience trends but not random or temporary year-to-year fluctuations.

ACTUARIAL ASSUMPTIONS USED FOR THE VALUATION

Investment Return (net of administrative expenses).

8.0% per year, compounded annually. This rate consists of a real rate of return of **4.0%** a year plus a long-term rate of wage inflation of **4.0%** a year.

No specific Price Inflation assumption is needed for this valuation.

This assumption is used to equate the value of payments due at different points in time and was first used for the September 30, 1998 valuation. Approximate rates of investment return, for the purpose of comparisons with assumed rates, are shown below.

	Year Ended September 30					5-Year Average
	2005	2004	2003	2002	2001	
Recognized Rate of Return	7.1%	(0.2)%	3.0%	6.0%	8.3%	4.8%

The nominal rate of return was computed using the approximate formula $i = I$ divided by $1/2 (A + B - I)$, where I is recognized investment income net of expenses, A is the beginning of year asset value, and B is the end of year asset value.

Rates of salary increase were as follows:

Merit and Longevity Pay Increases			
Other		Sheriffs	
Age	Increase	Service	Increase
20	3.70%	5	4.22%
25	3.40%	10	3.38%
30	2.50%	15	2.54%
35	1.90%	20	2.18%
40	1.60%	25	2.04%
45	1.20%	30	1.76%
50	1.00%	35	1.06%
55	0.80%	40	0.64%
60	0.50%	42 - 60	0.60%
65 & Over	0.00%	61 & Over	0.00%
Ref:	107	Ref:	110

These rates are used to project current salaries to those upon which pension amounts are likely to be based. The current rates were first used for the September 30, 2004 actuarial valuation.

Rates of separation from active membership were as follows:

% of Active Members Separating Within the Next Year							
Other				Sheriffs			
Ages		Service (Plan 5 only)		Ages		Service (Plan 5 only)	
20	6.00%	0 - 1	20%	20	4.70%	0 - 1	15%
21	6.00%	1 - 2	15%	21	4.70%	1 - 2	13%
22	6.00%	2 - 3	12%	22	4.70%	2 - 3	10%
23	6.00%	3 - 4	10%	23	4.70%	3 - 4	7%
24	6.00%	4 - 5	7%	24	4.70%	4 - 5	5%
25	6.00%			25	4.70%		
30	6.00%			30	3.78%		
35	4.50%			35	2.86%		
40	3.50%			40	1.96%		
45	3.00%			45	1.30%		
50	2.00%			50	0.98%		
55	1.00%			55	0.66%		
60 & Over	0.00%			60 & Over	0.21%		
Ref:	290		31	Ref:	660		148

Rates for all divisions were first used for the September 30, 2004 valuation.

The probabilities of retirement for members satisfying the age and service conditions for retirement are as follows:

Percent of Defined Benefit Active Members Retiring Within Next Year								
Retirement Ages	Plan 1 Non-Sheriffs	Plans 1, 2, & 3 Sheriffs	Plans 2, 3, & 5 Non-Sheriffs	Plan 5 Sheriffs	Service Years	Plan 1 Non-Sheriffs	Plans 1, 2, & 3 Sheriffs	Plan 5 Sheriffs
					25		22%	
					26		20%	
					27		20%	
					28		30%	
					29		40%	
50	25%				30	30%	50%	22%
51	25%				31	30%	25%	20%
52	25%				32	30%	25%	20%
53	25%				33	30%	25%	30%
54	25%				34	30%	25%	40%
55	25%		10%	25%	35	30%	100%	50%
56	25%		10%	25%	36	30%	100%	25%
57	25%		10%	25%	37	30%	100%	25%
58	25%		10%	25%	38	30%	100%	25%
59	25%		10%	25%	39	30%	100%	25%
60	25%	25%	10%	25%	40 & Over	100%	100%	100%
61	25%	25%	10%	25%				
62	35%	35%	20%	25%				
63	35%	35%	20%	27%				
64	35%	35%	30%	27%				
65	35%	35%	50%	27%				
66	35%	35%	30%	27%				
67	35%	35%	40%	27%				
68	35%	35%	50%	30%				
69	35%	35%	80%	30%				
70 & Over	100%	100%	100%	100%				
Ref:	560	560	92	369	Ref:	556	957	957

The rates were first used for the September 30, 2004 valuation.

Rates of disability are represented by the following table:

Sample Ages	Percent Becoming Disabled Within Next Year		
	Non-Sheriffs (Plan 1 only)		Others
20	0.08%		0.10%
25	0.08%		0.10%
30	0.08%		0.07%
35	0.08%		0.12%
40	0.20%		0.28%
45	0.26%		0.51%
50	0.49%		0.81%
55	0.89%		1.13%
60	1.41%		1.44%
Ref	9	x 1	8 x 1

Lump sum redemption factors are used to project increases in average final compensation from the inclusion of lump sum redemptions of unused sick leave and vacation time.

Lump sum redemption factors applicable to Defined Benefit Plans 1 and 3 are:

Factors			
Service Retirements		Death- in-Service	Disability Retirements
Regular	Deferred		
5.0%	5.0%	0.0%	0.0%

The lump sum redemption factors applicable to Defined Benefit Plans 2 and 5 is zero.

Number of active members: The number of active members (in all plans) was assumed to remain constant.

The mortality table used to measure pre and post-retirement mortality was the 1983 Group Annuity Mortality Table. This assumption was first used for the September 30, 1998 supplemental actuarial valuation. Rates were set forward 5 years for disabled retirees.

Mortality rates are used to measure the probabilities of members dying before retirement and the probabilities of each pension payment being made after retirement.

Sample Attained Ages	Single Life Retirement Values			
	Present Value of \$1 Monthly for Life		Future Life Expectancy (years)	
	Men	Women	Men	Women
45	\$138.18	\$144.67	33.74	39.69
50	132.10	140.42	29.18	34.92
55	124.57	134.74	24.82	30.24
60	115.04	127.24	20.64	25.67
65	103.26	117.61	16.69	21.29
70	90.18	105.53	13.18	17.13
75	76.40	91.57	10.15	13.37
80	62.65	77.16	7.64	10.20
Ref:	30 x 1.00	31 x 1.00		

MISCELLANEOUS AND TECHNICAL ASSUMPTIONS

SEPTEMBER 30, 2005

Marriage Assumption:	100% of males and 100% of females are assumed to be married. Male spouses are assumed to be three years older than female spouses.
Pay Increase Timing:	Beginning of (Fiscal) year.
Decrement Timing:	Decrements are assumed to occur mid-year.
Eligibility Testing:	Eligibility for benefits is determined based upon the age nearest birthday and the exact fractional service on the date the decrement is assumed to occur.
Decrement Relativity:	Decrement rates are used directly from the experience study, without adjustment for multiple decrement table effects.
Decrement Operation:	Disability and mortality decrements do not operate during the first 5 years of service. Disability and turnover do not operate during retirement eligibility.
Normal Form of Benefit:	The assumed normal form of benefit is the straight life form.
Adjustments:	<p>The Plan 1 and Plan 3 age and service benefits were increased by 5% to account for lump sum redemptions of unused sick leave and vacation time.</p> <p>Age and service benefits were increased by 1% for Plans 1, 2, 3, and 5 to account for missing or incomplete data.</p> <p>Retiree liabilities were increased by 2% to account for the plan's pop-up provision. Straight Life amounts are not provided for members who elect the pop-up provision.</p> <p>A reserve equal to 2% of total active accrued liability was included to account for refunds due.</p>
Incidence of Contributions:	Contributions are assumed to be received continuously throughout the year based upon the computed percent of payroll shown in this report, and the actual payroll payable at the time contributions are made.
Benefit Service:	Exact fractional service is used to determine the amount of benefit payable.
Option Factors:	Option factors are based upon 7.0% interest and the 1971 Group Annuity Mortality Table, set back six years for females with an 85% Unisex Blend.

SECTION D



Financial Reporting

**STATEMENT OF MARKET VALUE OF ASSETS
AS OF SEPTEMBER 30, 2004 AND SEPTEMBER 30, 2005**

	2005	2004
Assets:		
Cash and short-term investments	\$ 68,769,358	\$ 63,933,679
Receivables:		
Accrued interest and dividends	1,880,072	3,151,053
Investments, at fair value:		
U.S. Government Bonds	85,970,239	97,154,033
Corporate Bonds	70,308,959	83,511,551
Bond Mutual Funds	0	0
Mortgages	57,194,282	55,105,516
Investments in Partnerships	107,004,753	134,506,869
Stocks	596,270,666	523,346,514
Other	18,382,511	228,071
	935,131,410	893,852,554
Total Assets	\$1,005,780,840	\$960,937,286
Liabilities		
Payables	14,332,276	4,930,472
Net assets held in trust for pension benefits (A schedule of funding progress for the plan is presented on page D-4.)	\$ 991,448,564	\$956,006,814

**STATEMENT OF CHANGES IN MARKET VALUE OF NET ASSETS FOR THE
FISCAL YEARS ENDED SEPTEMBER 30, 2004 AND SEPTEMBER 30, 2005**

	Reconciliation as of September 30	
	2005	2004
Additions:		
Contributions		
Employer	\$ 11,105,624	\$ 7,373,715
Plan members	4,159,332	2,444,713
Total contributions	15,264,956	9,818,428
Investment Income	138,209,157	86,292,510
Total Additions	153,474,113	96,110,938
Deductions:		
Benefits	97,746,949 @	107,684,422 @
Refunds of contributions	13,536,667	190,797
Investment expenses	3,825,139	3,112,076
Administrative expenses & Other	2,923,608	2,831,773
Total deductions	118,032,363	113,819,068
Net Increase	35,441,750	(17,708,130)
Net assets held in trust for pension benefits:		
Beginning of year	956,006,814	973,714,944
End of year	\$991,448,564	\$956,006,814

@ Includes 13th check disbursement.

Plan Description. The Wayne County Employees' Retirement System is a single-employer defined benefit and defined contribution pension plan that covers the employees of Wayne County.

The plan provides retirement, disability, and death benefits to plan members and their beneficiaries.

Contributions. Plan members' contributions are in accordance with the schedules on pages B-2, B-3, B-4, and B-7.

The employer's funding policy provides for periodic employer contributions based upon a *fundamental financial objective of having rates of contribution which remain relatively level from generation to generation of Wayne County citizens.* To determine the employer contribution rates and to assess the extent to which the fundamental financial objective is being achieved, the System has actuarial valuations prepared annually. In preparing those valuations, the projected unit credit actuarial cost method is used to determine normal cost and actuarial accrued liabilities.

On the basis of the September 30, 2005 actuarial valuation, the employer contributions were determined to be as follows:

Contributions for	% of Payroll 20-year Amort.
Normal Cost	9.32 %
Unfunded Accrued Liabilities	<u>6.71 %</u>
Total Employer DB Plan Contributions	16.03 %

REQUIRED SUPPLEMENTARY INFORMATION
SCHEDULE OF FUNDING PROGRESS
(DOLLAR AMOUNTS IN MILLIONS)

Actuarial Valuation Date	Actuarial Value of Assets* (a)	Actuarial Accrued Liability (AAL) (b)	Unfunded AAL (UAAL) (b)-(a)	Funded Ratio (a)/(b)	Covered+ Payroll (c)	UAAL as a Percent of Covered Payroll [(b)-(a)]/(c)
11/30/1993#	\$ 749.5	\$ 777.5	\$ 28.0	96.4 %	\$184.0	15.2 %
11/30/1994	766.1	783.5	17.4	97.8 %	182.7	9.5 %
11/30/1995#	781.4	829.2	47.8	94.2 %	192.9	24.8 %
11/30/1996#@	866.9	866.9	0.0	100.0 %	208.6	--
11/30/1997#	877.9	870.1	(7.8)	100.9 %	224.1	--
9/30/1998#	933.0	906.6	(26.4)	102.9 %	231.0	--
9/30/1999	965.8	915.3	(50.5)	105.5 %	256.4	--
9/30/2000&	1,028.6	947.6	(81.0)	108.5 %	275.6	--
9/30/2001#	1,041.6	979.2	(62.4)	106.4 %	294.1	--
9/30/2002	1,043.3	1,010.7	(32.6)	103.2 %	309.0	--
9/30/2003	996.6	1,007.7	11.1	98.9 %	289.3	3.8 %
9/30/2004#	910.1	959.7	49.6	94.8 %	343.3	14.4 %
9/30/2005	891.4	969.3	77.9	92.0 %	298.6	26.1 %

Note: Hybrid Plan 5 exists September 30, 2003 and later.

After changes in benefit provisions or revised actuarial assumptions.

* Excludes reserve for inflation equity.

+ Includes defined contribution plan payroll.

@ After one-time adjustment equal to UAAL.

& Change in Inflation Equity calculation.

**SCHEDULE OF EMPLOYER CONTRIBUTIONS
DEFINED BENEFIT PLANS ONLY
(\$ IN THOUSANDS)**

Fiscal Year Ended September 30#@	Annual Recommended Contributions	Actual Contributions +	Percent Contributed
1998	\$ 8,751	\$ 7,095	81%
1999	7,632	7,642	100%
2000	5,446	3,805	70%
2001	2,670	39	1%
2002	0	45	100%
2003&	1,328	3,002	100%
2004	6,326	7,374	100%
2005	10,647	11,106	100%
2006+	14,178	N/A	N/A
2007	14,116	N/A	N/A

Valuations before 1998 were based on a fiscal year ending November 30.

@ Includes Hybrid Plan 5 after 2003.

& Transfers from DC Plan 4 to DB Plan 5 in 2004 resulted in larger contributions than anticipated. The amount of transfer activity, if any, could not have been known in advance.

+ Actual contributions are based on a percent of current payroll.

SUMMARY OF ACTUARIAL METHODS AND ASSUMPTIONS

The information presented in the required supplementary schedules was determined as part of the actuarial valuations at the dates indicated. Additional information as of the latest actuarial valuation follows:

Valuation date	September 30, 2005
Actuarial cost method	Projected unit credit actuarial cost method
Amortization method	Level percent-of-payroll
Remaining amortization period	20 years – open
Asset valuation method	4-year smoothed market
Actuarial assumptions:	
Investment rate of return*	8.0%
Projected salary increases*	4.0% - 8.4%
Cost-of-living adjustments	N/A
<hr/>	
* Includes inflation at	4.0%