

Municipal Employees' Retirement System of Michigan

Ingham County (3303)

in the

MUNICIPAL EMPLOYEES' RETIREMENT SYSTEM OF MICHIGAN

Annual Actuarial Valuation as of December 31, 2001





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August 30, 2002

The Retirement Board Municipal Employees' Retirement System of Michigan

Ladies and Gentlemen:

This report presents the results of the Annual Actuarial Valuation, prepared as of December 31, 2001. The report includes the determination of liabilities and contribution rates resulting from the participation of Ingham County in the Municipal Employees' Retirement System of Michigan ("MERS").

There are no material changes in actuarial assumptions or methods reflected in this valuation, with the following exceptions:

- Assets in excess of actuarial accrued liabilities (negative unfunded accrued liabilities) are amortized over a 10 year period, as explained on page 118.
- For divisions affected by the phase-in of new actuarial assumptions in the previous valuation (denoted with "Transition Assumptions" in the 2000 Valuation column of Table 1) this year's valuation reflects the ultimate uniform assumptions. However, the impact of the change in assumptions is phased in over a new three year period, instead of the remaining two year period. This results in a Minimum Required Contribution (Tables 15, 16 and 17) that is different from the Regular Contribution.

The valuation utilized information furnished by the MERS administrative staff concerning Retirement System benefits, financial transactions, and individual member information. Data was checked for consistency with the prior year, but was not otherwise audited by us.

To the best of our knowledge, this report is complete and accurate and was made in accordance with generally recognized actuarial methods in compliance with Act No. 220 of the Public Acts of 1996, as amended, and the MERS Plan Document as revised. The actuarial assumptions used for the valuation produce results that we believe are reasonable.

Sincerely,

Gabriel, Roeder, Smith & Company

Alan Sonnanstine, MAAA, ASA

Cathy Nagy, MAAA, FSA

Jim Koss, MAAA, ASA

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Table 1
Benefit Provisions Evaluated and/or Considered

| Division | 2001 Valuation | 2000 Valuation |
|----------------------|---|--|
| 1 - Confidentials | B-3 - 80% Max Normal Ret Age: 60 V-6 F55(15) FAC-5 E (2.0%) (01/01/1988) 4.50% Member Contrib. | B-3 - 80% Max Normal Ret Age: 60 V-6 F55(15) FAC-5 E (2.0%) (01/01/1988) 4.50% Member Contrib. |
| 2 - Sheriff FOP Spvs | 3.20% - 80% Max Normal Ret Age: 60 V-10 F55(15) F/N(25) FAC-3 E (2.0%) (01/01/1988) 19.61% Member Contrib. | 3.20% - 80% Max Normal Ret Age: 60 V-10 F55(15) F/N(25) FAC-3 E (2.0%) (01/01/1988) 19.61% Member Contrib. |
| 4 - MCF | C-1 Old Normal Ret Age: 60 V-10 FAC-5 E (2.0%) (01/01/1995) 0.00% Member Contrib. | C-1 Old Normal Ret Age: 60 V-10 FAC-5 E (2.0%) (01/01/1995) 0.00% Member Contrib. Transition Assumptions |
| 9 - Judges | B-3 - 80% Max Normal Ret Age: 60 V-6 F55(15) FAC-5 0.00% Member Contrib. | B-3 - 80% Max Normal Ret Age: 60 V-6 F55(15) FAC-5 0.00% Member Contrib. |
| 10 - Gnrl Mgmt | B-3 - 80% Max Normal Ret Age: 60 V-6 F55(15) FAC-5 E (2.0%) (01/01/1988) 5.00% Member Contrib. | B-3 - 80% Max Normal Ret Age: 60 V-6 F55(15) FAC-5 E (2.0%) (01/01/1988) 5.00% Member Contrib. |

Table 1 (continued)

| Division | 2001 Valuation | 2000 Valuation |
|-----------------------|---|--|
| 11 - Gnrl Library | C-1 Old Normal Ret Age: 60 V-10 FAC-5 E (2.0%) (01/01/1994) 0.00% Member Contrib. | C-1 Old Normal Ret Age: 60 V-10 FAC-5 E (2.0%) (01/01/1994) 0.00% Member Contrib. |
| 12 - Gnrl ICEA Profs | B-3 - 80% Max Normal Ret Age: 60 V-10 F55(15) FAC-5 E (2.0%) (01/01/1988) 6.08% Member Contrib. | B-3 - 80% Max Normal Ret Age: 60 V-10 F55(15) FAC-5 E (2.0%) (01/01/1988) 6.08% Member Contrib. |
| 13 - Gnrl OPEIU Prob | B-3 - 80% Max Normal Ret Age: 60 V-10 F55(15) FAC-5 E (2.0%) (01/01/1988) 7.13% Member Contrib. | B-3 - 80% Max Normal Ret Age: 60 V-10 F55(15) FAC-5 E (2.0%) (01/01/1988) 7.13% Member Contrib. |
| 14 - Gnrl TOPS UAW | B-3 - 80% Max Normal Ret Age: 60 V-10 F55(15) FAC-5 E (2.0%) (01/01/1988) 1.60% Member Contrib. | B-3 - 80% Max Normal Ret Age: 60 V-10 F55(15) FAC-5 E (2.0%) (01/01/1988) 4.85% Member Contrib. |
| 15 - Animal Cntrl FOP | B-4 - 80% Max Normal Ret Age: 60 V-10 F50(25) F55(15) FAC-3 E-2 (2.5%) (01/01/2001) 14.28% Member Contrib. | B-4 - 80% Max Normal Ret Age: 60 V-10 F50(25) F55(15) FAC-3 E-2 (2.5%) (01/01/2001) 8.90% Member Contrib. |

Table 1 (continued)

| Division | 2001 Valuation | 2000 Valuation |
|------------------------|---|--|
| 16 - Gnrl Commsnrs | C-2 (B-1 Base) Normal Ret Age: 60 V-6 F55(15) FAC-5 E (2.0%) (01/01/1988) 3.56% Member Contrib. | C-2 (B-1 Base) Normal Ret Age: 60 V-6 F55(15) FAC-5 E (2.0%) (01/01/1988) 3.56% Member Contrib. Transition Assumptions |
| 17 - ICEA Nurses | B-3 - 80% Max Normal Ret Age: 60 V-6 F55(15) FAC-3 E-2 (2.5%) (07/01/1995) 11.87% Member Contrib. | B-3 - 80% Max Normal Ret Age: 60 V-6 F55(15) FAC-3 E-2 (2.5%) (07/01/1995) 11.87% Member Contrib. |
| 18 - ICEA Ct. Prof | B-3 - 80% Max Normal Ret Age: 60 V-10 F55(15) F/N(20) FAC-5 9.84% Member Contrib. | B-3 - 80% Max Normal Ret Age: 60 V-10 F55(15) F/N(20) FAC-5 9.84% Member Contrib. |
| 19 - Cnstutnl Offels | B-3 - 80% Max Normal Ret Age: 60 V-6 F55(15) FAC-5 5.00% Member Contrib. | B-3 - 80% Max Normal Ret Age: 60 V-6 F55(15) FAC-5 5.00% Member Contrib. |
| 21 - FOP Shrf Deputies | 3.20% - 80% Max Normal Ret Age: 60 V-10 F55(15) F/N(25) FAC-5 10.96% Member Contrib. | 3.20% - 80% Max Normal Ret Age: 60 V-10 F50(25) F55(15) FAC-5 10.43% Member Contrib. |

Table 1 (continued)

| Division | 2001 Valuation | 2000 Valuation |
|-----------------------|--|---|
| 40 - ICEA Unit 111 | C-2 (B-1 Base) Normal Ret Age: 60 V-10 F55(15) FAC-5 E (2.0%) (01/01/1995) 3.00% Member Contrib. | C-2 (B-1 Base) Normal Ret Age: 60 V-10 F55(15) FAC-5 E (2.0%) (01/01/1995) 3.00% Member Contrib. Transition Assumptions |
| 41 - MCF Management | C-2 (B-1 Base) Normal Ret Age: 60 V-6 F55(15) FAC-5 E (2.0%) (01/01/1995) 0.00% Member Contrib. | C-2 (B-1 Base) Normal Ret Age: 60 V-6 F55(15) FAC-5 E (2.0%) (01/01/1995) 0.00% Member Contrib. |
| 42 - ICEA Unit 11 | C-2 (B-1 Base) Normal Ret Age: 60 V-6 F55(15) FAC-3 3.95% Member Contrib. | C-2 (B-1 Base) Normal Ret Age: 60 V-6 F55(15) FAC-3 3.95% Member Contrib. Transition Assumptions |
| 43 - ICEA Unit 1 | C-2 (B-1 Base) Normal Ret Age: 60 V-6 F55(15) FAC-5 3.50% Member Contrib. | C-2 (B-1 Base) Normal Ret Age: 60 V-6 F55(15) FAC-5 3.50% Member Contrib. Transition Assumptions |
| 90 - Asst Pros Attnys | B-4 - 80% Max Normal Ret Age: 60 V-6 F55(15) FAC-5 1.40% Member Contrib. | B-4 - 80% Max Normal Ret Age: 60 V-6 F55(15) FAC-5 1.40% Member Contrib. |
| 91 - Parks Union Empl | B-3 - 80% Max Normal Ret Age: 60 V-10 FAC-5 0.00% Member Contrib. | B-3 - 80% Max Normal Ret Age: 60 V-10 FAC-5 0.00% Member Contrib. |

Table 1 (continued)

| Division | 2001 Valuation | 2000 Valuation |
|-----------------------|-----------------------|-----------------------|
| 92 - Parks Non Union | B-4 - 80% Max | B-4 - 80% Max |
| | Normal Ret Age: 60 | Normal Ret Age: 60 |
| | V-10 | V-10 |
| | F55(25) | F55(25) |
| | FAC-5 | FAC-5 |
| | 0.00% Member Contrib. | 0.00% Member Contrib. |
| 93 - Lgl Rsrch Clerks | C-1 Old | C-1 Old |
| | Normal Ret Age: 60 | Normal Ret Age: 60 |
| | V-10 | V-10 |
| | FAC-5 | FAC-5 |
| | 0.00% Member Contrib. | 0.00% Member Contrib. |

Table 2
Membership Summary

| | 200 | 01 Valuation | 200 | 00 Valuation |
|--|-----------------|-------------------------------------|-----------------|--------------------|
| Division | Number | Annual Payroll* | Number | Annual Payroll* |
| 1 - Confidentials Active Members Vested Former Members Retirees and Beneficiaries | 34 13 37 | \$ 1,238,366 65,169 169,678 | 33 42 37 | \$ 1,167,155 |
| 2 - Sheriff FOP Spvs Active Members Vested Former Members Retirees and Beneficiaries | 31 2 46 | \$ 1,858,730 16,262 1,232,024 | 30 5 48 | \$ 1,735,265 |
| 4 - MCF Active Members Vested Former Members Retirees and Beneficiaries | 121 37 71 | \$ 2,583,257 128,533 249,151 | 123 32 71 | \$ 2,410,936 |
| 9 - Judges Active Members Vested Former Members Retirees and Beneficiaries | 7 1 3 | \$ 196,106 4,348 20,722 | 7 2 3 | \$ 235,139 |
| 10 - Gnrl Mgmt Active Members Vested Former Members Retirees and Beneficiaries | 80 20 44 | \$ 5,215,460 228,041 752,492 | 73 14 43 | \$ 4,632,650 |
| 11 - Gnrl Library Active Members Vested Former Members Retirees and Beneficiaries | 0 31 20 | \$ 0 233,523 95,499 | 23 8 20 | \$ 718,540 |
| 12 - Gnrl ICEA Profs Active Members Vested Former Members Retirees and Beneficiaries | 130 30 19 | \$ 5,161,093 233,096 230,384 | 113 18 17 | \$ 4,575,833 |
| 13 - Gnrl OPEIU Prob Active Members Vested Former Members Retirees and Beneficiaries | 38 8 5 | \$ 1,851,347 66,086 72,984 | 38 6 5 | \$ 1,718,096 |

Table 2 (continued)

Membership Summary

| | 2001 Valuation | | 200 | 00 Valuation |
|--|------------------|---------------------------------------|------------------|--------------------|
| Division | Number | Annual Payroll* | Number | Annual Payroll* |
| 14 - Gnrl TOPS UAW Active Members Vested Former Members Retirees and Beneficiaries | 374 61 149 | \$ 10,692,631 321,304 1,205,706 | 374 48 138 | \$ 10,401,805 |
| 15 - Animal Cntrl FOP Active Members Vested Former Members Retirees and Beneficiaries | 9 1 2 | \$ 326,170 6,172 15,550 | 10 1 2 | \$ 330,848 |
| 16 - Gnrl Commsnrs Active Members Vested Former Members Retirees and Beneficiaries | 10 5 5 | \$ 133,143 10,786 17,888 | 5 5 5 | \$ 63,395 |
| 17 - ICEA Nurses Active Members Vested Former Members Retirees and Beneficiaries | 68 13 26 | \$ 2,710,021 102,192 227,252 | 67 12 23 | \$ 2,553,922 |
| 18 - ICEA Ct. Prof Active Members Vested Former Members Retirees and Beneficiaries | 34 6 22 | \$ 1,579,323 50,591 456,377 | 35 4 18 | \$ 1,515,603 |
| 19 - Cnstutnl Offcls Active Members Vested Former Members Retirees and Beneficiaries | 6 0 7 | \$ 463,955 0 96,192 | 6 0 7 | \$ 416,485 |
| 21 - FOP Shrf Deputies Active Members Vested Former Members Retirees and Beneficiaries | 154 20 57 | \$ 6,621,982 84,310 1,089,816 | 154 11 50 | \$ 6,160,326 |
| 40 - ICEA Unit 111 Active Members Vested Former Members Retirees and Beneficiaries | 22 7 27 | \$ 657,455 33,984 231,422 | 25 7 23 | \$ 736,550 |

Table 2 (continued)

Membership Summary

| | 2001 Valuation | | 200 | 00 Valuation |
|--|--------------------|---|--------------------|--------------------|
| Division | Number | Annual Payroll* | Number | Annual Payroll* |
| 41 - MCF Management Active Members Vested Former Members Retirees and Beneficiaries | 18 10 8 | \$ 763,973 62,008 52,672 | 19 7 8 | \$ 781,285 |
| 42 - ICEA Unit 11 Active Members Vested Former Members Retirees and Beneficiaries | 9 4 1 | \$ 381,171 6,703 10,146 | 9 5 0 | \$ 330,997 |
| 43 - ICEA Unit 1 Active Members Vested Former Members Retirees and Beneficiaries | 9 3 5 | \$ 299,551 17,326 67,200 | 7 5 5 | \$ 243,297 |
| 90 - Asst Pros Attnys Active Members Vested Former Members Retirees and Beneficiaries | 30 14 5 | \$ 1,626,502 200,072 97,627 | 29 4 4 | \$ 1,681,667 |
| 91 - Parks Union Empl Active Members Vested Former Members Retirees and Beneficiaries | 5 0 0 | \$ 167,040 0 0 | 6 0 0 | \$ 199,329 |
| 92 - Parks Non Union Active Members Vested Former Members Retirees and Beneficiaries | 3 0 0 | \$ 178,325 0 0 | 3 0 0 | \$ 171,663 |
| 93 - Lgl Rsrch Clerks Active Members Vested Former Members Retirees and Beneficiaries | 7 0 0 | \$ 235,907 0 0 | 8 0 0 | \$ 225,369 |
| Total Municipality Active Members Vested Former Members Retirees and Beneficiaries | 1199 286 559 | \$ 44,941,508 1,870,506 6,390,782 | 1197 236 527 | \$ 43,006,155 |

^{*} Annual payroll for active members; annual deferred benefits payable for vested former members; annual benefits being paid for retirees and beneficiaries.

 $\label{eq:Table 3} \mbox{Active Members in the Valuation - Comparative Schedule}$

| Valuation | | | Averag | ge Pay | | Average | Average |
|------------|--------|-------------------|--------------|---------------|----------------|--------------------|--------------------|
| Date 12/31 | Number | Annual Payroll | Annual \$ | % Increase | Average Age | Benefit Service | Vesting Service |
| | | | | | | | |
| 1991 | 2,781 | \$ 68,316,570 | \$ 24,565 | 4.6% | 39.1 | 7.4 | |
| 1992 | 1,197 | 31,954,624 | 26,696 | 8.7 | 41.0 | 9.0 | |
| 1993 | 1,191 | 32,835,580 | 27,569 | 3.3 | 41.8 | 9.4 | |
| 1994 | 1,214 | 34,660,368 | 28,550 | 3.6 | 42.1 | 9.5 | |
| 1995 | 1,210 | 35,260,750 | 29,141 | 2.1 | 41.9 | 9.7 | |
| 1996 | 1,222 | 36,804,795 | 30,118 | 3.4 | 42.1 | 9.7 | |
| 1997 | 1,198 | 37,104,777 | 30,972 | 2.8 | 42.3 | 9.9 | |
| 1998 | 1,161 | 40,831,800 | 35,169 | 13.6 | 42.5 | 10.0 | |
| 1999 | 1,183 | 41,422,262 | 35,014 | (0.4) | 42.7 | 9.8 | |
| 2000 | 1,197 | 43,006,155 | 35,928 | 2.6 | 42.7 | 9.6 | |
| 2001 | 1,199 | 44,941,508 | 37,482 | 4.3 | 42.8 | 9.4 | 9.6 |

Table 4
Flow of Active Membership

| 4: | | ` | | Termination | Tran | _ | | End of |
|---------|----------|----------------|-------------------------|--------------------------------|---|---|--|---|
| eurea L | Disabled | Benefit) | vestea | Non-vested | Out | ın | Member | Year |
| | | | | | | | | 1197 |
| 26 | 1 | | 53 | 78 | 22 | 22 | 160 | 1199 |
| | | tired Disabled | tired Disabled Benefit) | tired Disabled Benefit) Vested | tired Disabled Benefit) Vested Non-Vested | tired Disabled Benefit) Vested Non-Vested Out | tired Disabled Benefit) Vested Non-Vested Out In | tired Disabled Benefit) Vested Non-Vested Out In Member |

Table 5

Vested Former Members in the Valuation - Comparative Schedule

| Valuation Date | | Annual Deferred | Average | Average Benefit | Average Vesting |
|-------------------|--------|--------------------|---------|--------------------|--------------------|
| 12/31 | Number | Benefits | Age | Service | Service |
| | | | | | |
| 1991 | 152 | \$ | | | |
| 1992 | 151 | | | | |
| 1993 | 159 | | | | |
| 1994 | 164 | | | | |
| 1995 | 169 | | | | |
| | | | | | |
| 1996 | 193 | | | | |
| 1997 | 221 | | | | |
| 1998 | 218 | | | | |
| 1999 | 227 | | | | |
| 2000 | 236 | | | | |
| | | | | | |
| 2001 | 286 | 1,870,506 | 47.7 | 11.0 | 12.5 |
| | | , , | | | |

Table 6
Flow of Vested Former Members

| Year Ended 12/31 | Retired | Return To Work | Died (Survivor Benefit) | Forfeit Benefit | Tran Out | sfer In | New | End of Year |
|------------------------|---------|-------------------|-------------------------------|--------------------|-------------|------------|-----|----------------|
| 2000 2001 | 10 | | | 15 | 39 | 39 | 75 | 236 286 |

Table 7
Retirees and Beneficiaries in the Valuation - Comparative Schedule

| Valuation | Retirees | | Bene | ficiaries | Total Recipients | | No. of Actives | Benefits As % of |
|------------|----------|--------------------|--------|--------------------|------------------|--------------------|-------------------|---------------------|
| Date 12/31 | Number | Annual Benefits | Number | Annual Benefits | Number | Annual Benefits | per Recip. | Active Payroll |
| 1991 | | \$ | | \$ | 468 | \$ 2,120,236 | 5.9 | 3.1% |
| 1992 | | | | | 290 | 1,474,281 | 4.1 | 4.6 |
| 1993 | | | | | 312 | 1,822,113 | 3.8 | 5.5 |
| 1994 | | | | | 327 | 2,222,789 | 3.7 | 6.4 |
| 1995 | | | | | 367 | 2,727,135 | 3.3 | 7.7 |
| 1996 | | | | | 392 | 3,118,939 | 3.1 | 8.5 |
| 1997 | | | | | 429 | 3,711,946 | 2.8 | 10.0 |
| 1998 | | | | | 462 | 4,564,053 | 2.5 | 11.2 |
| 1999 | | | | | 494 | 5,152,654 | 2.4 | 12.4 |
| 2000 | | | | | 527 | 5,812,070 | 2.3 | 13.5 |
| 2001 | 500 | 6,045,922 | 59 | 344,860 | 559 | 6,390,782 | 2.1 | 14.2 |

Table 8
Flow of Retirees and Beneficiaries

| Year | A | dded to Rol | ls | Rem | oved from l | Rolls | Y | ear End |
|-------|---------|-------------|-----------|--------|-------------|----------|--------|--------------|
| Ended | | Annual | Benefit | | Annual | Benefit | | Annual |
| 12/31 | Number@ | Benefits | Adjust. * | Number | Benefits | Adjust.# | Number | Benefits |
| | | | | | | | | |
| 1991 | 35 | \$ 248,019 | \$ | 8 | \$ 47,293 | \$ | 468 | \$ 2,120,236 |
| 1992 | 20 | 200,120 | | 198 | 846,075 | | 290 | 1,474,281 |
| 1993 | 35 | 422,897 | | 13 | 75,065 | | 312 | 1,822,113 |
| 1994 | 27 | 439,064 | | 12 | 38,388 | | 327 | 2,222,789 |
| 1995 | 47 | 544,633 | | 7 | 40,287 | | 367 | 2,727,135 |
| | | | | | | | | |
| 1996 | 33 | 440,912 | | 8 | 49,108 | | 392 | 3,118,939 |
| 1997 | 45 | 656,395 | | 8 | 63,389 | | 429 | 3,711,946 |
| 1998 | 44 | 921,125 | | 11 | 69,017 | | 462 | 4,564,053 |
| 1999 | 47 | 709,648 | | 15 | 121,047 | | 494 | 5,152,654 |
| 2000 | 42 | 741,352 | | 9 | 81,935 | | 527 | 5,812,070 |
| | | | | | | | | , , |
| 2001 | 43 | 639,794 | 4,432 | 10 | 49,884 | 15,636 | 559 | 6,390,782 |
| | | , | , | | , | , | | , , |

[@] Includes beneficiaries of retirees who died during the year.

^{*} *Includes where applicable E, E-1, and E-2 benefits, and corrections.*

[#] Includes where applicable C-2 and Accelerated Option benefits, and corrections.

Note: Participant flow in 2001 may not add due to adjustments in 2000 data.

Table 9

Retirees and Beneficiaries on the Rolls as of December 31, 2001

Distribution by Type of Benefit Being Paid

| | Annual | Benefits |
|--|-----------------------|----------------------------------|
| Benefits Being Paid to: | Number | Amount |
| Age and service retirants | 476 | \$5,872,503 |
| Non-duty disability retirants | 21 | 162,823 |
| Duty disability retirants | 3 | 10,596 |
| Beneficiaries of deceased retirants | 35 | 203,467 |
| Beneficiaries of deceased members: Non-duty death Duty death Total Benefits Being Paid | 23 <u>1</u> 559 | 122,238 19,155 \$6,390,782 |

Table 10
Reported Assets (Market Value)

| | 2001 Va | luation | 2000 Va | luation |
|--------------------------|--------------------------|---------------|--------------------------|---------------|
| Division | Employer And Retiree* | Employee# | Employer And Retiree* | Employee# |
| 01 - Confidentials | \$ 3,331,811 | \$ 420,308 | \$ 4,004,897 | \$ 456,855 |
| 02 - Sheriff FOP Spvs | 10,411,055 | 2,093,046 | 11,580,033 | 1,695,341 |
| 04 - MCF | 3,742,936 | 57,866 | 3,960,627 | 55,081 |
| 09 - Judges | 422,715 | 16,167 | 711,861 | 6,813 |
| 10 - Gnrl Mgmt | 14,841,654 | 2,178,529 | 15,507,238 | 1,836,305 |
| 11 - Gnrl Library | 1,843,289 | 127,677 | 1,911,499 | 128,740 |
| 12 - Gnrl ICEA Profs | 7,089,021 | 1,878,711 | 7,035,706 | 1,551,368 |
| 13 - Gnrl OPEIU Prob | 4,377,859 | 872,617 | 4,393,160 | 698,434 |
| 14 - Gnrl TOPS UAW | 22,606,900 | 3,085,476 | 23,417,834 | 3,058,963 |
| 15 - Animal Cntrl FOP | 559,637 | 165,977 | 558,152 | 111,259 |
| 16 - Gnrl Commsnrs | 222,890 | 41,556 | 236,801 | 45,559 |
| 17 - ICEA Nurses | 5,005,286 | 1,261,590 | 5,166,781 | 962,688 |
| 18 - ICEA Ct. Prof | 4,451,287 | 922,191 | 4,541,094 | 827,370 |
| 19 - Cnstutnl Offels | 1,187,017 | 198,088 | 1,225,839 | 242,386 |
| 21 - FOP Shrf Deputies | 13,930,284 | 3,490,503 | 14,613,714 | 2,995,888 |
| 40 - ICEA Unit 111 | 2,567,322 | 172,334 | 2,821,596 | 183,320 |
| 41 - MCF Management | 1,055,267 | 54,847 | 1,057,765 | 52,362 |
| 42 - ICEA Unit 11 | 217,741 | 86,209 | 210,672 | 71,203 |
| 43 - ICEA Unit 1 | 444,656 | 86,468 | 494,758 | 84,575 |
| 90 - Asst Pros Attnys | 3,807,478 | 211,637 | 3,739,449 | 183,244 |
| 91 - Parks Union Empl | 94,276 | 0 | 135,109 | 1,760 |
| 92 - Parks Non Union | 551,396 | 50,303 | 545,974 | 48,368 |
| 93 - Lgl Rsrch Clerks | 72,588 | 0 | 57,415 | 0 |
| Total Municipality | \$102,834,365 | \$ 17,472,100 | \$107,927,974 | \$ 15,297,884 |
| Combined Reserves | \$120,306,465 | | \$123,225,858 | |

^{*} Reserve for Employer Contributions and Benefit Payments

The December 31, 2001 Valuation Assets are equal to 1.105969 times the reported Market Value of assets. The derivation of Valuation Assets is described on page 120.

[#] Reserve for Employee Contributions

Table 11

Flow of Valuation Assets (Actuarial Value)

| Year Ended 12/31 | Contril Employer | | Investment Income | Benefit Payments | Member Contrib. Refunds | Tran Out | sfer In | Balance |
|------------------------|---------------------|-----------|----------------------|---------------------|-------------------------------|-------------|------------|----------------|
| 2000 | \$ | \$ | \$ | \$ | \$ (498,267) | \$ | \$ | \$ 123,308,412 |
| 2001 | 3,969,561 | 2,669,220 | 9,655,853 | (6,165,634) | | (1,154,895) | 1,270,971 | 133,055,221 |

Table 12

Termination Liability and Present Value of Accrued Benefits as of December 31, 2001

| | | PVAB* | | PVAB | Unfunded |
|--|--|---|---------------|---------|----------------|
| Termination | | Present Value of | Valuation | Percent | (Overfunded) |
| Liability* | Division | Accrued Benefits | Assets | Funded | PVAB |
| \$ 2,288,095 365,826 1,444,944 \$ 4,098,865 | 01 - Confidentials Active Members Vested Former Members Retirees and Beneficiaries Total | \$ 1,892,279 365,826 1,444,944 \$ 3,703,049 | \$ 4,149,727 | 112.1% | \$ (446,678) |
| \$ 4,112,668 163,857 13,774,733 \$ 18,051,258 | 02 - Sheriff FOP Spvs Active Members Vested Former Members Retirees and Beneficiaries Total | \$ 5,031,230 163,857 <u>13,774,733</u> \$ 18,969,820 | \$ 13,829,148 | 72.9% | \$ 5,140,672 |
| \$ 1,271,931 604,111 2,093,346 \$ 3,969,388 | 04 - MCF Active Members Vested Former Members Retirees and Beneficiaries Total | \$ 1,241,765 604,111 2,093,346 \$ 3,939,222 | \$ 4,203,569 | 106.7% | \$ (264,347) |
| \$ 585,308 44,111 <u>195,543</u> \$ 824,962 | 09 - Judges Active Members Vested Former Members Retirees and Beneficiaries Total | \$ 447,402 44,111 <u>195,543</u> \$ 687,056 | \$ 485,390 | 70.6% | \$ 201,666 |
| \$ 11,849,690 1,490,186 7,119,642 \$ 20,459,518 | 10 - Gnrl Mgmt Active Members Vested Former Members Retirees and Beneficiaries Total | \$ 9,427,002 1,490,186 7,119,642 \$ 18,036,830 | \$ 18,823,795 | 104.4% | \$ (786,965) |
| \$ 0 1,398,844 <u>904,374</u> \$ 2,303,218 | 11 - Gnrl Library Active Members Vested Former Members Retirees and Beneficiaries Total | \$ 0 1,398,844 <u>904,374</u> \$ 2,303,218 | \$ 2,179,827 | 94.6% | \$ 123,391 |
| \$ 6,106,044 1,173,573 2,091,926 \$ 9,371,543 | 12 - Gnrl ICEA Profs Active Members Vested Former Members Retirees and Beneficiaries Total | \$ 5,381,690 1,173,573 2,091,926 \$ 8,647,189 | \$ 9,918,034 | 114.7% | \$ (1,270,845) |

Table 12 (continued)

Termination Liability and Present Value of Accrued Benefits as of December 31, 2001

| Termination | | PVAB* Present Value of | Valuation | PVAB Percent | Unfunded (Overfunded) |
|---|--|---|---------------|-----------------|--------------------------|
| Liability* | Division | Accrued Benefits | Assets | Funded | PVAB |
| \$ 4,995,209 456,938 796,951 \$ 6,249,098 | 13 - Gnrl OPEIU Prob Active Members Vested Former Members Retirees and Beneficiaries Total | \$ 3,929,476 456,938 796,951 \$ 5,183,365 | \$ 5,806,864 | 112.0% | \$ (623,499) |
| \$ 12,346,374 1,730,157 11,115,824 \$ 25,192,355 | 14 - Gnrl TOPS UAW Active Members Vested Former Members Retirees and Beneficiaries Total | \$ 10,831,128 1,730,157 11,115,824 \$ 23,677,109 | \$ 28,414,971 | 120.0% | \$ (4,737,862) |
| \$ 782,150 79,288 <u>156,583</u> \$ 1,018,021 | 15 - Animal Cntrl FOP Active Members Vested Former Members Retirees and Beneficiaries Total | \$ 775,229 79,288 <u>156,583</u> \$ 1,011,100 | \$ 802,507 | 79.4% | \$ 208,593 |
| \$ 80,268 55,247 <u>141,480</u> \$ 276,995 | 16 - Gnrl Commsnrs Active Members Vested Former Members Retirees and Beneficiaries Total | \$ 64,971 55,247 <u>141,480</u> \$ 261,698 | \$ 292,469 | 111.8% | \$ (30,771) |
| \$ 4,530,743 886,180 2,470,484 \$ 7,887,407 | 17 - ICEA Nurses Active Members Vested Former Members Retirees and Beneficiaries Total | \$ 3,883,585 886,180 2,470,484 \$ 7,240,249 | \$ 6,930,971 | 95.7% | \$ 309,278 |
| \$ 2,740,352 265,376 4,704,516 \$ 7,710,244 | 18 - ICEA Ct. Prof Active Members Vested Former Members Retirees and Beneficiaries Total | \$ 2,498,109 265,376 4,704,516 \$ 7,468,001 | \$ 5,942,900 | 79.6% | \$ 1,525,101 |
| \$ 756,478 0 777,804 \$ 1,534,282 | 19 - Cnstutnl Offcls Active Members Vested Former Members Retirees and Beneficiaries Total | \$ 622,935 0 <u>777,804</u> \$ 1,400,739 | \$ 1,531,883 | 109.4% | \$ (131,144) |

Table 12 (continued)

Termination Liability and Present Value of Accrued Benefits as of December 31, 2001

| Termination | | PVAB* Present Value of | Valuation | PVAB Percent | Unfunded (Overfunded) |
|--|---|---|---------------|-----------------|--------------------------|
| Liability* | Division | Accrued Benefits | Assets | Funded | PVAB |
| \$ 6,810,836 445,862 11,466,784 \$ 18,723,482 | 21 - FOP Shrf Deputies Active Members Vested Former Members Retirees and Beneficiaries Total | \$ 7,504,915 445,862 <u>11,466,784</u> \$ 19,417,561 | \$ 19,266,850 | 99.2% | \$ 150,711 |
| \$ 436,040 166,865 2,100,392 \$ 2,703,297 | 40 - ICEA Unit 111 Active Members Vested Former Members Retirees and Beneficiaries Total | \$ 389,975 166,865 2,100,392 \$ 2,657,232 | \$ 3,029,975 | 114.0% | \$ (372,743) |
| \$ 200,095 229,178 452,161 \$ 881,434 | 41 - MCF Management Active Members Vested Former Members Retirees and Beneficiaries Total | \$ 223,099 229,178 <u>452,161</u> \$ 904,438 | \$ 1,227,752 | 135.7% | \$ (323,314) |
| \$ 162,776 29,204 100,794 \$ 292,774 | 42 - ICEA Unit 11 Active Members Vested Former Members Retirees and Beneficiaries Total | \$ 183,489 29,204 <u>100,794</u> \$ 313,487 | \$ 336,159 | 107.2% | \$ (22,672) |
| \$ 171,430 45,734 626,721 \$ 843,885 | 43 - ICEA Unit 1 Active Members Vested Former Members Retirees and Beneficiaries Total | \$ 153,405 45,734 626,721 \$ 825,860 | \$ 587,407 | 71.1% | \$ 238,453 |
| \$ 2,597,331 1,010,157 1,042,615 \$ 4,650,103 | 90 - Asst Pros Attnys Active Members Vested Former Members Retirees and Beneficiaries Total | \$ 2,177,159 1,010,157 1,042,615 \$ 4,229,931 | \$ 4,445,017 | 105.1% | \$ (215,086) |
| \$ 61,607 0 0 0 \$ 61,607 | 91 - Parks Union Empl Active Members Vested Former Members Retirees and Beneficiaries Total | \$ 70,195 0 <u>0</u> \$ 70,195 | \$ 104,266 | 148.5% | \$ (34,071) |

Table 12 (continued)

Termination Liability and Present Value of Accrued Benefits as of December 31, 2001

| Termination Liability* | Division | PVAB* Present Value of Accrued Benefits | Valuation Assets | PVAB Percent Funded | Unfunded (Overfunded) PVAB |
|---|---|---|---------------------|---------------------------|----------------------------------|
| \$ 775,118 0 0 0 \$ 775,118 | 92 - Parks Non Union Active Members Vested Former Members Retirees and Beneficiaries Total | \$ 587,318 0 0 0 \$ 587,318 | \$ 665,460 | 113.3% | \$ (78,142) |
| \$ 95,092 0 0 0 \$ 95,092 | 93 - Lgl Rsrch Clerks Active Members Vested Former Members Retirees and Beneficiaries Total | \$ 77,686 0 <u>0</u> \$ 77,686 | \$ 80,280 | 103.3% | \$ (2,594) |
| \$ 63,755,635 10,640,694 63,577,617 \$ 137,973,946 | Total Municipality Active Members Vested Former Members Retirees and Beneficiaries Total | \$ 57,394,042 10,640,694 63,577,617 \$ 131,612,353 | \$ 133,055,221 | 101.1% | \$ (1,442,868) |

^{*} The Termination Liability represents the present value of benefits payable in the event that all active members terminate employment on December 31, 2001, based upon the valuation interest and mortality assumptions. The present value of accrued benefits (PVAB) includes vested and non-vested benefits accrued as of December 31, 2001. For a non-vested active member, the PVAB represents the present value of the non-vested accrued benefit, and may exceed the Termination Liability which represents for that member only the member's accumulated contributions, if any. For some vested active members the Termination Liability may exceed the PVAB, because the Termination Liability assumes that members retire at the earliest possible age for commencement of unreduced deferred benefits, whereas the PVAB assumes continued employment based on actuarial assumptions for retirement, death, disability and withdrawal.

Table 13
Actuarial Accrued Liabilities and Valuation Assets as of December 31, 2001

| Division | Actuarial Accrued Liabilities | Valuation Assets | Percent Funded | Unfunded (Overfunded) Accrued Liabilities |
|---|--|--|-------------------------|--|
| 01 -Confidentials Reserve for Employer Contributions | | | | |
| and Benefit Payments Active Members Vested Former Members | \$ 2,745,213 316,930 | \$ 1,978,593 316,930 | 72.1% 100.0 | \$ 766,620 0 |
| Retirees and Beneficiaries Total | 1,444,944 \$ 4,507,087 | \$ 3,740,467 | 100.0 83.0% | \$ 766,620 |
| Reserve for Employee Contributions Active Members Vested Former Members | \$ 360,364 <u>48,896</u> | \$ 360,364 <u>48,896</u> | | |
| Total Division Total | \$ 409,260 \$ 4,916,347 | \$ 409,260 \$ 4,149,727 | 100.0% 84.4% | \$ 0 \$ 766,620 |
| 02 - Sheriff FOP Spvs Reserve for Employer Contributions | | | | |
| and Benefit Payments Active Members Vested Former Members | \$ 5,488,747 137,066 | \$ 0 0 | 0.0% 0.0 | \$ 5,488,747 137,066 |
| Retirees and Beneficiaries Total | 13,774,733 \$ 19,400,546 | 11,762,918 \$ 11,762,918 | 85.4 60.6% | 2,011,815 \$ 7,637,628 |
| Reserve for Employee Contributions Active Members Vested Former Members | \$ 2,039,439 26,791 | \$ 2,039,439 26,791 | | |
| Total Division Total | \$ 2,066,230 \$ 21,466,776 | \$ 2,066,230 \$ 13,829,148 | 100.0% 64.4% | \$ 0 \$ 7,637,628 |
| 04 -MCF Reserve for Employer Contributions | | | | |
| and Benefit Payments Active Members Vested Former Members | \$ 2,455,053 588,717 | \$ 1,471,822 588,717 | 60.0% 100.0 | \$ 983,231 0 |
| Retirees and Beneficiaries Total | 2,093,346 \$ 5,137,116 | 2,093,346 \$ 4,153,885 | 100.0 100.0 80.9% | 983,231 |
| Reserve for Employee Contributions Active Members | \$ 34,290 15 304 | \$ 34,290 15 304 | | |
| Vested Former Members Total Division Total | 15,394 \$ 49,684 \$ 5,186,800 | 15,394 \$ 49,684 \$ 4,203,569 | 100.0% 81.0% | \$ 0 \$ 983,231 |

Table 13 (continued)

| Division | Actuarial Accrued Liabilities | Valuation Assets | Percent Funded | Unfunded (Overfunded) Accrued Liabilities |
|--|--|---|--|--|
| 09 -Judges Reserve for Employer Contributions and Benefit Payments Active Members Vested Former Members Retirees and Beneficiaries | \$ 571,380 32,146 <u>195,543</u> \$ 799,069 | \$ 241,534 32,146 <u>195,543</u> \$ 469,223 | 42.3% 100.0 100.0 58.7% | \$ 329,846 0 <u>0</u> \$ 329,846 |
| Total Reserve for Employee Contributions Active Members Vested Former Members Total Division Total | \$ 4,202 <u>11,965</u> \$ 16,167 \$ 815,236 | \$ 4,202 <u>11,965</u> \$ 16,167 \$ 485,390 | 100.0% 59.5% | \$ 329,846 \$ 0 \$ 329,846 |
| 10 -Gnrl Mgmt Reserve for Employer Contributions and Benefit Payments Active Members Vested Former Members Retirees and Beneficiaries Total Reserve for Employee Contributions Active Members Vested Former Members Total Division Total | \$ 11,866,064 1,250,892 7,119,642 \$ 20,236,598 \$ 1,902,665 239,294 \$ 2,141,959 \$ 22,378,557 | \$ 8,311,302 1,250,892 7,119,642 \$ 16,681,836 \$ 1,902,665 239,294 \$ 2,141,959 \$ 18,823,795 | 70.0% 100.0 100.0 82.4% 100.0% 84.1% | \$ 3,554,762 0 0 \$ 3,554,762 \$ 0 \$ 3,554,762 |
| 11 -Gnrl Library Reserve for Employer Contributions and Benefit Payments Active Members Vested Former Members Retirees and Beneficiaries Total Reserve for Employee Contributions Active Members | \$ 0 1,271,167 <u>904,374</u> \$ 2,175,541 | \$ 0 1,147,776 <u>904,374</u> \$ 2,052,150 | 0.0% 90.3 100.0 94.3% | \$ 0 123,391 <u>0</u> \$ 123,391 |
| Vested Former Members Total Division Total | \$ 127,677 \$ 127,677 \$ 2,303,218 | \$ 127,677 \$ 127,677 \$ 2,179,827 | 100.0% 94.6% | \$ 0 \$ 123,391 |

Table 13 (continued)

| Division | Actuarial Accrued Liabilities | Valuation Assets | Percent Funded | Unfunded (Overfunded) Accrued Liabilities |
|---|---|--|-------------------------|--|
| 12 -Gnrl ICEA Profs Reserve for Employer Contributions and Benefit Payments | Ф 7 220 505 | Ф F 000 207 | 60.00 / | ф 2 270 120 |
| Active Members Vested Former Members Retirees and Beneficiaries | \$ 7,339,505 986,447 2,091,926 | \$ 5,060,367 986,447 2,091,926 | 68.9% 100.0 100.0 | \$ 2,279,138 0 0 0 |
| Total Reserve for Employee Contributions Active Members | \$ 10,417,878 \$ 1,592,168 | \$ 8,138,740 \$ 1,592,168 | 78.1% | \$ 2,279,138 |
| Vested Former Members Total Division Total | \$ 1,779,294 \$ 12,197,172 | 187,126 \$ 1,779,294 \$ 9,918,034 | 100.0% 81.3% | \$ 0 \$ 2,279,138 |
| 13 -Gnrl OPEIU Prob Reserve for Employer Contributions | | | | |
| and Benefit Payments Active Members Vested Former Members | \$ 5,190,675 416,817 | \$ 3,720,480 416,817 | 71.7% 100.0 | \$ 1,470,195 0 |
| Retirees and Beneficiaries Total Reserve for Employee Contributions | 796,951 \$ 6,404,443 | 796,951 \$ 4,934,248 | 100.0 77.0% | \$ 1,470,195 |
| Active Members Vested Former Members Total | \$ 832,495 <u>40,121</u> \$ 872,616 | \$ 832,495 <u>40,121</u> \$ 872,616 | 100.0% | \$ 0 |
| Division Total | \$ 7,277,059 | \$ 5,806,864 | 79.8% | \$ 1,470,195 |
| 14 -Gnrl TOPS UAW Reserve for Employer Contributions and Benefit Payments | | | | |
| Active Members | \$ 16,394,376 | \$ 12,882,464 | 78.6% | |
| Vested Former Members Retirees and Beneficiaries | 1,469,308 11,115,824 | 1,469,308 11,115,824 | 100.0 100.0 | $\begin{array}{c} 0 \\ 0 \end{array}$ |
| Total | \$ 28,979,508 | \$ 25,467,596 | 87.9% | \$ 3,511,912 |
| Reserve for Employee Contributions | | | | , , , |
| Active Members | \$ 2,686,526 | \$ 2,686,526 | | |
| Vested Former Members Total | 260,849 \$ 2,947,375 | 260,849 \$ 2,947,375 | 100.0% | \$ 0 |
| Division Total | \$ 2,947,373 \$ 31,926,883 | \$ 2,947,373 \$ 28,414,971 | 89.0% | \$ 3,511,912 |

Table 13 (continued)

| Division | Actuarial Accrued Liabilities | Valuation Assets | Percent Funded | Unfunded (Overfunded) Accrued Liabilities |
|--|--|--|--|--|
| 15 - Animal Cntrl FOP Reserve for Employer Contributions and Benefit Payments | | | | |
| Active Members Vested Former Members Retirees and Beneficiaries | \$ 1,144,825 78,323 <u>156,583</u> | \$ 410,741 78,323 <u>156,583</u> | 35.9% 100.0 100.0 | \$ 734,084 0 0 |
| Total Reserve for Employee Contributions | \$ 1,379,731 | \$ 645,647 | 46.8% | \$ 734,084 |
| Active Members Vested Former Members Total | \$ 155,895 <u>965</u> \$ 156,860 | \$ 155,895 <u>965</u> \$ 156,860 | 100.0% | \$ 0 |
| Division Total | \$ 1,536,591 | \$ 802,507 | 52.2% | \$ 734,084 |
| 16 -Gnrl Commsnrs Reserve for Employer Contributions and Benefit Payments Active Members Vested Former Members Retirees and Beneficiaries Total Reserve for Employee Contributions Active Members Vested Former Members Total Division Total | \$ 88,985 46,596 141,480 \$ 277,061 \$ 22,886 8.651 \$ 31,537 \$ 308,598 | \$ 72,856 46,596 141,480 \$ 260,932 \$ 22,886 8,651 \$ 31,537 \$ 292,469 | 81.9% 100.0 100.0 94.2% 100.0% 94.8% | \$ 16,129 0 0 \$ 16,129 \$ 0 \$ 16,129 |
| 17 -ICEA Nurses Reserve for Employer Contributions and Benefit Payments | | | | |
| Active Members | \$ 4,404,955 | \$ 2,419,330 | 54.9% | \$ 1,985,625 |
| Vested Former Members | 808,334 | 808,334 | 100.0 | 0 |
| Retirees and Beneficiaries Total | 2,470,484 \$ 7,683,773 | 2,470,484 \$ 5,698,148 | 100.0 74.2% | <u>0</u> \$ 1,985,625 |
| Reserve for Employee Contributions | Φ 1,003,113 | φ 5,090,140 | 74.270 | \$ 1,965,025 |
| Active Members | \$ 1,154,977 | \$ 1,154,977 | | |
| Vested Former Members | <u>77,846</u> | <u>77,846</u> | | |
| Total | \$ 1,232,823 | \$ 1,232,823 | 100.0% | \$ 0 |
| Division Total | \$ 8,916,596 | \$ 6,930,971 | 77.7% | \$ 1,985,625 |

Table 13 (continued)

| Division | Actuarial Accrued Liabilities | Valuation Assets | Percent Funded | Unfunded (Overfunded) Accrued Liabilities |
|---|---|---|--------------------------------|--|
| 18 -ICEA Ct. Prof Reserve for Employer Contributions and Benefit Payments | <u> </u> | TIBBOO | Tunded | Dato Marc s |
| Active Members Vested Former Members Retirees and Beneficiaries | \$ 2,565,736 204,332 4,704,516 | \$ 182,295 204,332 4,704,516 | 7.1% 100.0 100.0 | \$ 2,383,441 0 <u>0</u> |
| Total Reserve for Employee Contributions Active Members | \$ 7,474,584 \$ 790,713 | \$ 5,091,143 \$ 790,713 | 68.1% | \$ 2,383,441 |
| Vested Former Members Total Division Total | \$ 851,757 \$ 8,326,341 | \$ 851,757 \$ 5,942,900 | 100.0% 71.4% | \$ 0 \$ 2,383,441 |
| 19 - Cnstutnl Offcls Reserve for Employer Contributions and Benefit Payments | | | | |
| Active Members Vested Former Members Retirees and Beneficiaries Total | \$ 708,939 0 <u>777,804</u> \$ 1,486,743 | \$ 555,990 0 <u>777,804</u> \$ 1,333,794 | 78.4% 0.0 100.0 89.7% | \$ 152,949 0 <u>0</u> \$ 152,949 |
| Reserve for Employee Contributions Active Members Vested Former Members | \$ 198,089 | \$ 1,333,794 \$ 198,089 0 | 67.770 | φ 132,747 |
| Total Division Total | \$ 198,089 \$ 1,684,832 | \$ 198,089 \$ 1,531,883 | 100.0% 90.9% | \$ 0 \$ 152,949 |
| 21 -FOP Shrf Deputies Reserve for Employer Contributions and Benefit Payments | | | | |
| Active Members Vested Former Members Retirees and Beneficiaries | \$ 8,851,372 342,253 11,466,784 | \$ 3,992,639 342,253 11,466,784 | 45.1% 100.0 100.0 | \$ 4,858,733 0 0 |
| Total Reserve for Employee Contributions | \$ 20,660,409 | \$ 15,801,676 | 76.5% | \$ 4,858,733 |
| Active Members Vested Former Members Total Division Total | \$ 3,361,565 103,609 \$ 3,465,174 \$ 24,125,583 | \$ 3,361,565 | 100.0% 79.9% | \$ 0 \$ 4,858,733 |
| Division fotal | φ 44,143,303 | φ 1 <i>7</i> ,200,030 | 13.3 /0 | φ τ,050,755 |

Table 13 (continued)

| Division | Actuarial Accrued Liabilities | Valuation Assets | Percent Funded | Unfunded (Overfunded) Accrued Liabilities |
|--|-------------------------------------|-----------------------------------|-------------------------|--|
| 40 -ICEA Unit 111 Reserve for Employer Contributions and Benefit Payments | | | | |
| Active Members Vested Former Members | \$ 545,702 130,981 | \$ 656,803 130,981 | 120.4% 100.0 | \$ (111,101) 0 |
| Retirees and Beneficiaries Total Reserve for Employee Contributions | \$ 2,100,392 \$ 2,777,075 | 2,100,392 \$ 2,888,176 | 100.0 104.0% | \$ (111,101) |
| Active Members Vested Former Members | \$ 105,915 35,884 | \$ 105,915 35,884 | 100.00/ | Φ.0 |
| Total Division Total | \$ 141,799 \$ 2,918,874 | \$ 141,799 \$ 3,029,975 | 100.0% 103.8% | \$ 0 \$ (111,101) |
| 41 -MCF Management Reserve for Employer Contributions and Benefit Payments | | | | |
| Active Members Vested Former Members | \$ 471,939 194,133 | \$ 527,513 194,133 | 111.8% 100.0 | \$ (55,574) 0 |
| Retirees and Beneficiaries Total Reserve for Employee Contributions | \$ 1,118,233 | 452,161 \$ 1,173,807 | 100.0 105.0% | \$ (55,574) |
| Active Members Vested Former Members | \$ 18,900 <u>35,045</u> | \$ 18,900 <u>35,045</u> | 100.00/ | Φ.0 |
| Total Division Total | \$ 53,945 \$ 1,172,178 | \$ 53,945 \$ 1,227,752 | 100.0% 104.7% | \$ 0 \$ (55,574) |
| 42 -ICEA Unit 11 Reserve for Employer Contributions and Benefit Payments | | | | |
| Active Members | \$ 272,641 | \$ 150,731 | 55.3% | \$ 121,910 |
| Vested Former Members Retirees and Beneficiaries | 21,345 100,794 | 21,345 100,794 | 100.0 100.0 | $0 \\ \underline{0}$ |
| Total Reserve for Employee Contributions | \$ 394,780 | \$ 272,870 | 69.1% | \$ 121,910 |
| Active Members Vested Former Members | \$ 55,430 7,859 | \$ 55,430 7,859 | | |
| Total Division Total | \$ 63,289 \$ 458,069 | \$ 63,289 \$ 336,159 | 100.0% 73.4% | \$ 0 \$ 121,910 |

Table 13 (continued)

| Division | Actuarial Accrued Liabilities | Valuation Assets | Percent Funded | Unfunded (Overfunded) Accrued Liabilities |
|---|---|---|--|--|
| 43 -ICEA Unit 1 Reserve for Employer Contributions and Benefit Payments | | 4.0 | | . |
| Active Members Vested Former Members Retirees and Beneficiaries Total | \$ 239,625 19,656 <u>626,721</u> \$ 886,002 | \$ 0 0 <u>512,008</u> \$ 512,008 | 0.0% 0.0 81.7 57.8% | \$ 239,625 19,656 <u>114,713</u> \$ 373,994 |
| Reserve for Employee Contributions Active Members Vested Former Members Total | \$ 49,321 <u>26,078</u> \$ 75,399 | \$ 49,321 <u>26,078</u> \$ 75,399 | 100.0% | \$ 0 |
| Division Total | \$ 961,401 | \$ 587,407 | 61.1% | \$ 373,994 |
| 90 -Asst Pros Attnys Reserve for Employer Contributions and Benefit Payments Active Members Vested Former Members Retirees and Beneficiaries Total Reserve for Employee Contributions Active Members Vested Former Members Total Division Total | \$ 3,416,857 959,994 1,042,615 \$ 5,419,466 \$ 160,088 50,163 \$ 210,251 \$ 5,629,717 | \$ 2,232,157 959,994 1,042,615 \$ 4,234,766 \$ 160,088 50,163 \$ 210,251 \$ 4,445,017 | 65.3% 100.0 100.0 78.1% 100.0% 79.0% | \$ 1,184,700 0 0 \$ 1,184,700 \$ 1,184,700 |
| 91 -Parks Union Empl Reserve for Employer Contributions and Benefit Payments Active Members Vested Former Members Retirees and Beneficiaries Total | \$ 179,060 0 <u>0</u> \$ 179,060 | \$ 104,266 0 <u>0</u> \$ 104,266 | 58.2% 0.0 0.0 58.2% | \$ 74,794 0 <u>0</u> \$ 74,794 |
| Reserve for Employee Contributions Active Members Vested Former Members Total Division Total | \$ 0 <u>0</u> \$ 0 \$ 179,060 | \$ 0 | 0.0% 58.2% | \$ 0 \$ 74,794 |

Table 13 (continued)

| Division | Actuarial Accrued Liabilities | Valuation Assets | Percent Funded | Unfunded (Overfunded) Accrued Liabilities |
|---|--|--|------------------------|--|
| 92 -Parks Non Union Reserve for Employer Contributions and Benefit Payments | | | | |
| Active Members Vested Former Members | \$ 800,920 0 | \$ 615,158 0 | 76.8% 0.0 | \$ 185,762 0 |
| Retirees and Beneficiaries Total | \$ 800,920 | \$ 615,158 | 0.0 76.8% | \$ 185,762 |
| Reserve for Employee Contributions Active Members | \$ 50,302 | \$ 50,302 | | |
| Vested Former Members Total Division Total | \$ 50,302 \$ 851,222 | \$ 50,302 \$ 665,460 | 100.0% 78.2% | \$ 0 \$ 185,762 |
| 93 -Lgl Rsrch Clerks | ψ 001,222 | φ σσε, ισσ | 750273 | ¥ 135,132 |
| Reserve for Employer Contributions and Benefit Payments | | | | |
| Active Members Vested Former Members | \$ 107,904 0 | \$ 80,280 0 | 74.4% 0.0 | \$ 27,624 0 |
| Retirees and Beneficiaries Total | \$ 107,904 | \$ 80,280 | 0.0 74.4% | \$ 27,624 |
| Reserve for Employee Contributions Active Members | \$ 0 | \$ 0 | | |
| Vested Former Members Total | \$ 0 \$ 0 | \$0 | 0.0% 74.4% | \$ 0 \$ 27.624 |
| Division Total Municipality Totals | \$ 107,904 | \$ 80,280 | 74.470 | \$ 27,624 |
| Reserve for Employer Contributions and Benefit Payments | | | | |
| Active Members Vested Former Members | \$ 75,850,473 9,275,437 | \$ 45,667,321 8,995,324 | 60.2% 97.0 | \$ 30,183,152 280,113 |
| Retirees and Beneficiaries Total | \$ 148,703,527 | 61,451,089 \$ 116,113,734 | 96.7 78.1% | 2,126,528 \$ 32,589,793 |
| Reserve for Employee Contributions Active Members Vested Former Members | \$ 15,576,230 | \$ 15,576,230 | | |
| Total Municipality Total | 1,365,257 \$ 16,941,487 \$ 165,645,014 | 1,365,257 \$ 16,941,487 \$ 133,055,221 | 100.0% 80.3% | \$ 0 \$ 32,589,793 |

Table 14
Actuarial Accrued Liabilities - Comparative Schedule

| Valuation Date December 31 | Accrued Liabilities | Valuation Assets | Funded Percent | Unfunded Accrued Liability | UAL as Percent of Annual Payroll |
|----------------------------|------------------------|---------------------|-------------------|----------------------------------|---|
| 1987 | \$ 39,645,235 | \$ 54,072,938 | 136% | \$(14,427,703) | 0% |
| 1988 | 44,776,267 | 57,889,961 | 129 | (13,113,694) | 0 |
| 1989 | 52,525,297 | 64,949,909 | 124 | (12,424,612) | 0 |
| 1990 | 61,520,840 | 71,084,865 | 116 | (9,564,025) | 0 |
| 1991 | 69,567,734 | 79,736,359 | 115 | (10,168,625) | 0 |
| 1992 | 47,237,433 | 50,968,120 | 108 | (3,730,687) | 0 |
| 1993 | 66,392,574 | 52,687,283 | 79 | 13,705,291 | 42 |
| 1994 | 82,445,154 | 56,238,777 | 68 | 26,206,377 | 76 |
| 1995 | 91,267,612 | 62,529,929 | 69 | 28,737,683 | 82 |
| 1996 | 100,596,375 | 70,095,587 | 70 | 30,500,788 | 83 |
| 1997 | 113,279,199 | 83,334,248 | 74 | 29,944,951 | 81 |
| 1998 | 129,697,752 | 95,427,165 | 74 | 34,270,587 | 84 |
| 1999 | 137,512,089 | 111,156,340 | 81 | 26,355,749 | 64 |
| 2000 | 152,754,990 | 123,308,414 | 81 | 29,446,576 | 68 |
| 2001 | 165,645,014 | 133,055,221 | 80 | 32,589,793 | 73 |
| | | | | | |

Notes:

Actuarial assumptions were revised for the 1993, 1997 and 2000 actuarial valuations. The funding method was changed to entry age normal for the 1993 valuation.

Table 15

Computed Employer Contributions to the Retirement System

For the Fiscal Year Beginning January 1, 2003

| | Employer Contributions @ | | | | | |
|------------------------|--------------------------|-------------|---------------|--------------|--|--|
| | | Unfunded | Total Regular | Minimum | | |
| 5 | Normal | Accrued | Employer | Required | | |
| Division | Cost | Liability # | Contribution | Contribution | | |
| Percentage of Payroll | | | | | | |
| 01 - Confidentials | 5.62% | 3.32% | 8.94% | 8.94% | | |
| 02 - Sheriff FOP Spvs | (1.97) | 22.04 | 20.07 | 20.07 | | |
| 04 - MCF | 5.63 | 2.04 | 7.67 | 6.60 | | |
| 09 - Judges | 10.78 | 9.02 | 19.80 | 19.80 | | |
| 10 - Gnrl Mgmt | 5.61 | 3.66 | 9.27 | 9.27 | | |
| 11 - Gnrl Library | - | - | - | - | | |
| 12 - Gnrl ICEA Profs | 4.61 | 2.37 | 6.98 | 6.98 | | |
| 13 - Gnrl OPEIU Prob | 2.65 | 4.26 | 6.91 | 6.91 | | |
| 14 - Gnrl TOPS UAW | 8.07 | 1.76 | 9.83 | 9.83 | | |
| 15 - Animal Cntrl FOP | 0.67 | 12.07 | 12.74 | 12.74 | | |
| 16 - Gnrl Commsnrs | 5.37 | 0.65 | 6.02 | 4.51 | | |
| 17 - ICEA Nurses | 4.47 | 3.93 | 8.40 | 8.40 | | |
| 18 - ICEA Ct. Prof | 2.90 | 8.09 | 10.99 | 10.99 | | |
| 19 - Cnstutnl Offcls | 6.55 | 1.77 | 8.32 | 8.32 | | |
| 21 - FOP Shrf Deputies | 4.60 | 3.94 | 8.54 | 8.54 | | |
| 40 - ICEA Unit 111 | 5.90 | (2.03) | 3.87 | 3.87 | | |
| 41 - MCF Management | 9.01 | (0.87) | 8.14 | 8.14 | | |
| 42 - ICEA Unit 11 | 6.95 | 1.72 | 8.67 | 8.22 | | |
| 43 - ICEA Unit 1 | 5.75 | 6.70 | 12.45 | 11.63 | | |
| 90 - Asst Pros Attnys | 9.76 | 3.91 | 13.67 | 13.67 | | |
| 91 - Parks Union Empl | 8.90 | 2.40 | 11.30 | 11.30 | | |
| 92 - Parks Non Union | 7.10 | 5.59 | 12.69 | 12.69 | | |
| 93 - Lgl Rsrch Clerks | 7.05 | 0.63 | 7.68 | 7.68 | | |

Table 15 (continued)

Computed Employer Contributions to the Retirement System For the Fiscal Year Beginning January 1, 2003

| | Employer Contributions @ | | | | | |
|--|--------------------------|-------------|---------------|--------------|--|--|
| | | Unfunded | Total Regular | Minimum | | |
| | Normal | Accrued | Employer | Required | | |
| Division | Cost | Liability # | Contribution | Contribution | | |
| Estimated Monthly Contribution* | | | | | | |
| 01 - Confidentials | \$ 5,800 | \$ 3,426 | \$ 9,226 | \$ 9,226 | | |
| 02 - Sheriff FOP Spvs | (3,051) | 34,139 | 31,088 | 31,088 | | |
| 04 - MCF | 12,120 | 4,392 | 16,512 | 14,209 | | |
| 09 - Judges | 1,762 | 1,474 | 3,236 | 3,236 | | |
| 10 - Gnrl Mgmt | 24,382 | 15,907 | 40,289 | 40,289 | | |
| 11 - Gnrl Library | 0 | 551 | 551 | 551 | | |
| 12 - Gnrl ICEA Profs | 19,827 | 10,193 | 30,020 | 30,020 | | |
| 13 - Gnrl OPEIU Prob | 4,088 | 6,572 | 10,660 | 10,660 | | |
| 14 - Gnrl TOPS UAW | 71,908 | 15,683 | 87,591 | 87,591 | | |
| 15 - Animal Cntrl FOP | 182 | 3,281 | 3,463 | 3,463 | | |
| 16 - Gnrl Commsnrs | 596 | 72 | 668 | 500 | | |
| 17 - ICEA Nurses | 10,095 | 8,875 | 18,970 | 18,970 | | |
| 18 - ICEA Ct. Prof | 3,817 | 10,647 | 14,464 | 14,464 | | |
| 19 - Cnstutnl Offcls | 2,532 | 684 | 3,216 | 3,216 | | |
| 21 - FOP Shrf Deputies | 25,384 | 21,742 | 47,126 | 47,126 | | |
| 40 - ICEA Unit 111 | 3,232 | (1,113) | 2,119 | 2,119 | | |
| 41 - MCF Management | 5,736 | (554) | 5,182 | 5,182 | | |
| 42 - ICEA Unit 11 | 2,208 | 546 | 2,754 | 2,611 | | |
| 43 - ICEA Unit 1 | 1,435 | 1,672 | 3,107 | 2,902 | | |
| 90 - Asst Pros Attnys | 13,229 | 5,300 | 18,529 | 18,529 | | |
| 91 - Parks Union Empl | 1,239 | 334 | 1,573 | 1,573 | | |
| 92 - Parks Non Union | 1,055 | 831 | 1,886 | 1,886 | | |
| 93 - Lgl Rsrch Clerks | 1,386 | 124 | 1,510 | 1,510 | | |
| Total Municipality | \$ 208,962 | \$ 144,778 | \$ 353,740 | \$ 350,921 | | |
| Estimated Annual Contribution* | | ** | | | | |
| Total Municipality | \$ 2,507,544 | \$1,737,336 | \$ 4,244,880 | \$ 4,211,052 | | |

[@] The above Employer contribution requirements are in addition to the Member contributions, if any, shown in Table 1.

^{*} Based on Valuation Payroll. Actual contributions will be based on actual reported monthly pays, and will be different from the above amounts (usually higher).

[#] The amortization method and period are described in Table 16 for each division.

Division 01 - Confidentials

Table 16A

Computed Employer Contributions to the Retirement System For the Fiscal Year Beginning January 1, 2003

| | Employer Contribution @ | | | | |
|--|---|--|--|--|--|
| Contribution for | As Percentage of Active Member Payroll | Estimated Monthly Dollar Contribution * | | | |
| Normal Cost (in addition to member contributions) | 5.62% | \$5,800 | | | |
| Amortization of Unfunded Accrued Liability (30 years) | 3.32 | <u>3,426</u> | | | |
| Total Long Term Contribution | 8.94 | 9,226 | | | |
| Overfunding Credit # | 0.00 | <u>0</u> | | | |
| Total Regular Contribution | 8.94 | 9,226 | | | |
| Temporary Adjustment | 0.00 | <u>0</u> | | | |
| Required Contribution | 8.94% | \$9,226 | | | |
| | | | | | |

[@] The above Employer contribution requirement is based on Member contributions of 4.50% of pay. If Member contributions are increased/decreased by 1.00% of pay, the Employer long term contribution requirement (based on a 30 year amortization) will decrease/increase by 0.91% of pay.

^{*} Based on Valuation Payroll. Actual contributions will be based on actual reported monthly pays, and will be different from the above amounts (usually higher).

[#] Only applies if assets exceed accrued liabilities.

Division 01 - Confidentials

Table 17A

Computed Employer Contributions - Comparative Statement

| | | | | ontribution as of Payroll |
|---|---|--|--|---|
| Valuation Date December 31, | Active Number | e Members Annual Payroll | Regular Contribution | Minimum Required Contribution |
| 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 2000 | 613 459 142 87 72 71 29 25 25 27 29 30 31 33 | \$ 12,746,102 9,072,947 3,433,518 2,401,545 2,255,242 2,356,550 826,648 782,010 747,190 868,169 895,532 1,002,675 1,068,662 1,167,155 | 8.85% 9.00 9.10 8.60 10.50 10.10 10.95 12.74 17.53 12.91 11.16 10.29 9.46 8.45 | 0.00% 0.00 0.00 0.00 0.00 0.00 2.20 4.62 6.65 12.66 11.91 11.16 10.29 9.46 8.45 |

Adoption of Benefit E reflected in 1987 valuation. Notes:

Adoption of Benefits C-2 and F55 (15 years) reflected in 1991 valuation. Adoption 1% member contributions reflected in 1991 valuation. Adoption of Benefit V-6 reflected in 1992 valuation. Adoption of Benefit E reflected in 1993 valuation.

Actuarial assumptions were revised for the 1993 valuation.

Adoption of Benefit B-3 and 4.5% member contributions reflected in 1994.

Actuarial assumptions were revised for the 1997 valuation.

Actuarial assumptions were revised for the 2000 valuation.

Division 01 - Confidentials

Table 18A Flow of Active Membership

| Year Ended 12/31 | | ` | | Termination Non-Vested | Trai Out | nsfer In | New Member | End of Year |
|------------------------|--|---|---|--------------------------|-------------|-------------|---------------|----------------|
| 2000 2001 | | | 1 | | 2 | 3 | 1 | 33 34 |

Table 19A Flow of Vested Former Members

| Year Ended 12/31 | Retired | Return To Work | Died (Survivor Benefit) | Forfeit Benefit | Tran Out | sfer In | New | End of Year |
|------------------------|---------|-------------------|-------------------------------|--------------------|-------------|------------|-----|----------------|
| 2000 2001 | 1 | | | | 32 | 1 | 3 | 42 13 |

Table 20A Flow of Retirees and Beneficiaries

| Year | A | dded to Roll | S | Removed from Rolls | | | Year End | |
|-------|---------|--------------|----------|--------------------|----------|----------|----------|------------|
| Ended | | Annual | Benefit | | Annual | Benefit | | Annual |
| 12/31 | Number@ | Benefits | Adjust.* | Number | Benefits | Adjust.# | Number | Benefits |
| 2000 | | | | | | | 37 | \$ 167,370 |
| 2001 | 1 | \$ 3,457 | \$ | 1 | \$ 1,149 | \$ | 37 | 169,678 |
| | | . / | · | | . , | · | | , |

[@] Includes beneficiaries of retirees who died during the year.

Table 21A Flow of Valuation Assets (Actuarial Value)

| Year Ended | Contri | butions | Investment | Benefit | Member Contrib. | Tran | sfer | |
|---------------|---------------|--------------|---------------|-----------------|-----------------|--------------|------|---------------------------|
| 12/31 | Employer | Member | Income | Payments | Refunds | Out | In | Balance |
| 2000 2001 | \$ 116,795 | \$ 55,393 | \$ 283,566 | \$ (168,952) | \$ | \$ (601,816) | \$ | \$ 4,464,741 4,149,727 |

^{*} Includes where applicable E, E-1, and E-2 benefits, and corrections.

[#] Includes where applicable C-2 and Accelerated Option benefits, and corrections.

Division 02 - Sheriff FOP Spvs

Table 16B

Computed Employer Contributions to the Retirement System For the Fiscal Year Beginning January 1, 2003

| | Employer Co | ntribution @ |
|--|---|---|
| Contribution for | As Percentage of Active Member Payroll | Estimated Monthly Dollar Contribution * |
| Normal Cost (in addition to member contributions) | (1.97)% | \$(3,051) |
| Amortization of Unfunded Accrued Liability (30 years) | <u>22.04</u> | <u>34,139</u> |
| Total Long Term Contribution | 20.07 | 31,088 |
| Overfunding Credit # | 0.00 | <u>0</u> |
| Total Regular Contribution | 20.07 | 31,088 |
| Temporary Adjustment | 0.00 | <u>0</u> |
| Required Contribution | 20.07% | \$31,088 |

[@] The above Employer contribution requirement is based on Member contributions of 19.61% of pay. If Member contributions are increased/decreased by 1.00% of pay, the Employer long term contribution requirement (based on a 30 year amortization) will decrease/increase by 0.81% of pay.

^{*} Based on Valuation Payroll. Actual contributions will be based on actual reported monthly pays, and will be different from the above amounts (usually higher).

[#] Only applies if assets exceed accrued liabilities.

Division 02 - Sheriff FOP Spvs

Table 17B

Computed Employer Contributions - Comparative Statement

| December 31, Number Payroll Contrib 1987 137 \$ 3,883,225 10 1988 144 4,124,681 10 1989 149 4,442,989 10 1990 161 4,918,912 10 1991 172 5,840,591 9 1992 28 1,371,663 13 | Minimulation gular Require ibution Contribu 0.47% 0.0 0.40 0.0 0.30 0.0 0.30 0.0 | ed tion 0% 0 |
|--|--|---|
| 1988 144 4,124,681 10 1989 149 4,442,989 10 1990 161 4,918,912 10 1991 172 5,840,591 9 1992 28 1,371,663 13 | 0.40 0.30 0.0 | 0 |
| 1994 34 1,665,399 8 1995 28 1,421,507 13 1996 28 1,446,119 14 1997 30 1,609,357 17 1998 30 1,699,826 19 1999 30 1,703,939 18 | 0.30 0.0 9.50 0.0 3.80 3.1 9.71 4.1 8.76 4.5 3.89 10.0 4.07 12.9 7.78 17.7 9.86 19.8 8.03 18.0 9.84 19.8 | 0 0 0 8 3 8 8 6 2 |

Adoption of Benefit E reflected in 1987 valuation. Notes:

Adoption of Benefit F50 (25 years) reflected in 1989 valuation.

Adoption of 1% member contributions reflected in 1989 valuation. Adoption of 1.85% member contributions reflected in 1992 valuation.

Adoption of Benefit B-3 reflected in 1992 valuation.

Adoption of 6.45% member contributions reflected in 1993 valuation.

Actuarial assumptions were revised for the 1993 valuation.

Adoption of Benefit E reflected in 1993 valuation.

Adoption of 10.45% member contributions reflected in 1994 valuation.

Adoption of Benefits B-4, FAC-3 and 25 years and Out reflected in 1994.

Adoption of Benefit 3.2% multiplier and 19.61% member contributions reflected in 1997 valuation.

Actuarial assumptions were revised for the 1997 valuation.

Actuarial assumptions were revised for the 2000 valuation.

Division 02 - Sheriff FOP Spvs

Table 18B

Flow of Active Membership

| Year Ended 12/31 | Retired | ` | Termination Non-Vested | Trai | nsfer In | New Member | End of Year |
|------------------------|---------|---|--------------------------|------|-------------|---------------|----------------|
| 2000 2001 | 1 | | | | 2 | | 30 31 |

Table 19B

Flow of Vested Former Members

| Year Ended 12/31 | Retired | Return To Work | Died (Survivor Benefit) | Forfeit Benefit | Tran Out | sfer In | New | End of Year |
|------------------------|---------|-------------------|-------------------------------|--------------------|-------------|------------|-----|----------------|
| 2000 2001 | | | | | 4 | 1 | | 5 2 |

Table 20B

Flow of Retirees and Beneficiaries

| Year | Added to Rolls | | | Removed from Rolls | | | Year End | |
|-------|----------------|-----------|----------|--------------------|-----------|----------|----------|--------------|
| Ended | | Annual | Benefit | | Annual | Benefit | | Annual |
| 12/31 | Number@ | Benefits | Adjust.* | Number | Benefits | Adjust.# | Number | Benefits |
| 2000 | | | | | | | 48 | \$ 1,213,951 |
| 2001 | 1 | \$ 46,610 | \$ | 2 | \$ 27,413 | \$ 1,124 | 46 | 1,232,024 |

[@] Includes beneficiaries of retirees who died during the year.

Note: Participant flow in 2001 may not add due to adjustments in 2000 data.

Table 21B

Flow of Valuation Assets (Actuarial Value)

| Year Ended | Contril | butions | Investment | | Member Contrib. | Tran | sfer | |
|---------------|---------------|---------------|------------|-------------------|-----------------|------|--------------|-----------------------------|
| 12/31 | Employer | Member | Income | Payments | Refunds | Out | In | Balance |
| 2000 2001 | \$ 335,049 | \$ 364,516 | \$ 988,337 | \$ (1,220,618) | \$ 0 | \$ 0 | \$ 77,596 | \$ 13,284,268 13,829,148 |

^{*} Includes where applicable E, E-1, and E-2 benefits, and corrections.

[#] Includes where applicable C-2 and Accelerated Option benefits, and corrections.

Division 04 - MCF

Table 16C

| | Employer Co | ntribution @ |
|--|---|--|
| Contribution for | As Percentage of Active Member Payroll | Estimated Monthly Dollar Contribution * |
| Normal Cost (in addition to member contributions) | 5.63% | \$12,120 |
| Amortization of Unfunded Accrued Liability (30 years) | <u>2.04</u> | <u>4,392</u> |
| Total Long Term Contribution | 7.67 | 16,512 |
| Overfunding Credit # | 0.00 | <u>0</u> |
| Total Regular Contribution | 7.67 | 16,512 |
| Temporary Adjustment ^ | <u>(1.07</u>) | <u>(2,303)</u> |
| Required Contribution | 6.60% | \$14,209 |
| | | |

[@] The above Employer contribution requirement is based on Member contributions of 0.00% of pay. If Member contributions are increased/decreased by 1.00% of pay, the Employer long term contribution requirement (based on a 30 year amortization) will decrease/increase by 0.85% of pay.

^{*} Based on Valuation Payroll. Actual contributions will be based on actual reported monthly pays, and will be different from the above amounts (usually higher).

[^] Adjustments for 2001 and 2002 valuations are determined by the Retirement Board's resolution adopted March 13, 2002. See cover letter for details.

[#] Only applies if assets exceed accrued liabilities.

Division 04 - MCF

Table 17C

Computed Employer Contributions - Comparative Statement

| | | | Employer Contribution as Percent of Payroll | | | |
|-----------------------------|------------------|----------------|---|-------------------------------------|--|--|
| Valuation Date December 31, | Active Number | Annual Payroll | Regular Contribution | Minimum Required Contribution | | |
| 1987 | 226 | \$ 2,809,972 | 7.82% 7.30 7.20 6.80 6.80 6.80 4.87 5.85 5.95 5.91 6.04 5.73 5.07 | 0.00% | | |
| 1988 | 175 | 1,881,671 | | 0.00 | | |
| 1989 | 167 | 1,599,788 | | 0.00 | | |
| 1990 | 180 | 1,895,478 | | 0.00 | | |
| 1991 | 176 | 1,966,913 | | 0.00 | | |
| 1992 | 190 | 2,192,337 | | 1.50 | | |
| 1993 | 176 | 2,221,453 | | 2.06 | | |
| 1994 | 173 | 2,282,795 | | 3.05 | | |
| 1995 | 178 | 2,362,440 | | 4.30 | | |
| 1996 | 165 | 2,376,442 | | 5.45 | | |
| 1997 | 153 | 2,185,568 | | 6.04 | | |
| 1998 | 128 | 2,542,201 | | 5.73 | | |
| 1999 | 116 | 2,227,648 | | 5.07 | | |
| 2000 | 123 | 2,410,936 | 5.66 | 5.66 | | |
| 2001 | 121 | 2,583,257 | 7.67 | 6.60 | | |

Notes: Adoption of Benefit E reflected in 1987 valuation.

Actuarial assumptions were revised for the 1993 valuation.

Adoption of Benefit E reflected in 1994 valuation.

Actuarial assumptions were revised for the 1997 valuation. Actuarial assumptions were revised for the 2000 valuation.

Division 04 - MCF

Table 18C Flow of Active Membership

| Yea Endo 12/3 | ed | Retired | | ` | | Termination Non-Vested | Trai Out | nsfer In | New Member | End of Year |
|---------------------|----|---------|---|---|---|------------------------|-------------|-------------|---------------|----------------|
| 200 200 | | | 1 | | 5 | 33 | | | 37 | 123 121 |

Table 19C Flow of Vested Former Members

| Year Ended 12/31 | Retired | Return To Work | Died (Survivor Benefit) | Forfeit Benefit | Tran Out | sfer In | New | End of Year |
|------------------------|---------|-------------------|-------------------------------|--------------------|-------------|------------|-----|----------------|
| 2000 2001 | 2 | | | 2 | | | 9 | 32 37 |

Table 20C Flow of Retirees and Beneficiaries

| Year | A | dded to Roll | S | Removed from Rolls | | | Year End | | |
|--------------|---------|--------------|----------|--------------------|-----------|----------|----------|-----------------------|--|
| Ended | | Annual | Benefit | | Annual | Benefit | | Annual | |
| 12/31 | Number@ | Benefits | Adjust.* | Number | Benefits | Adjust.# | Number | Benefits | |
| 2000 2001 | 4 | \$ 21,035 | \$ | 4 | \$ 12,747 | \$ | 71 71 | \$ 240,863 249,151 | |
| | | | | | | | | | |

[@] Includes beneficiaries of retirees who died during the year.

Table 21C Flow of Valuation Assets (Actuarial Value)

| Year Ended | Contri | butions | Investment | Benefit | Member Contrib. | Tran | sfer | |
|---------------|---------------|---------|------------|-----------------|-----------------|------|------|---------------------------|
| 12/31 | Employer | Member | Income | Payments | Refunds | Out | In | Balance |
| 2000 2001 | \$ 134,202 | \$ 582 | \$ 298,955 | \$ (248,568) | \$ | \$ | \$ | \$ 4,018,398 4,203,569 |

^{*} Includes where applicable E, E-1, and E-2 benefits, and corrections.

[#] Includes where applicable C-2 and Accelerated Option benefits, and corrections.

Division 09 - Judges

Table 16D

| | Employer Co | ntribution @ |
|--|---|--|
| Contribution for | As Percentage of Active Member Payroll | Estimated Monthly Dollar Contribution * |
| Normal Cost (in addition to member contributions) | 10.78% | \$1,762 |
| Amortization of Unfunded Accrued Liability (30 years) | 9.02 | <u>1,474</u> |
| Total Long Term Contribution | 19.80 | 3,236 |
| Overfunding Credit # | <u>0.00</u> | <u>0</u> |
| Total Regular Contribution | 19.80 | 3,236 |
| Temporary Adjustment | 0.00 | <u>0</u> |
| Required Contribution | 19.80% | \$3,236 |
| | | |

[@] The above Employer contribution requirement is based on Member contributions of 0.00% of pay. If Member contributions are increased/decreased by 1.00% of pay, the Employer long term contribution requirement (based on a 30 year amortization) will decrease/increase by 0.88% of pay.

^{*} Based on Valuation Payroll. Actual contributions will be based on actual reported monthly pays, and will be different from the above amounts (usually higher).

[#] Only applies if assets exceed accrued liabilities.

Division 09 - Judges

Table 17D

Computed Employer Contributions - Comparative Statement

| | | | Employer Contribution as Percent of Payroll | | |
|-----------------------------|------------------|------------------------|--|-------------------------------------|--|
| Valuation Date December 31, | Active Number | Members Annual Payroll | Regular Contribution | Minimum Required Contribution | |
| 1993 | 17 | \$ 391,399 | 8.36% | 3.53% | |
| 1994 | 16 | 323,312 | 10.09 | 5.27 | |
| 1995 | 16 | 362,941 | 9.38 | 6.78 | |
| 1996 | 19 | 463,138 | 9.21 | 8.50 | |
| 1997 | 10 | 266,864 | 17.37 | 17.37 | |
| 1998 | 13 | 351,771 | 15.07 | 15.07 | |
| 1999 | 10 | 282,700 | 14.89 | 14.89 | |
| 2000 | 7 | 235,139 | 11.60 | 11.59 | |
| 2001 | 7 | 196,106 | 19.80 | 19.80 | |

Notes:

Actuarial assumptions were revised for the 1993 valuation. Adoption of Benefits B-3, V-6 and F55 (15 years) reflected in 1997 valuation. Actuarial assumptions were revised for the 1997 valuation. Actuarial assumptions were revised for the 2000 valuation.

Division 09 - Judges

Table 18D Flow of Active Membership

| Yea Endo 12/3 | ed | Retired | ` | Termination Non-Vested | Tran Out | nsfer In | New Member | End of Year |
|---------------------|----|---------|---|------------------------|-------------|-------------|---------------|----------------|
| 200 200 | | | | 1 | | | 1 | 7 7 |

Table 19D Flow of Vested Former Members

| Year Ended 12/31 | Retired | Return To Work | Died (Survivor Benefit) | Forfeit Benefit | Tran Out | sfer In | New | End of Year |
|------------------------|---------|-------------------|-------------------------------|--------------------|-------------|------------|-----|----------------|
| 2000 2001 | | | | 1 | 1 | 1 | | 2 1 |

Table 20D Flow of Retirees and Beneficiaries

| Year | Added to Rolls | | | Removed from Rolls | | | Year End | | |
|-------|----------------|----------|----------|--------------------|----------|----------|----------|-----------|--|
| Ended | | Annual | Benefit | | Annual | Benefit | | Annual | |
| 12/31 | Number@ | Benefits | Adjust.* | Number | Benefits | Adjust.# | Number | Benefits | |
| 2000 | | | | | | | 3 | \$ 20,722 | |
| 2001 | | \$ | \$ | | \$ | \$ | 3 | 20,722 | |
| | | | | | | | | , | |

[@] Includes beneficiaries of retirees who died during the year.

Table 21D Flow of Valuation Assets (Actuarial Value)

| Year Ended | Contri | butions | Investment | Benefit | Member Contrib. | Tran | sfer | |
|---------------|-----------|---------|------------|-----------------|--------------------|--------------|---------------|-----------------------|
| 12/31 | Employer | Member | Income | Payments | Refunds | Out | In | Balance |
| 2000 2001 | \$ 29,200 | \$ | \$ 29,735 | \$ (20,722) | \$ (275,653) | \$ (281,056) | \$ 284,731 | \$ 719,155 485,390 |

^{*} Includes where applicable E, E-1, and E-2 benefits, and corrections.

[#] Includes where applicable C-2 and Accelerated Option benefits, and corrections.

Division 10 - Gnrl Mgmt

Table 16E

| | Employer Co | ntribution @ |
|---|---|--|
| Contribution for | As Percentage of Active Member Payroll | Estimated Monthly Dollar Contribution * |
| Normal Cost (in addition to member contributions) | 5.61% | \$24,382 |
| Amortization of Unfunded Accrued Liability (30 years) | <u>3.66</u> | <u>15,907</u> |
| Total Long Term Contribution | 9.27 | 40,289 |
| Overfunding Credit # | 0.00 | <u>0</u> |
| Total Regular Contribution | 9.27 | 40,289 |
| Temporary Adjustment | 0.00 | <u>0</u> |
| Required Contribution | 9.27% | \$40,289 |
| | | |

[@] The above Employer contribution requirement is based on Member contributions of 5.00% of pay. If Member contributions are increased/decreased by 1.00% of pay, the Employer long term contribution requirement (based on a 30 year amortization) will decrease/increase by 0.90% of pay.

^{*} Based on Valuation Payroll. Actual contributions will be based on actual reported monthly pays, and will be different from the above amounts (usually higher).

[#] Only applies if assets exceed accrued liabilities.

Division 10 - Gnrl Mgmt

Table 17E

Computed Employer Contributions - Comparative Statement

| | | | | ontribution as of Payroll |
|-----------------------------|------------------|--------------------------|-------------------------|-------------------------------------|
| Valuation Date December 31, | Active Number | e Members Annual Payroll | Regular Contribution | Minimum Required Contribution |
| 1987 | 61 | \$ 2,277,063 | 9.74% | 0.00% |
| 1988 | 68 | 2,673,546 | 8.80 | 0.00 |
| 1989 | 73 | 3,043,824 | 8.80 | 0.00 |
| 1990 | 72 | 3,199,113 | 10.70 | 0.00 |
| 1991 | 69 | 3,160,627 | 10.90 | 0.00 |
| 1992 | 68 | 3,274,274 | 11.00 | 2.40 |
| 1993 | 70 | 3,428,088 | 9.31 | 3.93 |
| 1994 | 74 | 3,747,657 | 10.18 | 5.31 |
| 1995 | 71 | 3,782,835 | 10.30 | 7.44 |
| 1996 | 70 | 3,881,443 | 10.92 | 10.07 |
| 1997 | 68 | 3,972,349 | 9.47 | 9.47 |
| 1998 | 67 | 4,047,946 | 9.34 | 9.34 |
| 1999 | 76 | 4,643,352 | 8.30 | 8.30 |
| 2000 | 73 | 4,632,650 | 8.78 | 8.78 |
| 2001 | 80 | 5,215,460 | 9.27 | 9.27 |

Adoption of Benefit E reflected in 1987 valuation. Notes:

Adoption of Benefit C-2 and 3% member contributions reflected in 1988. Adoption of 1% member contributions reflected in 1990 valuation. Adoption of Benefit V-6 reflected in 1992 valuation. Adoption of Benefit E reflected in 1993 valuation.

Actuarial assumptions were revised for the 1993 valuation.

Adoption of Benefit B-3 and 5% member contributions reflected in 1994.

Actuarial assumptions were revised for the 1997 valuation.

Actuarial assumptions were revised for the 2000 valuation.

Division 10 - Gnrl Mgmt

Table 18E Flow of Active Membership

| Year Ende 12/3 | ed | Retired | ` | | Termination Non-Vested | Tran Out | nsfer In | New Member | End of Year |
|----------------------|----|---------|---|---|------------------------|-------------|-------------|---------------|----------------|
| 200 200 | | | | 3 | 2 | 2 | 6 | 8 | 73 80 |

Table 19E Flow of Vested Former Members

| Year Ended 12/31 | Retired | Return To Work | Died (Survivor Benefit) | Forfeit Benefit | Tran Out | sfer In | New | End of Year |
|------------------------|---------|-------------------|-------------------------------|--------------------|-------------|------------|-----|----------------|
| 2000 2001 | | | | | | 2 | 4 | 14 20 |

Table 20E Flow of Retirees and Beneficiaries

| Year | Added to Rolls | | | Removed from Rolls | | | Year End | | |
|--------------|----------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------|-----------------------|--|
| Ended 12/31 | Number@ | Annual Benefits | Benefit Adjust.* | Number | Annual Benefits | Benefit Adjust.# | Number | Annual Benefits | |
| 2000 2001 | 1 | \$ 11,706 | \$ | | | \$ 3,507 | 43 44 | \$ 744,293 752,492 | |

[@] Includes beneficiaries of retirees who died during the year.

Table 21E Flow of Valuation Assets (Actuarial Value)

| Year Ended | Contri | butions | Investment | Benefit | Member Contrib. | Tran | sfer | |
|---------------|---------------|---------------|-----------------|-----------------|-----------------|------|---------------|-----------------------------|
| 12/31 | Employer | Member | Income | Payments | Refunds | Out | In | Balance |
| 2000 2001 | \$ 426,804 | \$ 257,085 | \$ 1,363,992 | \$ (744,291) | \$ (15,107) | \$ | \$ 180,151 | \$ 17,355,161 18,823,795 |

^{*} Includes where applicable E, E-1, and E-2 benefits, and corrections.

[#] Includes where applicable C-2 and Accelerated Option benefits, and corrections.

Division 11 - Gnrl Library

Table 16F

| | Employer Co | ntribution @ |
|---|---|--|
| Contribution for | As Percentage of Active Member Payroll | Estimated Monthly Dollar Contribution * |
| Normal Cost (in addition to member contributions) | 0.00% | \$0 |
| Amortization of Unfunded Accrued Liability (30 years) | 0.00 | <u>551</u> |
| Total Long Term Contribution | 0.00 | 551 |
| Overfunding Credit # | 0.00 | <u>0</u> |
| Total Regular Contribution | 0.00 | 551 |
| Temporary Adjustment | 0.00 | <u>0</u> |
| Required Contribution | 0.00% | \$551 |
| | | |

[@] The above Employer contribution requirement is based on Member contributions of 0.00% of pay. If Member contributions are increased/decreased by 1.00% of pay, the Employer long term contribution requirement (based on a 30 year amortization) will decrease/increase by 0.00% of pay.

^{*} Based on Valuation Payroll. Actual contributions will be based on actual reported monthly pays, and will be different from the above amounts (usually higher).

[#] Only applies if assets exceed accrued liabilities.

Division 11 - Gnrl Library

Table 17F

Computed Employer Contributions - Comparative Statement

| | | | | ontribution as of Payroll |
|--|--|--|--|---|
| Valuation Date December 31, | Active Number | e Members Annual Payroll | Regular Contribution | Minimum Required Contribution |
| 1987 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 1998 1999 | 56 53 47 44 84 84 39 38 36 41 35 25 24 | \$ 668,423 693,147 690,914 726,866 2,332,009 2,540,610 778,240 787,259 783,940 811,292 717,473 738,984 733,396 | 9.99% 9.10 9.50 9.60 9.20 9.40 8.53 9.55 10.06 9.94 8.81 10.99 10.20 | 0.00% 0.00 0.00 0.00 0.00 2.10 3.60 4.99 7.26 9.16 8.81 10.99 10.20 |
| 2000 2001 | 23 0 | 718,540 | 9.86 | 9.86 |

Notes: Adoption of Benefit E reflected in 1987 valuation.

Actuarial assumptions were revised for the 1993 valuation. Actuarial assumptions were revised for the 1997 valuation. Actuarial assumptions were revised for the 2000 valuation.

Division 11 - Gnrl Library

Table 18F Flow of Active Membership

| Year Ended 12/31 | Retired | ` | | Termination Non-Vested | Trai Out | nsfer In | New Member | End of Year |
|------------------------|---------|---|----|------------------------|-------------|-------------|---------------|----------------|
| 2000 2001 | | | 22 | 1 | | | | 23 0 |

Table 19F Flow of Vested Former Members

| Year Ended 12/31 | Datirad | Return To Work | Died (Survivor Benefit) | Forfeit Benefit | Tran Out | - | New | End of Year |
|------------------------|---------|-------------------|-------------------------------|--------------------|-------------|----|-----|----------------|
| 2000 | Kemeu | 10 WOIK | Deficit) | Denem | Out | In | New | o |
| 2000 | 1 | | | | | | 24 | 31 |

Table 20F Flow of Retirees and Beneficiaries

| Year | Added to Rolls | | | Removed from Rolls | | | Year End | |
|--------------|----------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------|---------------------|
| Ended 12/31 | Number@ | Annual Benefits | Benefit Adjust.* | Number | Annual Benefits | Benefit Adjust.# | Number | Annual Benefits |
| 2000 2001 | 1 | \$ 4,206 | \$ | 1 | \$ 3,724 | \$ | 20 20 | \$ 95,017 95,499 |

[@] Includes beneficiaries of retirees who died during the year.

Table 21F Flow of Valuation Assets (Actuarial Value)

| Year Ended | Contri | butions | Investment | Benefit | Member Contrib. | Tran | sfer | |
|---------------|--------------|---------|---------------|-----------------|--------------------|------|------|---------------------------|
| 12/31 | Employer | Member | Income | Payments | Refunds | Out | In | Balance |
| 2000 2001 | \$ 71,726 | \$ | \$ 156,633 | \$ (90,139) | \$ | \$ | \$ | \$ 2,041,607 2,179,827 |

^{*} Includes where applicable E, E-1, and E-2 benefits, and corrections.

[#] Includes where applicable C-2 and Accelerated Option benefits, and corrections.

Division 12 - Gnrl ICEA Profs

Table 16G

| | Employer Co | ntribution @ |
|---|---|--|
| Contribution for | As Percentage of Active Member Payroll | Estimated Monthly Dollar Contribution * |
| Normal Cost (in addition to member contributions) | 4.61% | \$19,827 |
| Amortization of Unfunded Accrued Liability (30 years) | <u>2.37</u> | <u>10,193</u> |
| Total Long Term Contribution | 6.98 | 30,020 |
| Overfunding Credit # | 0.00 | <u>0</u> |
| Total Regular Contribution | 6.98 | 30,020 |
| Temporary Adjustment | 0.00 | <u>0</u> |
| Required Contribution | 6.98% | \$30,020 |
| | | |

[@] The above Employer contribution requirement is based on Member contributions of 6.08% of pay. If Member contributions are increased/decreased by 1.00% of pay, the Employer long term contribution requirement (based on a 30 year amortization) will decrease/increase by 0.85% of pay.

^{*} Based on Valuation Payroll. Actual contributions will be based on actual reported monthly pays, and will be different from the above amounts (usually higher).

[#] Only applies if assets exceed accrued liabilities.

Division 12 - Gnrl ICEA Profs

Table 17G

Computed Employer Contributions - Comparative Statement

| | | | | ontribution as of Payroll |
|-----------------------------|------------------|--------------------------|-------------------------|-------------------------------------|
| Valuation Date December 31, | Active Number | e Members Annual Payroll | Regular Contribution | Minimum Required Contribution |
| 1988 | 128 | \$ 3,254,486 | 8.10% | 0.00% |
| 1989 | 130 | 3,588,309 | 8.30 | 0.00 |
| 1990 | 183 | 5,066,968 | 8.90 | 0.00 |
| 1991 | 147 | 4,189,841 | 9.90 | 0.00 |
| 1992 | 155 | 4,724,713 | 9.50 | 2.10 |
| 1993 | 93 | 3,044,030 | 7.04 | 2.97 |
| 1994 | 99 | 3,259,462 | 7.54 | 3.94 |
| 1995 | 92 | 3,079,949 | 7.88 | 5.69 |
| 1996 | 104 | 3,723,923 | 8.14 | 7.51 |
| 1997 | 107 | 3,696,908 | 6.39 | 6.39 |
| 1998 | 111 | 4,375,372 | 6.32 | 6.32 |
| 1999 | 107 | 4,249,788 | 5.42 | 5.42 |
| 2000 | 113 | 4,575,833 | 6.38 | 6.38 |
| 2001 | 130 | 5,161,093 | 6.98 | 6.98 |

Notes: Adoption of Benefit C-2 and 1% member contributions reflected in 1988.

Adoption of 0.9% (0.7% for some) member contributions reflected in 1990. Adoption of Benefit C-2 (B-1 base) for some members reflected in 1991.

Adoption of 1.1% member contributions for some members reflected in 1991.

Adoption of Benefit E reflected in 1993 valuation.

Actuarial assumptions were revised for the 1993 valuation.

Adoption of Benefit B-3 reflected in 1994 valuation.

Adoption of Benefit F55 (15 years) and 6.08% member contributions reflected in 1996 valuation.

Actuarial assumptions were revised for the 1997 valuation.

Actuarial assumptions were revised for the 2000 valuation.

Division 12 - Gnrl ICEA Profs

Table 18G Flow of Active Membership

| Year Ended 12/31 | | ` | | Termination Non-Vested | Trai Out | nsfer In | New Member | End of Year |
|------------------------|---|---|---|------------------------|-------------|-------------|---------------|----------------|
| 2000 2001 | 1 | | 6 | 9 | 1 | 4 | 30 | 113 130 |

Table 19G Flow of Vested Former Members

| Year Ended 12/31 | Retired | Return To Work | Died (Survivor Benefit) | Forfeit Benefit | Tran Out | sfer In | New | End of Year |
|------------------------|---------|-------------------|-------------------------------|--------------------|-------------|------------|-----|----------------|
| 2000 2001 | | | | 1 | 1 | 7 | 7 | 18 30 |

Table 20G Flow of Retirees and Beneficiaries

| Year | A | dded to Roll | S | Removed from Rolls | | | Year End | |
|-------|---------|--------------|----------|--------------------|----------|----------|----------|------------|
| Ended | | Annual | Benefit | | Annual | Benefit | | Annual |
| 12/31 | Number@ | Benefits | Adjust.* | Number | Benefits | Adjust.# | Number | Benefits |
| 2000 | | | | | | | 17 | \$ 219,854 |
| 2001 | 2 | \$ 10,185 | \$ 345 | | \$ | \$ | 19 | 230,384 |

[@] Includes beneficiaries of retirees who died during the year.

Table 21G Flow of Valuation Assets (Actuarial Value)

| Year Ended | Contri | butions | Investment | Benefit | Member Contrib. | Tran | sfer | |
|---------------|------------|---------------|---------------|-----------------|-----------------|------|------------|---------------------------|
| 12/31 | Employer | Member | Income | Payments | Refunds | Out | In | Balance |
| 2000 2001 | \$ 276,700 | \$ 310,813 | \$ 742,356 | \$ (222,486) | \$ (51,984) | \$ | \$ 269,808 | \$ 8,592,827 9,918,034 |

^{*} Includes where applicable E, E-1, and E-2 benefits, and corrections.

[#] Includes where applicable C-2 and Accelerated Option benefits, and corrections.

Division 13 - Gnrl OPEIU Prob

Table 16H

| | Employer Co | ntribution @ |
|---|---|--|
| Contribution for | As Percentage of Active Member Payroll | Estimated Monthly Dollar Contribution * |
| Normal Cost (in addition to member contributions) | 2.65% | \$4,088 |
| Amortization of Unfunded Accrued Liability (30 years) | <u>4.26</u> | <u>6,572</u> |
| Total Long Term Contribution | 6.91 | 10,660 |
| Overfunding Credit # | 0.00 | <u>0</u> |
| Total Regular Contribution | 6.91 | 10,660 |
| Temporary Adjustment | 0.00 | <u>0</u> |
| Required Contribution | 6.91% | \$10,660 |
| | | |

[@] The above Employer contribution requirement is based on Member contributions of 7.13% of pay. If Member contributions are increased/decreased by 1.00% of pay, the Employer long term contribution requirement (based on a 30 year amortization) will decrease/increase by 0.86% of pay.

^{*} Based on Valuation Payroll. Actual contributions will be based on actual reported monthly pays, and will be different from the above amounts (usually higher).

[#] Only applies if assets exceed accrued liabilities.

Division 13 - Gnrl OPEIU Prob

Table 17H

Computed Employer Contributions - Comparative Statement

| | | | | ontribution as of Payroll |
|--|--|--|--|---|
| Valuation Date December 31, | Active Number | e Members Annual Payroll | Regular Contribution | Minimum Required Contribution |
| 1988 1989 1990 1991 1992 1993 1994 1995 1996 | 41 39 37 47 46 36 37 37 37 | \$ 1,091,980 1,108,087 1,120,341 1,376,534 1,481,775 1,224,600 1,324,328 1,421,577 1,517,127 | 8.90% 9.20 8.70 8.50 8.70 7.93 10.29 10.34 10.17 | 0.00% 0.00 0.00 0.00 1.90 3.35 5.37 7.47 9.38 |
| 1997 1998 1999 2000 2001 | 38 38 38 38 38 38 | 1,586,848 1,635,036 1,582,996 1,718,096 1,851,347 | 9.21 9.07 8.19 6.62 6.91 | 9.21 9.07 8.18 6.62 6.91 |

Adoption of Benefit F55 (15 years) reflected in 1988 valuation. Notes:

Adoption of 1% member contributions reflected in 1988 valuation. Adoption of 1.88% member contributions reflected in 1990 valuation.

Adoption of Benefit E reflected in 1993 valuation.

Actuarial assumptions were revised for the 1993 valuation. Adoption of Benefit C-2 (B-1 Base) reflected in 1994 valuation.

Adoption of Benefit B-3 and 7.13% member contributions reflected in 1997 valuation.

Actuarial assumptions were revised for the 1997 valuation.

Actuarial assumptions were revised for the 2000 valuation.

Division 13 - Gnrl OPEIU Prob

Table 18H Flow of Active Membership

| Year Ended 12/31 | ı | ` | Termination Non-Vested | Trai Out | nsfer In | New Member | End of Year |
|------------------------|---|---|--------------------------|-------------|-------------|---------------|----------------|
| 2000 2001 | | | | 2 | 2 | | 38 38 |

Table 19H Flow of Vested Former Members

| Year Ended 12/31 | Retired | Return To Work | Died (Survivor Benefit) | Forfeit Benefit | Tran Out | sfer In | New | End of Year |
|------------------------|---------|-------------------|-------------------------------|--------------------|-------------|------------|-----|----------------|
| 2000 2001 | | | | | | 2 | | 6 8 |

Table 20H Flow of Retirees and Beneficiaries

| Year | Added to Rolls | | | Removed from Rolls | | | Year End | | |
|---------|----------------|----------|----------|--------------------|----------|----------|----------|-----------|--|
| Ended | | Annual | Benefit | | Annual | Benefit | | Annual | |
| 12/31 N | Number@ | Benefits | Adjust.* | Number | Benefits | Adjust.# | Number | Benefits | |
| 2000 | | | | | | | 5 | \$ 72,984 | |
| 2001 | | \$ | \$ | | \$ | \$ | 5 | 72,984 | |

[@] Includes beneficiaries of retirees who died during the year.

Table 21H Flow of Valuation Assets (Actuarial Value)

| Year Ended | Contril | butions | Investment | Benefit | Member Contrib. | Tran | sfer | |
|---------------|---------------|---------------|---------------|-----------------|--------------------|------|--------------|---------------------------|
| 12/31 | Employer | Member | Income | Payments | Refunds | Out | In | Balance |
| 2000 2001 | \$ 150,011 | \$ 130,848 | \$ 441,623 | \$ (72,984) | \$ | \$ | \$ 62,361 | \$ 5,095,005 5,806,864 |

^{*} Includes where applicable E, E-1, and E-2 benefits, and corrections.

[#] Includes where applicable C-2 and Accelerated Option benefits, and corrections.

Division 14 - Gnrl TOPS UAW

Table 16I

| | Employer Co | ntribution @ |
|---|---|--|
| Contribution for | As Percentage of Active Member Payroll | Estimated Monthly Dollar Contribution * |
| Normal Cost (in addition to member contributions) | 8.07% | \$71,908 |
| Amortization of Unfunded Accrued Liability (30 years) | <u>1.76</u> | <u>15,683</u> |
| Total Long Term Contribution | 9.83 | 87,591 |
| Overfunding Credit # | 0.00 | <u>0</u> |
| Total Regular Contribution | 9.83 | 87,591 |
| Temporary Adjustment | 0.00 | <u>0</u> |
| Required Contribution | 9.83% | \$87,591 |
| | | |

[@] The above Employer contribution requirement is based on Member contributions of 1.60% of pay. If Member contributions are increased/decreased by 1.00% of pay, the Employer long term contribution requirement (based on a 30 year amortization) will decrease/increase by 0.85% of pay.

^{*} Based on Valuation Payroll. Actual contributions will be based on actual reported monthly pays, and will be different from the above amounts (usually higher).

[#] Only applies if assets exceed accrued liabilities.

Division 14 - Gnrl TOPS UAW

Table 17I **Computed Employer Contributions - Comparative Statement**

| | | | | ontribution as of Payroll |
|-----------------------------|------------------|--------------------------|-------------------------|-------------------------------------|
| Valuation Date December 31, | Active Number | e Members Annual Payroll | Regular Contribution | Minimum Required Contribution |
| 1989 | 318 | \$ 6,076,867 | 8.20% | 0.00% |
| 1990 | 314 | 6,544,556 | 10.10 | 0.00 |
| 1991 | 330 | 6,997,120 | 10.20 | 0.00 |
| 1992 | 336 | 7,457,762 | 10.40 | 2.30 |
| 1993 | 333 | 7,477,050 | 8.05 | 3.40 |
| 1994 | 348 | 7,838,512 | 9.60 | 5.01 |
| 1995 | 351 | 8,343,933 | 9.62 | 6.95 |
| 1996 | 343 | 8,364,912 | 9.81 | 9.05 |
| 1997 | 346 | 8,814,495 | 8.08 | 8.08 |
| 1998 | 350 | 9,430,825 | 7.35 | 7.35 |
| 1999 | 364 | 9,944,587 | 6.48 | 6.48 |
| 2000 | 374 | 10,401,805 | 6.21 | 6.21 |
| 2001 | 374 | 10,692,631 | 9.83 | 9.83 |

Adoption of Benefits C-2 and F55 (15 years) reflected in 1989 valuation. Adoption of 3% member contributions reflected in 1989 valuation. Notes:

Adoption of 1% member contributions reflected in 1990 valuation.

Adoption of Benefit E reflected in 1993 valuation.

Actuarial assumptions were revised for the 1993 valuation. Adoption of Benefit B-3 and 4.85 member contributions reflected in 1994.

Actuarial assumptions were revised for the 1997 valuation. Actuarial assumptions were revised for the 2000 valuation.

Adoption of 1.60% Member Contributions reflected in 2001 valuation.

Division 14 - Gnrl TOPS UAW

Table 18I Flow of Active Membership

| Year Ended 12/31 | Retired | ` | | Termination Non-Vested | Tran Out | nsfer In | New Member | End of Year |
|------------------------|---------|---|---|--------------------------|-------------|-------------|---------------|----------------|
| 2000 2001 | 9 | | 8 | 12 | 10 | 2 | 37 | 374 374 |

Table 19I Flow of Vested Former Members

| Year Ended 12/31 | Retired | Return To Work | Died (Survivor Benefit) | Forfeit Benefit | Tran Out | sfer In | New | End of Year |
|------------------------|---------|-------------------|-------------------------------|--------------------|-------------|------------|-----|----------------|
| 2000 2001 | 2 | | | 3 | 1 | 9 | 10 | 48 61 |

Table 20I
Flow of Retirees and Beneficiaries

| Year | Added to Rolls | | | Rem | oved from l | Year End | | |
|--------------|----------------|--------------------|---------------------|--------|--------------------|---------------------|------------|---------------------------|
| Ended 12/31 | Number@ | Annual Benefits | Benefit Adjust.* | Number | Annual Benefits | Benefit Adjust.# | Number | Annual Benefits |
| 2000 2001 | | \$171,348 | \$ | 2 | \$ 4,851 | \$ 1,343 | 138 149 | \$ 1,040,552 1,205,706 |

[@] Includes beneficiaries of retirees who died during the year.

Table 21I
Flow of Valuation Assets (Actuarial Value)

| Year Ended | Contri | butions | Investment | Benefit | Member Contrib. | Tran | sfer | |
|---------------|-----------------|---------------|-----------------|-------------------|-----------------|--------------|------|-----------------------------|
| 12/31 | Employer | Member | Income | Payments | Refunds | Out | In | Balance |
| 2000 2001 | \$ 1,040,229 | \$ 177,309 | \$ 2,049,991 | \$ (1,134,770) | \$ (34,699) | \$ (177,623) | \$ | \$ 26,494,534 28,414,971 |

^{*} Includes where applicable E, E-1, and E-2 benefits, and corrections.

[#] Includes where applicable C-2 and Accelerated Option benefits, and corrections.

Division 15 - Animal Cntrl FOP

Table 16J

| | Employer Co | ntribution @ |
|--|---|--|
| Contribution for | As Percentage of Active Member Payroll | Estimated Monthly Dollar Contribution * |
| Normal Cost (in addition to member contributions) | 0.67% | \$182 |
| Amortization of Unfunded Accrued Liability (30 years) | <u>12.07</u> | <u>3,281</u> |
| Total Long Term Contribution | 12.74 | 3,463 |
| Overfunding Credit # | 0.00 | <u>0</u> |
| Total Regular Contribution | 12.74 | 3,463 |
| Temporary Adjustment | 0.00 | <u>0</u> |
| Required Contribution | 12.74% | \$3,463 |
| | | |

[@] The above Employer contribution requirement is based on Member contributions of 14.28% of pay. If Member contributions are increased/decreased by 1.00% of pay, the Employer long term contribution requirement (based on a 30 year amortization) will decrease/increase by 0.83% of pay.

^{*} Based on Valuation Payroll. Actual contributions will be based on actual reported monthly pays, and will be different from the above amounts (usually higher).

[#] Only applies if assets exceed accrued liabilities.

Division 15 - Animal Cntrl FOP

Table 17J **Computed Employer Contributions - Comparative Statement**

| | | | Employer Contribution as Percent of Payroll | | |
|----------------------|--------|-------------------|--|--------------------------|--|
| Valuation | Activo | e Members | | Minimum | |
| Date December 31, | Number | Annual Payroll | Regular Contribution | Required Contribution | |
| 1993 | 9 | \$ 248,830 | 7.13% | 3.01% | |
| 1994 | 9 | 260,831 | 8.19 | 4.28 | |
| 1995 | 9 | 269,541 | 8.24 | 5.95 | |
| 1996 | 9 | 264,182 | 8.91 | 8.21 | |
| 1997 | 10 | 325,176 | 9.82 | 9.82 | |
| 1998 | 10 | 317,713 | 9.11 | 9.11 | |
| 1999 | 9 | 306,275 | 9.49 | 9.49 | |
| 2000 | 10 | 330,848 | 14.84 | 14.83 | |
| 2001 | 9 | 326,170 | 12.74 | 12.74 | |

Notes: Actuarial assumptions were revised for the 1993 valuation.

Adoption of Benefits B-4, FAC-3, F50 (25 years) and 8.9% member contributions reflected in 1997 valuation.

Actuarial assumptions were revised for the 1997 valuation. Adoption of Benefit E-2 reflected in 2000 valuation.

Actuarial assumptions were revised for the 2000 valuation.

Adoption of 14.28% Member Contributions reflected in 2001 valuation.

Division 15 - Animal Cntrl FOP

Table 18J Flow of Active Membership

| Year Ended 12/31 | Retired | ` | Termination Non-Vested | Tran Out | nsfer In | New Member | End of Year |
|------------------------|---------|---|------------------------|-------------|-------------|---------------|----------------|
| 2000 2001 | | | 2 | | | 1 | 10 9 |

Table 19J Flow of Vested Former Members

| Year Ended 12/31 | Retired | Return To Work | Died (Survivor Benefit) | Forfeit Benefit | Tran Out | sfer In | New | End of Year |
|------------------------|---------|-------------------|-------------------------------|--------------------|-------------|------------|-----|----------------|
| 2000 2001 | | | | | | | | 1 1 |

Table 20J
Flow of Retirees and Beneficiaries

| Year | Added to Rolls | | | Removed from Rolls | | | Year End | | |
|-------|----------------|----------|----------|--------------------|----------|----------|----------|-----------|--|
| Ended | | Annual | Benefit | | Annual | Benefit | | Annual | |
| 12/31 | Number@ | Benefits | Adjust.* | Number | Benefits | Adjust.# | Number | Benefits | |
| 2000 | | | | | | | 2 | \$ 15,550 | |
| 2001 | | \$ | \$ | | \$ | \$ | 2 | 15,550 | |
| | | | | | | | | | |

[@] Includes beneficiaries of retirees who died during the year.

Table 21J
Flow of Valuation Assets (Actuarial Value)

| Year Ended | Contri | butions | Investment | Benefit | Member Contrib. | Tran | sfer | |
|---------------|--------------|--------------|------------|-----------------|-----------------|------|------|-----------------------|
| 12/31 | Employer | Member | Income | Payments | Refunds | Out | In | Balance |
| 2000 2001 | \$ 37,177 | \$ 50,267 | \$ 60,753 | \$ (15,549) | \$ | \$ | \$ | \$ 669,859 802,507 |

^{*} Includes where applicable E, E-1, and E-2 benefits, and corrections.

[#] Includes where applicable C-2 and Accelerated Option benefits, and corrections.

Division 16 - Gnrl Commsnrs

Table 16K

| | Employer Co | ntribution @ |
|--|---|---|
| Contribution for | As Percentage of Active Member Payroll | Estimated Monthly Dollar Contribution * |
| Normal Cost (in addition to member contributions) | 5.37% | \$596 |
| Amortization of Unfunded Accrued Liability (30 years) | <u>0.65</u> | <u>72</u> |
| Total Long Term Contribution | 6.02 | 668 |
| Overfunding Credit # | <u>0.00</u> | <u>0</u> |
| Total Regular Contribution | 6.02 | 668 |
| Temporary Adjustment ^ | <u>(1.51</u>) | <u>(168</u>) |
| Required Contribution | 4.51% | \$500 |
| | | |

[@] The above Employer contribution requirement is based on Member contributions of 3.56% of pay. If Member contributions are increased/decreased by 1.00% of pay, the Employer long term contribution requirement (based on a 30 year amortization) will decrease/increase by 0.89% of pay.

^{*} Based on Valuation Payroll. Actual contributions will be based on actual reported monthly pays, and will be different from the above amounts (usually higher).

[^] Adjustments for 2001 and 2002 valuations are determined by the Retirement Board's resolution adopted March 13, 2002. See cover letter for details.

[#] Only applies if assets exceed accrued liabilities.

Division 16 - Gnrl Commsnrs

Table 17K

Computed Employer Contributions - Comparative Statement

| | | | | ontribution as of Payroll |
|--|--|--|---|---|
| Valuation Date December 31, | Active Number | e Members Annual Payroll | Regular Contribution | Minimum Required Contribution |
| 1988 1989 1990 1991 1992 1993 1994 1995 1996 1997 | 10 19 17 19 9 10 7 8 7 | \$ 93,654 185,480 166,560 185,713 84,900 100,880 70,954 95,310 84,500 103,415 | 9.50% 6.30 6.80 7.10 8.10 4.04 6.75 6.91 5.19 4.56 | 0.00% 0.00 0.00 0.00 1.80 1.71 3.53 4.99 4.79 4.56 |
| 1998 1999 2000 2001 | 8 8 5 10 | 101,460 103,005 63,395 133,143 | 5.38 2.33 3.23 6.02 | 5.38 2.32 3.23 4.51 |

Adoption of Benefits C-2 and F55 (15 years) reflected in 1988 valuation. Notes:

Adoption of 4% member contributions reflected in 1989 valuation. Adoption of 3.56% member contributions reflected in 1991 valuation.

Adoption of Benefit E reflected in 1993 valuation.

Actuarial assumptions were revised for the 1993 valuation.

Actuarial assumptions were revised for the 1997 valuation.

Adoption of Benefit V- 6 reflected in 1998 valuation.

Actuarial assumptions were revised for the 2000 valuation.

Division 16 - Gnrl Commsnrs

Table 18K

Flow of Active Membership

| Year Ended 12/31 | Retired | ` | Termination Non-Vested | Trar Out | nsfer In | New Member | End of Year |
|------------------------|---------|---|------------------------|-------------|-------------|---------------|----------------|
| 2000 2001 | | | | | | 5 | 5 10 |

Table 19K

Flow of Vested Former Members

| Year Ended 12/31 | Retired | Return To Work | Died (Survivor Benefit) | Forfeit Benefit | Tran Out | sfer In | New | End of Year |
|------------------------|---------|-------------------|-------------------------------|--------------------|-------------|------------|-----|----------------|
| 2000 2001 | | | | | | | | 5 5 |

Table 20K

Flow of Retirees and Beneficiaries

| Year | Added to Rolls | | | Removed from Rolls | | | Year End | | |
|-------|----------------|----------|----------|--------------------|----------|----------|----------|-----------|--|
| Ended | | Annual | Benefit | | Annual | Benefit | | Annual | |
| 12/31 | Number@ | Benefits | Adjust.* | Number | Benefits | Adjust.# | Number | Benefits | |
| 2000 | | | | | | | 5 | \$ 17,888 | |
| 2001 | | \$ | \$ | | \$ | \$ | 5 | 17,888 | |
| | | T | T | | т | т | | -,,,,,,,, | |

[@] Includes beneficiaries of retirees who died during the year.

Table 21K

Flow of Valuation Assets (Actuarial Value)

| Year Ended | Contri | butions | Investment | Benefit | Member Contrib. | Tran | sfer | |
|---------------|----------|-------------|--------------|-----------------|-----------------|----------|--------|-----------------------|
| 12/31 | Employer | Member | Income | Payments | Refunds | Out | In | Balance |
| 2000 2001 | \$ 3,089 | \$ 4,739 | \$ 19,980 | \$ (17,888) | \$ | \$ (734) | \$ 734 | \$ 282,549 292,469 |

^{*} Includes where applicable E, E-1, and E-2 benefits, and corrections.

[#] Includes where applicable C-2 and Accelerated Option benefits, and corrections.

Division 17 - ICEA Nurses

Table 16L

| | Employer Co | ntribution @ |
|---|---|--|
| Contribution for | As Percentage of Active Member Payroll | Estimated Monthly Dollar Contribution * |
| Normal Cost (in addition to member contributions) | 4.47% | \$10,095 |
| Amortization of Unfunded Accrued Liability (30 years) | <u>3.93</u> | <u>8,875</u> |
| Total Long Term Contribution | 8.40 | 18,970 |
| Overfunding Credit # | 0.00 | <u>0</u> |
| Total Regular Contribution | 8.40 | 18,970 |
| Temporary Adjustment | 0.00 | <u>0</u> |
| Required Contribution | 8.40% | \$18,970 |
| | | |

[@] The above Employer contribution requirement is based on Member contributions of 11.87% of pay. If Member contributions are increased/decreased by 1.00% of pay, the Employer long term contribution requirement (based on a 30 year amortization) will decrease/increase by 0.89% of pay.

^{*} Based on Valuation Payroll. Actual contributions will be based on actual reported monthly pays, and will be different from the above amounts (usually higher).

[#] Only applies if assets exceed accrued liabilities.

Division 17 - ICEA Nurses

Table 17L

Computed Employer Contributions - Comparative Statement

| | | | Employer Contribution as Percent of Payroll | | |
|----------------------|--------|-------------------|--|--------------------------|--|
| Valuation | Activo | e Members | | Minimum | |
| Date December 31, | Number | Annual Payroll | Regular Contribution | Required Contribution | |
| 1993 | 60 | \$ 1,702,354 | 8.74% | 3.69% | |
| 1994 | 59 | 1,853,322 | 9.79 | 5.11 | |
| 1995 | 61 | 2,003,757 | 9.86 | 7.12 | |
| 1996 | 64 | 2,067,117 | 9.54 | 8.80 | |
| 1997 | 60 | 2,062,206 | 8.13 | 8.13 | |
| 1998 | 63 | 2,321,552 | 7.68 | 7.68 | |
| 1999 | 66 | 2,449,404 | 7.26 | 7.26 | |
| 2000 | 67 | 2,553,922 | 6.79 | 6.79 | |
| 2001 | 68 | 2,710,021 | 8.40 | 8.40 | |

Notes: Actuarial assumptions were revised for the 1993 valuation.

Adoption of Benefit E-2 reflected in 1994 valuation.

Adoption of Benefit F55 (15 years) reflected in 1994 valuation.

Adoption of 5.07% member contributions reflected in 1994 valuation.

Actuarial assumptions were revised for the 1997 valuation.

Adoption of Benefit B-3 reflected in 1998 valuation. Adoption of Benefit V-6 reflected in 1998 valuation.

Adoption of Benefit FAC-3 reflected in 1998 valuation.

Adoption of 11.87% member contributions reflected in 1998 valuation.

Actuarial assumptions were revised for the 2000 valuation.

Division 17 - ICEA Nurses

Table 18L Flow of Active Membership

| Year Ended 12/31 | Retired | ` | Termination Non-Vested | Tran Out | nsfer In | New Member | End of Year |
|------------------------|---------|---|------------------------|-------------|-------------|---------------|----------------|
| 2000 2001 | 3 | | 1 | | | 5 | 67 68 |

Table 19L Flow of Vested Former Members

| Year Ended 12/31 | Retired | Return To Work | Died (Survivor Benefit) | Forfeit Benefit | Tran Out | sfer In | New | End of Year |
|------------------------|---------|-------------------|-------------------------------|--------------------|-------------|------------|-----|----------------|
| 2000 2001 | | | | 2 | | 2 | 1 | 12 13 |

Table 20L Flow of Retirees and Beneficiaries

| Year | Added to Rolls | | | Removed from Rolls | | | Year End | | |
|--------------|----------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------|-----------------------|--|
| Ended 12/31 | Number@ | Annual Benefits | Benefit Adjust.* | Number | Annual Benefits | Benefit Adjust.# | Number | Annual Benefits | |
| 2000 2001 | | | \$ 2,723 | rumber | | \$ 4,586 | 23 26 | \$ 200,619 227,252 | |

[@] Includes beneficiaries of retirees who died during the year.

Table 21L Flow of Valuation Assets (Actuarial Value)

| Year Ended | Contri | butions | Investment | Benefit | Member Contrib. | Tran | sfer | |
|---------------|---------------|---------------|---------------|-----------------|-----------------|------------|-------------|---------------------------|
| 12/31 | Employer | Member | Income | Payments | Refunds | Out | In | Balance |
| 2000 2001 | \$ 196,369 | \$ 321,184 | \$ 515,290 | \$ (222,531) | \$ (19,418) | \$ (2,030) | \$ 8,531 | \$ 6,133,576 6,930,971 |

^{*} Includes where applicable E, E-1, and E-2 benefits, and corrections.

[#] Includes where applicable C-2 and Accelerated Option benefits, and corrections.

Division 18 - ICEA Ct. Prof

Table 16M

| | Employer Co | ntribution @ | | |
|---|---|--|--|--|
| Contribution for | As Percentage of Active Member Payroll | Estimated Monthly Dollar Contribution * | | |
| Normal Cost (in addition to member contributions) | 2.90% | \$3,817 | | |
| Amortization of Unfunded Accrued Liability (30 years) | <u>8.09</u> | <u>10,647</u> | | |
| Total Long Term Contribution | 10.99 | 14,464 | | |
| Overfunding Credit # | 0.00 | <u>0</u> | | |
| Total Regular Contribution | 10.99 | 14,464 | | |
| Temporary Adjustment | 0.00 | <u>0</u> | | |
| Required Contribution | 10.99% | \$14,464 | | |
| | | | | |

[@] The above Employer contribution requirement is based on Member contributions of 9.84% of pay. If Member contributions are increased/decreased by 1.00% of pay, the Employer long term contribution requirement (based on a 30 year amortization) will decrease/increase by 0.84% of pay.

^{*} Based on Valuation Payroll. Actual contributions will be based on actual reported monthly pays, and will be different from the above amounts (usually higher).

[#] Only applies if assets exceed accrued liabilities.

Division 18 - ICEA Ct. Prof

Table 17M

Computed Employer Contributions - Comparative Statement

| | | | Employer Contribution as Percent of Payroll | | |
|----------------------|--------|-------------------|--|--------------------------|--|
| Valuation | Activo | e Members | | Minimum | |
| Date December 31, | Number | Annual Payroll | Regular Contribution | Required Contribution | |
| 1993 | 36 | \$ 1,245,240 | 7.84% | 3.31% | |
| 1994 | 42 | 1,375,365 | 8.54 | 4.46 | |
| 1995 | 38 | 1,375,764 | 9.41 | 6.80 | |
| 1996 | 37 | 1,442,687 | 10.09 | 9.30 | |
| 1997 | 32 | 1,244,090 | 9.57 | 9.57 | |
| 1998 | 33 | 1,413,047 | 11.49 | 11.49 | |
| 1999 | 37 | 1,559,574 | 9.66 | 9.66 | |
| 2000 | 35 | 1,515,603 | 8.79 | 8.78 | |
| 2001 | 34 | 1,579,323 | 10.99 | 10.99 | |

Notes: Actuarial assumptions were revised for the 1993 valuation.

Adoption of Benefit 20 and Out retirement reflected in 1996 valuation.

Adoption of Benefit 20 and Out retirement reflected in 1996 valuation.

Adoption of 9.84% member contributions reflected in 1996 valuation.

Actuarial assumptions were revised for the 1997 valuation.

Actuarial assumptions were revised for the 2000 valuation.

Division 18 - ICEA Ct. Prof

Table 18M Flow of Active Membership

| Year Ended 12/31 | Retired | ` | Termination Non-Vested | Trai | nsfer In | New Member | End of Year |
|------------------------|---------|---|--------------------------|------|-------------|---------------|----------------|
| 2000 2001 | 4 | | | 1 | 3 | 1 | 35 34 |

Table 19M Flow of Vested Former Members

| Year Ended 12/31 | Retired | Return To Work | Died (Survivor Benefit) | Forfeit Benefit | Tran Out | sfer In | New | End of Year |
|------------------------|---------|-------------------|-------------------------------|--------------------|-------------|------------|-----|----------------|
| 2000 2001 | | | | | | 2 | | 4 6 |

Table 20M Flow of Retirees and Beneficiaries

| Year | Added to Rolls | | | Removed from Rolls | | | Year End | | |
|--------------|----------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------|-----------------------|--|
| Ended 12/31 | Number@ | Annual Benefits | Benefit Adjust.* | Number | Annual Benefits | Benefit Adjust.# | Number | Annual Benefits | |
| 2000 2001 | | \$112,268 | \$ 287 | | \$ | \$ | 18 22 | \$ 343,822 456,377 | |

[@] Includes beneficiaries of retirees who died during the year.

Table 21M Flow of Valuation Assets (Actuarial Value)

| Year Ended | Contril | butions | Investment | Benefit | Member Contrib. | Tran | sfer | |
|---------------|---------------|---------------|---------------|-----------------|-----------------|------|---------------|---------------------------|
| 12/31 | Employer | Member | Income | Payments | Refunds | Out | In | Balance |
| 2000 2001 | \$ 165,138 | \$ 168,083 | \$ 436,013 | \$ (385,979) | \$ (2,795) | \$ | \$ 190,379 | \$ 5,372,061 5,942,900 |

^{*} Includes where applicable E, E-1, and E-2 benefits, and corrections.

[#] Includes where applicable C-2 and Accelerated Option benefits, and corrections.

Division 19 - Cnstutnl Offcls

Table 16N

| | Employer Co | ntribution @ |
|--|---|--|
| Contribution for | As Percentage of Active Member Payroll | Estimated Monthly Dollar Contribution * |
| Normal Cost (in addition to member contributions) | 6.55% | \$2,532 |
| Amortization of Unfunded Accrued Liability (30 years) | <u>1.77</u> | <u>684</u> |
| Total Long Term Contribution | 8.32 | 3,216 |
| Overfunding Credit # | 0.00 | <u>0</u> |
| Total Regular Contribution | 8.32 | 3,216 |
| Temporary Adjustment | 0.00 | <u>0</u> |
| Required Contribution | 8.32% | \$3,216 |
| | | |

[@] The above Employer contribution requirement is based on Member contributions of 5.00% of pay. If Member contributions are increased/decreased by 1.00% of pay, the Employer long term contribution requirement (based on a 30 year amortization) will decrease/increase by 0.90% of pay.

^{*} Based on Valuation Payroll. Actual contributions will be based on actual reported monthly pays, and will be different from the above amounts (usually higher).

[#] Only applies if assets exceed accrued liabilities.

Division 19 - Cnstutnl Offcls

Table 17N

Computed Employer Contributions - Comparative Statement

| | | | | ontribution as of Payroll |
|-----------------------------|------------------|------------------------|-------------------------|-------------------------------------|
| Valuation Date December 31, | Active Number | Members Annual Payroll | Regular Contribution | Minimum Required Contribution |
| 1993 | 5 | \$ 254,947 | 7.58% | 3.20% |
| 1994 | 5 | 264,660 | 10.11 | 5.28 |
| 1995 | 5 | 274,083 | 7.49 | 5.41 |
| 1996 | 4 | 206,565 | 7.36 | 6.79 |
| 1997 | 5 | 297,992 | 7.48 | 7.48 |
| 1998 | 5 | 315,294 | 8.20 | 8.20 |
| 1999 | 6 | 404,043 | 5.88 | 5.88 |
| 2000 | 6 | 416,485 | 6.42 | 6.42 |
| 2001 | 6 | 463,955 | 8.32 | 8.32 |

Notes: Actuarial assumptions were revised for the 1993 valuation.

Adoption of Benefits B-3 and F55 (15 years) reflected in 1994 valuation.

Adoption of 7.0% member contributions reflected in 1994 valuation.

Actuarial assumptions were revised for the 1997 valuation. Adoption of 5.00% member contributions reflected in 1998 valuation.

Adoption of 6.00% member contributions reflected in 1999 valuation.

Adoption of 5.00% member contributions reflected in 2000 valuation.

Actuarial assumptions were revised for the 2000 valuation.

Adoption of Benefit V-6 reflected in 2000 valuation.

Division 19 - Cnstutnl Offcls

Table 18N Flow of Active Membership

| Year Ended 12/31 | Retired | ` | Termination Non-Vested | Trai | nsfer In | New Member | End of Year |
|------------------------|---------|---|--------------------------|------|-------------|---------------|----------------|
| 2000 2001 | | | | | | | 6 6 |

Table 19N Flow of Vested Former Members

| Year Ended 12/31 | Retired | Return To Work | Died (Survivor Benefit) | Forfeit Benefit | Tran Out | sfer In | New | End of Year |
|------------------------|---------|-------------------|-------------------------------|--------------------|-------------|------------|-----|----------------|
| 2000 2001 | | | | | | | | 0 |

Table 20N Flow of Retirees and Beneficiaries

| Year | Added to Rolls | | | Removed from Rolls | | | Year End | | |
|-------|----------------|----------|----------|--------------------|----------|----------|----------|-----------|--|
| Ended | | Annual | Benefit | | Annual | Benefit | | Annual | |
| 12/31 | Number@ | Benefits | Adjust.* | Number | Benefits | Adjust.# | Number | Benefits | |
| 2000 | | | | | | | 7 | \$ 96,192 | |
| 2001 | | \$ | \$ | | \$ | \$ | 7 | 96,192 | |
| | | | | | | | | | |

[@] Includes beneficiaries of retirees who died during the year.

Table 21N Flow of Valuation Assets (Actuarial Value)

| Year Ended | Contri | butions | Investment | Benefit | Member Contrib. | Tran | sfer | |
|---------------|--------------|-----------|---------------|-----------------|--------------------|------|------|---------------------------|
| 12/31 | Employer | Member | Income | Payments | Refunds | Out | In | Balance |
| 2000 2001 | \$ 27,281 | \$ 23,198 | \$ 108,386 | \$ (96,192) | \$ | \$ | \$ | \$ 1,469,210 1,531,883 |

^{*} Includes where applicable E, E-1, and E-2 benefits, and corrections.

[#] Includes where applicable C-2 and Accelerated Option benefits, and corrections.

Division 21 - FOP Shrf Deputies

Table 160

Computed Employer Contributions to the Retirement System For the Fiscal Year Beginning January 1, 2003

| | Employer Co | ntribution @ |
|--|---|--|
| Contribution for | As Percentage of Active Member Payroll | Estimated Monthly Dollar Contribution * |
| Normal Cost (in addition to member contributions) | 4.60% | \$25,384 |
| Amortization of Unfunded Accrued Liability (30 years) | <u>3.94</u> | <u>21,742</u> |
| Total Long Term Contribution | 8.54 | 47,126 |
| Overfunding Credit # | 0.00 | <u>0</u> |
| Total Regular Contribution | 8.54 | 47,126 |
| Temporary Adjustment | 0.00 | <u>0</u> |
| Required Contribution | 8.54% | \$47,126 |
| | | |

[@] The above Employer contribution requirement is based on Member contributions of 10.96% of pay. If Member contributions are increased/decreased by 1.00% of pay, the Employer long term contribution requirement (based on a 30 year amortization) will decrease/increase by 0.84% of pay.

^{*} Based on Valuation Payroll. Actual contributions will be based on actual reported monthly pays, and will be different from the above amounts (usually higher).

[#] Only applies if assets exceed accrued liabilities.

Division 21 - FOP Shrf Deputies

Table 170

Computed Employer Contributions - Comparative Statement

| | | | Employer Co Percent o | ontribution as of Payroll |
|-----------------------------|------------------|---------------------------|--------------------------|-------------------------------------|
| Valuation Date December 31, | Active Number | e Members Annual Payroll | Regular Contribution | Minimum Required Contribution |
| 1992 1993 | 141 147 | \$ 4,625,892 5,058,670 | 9.40% 7.40 | 2.10% 3.12 |
| 1994 | 138 | 4,908,359 | 8.69 | 4.54 |
| 1995 1996 | 146 153 | 5,180,610 5,176,592 | 8.56 8.10 | 6.19 7.47 |
| 1997 | 143 | 4,952,121 | 8.84 | 8.84 |
| 1998 1999 | 144 152 | 6,128,303 5,940,955 | 9.38 7.73 | 9.38 7.73 |
| 2000 2001 | 154 154 | 6,160,326 6,621,982 | 6.96 8.54 | 6.96 8.54 |
| 2001 | 101 | 0,021,702 | 0.51 | 0.5 1 |

Notes: Adoption of Benefits B-4, E and 6.55% member contributions reflected in 1993 valuation.

Actuarial assumptions were revised for the 1993 valuation.

Adoption of Benefit 3.2% multiplier and 10.43% member contributions reflected in 1997 valuation.

Actuarial assumptions were revised for the 1997 valuation.

Adoption of 10.43% member contributions reflected in 1998 valuation.

Actuarial assumptions were revised for the 2000 valuation.

Adoption of Benefit F/N(25), 10.96% Member Contributions reflected in 2001 valuation.

Division 21 - FOP Shrf Deputies

Table 18O Flow of Active Membership

| Year Ended 12/31 | | ` | | Termination Non-Vested | Tran Out | nsfer In | New Member | End of Year |
|------------------------|---|---|---|--------------------------|-------------|-------------|---------------|----------------|
| 2000 2001 | 5 | | 2 | 4 | 2 | | 13 | 154 154 |

Table 19O Flow of Vested Former Members

| Year Ended 12/31 | Retired | Return To Work | Died (Survivor Benefit) | Forfeit Benefit | Tran Out | sfer In | New | End of Year |
|------------------------|---------|-------------------|-------------------------------|--------------------|-------------|------------|-----|----------------|
| 2000 2001 | 1 | | | 2 | | 7 | 5 | 11 20 |

Table 20O Flow of Retirees and Beneficiaries

| Year | Added to Rolls | | | Removed from Rolls | | | Year End | |
|--------------|----------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------|-------------------------|
| Ended 12/31 | Number@ | Annual Benefits | Benefit Adjust.* | Number | Annual Benefits | Benefit Adjust.# | Number | Annual Benefits |
| 2000 2001 | | | \$ 1,077 | | \$ | \$ 1,720 | 50 57 | \$ 910,581 1,089,816 |

[@] Includes beneficiaries of retirees who died during the year.

Table 210 Flow of Valuation Assets (Actuarial Value)

| Year Ended | Contril | butions | Investment | Benefit | Member Contrib. | Tran | sfer | |
|---------------|---------------|---------------|-----------------|-------------------|-----------------|-------------|---------------|-----------------------------|
| 12/31 | Employer | Member | Income | Payments | Refunds | Out | In | Balance |
| 2000 2001 | \$ 519,780 | \$ 735,558 | \$ 1,406,277 | \$ (1,058,811) | \$ (84,300) | \$ (22,913) | \$ 149,858 | \$ 17,621,401 19,266,850 |

^{*} Includes where applicable E, E-1, and E-2 benefits, and corrections.

[#] Includes where applicable C-2 and Accelerated Option benefits, and corrections.

Division 40 - ICEA Unit 111

Table 16P

Computed Employer Contributions to the Retirement System For the Fiscal Year Beginning January 1, 2003

| | Employer Co | ntribution @ |
|--|---|--|
| Contribution for | As Percentage of Active Member Payroll | Estimated Monthly Dollar Contribution * |
| Normal Cost (in addition to member contributions) | 5.90% | \$3,232 |
| Amortization of Unfunded Accrued Liability (30 years) # | (0.91) | <u>(499</u>) |
| Total Long Term Contribution | 4.99 | 2,733 |
| Overfunding Credit # | <u>(1.12</u>) | <u>(614</u>) |
| Total Regular Contribution | 3.87 | 2,119 |
| Temporary Adjustment | 0.00 | <u>0</u> |
| Required Contribution | 3.87% | \$2,119 |
| | | |

[@] The above Employer contribution requirement is based on Member contributions of 3.00% of pay. If Member contributions are increased/decreased by 1.00% of pay, the Employer long term contribution requirement (based on a 30 year amortization) will decrease/increase by 0.84% of pay.

^{*} Based on Valuation Payroll. Actual contributions will be based on actual reported monthly pays, and will be different from the above amounts (usually higher).

[#] For this division, assets exceed accrued liabilities (see Table 13). The negative unfunded accrued liability is amortized (spread) over 10 years, and used to reduce the employer contribution rate. The total credit is 2.03% (0.91% plus 1.12%). The additional 1.12% results from spreading the negative unfunded accrued liability over 10 years instead of 30 years.

Division 40 - ICEA Unit 111

Table 17P

Computed Employer Contributions - Comparative Statement

| | | | 1 0 | ontribution as of Payroll |
|-------------------|--------|----------------|--------------|------------------------------|
| Valuation Date | Active | Members Annual | Regular | Minimum Required |
| December 31, | Number | Payroll | Contribution | Contribution |
| 1988 | 50 | \$ 951,173 | 8.40% | 0.00% |
| 1989 | 60 | 1,383,191 | 9.10 | 0.00 |
| 1990 | 63 | 1,445,248 | 9.00 | 0.00 |
| 1991 | 67 | 1,491,640 | 8.90 | 0.00 |
| 1992 | 68 | 1,786,644 | 8.60 | 1.90 |
| 1993 | 64 | 1,545,125 | 4.94 | 2.08 |
| 1994 | 59 | 1,491,914 | 6.62 | 3.46 |
| 1995 | 38 | 901,078 | 6.60 | 4.77 |
| 1996 | 41 | 979,006 | 5.74 | 5.29 |
| 1997 | 35 | 920,331 | 5.56 | 5.56 |
| 1998 | 35 | 997,054 | 5.12 | 5.12 |
| 1999 | 28 | 755,810 | 1.97 | 1.96 |
| 2000 | 25 | 736,550 | 2.41 | 2.39 |
| 2001 | 22 | 657,455 | 3.87 | 3.87 |

Adoption of Benefits C-2 and F55 (15 years) reflected in 1988 valuation. Notes:

Adoption of 3% member contributions reflected in 1988 valuation. Adoption of 0% member contributions for some members reflected in 1989.

Actuarial assumptions were revised for the 1993 valuation.

Adoption of Benefit E reflected in 1994 valuation.

Actuarial assumptions were revised for the 1997 valuation.

Actuarial assumptions were revised for the 2000 valuation.

Division 40 - ICEA Unit 111

Table 18P Flow of Active Membership

| Year Ended 12/31 | | ` | Termination Non-Vested | Trai Out | nsfer In | New Member | End of Year |
|------------------------|---|---|--------------------------|-------------|-------------|---------------|----------------|
| 2000 2001 | 3 | | 2 | | | 2 | 25 22 |

Table 19P Flow of Vested Former Members

| Year Ended 12/31 | Retired | Return To Work | Died (Survivor Benefit) | Forfeit Benefit | Tran Out | sfer In | New | End of Year |
|------------------------|---------|-------------------|-------------------------------|--------------------|-------------|------------|-----|----------------|
| 2000 2001 | 1 | | | 1 | | | 2 | 7 7 |

Table 20P Flow of Retirees and Beneficiaries

| Year | Added to Rolls | | | Removed from Rolls | | | Year End | | |
|--------------|----------------|--------------------|---------------------|--------------------|--------------------|---------------------|----------|-----------------------|--|
| Ended 12/31 | Number@ | Annual Benefits | Benefit Adjust.* | Number | Annual Benefits | Benefit Adjust.# | Number | Annual Benefits | |
| 2000 2001 | 4 | \$ 32,213 | \$ | | | \$ 3,356 | 23 27 | \$ 202,565 231,422 | |

[@] Includes beneficiaries of retirees who died during the year.

Table 21P Flow of Valuation Assets (Actuarial Value)

| Year Ended | Contri | butions | Investment | Benefit | Member Contrib. | Tran | sfer | |
|---------------|--------------|--------------|---------------|-----------------|-----------------|------------|----------|---------------------------|
| 12/31 | Employer | Member | Income | Payments | Refunds | Out | In | Balance |
| 2000 2001 | \$ 14,296 | \$ 21,972 | \$ 210,472 | \$ (221,381) | \$ (2,005) | \$ (3,660) | \$ 3,352 | \$ 3,006,929 3,029,975 |

^{*} Includes where applicable E, E-1, and E-2 benefits, and corrections.

[#] Includes where applicable C-2 and Accelerated Option benefits, and corrections.

Division 41 - MCF Management

Table 16Q

Computed Employer Contributions to the Retirement System For the Fiscal Year Beginning January 1, 2003

| | Employer Co | ntribution @ |
|--|---|--|
| Contribution for | As Percentage of Active Member Payroll | Estimated Monthly Dollar Contribution * |
| Normal Cost (in addition to member contributions) | 9.01% | \$5,736 |
| Amortization of Unfunded Accrued Liability (30 years) # | (0.39) | <u>(248</u>) |
| Total Long Term Contribution | 8.62 | 5,488 |
| Overfunding Credit # | <u>(0.48</u>) | <u>(306</u>) |
| Total Regular Contribution | 8.14 | 5,182 |
| Temporary Adjustment | <u>0.00</u> | <u>0</u> |
| Required Contribution | 8.14% | \$5,182 |
| | | |

[@] The above Employer contribution requirement is based on Member contributions of 0.00% of pay. If Member contributions are increased/decreased by 1.00% of pay, the Employer long term contribution requirement (based on a 30 year amortization) will decrease/increase by 0.87% of pay.

^{*} Based on Valuation Payroll. Actual contributions will be based on actual reported monthly pays, and will be different from the above amounts (usually higher).

[#] For this division, assets exceed accrued liabilities (see Table 13). The negative unfunded accrued liability is amortized (spread) over 10 years, and used to reduce the employer contribution rate. The total credit is 0.87% (0.39% plus 0.48%). The additional 0.48% results from spreading the negative unfunded accrued liability over 10 years instead of 30 years.

Division 41 - MCF Management

Table 17Q

Computed Employer Contributions - Comparative Statement

| | | | Employer Contribution as Percent of Payroll | | |
|-----------------------------|------------------|------------------------|--|-------------------------------------|--|
| Valuation Date December 31, | Active Number | Members Annual Payroll | Regular Contribution | Minimum Required Contribution | |
| 1993 | 11 | \$ 471,750 | 9.43% | 3.98% | |
| 1994 | 13 | 541,500 | 10.95 | 5.72 | |
| 1995 | 11 | 293,628 | 11.28 | 8.14 | |
| 1996 | 12 | 487,427 | 11.75 | 10.84 | |
| 1997 | 15 | 512,335 | 11.64 | 11.64 | |
| 1998 | 13 | 545,506 | 11.03 | 11.03 | |
| 1999 | 22 | 845,543 | 9.48 | 9.48 | |
| 2000 | 19 | 781,285 | 7.86 | 7.86 | |
| 2001 | 18 | 763,973 | 8.14 | 8.14 | |

Notes: Actuarial assumptions were revised for the 1993 valuation.

Adoption of Benefit E reflected in 1994 valuation.

Actuarial assumptions were revised for the 1997 valuation. Actuarial assumptions were revised for the 2000 valuation.

Division 41 - MCF Management

Table 18Q

Flow of Active Membership

| Year Ended 12/31 | Retired | ` | | Termination Non-Vested | Trar Out | nsfer In | New Member | End of Year |
|------------------------|---------|---|---|------------------------|-------------|-------------|---------------|----------------|
| 2000 2001 | | | 3 | 4 | | | 6 | 19 18 |

Table 19Q

Flow of Vested Former Members

| Year Ended 12/31 | Retired | Return To Work | Died (Survivor Benefit) | Forfeit Benefit | Tran Out | sfer In | New | End of Year |
|------------------------|---------|-------------------|-------------------------------|--------------------|-------------|------------|-----|----------------|
| 2000 2001 | | | | | | | 3 | 7 10 |

Table 20Q

Flow of Retirees and Beneficiaries

| Year | A | Added to Rolls | | | Removed from Rolls | | | Year End | | |
|--------------|---------|--------------------|---------------------|--------|--------------------|---------------------|--------|---------------------|--|--|
| Ended 12/31 | Number@ | Annual Benefits | Benefit Adjust.* | Number | Annual Benefits | Benefit Adjust.# | Number | Annual Benefits | | |
| 2000 2001 | | \$ | \$ | | \$ | \$ | 8 8 | \$ 52,672 52,672 | | |

[@] Includes beneficiaries of retirees who died during the year.

Table 21Q

Flow of Valuation Assets (Actuarial Value)

| Year Ended | Contri | butions | Investment | Benefit | Member Contrib. | Tran | sfer | |
|---------------|--------------|---------|--------------|-----------------|-----------------|------|----------|---------------------------|
| 12/31 | Employer | Member | Income | Payments | Refunds | Out | In | Balance |
| 2000 2001 | \$ 79,895 | \$ | \$ 89,535 | \$ (52,922) | \$ (649) | \$ | \$ 1,022 | \$ 1,110,871 1,227,752 |

^{*} Includes where applicable E, E-1, and E-2 benefits, and corrections.

[#] Includes where applicable C-2 and Accelerated Option benefits, and corrections.

Division 42 - ICEA Unit 11

Table 16R

Computed Employer Contributions to the Retirement System For the Fiscal Year Beginning January 1, 2003

| | Employer Co | ntribution @ |
|--|---|--|
| Contribution for | As Percentage of Active Member Payroll | Estimated Monthly Dollar Contribution * |
| Normal Cost (in addition to member contributions) | 6.95% | \$2,208 |
| Amortization of Unfunded Accrued Liability (30 years) | <u>1.72</u> | <u>546</u> |
| Total Long Term Contribution | 8.67 | 2,754 |
| Overfunding Credit # | 0.00 | <u>0</u> |
| Total Regular Contribution | 8.67 | 2,754 |
| Temporary Adjustment ^ | <u>(0.45</u>) | <u>(143</u>) |
| Required Contribution | 8.22% | \$2,611 |
| | | |

[@] The above Employer contribution requirement is based on Member contributions of 3.95% of pay. If Member contributions are increased/decreased by 1.00% of pay, the Employer long term contribution requirement (based on a 30 year amortization) will decrease/increase by 0.89% of pay.

^{*} Based on Valuation Payroll. Actual contributions will be based on actual reported monthly pays, and will be different from the above amounts (usually higher).

[^] Adjustments for 2001 and 2002 valuations are determined by the Retirement Board's resolution adopted March 13, 2002. See cover letter for details.

[#] Only applies if assets exceed accrued liabilities.

Division 42 - ICEA Unit 11

Table 17R

Computed Employer Contributions - Comparative Statement

| | | | | Employer Contribution as Percent of Payroll | | |
|-----------------------------|------------------|------|----------------------------|--|-------------------------------------|--|
| Valuation Date December 31, | Active Number | е Ме | mbers Annual Payroll | Regular Contribution | Minimum Required Contribution | |
| 1995 | 14 | \$ | 427,567 | 5.59% | 4.03% | |
| 1996 | 11 | | 285,375 | 6.08 | 5.60 | |
| 1997 | 16 | | 376,839 | 5.52 | 5.52 | |
| 1998 | 8 | | 264,468 | 7.13 | 7.13 | |
| 1999 | 9 | | 318,233 | 7.12 | 7.12 | |
| 2000 | 9 | | 330,997 | 6.82 | 6.81 | |
| 2001 | 9 | | 381,171 | 8.67 | 8.22 | |

Notes:

Adoption of Benefit FAC-3 reflected in 1996 valuation. Adoption of 3.95% member contributions reflected in 1996 valuation. Actuarial assumptions were revised for the 1997 valuation. Actuarial assumptions were revised for the 2000 valuation.

Division 42 - ICEA Unit 11

Table 18R

Flow of Active Membership

| Year Ended 12/31 | Retired | ` | Termination Non-Vested | Tran Out | nsfer In | New Member | End of Year |
|------------------------|---------|---|------------------------|-------------|-------------|---------------|----------------|
| 2000 2001 | | | 2 | | | 2 | 9 9 |

Table 19R

Flow of Vested Former Members

| Year Ended 12/31 | Retired | Return To Work | Died (Survivor Benefit) | Forfeit Benefit | Tran Out | sfer In | New | End of Year |
|------------------------|---------|-------------------|-------------------------------|--------------------|-------------|------------|-----|----------------|
| 2000 2001 | 1 | | | 1 | | | 1 | 5 4 |

Table 20R

Flow of Retirees and Beneficiaries

| Ended Annual Benefit Annual Benefit | | Year End | |
|---|------|----------|--|
| Ended Amidal Benefit Amidal Benefit | | Annual | |
| 12/31 Number@ Benefits Adjust.* Number Benefits Adjust.# Number | oer | Benefits | |
| 2000 | 0 \$ | 0 | |
| 2001 1 \$ 10,146 \$ \$ \$ | 1 | 10,146 | |

[@] Includes beneficiaries of retirees who died during the year.

Table 21R

Flow of Valuation Assets (Actuarial Value)

| Year Ended | Contri | butions | Investment | Benefit | Member Contrib. | Tran | sfer | |
|---------------|-----------|--------------|------------|-----------------|-----------------|-------------|-------|-----------------------|
| 12/31 | Employer | Member | Income | Payments | Refunds | Out | In | Balance |
| 2000 2001 | \$ 27,140 | \$ 14,818 | \$ 24,862 | \$ (10,146) | \$ (1,866) | \$ (757) | \$ 44 | \$ 282,064 336,159 |

^{*} Includes where applicable E, E-1, and E-2 benefits, and corrections.

[#] Includes where applicable C-2 and Accelerated Option benefits, and corrections.

Division 43 - ICEA Unit 1

Table 16S

Computed Employer Contributions to the Retirement System For the Fiscal Year Beginning January 1, 2003

| | Employer Co | ntribution @ |
|--|---|---|
| Contribution for | As Percentage of Active Member Payroll | Estimated Monthly Dollar Contribution * |
| Normal Cost (in addition to member contributions) | 5.75% | \$1,435 |
| Amortization of Unfunded Accrued Liability (30 years) | <u>6.70</u> | <u>1,672</u> |
| Total Long Term Contribution | 12.45 | 3,107 |
| Overfunding Credit # | <u>0.00</u> | <u>0</u> |
| Total Regular Contribution | 12.45 | 3,107 |
| Temporary Adjustment ^ | (0.82) | <u>(205</u>) |
| Required Contribution | 11.63% | \$2,902 |
| | | |

[@] The above Employer contribution requirement is based on Member contributions of 3.50% of pay. If Member contributions are increased/decreased by 1.00% of pay, the Employer long term contribution requirement (based on a 30 year amortization) will decrease/increase by 0.88% of pay.

^{*} Based on Valuation Payroll. Actual contributions will be based on actual reported monthly pays, and will be different from the above amounts (usually higher).

[^] Adjustments for 2001 and 2002 valuations are determined by the Retirement Board's resolution adopted March 13, 2002. See cover letter for details.

[#] Only applies if assets exceed accrued liabilities.

Division 43 - ICEA Unit 1

Table 17S

Computed Employer Contributions - Comparative Statement

| | | | | ontribution as of Payroll |
|-----------------------------|------------------|--------------------------|-------------------------|-------------------------------------|
| Valuation Date December 31, | Active Number | e Members Annual Payroll | Regular Contribution | Minimum Required Contribution |
| 1995 | 8 | \$ 313,942 | 7.53% | 5.44% |
| 1996 | 12 | 432,683 | 8.84 | 8.15 |
| 1997 | 9 | 323,039 | 10.39 | 10.39 |
| 1998 | 6 | 253,946 | 11.99 | 11.99 |
| 1999 | 5 | 211,746 | 12.18 | 12.18 |
| 2000 | 7 | 243,297 | 12.55 | 12.55 |
| 2001 | 9 | 299,551 | 12.45 | 11.63 |

Notes:

Actuarial assumptions were revised for the 1997 valuation. Adoption of 3.50% member contributions reflected in 1998 valuation.

Actuarial assumptions were revised for the 2000 valuation.

Division 43 - ICEA Unit 1

Table 18S Flow of Active Membership

| Year Ende 12/31 | 1 | ` | Termination Non-Vested | Trai Out | nsfer In | New Member | End of Year |
|-----------------------|---|---|--------------------------|-------------|-------------|---------------|----------------|
| 2000 2001 | | | 1 | | | 3 | 7 9 |

Table 19S Flow of Vested Former Members

| Year Ended 12/31 | Retired | Return To Work | Died (Survivor Benefit) | Forfeit Benefit | Tran Out | sfer In | New | End of Year |
|------------------------|---------|-------------------|-------------------------------|--------------------|-------------|------------|-----|----------------|
| 2000 2001 | | | | 2 | | | | 5 3 |

Table 20S Flow of Retirees and Beneficiaries

| Year | Added to Rolls | | | Removed from Rolls | | | Year End | | |
|-------|----------------|----------|----------|--------------------|----------|----------|----------|-----------|--|
| Ended | | Annual | Benefit | | Annual | Benefit | | Annual | |
| 12/31 | Number@ | Benefits | Adjust.* | Number | Benefits | Adjust.# | Number | Benefits | |
| 2000 | | | | | | | 5 | \$ 67,200 | |
| 2001 | | \$ | \$ | | \$ | \$ | 5 | 67,200 | |
| | | | | | | | | · | |

[@] Includes beneficiaries of retirees who died during the year.

Table 21S Flow of Valuation Assets (Actuarial Value)

| Year Ended | Contri | butions | Investment | Benefit | Member Contrib. | Tran | sfer | |
|---------------|--------------|-------------|--------------|-----------------|-----------------|---------------|-------------|-----------------------|
| 12/31 | Employer | Member | Income | Payments | Refunds | Out | In | Balance |
| 2000 2001 | \$ 34,066 | \$ 9,884 | \$ 40,727 | \$ (67,200) | \$ (9,791) | \$ (1,476) | \$ 1,476 | \$ 579,721 587,407 |

^{*} Includes where applicable E, E-1, and E-2 benefits, and corrections.

[#] Includes where applicable C-2 and Accelerated Option benefits, and corrections.

Division 90 - Asst Pros Attnys

Table 16T

Computed Employer Contributions to the Retirement System For the Fiscal Year Beginning January 1, 2003

| | Employer Co | ntribution @ |
|--|---|--|
| Contribution for | As Percentage of Active Member Payroll | Estimated Monthly Dollar Contribution * |
| Normal Cost (in addition to member contributions) | 9.76% | \$13,229 |
| Amortization of Unfunded Accrued Liability (30 years) | <u>3.91</u> | <u>5,300</u> |
| Total Long Term Contribution | 13.67 | 18,529 |
| Overfunding Credit # | 0.00 | <u>0</u> |
| Total Regular Contribution | 13.67 | 18,529 |
| Temporary Adjustment | 0.00 | <u>0</u> |
| Required Contribution | 13.67% | \$18,529 |
| | | |

[@] The above Employer contribution requirement is based on Member contributions of 1.40% of pay. If Member contributions are increased/decreased by 1.00% of pay, the Employer long term contribution requirement (based on a 30 year amortization) will decrease/increase by 0.91% of pay.

^{*} Based on Valuation Payroll. Actual contributions will be based on actual reported monthly pays, and will be different from the above amounts (usually higher).

[#] Only applies if assets exceed accrued liabilities.

Division 90 - Asst Pros Attnys

Table 17T

Computed Employer Contributions - Comparative Statement

| | | | Employer Contribution as Percent of Payroll | | |
|----------------------|--------|-------------------|--|--------------------------|--|
| Valuation | Active | Members | | Minimum | |
| Date December 31, | Number | Annual Payroll | Regular Contribution | Required Contribution | |
| 1993 | 27 | \$ 1,413,378 | 9.75% | 4.12% | |
| 1994 | 29 | 1,531,585 | 10.93 | 5.71 | |
| 1995 | 29 | 1,479,614 | 10.54 | 7.61 | |
| 1996 | 29 | 1,607,654 | 10.68 | 9.85 | |
| 1997 | 29 | 1,596,005 | 8.88 | 8.88 | |
| 1998 | 28 | 1,719,998 | 14.40 | 14.40 | |
| 1999 | 29 | 1,534,889 | 13.77 | 13.77 | |
| 2000 | 29 | 1,681,667 | 13.44 | 13.44 | |
| 2001 | 30 | 1,626,502 | 13.67 | 13.67 | |

Notes: Actuarial assumptions were revised for the 1993 valuation.

Adoption of Benefit B-3 reflected in 1994 valuation.

Adoption of 1.4% member contributions reflected in 1994 valuation.

Actuarial assumptions were revised for the 1997 valuation.

Adoption of Benefit B-4 reflected in 1998 valuation.

Adoption of Benefit V- 6 reflected in 1998 valuation.

Adoption of Benefit F55 (15 years) reflected in 1998 valuation.

Actuarial assumptions were revised for the 2000 valuation.

Division 90 - Asst Pros Attnys

Table 18T Flow of Active Membership

| Year Ended 12/31 | ı | ` | | Termination Non-Vested | Trai Out | nsfer In | New Member | End of Year |
|------------------------|---|---|---|--------------------------|-------------|-------------|---------------|----------------|
| 2000 2001 | | | 3 | 1 | 1 | | 6 | 29 30 |

Table 19T Flow of Vested Former Members

| Year Ended 12/31 | Retired | Return To Work | Died (Survivor Benefit) | Forfeit Benefit | Tran Out | sfer In | New | End of Year |
|------------------------|---------|-------------------|-------------------------------|--------------------|-------------|------------|-----|----------------|
| 2000 2001 | 1 | | | | | 5 | 6 | 4 14 |

Table 20T Flow of Retirees and Beneficiaries

| Γ | Year | A | Added to Rolls | | | Removed from Rolls | | | Year End | | |
|---|--------------------|----------|--------------------|---------------------|--------|--------------------|---------------------|--------|---------------------|--|--|
| | Ended 12/31 | Number@ | Annual Benefits | Benefit Adjust.* | Number | Annual Benefits | Benefit Adjust.# | Number | Annual Benefits | | |
| F | | Number @ | Denents | Aujust. | Number | Delicits | Aujust.π | Number | | | |
| | 2000 2001 | 1 | \$ 8,246 | \$ | | \$ | \$ | 4 5 | \$ 89,381 97,627 | | |
| | 2001 | 1 | Ψ 0,2+0 | Ψ | | Ψ | Ψ | 3 | 71,021 | | |

[@] Includes beneficiaries of retirees who died during the year.

Table 21T Flow of Valuation Assets (Actuarial Value)

| Year Ended | Contril | butions | Investment | Benefit | Member Contrib. | Tran | sfer | |
|---------------|---------------|-----------|---------------|-----------------|-----------------|---------------|--------------|---------------------------|
| 12/31 | Employer | Member | Income | Payments | Refunds | Out | In | Balance |
| 2000 2001 | \$ 225,254 | \$ 22,971 | \$ 328,575 | \$ (93,505) | \$ | \$ (4,527) | \$ 40,928 | \$ 3,925,321 4,445,017 |

^{*} Includes where applicable E, E-1, and E-2 benefits, and corrections.

[#] Includes where applicable C-2 and Accelerated Option benefits, and corrections.

Division 91 - Parks Union Empl

Table 16U

Computed Employer Contributions to the Retirement System For the Fiscal Year Beginning January 1, 2003

| | Employer Co | ntribution @ |
|--|---|--|
| Contribution for | As Percentage of Active Member Payroll | Estimated Monthly Dollar Contribution * |
| Normal Cost (in addition to member contributions) | 8.90% | \$1,239 |
| Amortization of Unfunded Accrued Liability (30 years) | <u>2.40</u> | <u>334</u> |
| Total Long Term Contribution | 11.30 | 1,573 |
| Overfunding Credit # | 0.00 | <u>0</u> |
| Total Regular Contribution | 11.30 | 1,573 |
| Temporary Adjustment | 0.00 | <u>0</u> |
| Required Contribution | 11.30% | \$1,573 |
| | | |

[@] The above Employer contribution requirement is based on Member contributions of 0.00% of pay. If Member contributions are increased/decreased by 1.00% of pay, the Employer long term contribution requirement (based on a 30 year amortization) will decrease/increase by 0.88% of pay.

^{*} Based on Valuation Payroll. Actual contributions will be based on actual reported monthly pays, and will be different from the above amounts (usually higher).

[#] Only applies if assets exceed accrued liabilities.

Division 91 - Parks Union Empl

Table 17U

Computed Employer Contributions - Comparative Statement

| | | | | | ontribution as of Payroll |
|----------------------|--------|----|-------------------|-------------------------|------------------------------|
| Valuation | Active | Me | | | Minimum |
| Date December 31, | Number | | Annual Payroll | Regular Contribution | Required Contribution |
| 1994 | 3 | \$ | 76,666 | 10.51% | 5.48% |
| 1995 | 3 | | 82,837 | 11.15 | 8.06 |
| 1996 | 3 | | 80,234 | 11.50 | 10.61 |
| 1997 | 5 | | 144,342 | 12.37 | 12.37 |
| 1998 | 5 | | 160,579 | 10.70 | 10.70 |
| 1999 | 6 | | 195,920 | 10.42 | 10.42 |
| 2000 | 6 | | 199,329 | 10.37 | 10.37 |
| 2001 | 5 | | 167,040 | 11.30 | 11.30 |

Notes: Actuarial assumptions were revised for the 1997 valuation.

Actuarial assumptions were revised for the 2000 valuation.

Division 91 - Parks Union Empl

Table 18U Flow of Active Membership

| Yea End 12/3 | ed | Retired | ' | Termination Non-Vested | Trai Out | nsfer In | New Member | End of Year |
|--------------------|----|---------|---|--------------------------|-------------|-------------|---------------|----------------|
| 200 | | | | | 1 | | | 6 5 |

Table 19U Flow of Vested Former Members

| Year Ended 12/31 | Retired | Return To Work | Died (Survivor Benefit) | Forfeit Benefit | Tran Out | sfer In | New | End of Year |
|------------------------|---------|-------------------|-------------------------------|--------------------|-------------|------------|-----|----------------|
| 2000 2001 | | | | | | | | 0 |

Table 20U Flow of Retirees and Beneficiaries

| Year | Added to Rolls | | | Removed from Rolls | | | Year End | | |
|-------|----------------|----------|----------|--------------------|----------|----------|----------|----------|--|
| Ended | | Annual | Benefit | | Annual | Benefit | | Annual | |
| 12/31 | Number@ | Benefits | Adjust.* | Number | Benefits | Adjust.# | Number | Benefits | |
| 2000 | | | | | | | 0 | \$ 0 | |
| 2001 | | \$ | \$ | | \$ | \$ | 0 | 0 | |
| | | | | | | | | | |

[@] Includes beneficiaries of retirees who died during the year.

Table 21U Flow of Valuation Assets (Actuarial Value)

| Year Ended | Contri | butions | Investment | Benefit | Member Contrib. | Tran | sfer | |
|---------------|-----------|---------|-------------|-----------------|-----------------|-------------|------|-----------------------|
| 12/31 | Employer | Member | Income | Payments | Refunds | Out | In | Balance |
| 2000 2001 | \$ 20,080 | \$ | \$ 5,528 | \$ | \$ | \$ (58,303) | \$ | \$ 136,961 104,266 |

^{*} Includes where applicable E, E-1, and E-2 benefits, and corrections.

[#] Includes where applicable C-2 and Accelerated Option benefits, and corrections.

Division 92 - Parks Non Union

Table 16V

Computed Employer Contributions to the Retirement System For the Fiscal Year Beginning January 1, 2003

| | Employer Co | ntribution @ |
|---|---|---|
| Contribution for | As Percentage of Active Member Payroll | Estimated Monthly Dollar Contribution * |
| Normal Cost (in addition to member contributions) | 7.10% | \$1,055 |
| Amortization of Unfunded Accrued Liability (30 years) | <u>5.59</u> | <u>831</u> |
| Total Long Term Contribution | 12.69 | 1,886 |
| Overfunding Credit # | 0.00 | <u>0</u> |
| Total Regular Contribution | 12.69 | 1,886 |
| Temporary Adjustment | 0.00 | <u>0</u> |
| Required Contribution | 12.69% | \$1,886 |

[@] The above Employer contribution requirement is based on Member contributions of 0.00% of pay. If Member contributions are increased/decreased by 1.00% of pay, the Employer long term contribution requirement (based on a 30 year amortization) will decrease/increase by 0.84% of pay.

^{*} Based on Valuation Payroll. Actual contributions will be based on actual reported monthly pays, and will be different from the above amounts (usually higher).

[#] Only applies if assets exceed accrued liabilities.

Division 92 - Parks Non Union

Table 17V

Computed Employer Contributions - Comparative Statement

| | | | Employer Contribution Percent of Payroll | | |
|----------------------|--------|-------------------|---|--------------------------|--|
| Valuation | Active | Members | | Minimum | |
| Date December 31, | Number | Annual Payroll | Regular Contribution | Required Contribution | |
| 1994 | 5 | \$ 210,478 | 12.50% | 6.53% | |
| 1995 | 5 | 190,147 | 14.25 | 10.29 | |
| 1996 | 4 | 168,458 | 15.00 | 13.84 | |
| 1997 | 5 | 178,782 | 13.26 | 13.26 | |
| 1998 | 5 | 214,974 | 13.33 | 13.33 | |
| 1999 | 4 | 196,079 | 12.49 | 12.49 | |
| 2000 | 3 | 171,663 | 12.58 | 12.58 | |
| 2001 | 3 | 178,325 | 12.69 | 12.69 | |

Notes:

Adoption of Benefit F55 (25 years) reflected in 1995 valuation. Actuarial assumptions were revised for the 1997 valuation. Actuarial assumptions were revised for the 2000 valuation.

Division 92 - Parks Non Union

Table 18V Flow of Active Membership

| Year Ended 12/31 | Retired | ` | Termination Non-Vested | Trai Out | nsfer In | New Member | End of Year |
|------------------------|---------|---|--------------------------|-------------|-------------|---------------|----------------|
| 2000 2001 | | | | | | | 3 3 |

Table 19V Flow of Vested Former Members

| Year Ended 12/31 | Retired | Return To Work | Died (Survivor Benefit) | Forfeit Benefit | Tran Out | sfer In | New | End of Year |
|------------------------|---------|-------------------|-------------------------------|--------------------|-------------|------------|-----|----------------|
| 2000 2001 | | | | | | | | 0 |

Table 20V Flow of Retirees and Beneficiaries

| Ended Annual Benefit Annual Benefit | |
|---|----------|
| | Annual |
| 12/31 Number@ Benefits Adjust.* Number Benefits Adjust.# Number | Benefits |
| 2000 | \$ 0 |
| 2001 \$ \$ 0 | 0 |

[@] Includes beneficiaries of retirees who died during the year.

Table 21V Flow of Valuation Assets (Actuarial Value)

| Year Ended | | | Investment | Benefit | Member Contrib. | Tran | sfer | |
|---------------|-----------|--------|------------|-----------------|--------------------|------|------|-----------------------|
| 12/31 | Employer | Member | Income | Payments | Refunds | Out | In | Balance |
| 2000 2001 | \$ 22,273 | \$ 0 | \$ 48,447 | \$ | \$ | \$ | \$ | \$ 594,740 665,460 |

^{*} Includes where applicable E, E-1, and E-2 benefits, and corrections.

[#] Includes where applicable C-2 and Accelerated Option benefits, and corrections.

Division 93 - Lgl Rsrch Clerks

Table 16W

Computed Employer Contributions to the Retirement System For the Fiscal Year Beginning January 1, 2003

| | Employer Co | ntribution @ |
|---|---|--|
| Contribution for | As Percentage of Active Member Payroll | Estimated Monthly Dollar Contribution * |
| Normal Cost (in addition to member contributions) | 7.05% | \$1,386 |
| Amortization of Unfunded Accrued Liability (30 years) | 0.63 | <u>124</u> |
| Total Long Term Contribution | 7.68 | 1,510 |
| Overfunding Credit # | 0.00 | <u>0</u> |
| Total Regular Contribution | 7.68 | 1,510 |
| Temporary Adjustment | 0.00 | <u>0</u> |
| Required Contribution | 7.68% | \$1,510 |
| | | |

[@] The above Employer contribution requirement is based on Member contributions of 0.00% of pay. If Member contributions are increased/decreased by 1.00% of pay, the Employer long term contribution requirement (based on a 30 year amortization) will decrease/increase by 0.82% of pay.

^{*} Based on Valuation Payroll. Actual contributions will be based on actual reported monthly pays, and will be different from the above amounts (usually higher).

[#] Only applies if assets exceed accrued liabilities.

Division 93 - Lgl Rsrch Clerks

Table 17W

Computed Employer Contributions - Comparative Statement

| | | | Employer Contribution as Percent of Payroll | | |
|--------------------------------------|-----------------------|--|--|---------------------------------------|--|
| Valuation Date December 31, | Active Number | Members Annual Payroll | Regular Contribution | Minimum Required Contribution | |
| 1997 1998 1999 2000 2001 | 8 5 6 8 7 | \$ 250,777 175,963 163,718 225,369 235,907 | 6.84% 7.21 6.95 6.73 7.68 | 6.84% 7.21 6.95 6.73 7.68 | |

Actuarial assumptions were revised for the 1997 valuation. Actuarial assumptions were revised for the 2000 valuation. Notes:

Division 93 - Lgl Rsrch Clerks

Table 18W Flow of Active Membership

| Year Ended 12/31 | Retired | ` | Termination Non-Vested | Trai Out | nsfer In | New Member | End of Year |
|------------------------|---------|---|------------------------|-------------|-------------|---------------|----------------|
| 2000 2001 | | | 3 | | | 2 | 8 7 |

Table 19W Flow of Vested Former Members

| Year Ended 12/31 | Retired | Return To Work | Died (Survivor Benefit) | Forfeit Benefit | Tran Out | sfer In | New | End of Year |
|------------------------|---------|-------------------|-------------------------------|--------------------|-------------|------------|-----|----------------|
| 2000 2001 | | | | | | | | 0 |

Table 20W Flow of Retirees and Beneficiaries

| Year | Added to Rolls | | | Removed from Rolls | | | Year End | | |
|-------|----------------|----------|----------|--------------------|----------|----------|----------|----------|--|
| Ended | | Annual | Benefit | | Annual | Benefit | | Annual | |
| 12/31 | Number@ | Benefits | Adjust.* | Number | Benefits | Adjust.# | Number | Benefits | |
| 2000 | | | | | | | 0 | \$ 0 | |
| 2001 | | \$ | \$ | | \$ | \$ | 0 | 0 | |
| | | | | | | | | | |

[@] Includes beneficiaries of retirees who died during the year.

Table 21W Flow of Valuation Assets (Actuarial Value)

| Year Ended | Contri | butions | Investment | Benefit | Member Contrib. | Tran | sfer | |
|---------------|--------------|---------|------------|-----------------|-----------------|------|------|---------------------|
| 12/31 | Employer | Member | Income | Payments | Refunds | Out | In | Balance |
| 2000 2001 | \$ 17,007 | \$ | \$ 5,820 | \$ | \$ | \$ | \$ | \$ 57,453 80,280 |

^{*} Includes where applicable E, E-1, and E-2 benefits, and corrections.

[#] Includes where applicable C-2 and Accelerated Option benefits, and corrections.

Table 22

GASB 25 And GASB 27 Information

The following information has been prepared to provide the information necessary to comply with GASB Statements Number 25 and 27. Statement 25 is effective for fiscal years beginning after June 15, 1996 and Statement 27 is effective for fiscal years beginning after June 15, 1998.

All entries and the annual employer contribution amount were based on the actuarial methods and assumptions used in the December 31, 2001 actuarial valuation. The entry age normal actuarial method was used to determine the disclosure entries.

GASB 25 Information (as of 12/31/2001)

Actuarial Accrued Liability

| Retirees and beneficiaries currently receiving benefits | \$63,577,617 |
|--|---------------|
| Terminated employees (vested former members) not yet receiving benefits | 10,640,694 |
| Current employees - Accumulated employee contributions including allocated investment income | 15,576,230 |
| Employer financed | 75,850,473 |
| Total Actuarial Accrued Liability | \$165,645,014 |
| Net Assets Available for Benefits at Actuarial Value | 133,055,221 |
| (Market Value is \$120,306,468) | |
| Unfunded (Overfunded) Actuarial Accrued Liability | \$32,589,793 |

GASB 27 Information (as of 12/31/2001)

| Fiscal Year Beginning | January 1, 2003 |
|---|-----------------|
| Annual Required Contribution (ARC) | \$ 4,244,880* |
| Amortization Factor Used - Underfunded Liabilities (30 years) | 0.053632 |
| Amortization Factor Used - Overfunded Liabilities (10 years) | 0.119963 |

^{*}Based on valuation payroll, but the actual required contribution will be based on current monthly payroll (during the fiscal year beginning January 1, 2003) times the computed employer contribution rate(s) shown in Tables 15 and 16.

APPENDIX

SUMMARY OF

PLAN PROVISIONS

AND

ACTUARIAL ASSUMPTIONS

AND

ACTUARIAL FUNDING METHOD

AS OF DECEMBER 31, 2001

FOR THE

MUNICIPAL EMPLOYEES' RETIREMENT SYSTEM
OF MICHIGAN

INTRODUCTION

An actuarial valuation is the mathematical process that estimates plan liabilities and employer contribution requirements for purposes of financing the retirement system. This process is repeated annually to update the liabilities and contribution requirements for changes in member census and plan features, and to reflect actual plan experience in the process. The valuation reflects the present provisions of the Municipal Employees' Retirement Act of 1984, as amended by 1996 Public Act 220, as embodied in the MERS Plan Document (as revised). The specific benefit provisions in effect for each municipality are listed in Table 1 in the results section of the report.

In addition to utilizing current membership and financial data, an actuarial valuation requires the use of a series of assumptions regarding uncertain future events. The assumptions and methods used in the December 31, 2001 actuarial valuation are those adopted by the Retirement Board. The actuarial assumptions were last revised as of December 31, 2000 to reflect the results of the study of plan experience covering the period from December 31, 1993 through December 31, 1998.

There have been no changes in the funding method which was adopted by the Retirement Board commencing with the December 31, 1993 valuations. The basic funding method is entry age normal and employer contribution amounts are developed as a level percentage of payroll.

Details on MERS plan provisions, actuarial assumptions, and actuarial methodology follow this section.

SUMMARY OF PLAN PROVISIONS

The benefits summarized in this section are intended only as general information regarding the Municipal Employees' Retirement System of Michigan. They are not a substitute for Act. No. 220 of the Public Acts of 1996, and the MERS Plan Document as revised. If any conflict occurs between the information in this summary and Act. No. 220 of the Public Acts of 1996, as amended, or the MERS Plan Document, as revised, the provisions of Act. No. 220 and the MERS Plan Document govern.

Eligibility for Retirement (Plan Section 10)

Age 60 with 10 or more years of credited service (reduced to 8 or 6 years if either Benefit V-8 or V-6, respectively, is adopted).

Age 55 with 15 or more years of credited service (reduced benefit unless Benefit F55 is adopted).

Age 50 with 25 or more years of credited service (reduced benefit unless Benefit F50 is adopted).

The retirement allowance is reduced ½ of 1% for each complete month that the retirement date precedes the age at which full normal retirement benefits are available. The reduction may be partially or fully waived by adopting Benefit F55 and/or Benefit F50 and/or Benefit F(N).

Optional Retirement Programs (Unreduced Benefits) (Plan Section 10)

Benefit F50 - Age 50 with a required period of credited service of either 25 or 30 years.

Benefit F55 - Age 55 with a required period of credited service of 15, 20, 25 or 30 years.

Benefit F(N) - Any age with a required period of credited service of either 20, 21, 22, 23, 24, 25, 26, 27, 28, 29 or 30 years.

Mandatory Retirement

None.

Deferred Retirement (Plan Section 12)

Termination of membership before age 60 other than by retirement or death, after 10 years of credited service (8 or 6 years if Benefit V-8 or V-6 is adopted). Retirement allowance begins upon application and satisfaction of the eligibility requirements for retirement. The deferred retirement allowance is computed in the same manner as a service retirement allowance, based on the benefit program in effect as of the date of termination of membership.

Rights to an allowance are forfeited if the member's accumulated contributions are withdrawn after termination of employment.

Service Retirement Allowance (Plan Sections 13-19)

Credited service at time of termination of membership is multiplied by:

Benefit A - 1.0% of a member's final average compensation (FAC). Benefit A

may not be adopted after January 2, 1986.

Benefit B - Contact MERS office for details. Benefit B may not be adopted after

January 2, 1986.

Benefit C New - 1.3% of FAC.

Benefit C Old - Sum of 1.0% times the first \$4,200 of FAC, plus 1.5% times the

portion of FAC over \$4,200. Benefit C Old may not be adopted after

January 2, 1986.

Benefit C-1 New - 1.5% of FAC.

Benefit C-1 Old - Sum of 1.2% times the first \$4,200 of FAC, plus 1.7% times the

portion of FAC over \$4,200. Benefit C-1 Old may not be adopted after

January 2, 1986.

Benefit B-1 - 1.7% of FAC.

Benefit C-2 - 2.0% of FAC, payable until attainment of the age at which unreduced

Social Security benefits are available (currently age 65 for normal retirement, gradually increasing to age 67). Upon attainment of this age, the benefit reverts to the basic Benefit A, C New, C Old, C-1

New, C-1 Old or B-1.

Benefit B-2 - 2.0% of FAC.

Benefit B-3 - 2.25% of FAC, with a maximum benefit of 80% of FAC.

Benefit B-4 - 2.5% of FAC, with a maximum benefit of 80% of FAC.

Note for MERS' Defined Contribution Program: The Annual Actuarial Valuation addresses assets and liabilities for participation under MERS' Defined Benefit Programs. MERS' Defined Contribution Program, which first became available for adoption in late 1997, is not addressed in the valuation results as it is not a defined benefit program.

Final Average Compensation (Plan Sections 2A(6) and 2A(11))

MERS plan benefits are based on a member's final average compensation (FAC). For this purpose, final average compensation means one-fifth of the aggregate amount of compensation (as defined in the MERS Plan Document, Section 2A(6)) paid to a member during the period of 5 consecutive years of the member's credited service in which the aggregate compensation paid is highest, known as FAC-5. Adoption of Benefit FAC-3 results in final average compensation being averaged over 3 years, instead of 5 years.

Disability Retirement Allowance (Plan Section 24)

Total and permanent disability while employed by a participating municipality and after meeting the vesting requirement of the benefit program. The service requirement is waived if the disability is the natural and proximate result of duty-connected causes.

The allowance is computed in the same manner as a service retirement allowance, except that the reduction for retirement before age 60 is not applied.

If disability is due to duty-connected causes, the amount of the retirement allowance shall not be less than 25% of the member's final average compensation.

Adoption of optional Benefit Program D-2 will provide a retirement allowance for a duty-connected disability that is the greater of:

- (i) 25% of the member's final average compensation; or
- (ii) A benefit based on 10 years of credited service in addition to the member's actual period of service, provided the total years of service do not exceed the greater of 30 years or the member's actual period of service.

Non-Duty Death Allowance (Plan Sections 26 and 28)

If a member or vested former member with the minimum years of service required to be vested dies before retirement, a monthly survivor allowance may be payable.

If the member is married, the spouse is the automatic beneficiary unless the spouse, in writing, declines a benefit in favor of another named beneficiary.

A contingent survivor beneficiary (named in an Option II Contingent Beneficiary Designation form filed with MERS) will receive a retirement allowance computed in the same manner as a service retirement allowance, based on service and final average compensation at death, but reduced to reflect an Option II (100% joint and survivor) election. The reduction for retirement before age 60 is not applied. Payment of a retirement allowance to the contingent survivor beneficiary of a deceased member commences immediately. Payment of a retirement allowance to the contingent survivor beneficiary of a deceased vested former member commences on the date the member would have first satisfied eligibility for retirement with an unreduced service retirement allowance.

If there is no named beneficiary and the member leaves a spouse, the spouse will receive a survivor allowance. Payment of a retirement allowance to the surviving spouse of a deceased member commences immediately. Payment of a retirement allowance to the surviving spouse of a deceased vested former member commences on the date the member would have first satisfied eligibility for retirement for an unreduced service retirement allowance. The amount of a surviving spouse's retirement allowance shall be 85% of the deceased member's or deceased vested former member's accrued retirement allowance computed in the same manner as a service retirement allowance, based on service and final average compensation at time of death.

The amount of a surviving spouse's benefit is always the larger of i) the benefit computed as a contingent survivor beneficiary, and ii) the 85% of accrued retirement allowance benefit described above.

If there is no named beneficiary and no retirement allowance being paid to a surviving spouse, unmarried children under age 21 will be paid an equal share of 50% of the deceased member's or deceased vested former member's accrued retirement allowance. The reduction for retirement before age 60 is not applied.

If no retirement allowance becomes payable at death, the member's accumulated contributions, if any, are paid to the beneficiary or to the decedent's estate.

Duty-Connected Death Allowance (Plan Section 27)

A duty death allowance, computed in the same manner as a non-duty death allowance, may be payable to a spouse or children if death occurs as the natural and proximate result of performance of duty with a participating municipality. The vesting requirement is waived, and the minimum benefit is 25% of the deceased member's final average compensation.

Adoption of optional Benefit Program D-2 will provide a retirement allowance for a duty-connected death that is the greater of:

- (i) 25% of the member's final average compensation; or
- (ii) A benefit based on 10 years of credited service in addition to the member's actual period of service, provided the total years of service do not exceed the greater of 30 years or the member's actual period of service.

Member Contributions (Plan Sections 32 and 35)

Each member contributes a percent of annual compensation, as selected by the municipality. Any percentage from 0% to 10% (in 0.1% increments) may be selected. A 3%/5% contribution program was available prior to 1985 and may be continued (until any new benefit programs are adopted), but not adopted, after 1984. Under this program the member contributes 3% of the first \$4,200 of annual compensation and 5% of portions of annual compensation over \$4,200.

If a member leaves the employ of the municipality, or dies, without a retirement allowance or other benefit payable on his/her account, the member's accumulated contributions plus interest (at a rate determined by MERS, currently 4%) are refunded with spousal consent, to the member, if living, or to the member's surviving spouse, if any, or to a named beneficiary (after spousal consent, if applicable).

Post-Retirement Adjustments (Plan Sections 20-22)

Benefit E – provides a one-time benefit increase to present retirants and beneficiaries. The amount of the increase is equal to a fixed percentage of the present benefit, or a fixed dollar amount times the number of years since the later of retirement or the date specified in the resolution. Benefit E may be readopted from time to time.

Benefit E-1 – provides automatic 2.5% annual non-compounded benefit increases to persons (and their beneficiaries) retired before the effective date of Benefit E-1. Such increases are further limited to increases in the consumer price index (CPI) if Benefit E-1 was adopted before January 1, 1999. For all adoptions or readoptions after that date, the increase is an automatic 2.5% non-compounded increase without any CPI limitation.

Benefit E-2 – provides automatic 2.5% annual non-compounded benefit increases to persons (and their beneficiaries) retired on or after the effective date of Benefit E-2. Such increases are further limited to increases in the consumer price index (CPI) if Benefit E-2 was adopted before January 1, 1999. For all adoptions or readoptions after that date, the increase is an automatic 2.5% non-compounded increase without any CPI limitation.

Death-After-Retirement Surviving Spouse Benefit (Plan Sections 23 and 23A)

A retiring member electing form of payment SL (straight life retirement allowance) is normally paid a lifetime retirement allowance, with payments terminating at death. The retiring member could provide benefits to a surviving spouse or another named beneficiary (see below) by electing Option II (100% continuation to beneficiary) or Option II-A (75% continuation to beneficiary) or Option III (50% continuation to beneficiary). A surviving spouse is automatically the beneficiary to an Option II, IIA or III allowance unless the spouse, in writing, relinquishes the benefit to the member electing a straight life allowance or to another named beneficiary. Electing these alternate forms of payment would lower the retiring member's retirement allowance.

If Benefit Program RS50% is adopted, a member retiring on or after the effective date of Benefit RS50% may elect form of payment SL and still provide a 50% survivor benefit to the member's spouse. To be eligible for a surviving spouse benefit, the retiring member and spouse must have been married to each other both at the time of death and during the full one-year period just before retirement.

ACTUARIAL ASSUMPTIONS

Actuarial Assumptions

To calculate MERS contribution requirements, assumptions are made about future events that could affect the amount and timing of benefits to be paid and the assets to be accumulated. The economic and demographic assumptions include:

- An assumed rate of investment return that is used to discount liabilities and project what plan assets will earn.
- A mortality table projecting the number of members who will die before retirement and the duration of benefit payments after retirement.
- Assumed retirement rates projecting when members will retire and commence receiving retirement benefits.
- A set of withdrawal and disability rates to estimate the number of members who will leave the work force before retirement.
- Assumed rates of salary increase to project member compensation in future years.

The actuarial assumptions used in connection with this December 31, 2001 actuarial valuation are unchanged from the December 31, 2000 valuation assumptions, except as described in the cover letter to this report. The actuarial assumptions currently utilized are summarized below and on the following pages.

Interest Rate

Funding plan benefits involves the accumulation of assets to pay benefits in the future. These assets are invested and the net rate of investment earnings is a significant factor in determining the contributions required to support the ultimate cost of benefits. For the 2001 actuarial valuation, the net long-term investment yield is assumed to be 8%.

Salary Increases

Because benefits are based on a member's final average compensation, it is necessary to make an assumption with respect to each member's estimated salary progression. The salary increase assumption used in the actuarial valuation projects annual salary increases of 4.5% plus a percentage based on an age-related scale to reflect merit, longevity and promotional salary increases.

The salary increase assumption used for the valuation projects the following salary increases for selected ages:

| Age | Base (Inflation) | Merit and Longevity | Total Percentage Increase in Salary |
|-----|---------------------|------------------------|--|
| 20 | 4.50% | 4.16% | 8.66% |
| 25 | 4.50 | 2.88 | 7.38 |
| 30 | 4.50 | 1.98 | 6.48 |
| 35 | 4.50 | 1.52 | 6.02 |
| 40 | 4.50 | 1.10 | 5.60 |
| 45 | 4.50 | 0.66 | 5.16 |
| 50 | 4.50 | 0.32 | 4.82 |
| 55 | 4.50 | 0.14 | 4.64 |
| 60 | 4.50 | 0.00 | 4.50 |

Withdrawal Rates

The withdrawal rates are used to estimate the number of employees at each age that are expected to terminate employment before qualifying for retirement benefits. The withdrawal rates do not apply to members eligible to retire, and do not include separation on account of death or disability. The assumed rates of withdrawal applied in the current valuation are based on years of service for members with less than 5 years of service, and based on age for members with 5 or more years of service.

Sample rates of withdrawal from active employment are below:

| Sample Ages | Years of Service | % of Active Members Withdrawing Within the Next Year |
|----------------|---------------------|--|
| | 0 | 18.00% |
| | 1 | 18.00 |
| | 2 | 16.00 |
| | 3 | 12.00 |
| | 4 | 10.00 |
| 20 | 5 and over | 9.00 |
| 25 | | 9.00 |
| 30 | | 9.00 |
| 35 | | 7.00 |
| 40 | | 5.00 |
| 45 | | 4.00 |
| 50 | | 4.00 |
| 55 | | 3.00 |
| 60 | | 3.00 |
| 65 | | 2.00 |
| 70 | | 0.00 |
| | | |

Retirement Rates

A schedule of retirement rates is used to measure the probability of eligible members retiring during the next year. To reflect the impact plan design may have on retirement experience, separate retirement rates apply to valuation divisions without Benefits F50, F55 or F(N), to those divisions that have adopted F55, to those that have adopted F50, and to those that have adopted F(N). The retirement rates in use for each category are shown below:

NORMAL RETIREMENT - AGE BASED - BENEFIT F(N) NOT ADOPTED

| | Percent of Eligible Active Members Retiring Within Next Year | | | | | | |
|-----------------|--|----------|----------|--|--|--|--|
| Retirement Ages | Without F50 or F55 or F(N) | With F55 | With F50 | | | | |
| 50 | | | 22% | | | | |
| 51 | | | 22 | | | | |
| 52 | | | 22 | | | | |
| 53 | | | 22 | | | | |
| 54 | | | 24 | | | | |
| 55 | | 18% | 18 | | | | |
| 56 | | 14 | 14 | | | | |
| 57 | | 16 | 16 | | | | |
| 58 | | 18 | 18 | | | | |
| 59 | | 18 | 18 | | | | |
| 60 | 20% | 20 | 20 | | | | |
| 61 | 24 | 24 | 24 | | | | |
| 62 | 24 | 24 | 24 | | | | |
| 63 | 24 | 24 | 24 | | | | |
| 64 | 27 | 27 | 27 | | | | |
| 65 | 30 | 30 | 30 | | | | |
| 66 | 30 | 30 | 30 | | | | |
| 67 | 30 | 30 | 30 | | | | |
| 68 | 30 | 30 | 30 | | | | |
| 69 | 30 | 30 | 30 | | | | |
| 70 | 100 | 100 | 100 | | | | |

Normal Retirement - Service Based - Benefit F(N) Adopted

| Years of Service | Percent of Eligible Active Members Retiring Within Next Year | Years of Service | Percent of Eligible Active Members Retiring Within Next Year | Years of Service | Percent of Eligible Active Members Retiring Within Next Year |
|---------------------|---|---------------------|---|---------------------|---|
| 20 | 22% | 31 | 22% | 41 | 24% |
| 21 | 22 | 32 | 22 | 42 | 24 |
| 22 | 22 | 33 | 22 | 43 | 24 |
| 23 | 22 | 34 | 24 | 44 | 27 |
| 24 | 22 | 35 | 18 | 45 | 30 |
| 25 | 22 | 36 | 14 | 46 | 30 |
| 26 | 22 | 37 | 16 | 47 | 30 |
| 27 | 22 | 38 | 18 | 48 | 30 |
| 28 | 22 | 39 | 18 | 49 | 30 |
| 29 | 22 | 40 | 20 | 50 | 100 |
| 30 | 22 | | | | |

Municipalities that have adopted a non-standard benefit multiplier after December 31, 1996 that is in excess of the B-4, 2.5% multiplier, will have a retirement rate equal to 75% at the first age at which unreduced plan benefits are available.

EARLY RETIREMENT - REDUCED BENEFIT

| Retirement Ages | Percent of Eligible Active Members Retiring Within Next Year |
|-----------------|---|
| 50 | 3% |
| 51 | 3 |
| 52 | 5 |
| 53 | 8 |
| 54 | 15 |
| 55 | 4 |
| 56 | 4 |
| 57 | 4 |
| 58 | 8 |
| 59 | 10 |

Disability Rates

Disability rates are used in the valuation to estimate the incidence of member disability in future years.

The assumed rates of disablement at various ages are shown below:

| Percent Becoming Disabled Within Next Year |
|---|
| 0.02% |
| 0.02 |
| 0.02 |
| 0.02 |
| 0.05 |
| 0.12 |
| 0.25 |
| 0.40 |
| 0.45 |
| 0.50 |
| |

85% of the disabilities are assumed to be non-duty and 15% of the disabilities are assumed to be duty related. For those plans which have adopted disability provision D-2, 70% of the disabilities are assumed to be non-duty and 30% are assumed to be duty related.

Mortality Table

In estimating the amount of the reserves required at the time of retirement to pay a member's benefit for the remainder of his or her lifetime, it is necessary to make an assumption with respect to the probability of surviving to retirement and the life expectancy after retirement.

The mortality table used to project the mortality experience of plan members is the 1994 Group Annuity Mortality Table. For disabled retirees, the regular mortality tables are used with a 3-year set forward in ages to reflect the higher expected mortality rates of disabled members.

The life expectancies and mortality rates projected by the 1994 Group Annuity Mortality table for **non-disabled** members are shown below for selected ages:

| | Expected Years of Life Remaining | | Mortali | ity Rates |
|-----|----------------------------------|--------|---------|-----------|
| Age | Male | Female | Male | Female |
| 20 | 58.90 | 63.60 | 0.05% | 0.03% |
| 25 | 54.06 | 58.69 | 0.07 | 0.03 |
| 30 | 49.25 | 53.77 | 0.08 | 0.04 |
| 35 | 44.45 | 48.88 | 0.09 | 0.05 |
| 40 | 39.64 | 44.01 | 0.11 | 0.07 |
| 45 | 34.88 | 39.18 | 0.16 | 0.10 |
| 50 | 30.19 | 34.39 | 0.26 | 0.14 |
| 55 | 25.65 | 29.67 | 0.44 | 0.23 |
| 60 | 21.33 | 25.09 | 0.80 | 0.44 |
| 65 | 17.34 | 20.77 | 1.45 | 0.86 |
| 70 | 13.79 | 16.80 | 2.37 | 1.37 |
| 75 | 10.62 | 13.10 | 3.72 | 2.27 |
| 80 | 7.87 | 9.81 | 6.20 | 3.94 |

The life expectancies and mortality rates projected by the 1994 Group Annuity Mortality table for **disabled** members are shown below for selected ages:

| | | ed Years emaining | Mortali | ty Rates |
|-----|-------|----------------------|---------|----------|
| Age | Male | Female | Male | Female |
| 20 | 55.99 | 60.65 | 0.06% | 0.03% |
| 25 | 51.17 | 55.74 | 0.08 | 0.03 |
| 30 | 46.37 | 50.83 | 0.08 | 0.04 |
| 35 | 41.56 | 45.95 | 0.09 | 0.06 |
| 40 | 36.77 | 41.11 | 0.14 | 0.09 |
| 45 | 32.05 | 36.30 | 0.21 | 0.12 |
| 50 | 27.45 | 31.55 | 0.36 | 0.19 |
| 55 | 23.02 | 26.89 | 0.63 | 0.34 |
| 60 | 18.89 | 22.46 | 1.15 | 0.67 |
| 65 | 15.16 | 18.36 | 1.99 | 1.18 |
| 70 | 11.84 | 14.54 | 3.12 | 1.83 |
| 75 | 8.90 | 11.07 | 5.02 | 3.17 |
| 80 | 6.50 | 8.08 | 8.25 | 5.49 |

Miscellaneous and Technical Assumptions

| U% OI | mai | es ar | na | 70% | Oİ. | temale | are | assumed | to | be |
|--------|---------|------------------------|--------------------------------------|---|---|---|--|---|--|---|
| arried | for | purp | ose | s of | dea | ath-in-se | ervice | benefits. | M | lale |
| ouses | are a | assun | ned | l to b | e tl | rree year | ars ol | der than | fem | ale |
| n | narried | narried for pouses are | narried for purp pouses are assur | narried for purpose pouses are assumed | narried for purposes of pouses are assumed to b | narried for purposes of dea pouses are assumed to be the | narried for purposes of death-in-se pouses are assumed to be three year | narried for purposes of death-in-service pouses are assumed to be three years ol | narried for purposes of death-in-service benefits. pouses are assumed to be three years older than | 70% of males and 70% of females are assumed to narried for purposes of death-in-service benefits. M pouses are assumed to be three years older than fem |

spouses.

Pay Increase Timing - Beginning of valuation year. This is equivalent to assuming

that reported pays represent amounts paid to members

during the year ended on the valuation date.

Decrement Timing - Decrements of all types are assumed to occur mid-year.

Eligibility Testing - Eligibility for benefits is determined based upon the age

nearest birthday and service nearest whole year on the date

the decrement is assumed to occur.

Benefit Service - Exact fractional service is used to determine the amount of

benefit payable.

Decrement Relativity - Decrement rates are used directly from the experience

study, without adjustment for multiple decrement table

effects.

Decrement Operation - Disability and death-in-service decrements do not operate

during the first 5 years of service. Disability and withdrawal do not operate during retirement eligibility.

Normal Form of Benefit - The assumed normal form of benefit is the straight life

form.

Loads - None.

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. New entrant normal cost contributions are applied to the funding of new entrant

benefits.

ACTUARIAL FUNDING METHOD

The Retirement Board has adopted funding methodology for the Retirement System to achieve the following major objectives:

- Develop level required contribution rates as a percentage of payroll;
- Finance benefits earned by present employees on a current basis;
- Accumulate assets to enhance members' benefit security;
- Produce investment earnings on accumulated assets to help meet future benefit costs;
- Make it possible to estimate the long-term actuarial cost of proposed amendments to System provisions; and
- Assist in maintaining the Retirement System's long-term financial viability.

The basic funding objective is a level pattern of cost as a percentage of salary throughout each member's working lifetime. The funding method used in this actuarial valuation – the entry age normal cost method – is intended to meet this objective and result in a relatively level long-term contribution requirement as a percentage of salary.

Under the entry age normal cost method, the total actuarially-determined contribution requirement is equal to the sum of the normal cost plus the payment required to fund the unfunded actuarial accrued liability over a period of years. Funding or amortizing the unfunded actuarial accrued liability includes a payment toward the liability (principal) plus a payment to reflect the time value of money (interest).

Normal Cost

In general terms, the normal cost is the cost of benefit rights accruing on the basis of current service. Technically, the normal cost rate is the level percentage-of-salary contribution required each year, with respect to each member, to accumulate over his or her projected working lifetime the reserves needed to meet the cost of earned benefits. The normal cost represents the ultimate cost of the Retirement System, if the unfunded liability is paid up and the actual experience of the System conforms to the assumptions.

Actuarial Accrued Liability

The total actuarial present value of future benefits is computed using the valuation's actuarial assumptions. Subtracting the present value of future normal costs results in the actuarial accrued liability.

The total actuarial accrued liability essentially represents the amount that would have been accumulated as of December 31, 2001, if contributions sufficient to meet the normal costs of the Retirement System had been made each year in the past, benefit provisions had always been the same as current benefit provisions, and actual past experience had always conformed to current actuarial assumptions. If assets equaled the total accrued liability, there would be no unfunded liability and future contribution requirements would consist solely of the calculated normal cost rates.

Amortization of Unfunded Actuarial Accrued Liability

Unfunded actuarial accrued liability is amortized by level percent of payroll contributions over a period of years. Active member payroll is assumed to increase 4.5% a year for the purpose of determining the level percent contributions. The standard amortization period to fund the unfunded liability is 30 years for positive unfunded liabilities, and 10 years for negative unfunded liabilities, with these time periods reestablished with each annual actuarial valuation. However, municipalities that entered MERS before January 1, 2000 may currently have an amortization period that is longer than 30 years that reduces annually by 1 year until the period reaches 30 years. At that point, the amortization period will remain at 30 years. All new municipalities entering MERS on and after January 1, 2000 have 30 year amortization. Shorter amortization periods may be elected by a municipality (but not shorter than 5 years for negative unfunded liabilities). Table 16 in the results section of this report indicates the current length of the amortization period for each division. Note that when the 10 year amortization is used for negative unfunded liabilities, Table 16 reports the amortization in two parts: i) a long term credit based on a 30 year amortization, plus ii) an overfunding credit resulting from using a 10 year amortization instead of 30 years.

Present Value of Accrued Benefits

The present value of accrued benefits represents the actuarial value of benefits that have been earned as of the valuation date for all members of the valuation division. This benefit reflects the final average compensation and plan benefit service of each member, and plan features of the member's

valuation division as of the valuation date. Included in this value is the current value of vested benefits for members who have met plan vesting requirements and the current value of non-vested benefits for member who have not yet met plan vesting requirements. Regardless of plan vesting service, all member contributions are vested. Active members are assumed to continue in employment until retirement, death, disability or termination, but benefit amounts are frozen on the valuation date.

Termination Liability

The termination liability represents the value of the benefits that have been earned as of the valuation date based on final average compensation and benefit service as of the valuation date. All active members are assumed to terminate employment on the valuation date. Vested active members are assumed to retire at the first age when the member would be eligible for unreduced deferred retirement benefits, assuming no continued employment after the valuation date. Non-vested active members are assumed to only receive a refund of member contributions, if any.

ASSET VALUATION METHOD

The actuarial value of assets is determined on the basis of a method that calculates expected investment income at the valuation rate of return and adds a portion of the difference between the expected investment income and actual investment income earned on a market value basis. The difference in investment income between expected return and market return is recognized over a 5-year period at the rate of 20% per year. This asset valuation method was first adopted for the December 31, 1993 valuation, and is applied as follows:

Actuarial Value equals:

- (a) Actuarial value of assets from the previous actuarial valuation, plus
- (b) Aggregate employer and member contributions since the last valuation, minus
- (c) Benefit payments and refunds of member contributions since the last valuation, plus
- (d) Estimated investment income at the 8% valuation interest rate, plus
- (e) Portion of gain (loss) recognized in the current valuation.

For the above purpose, gain (loss) is defined as the excess during the period of the investment return on the market value of assets over the expected investment income. The portion recognized in the valuation is 20% of the current year's gain (loss) plus 20% of the gain (loss) from each of the 4 preceding years.

During 2001, the approximate net investment return on average total assets at actuarial value (determined as the actuarial value of investment income divided by the average actuarial value of assets during the year) was 7.72%. The corresponding amounts for 2000, 1999, 1998 and 1997 were 10.36%, 15.38%, 12.93% and 12.02%, respectively.

For the December 31, 2001 valuation, the actuarial value of assets is equal to 110.60% of market value (compared to 100.07%, 87.89%, 88.86% and 89.63% in 2000, 1999, 1998 and 1997, respectively). This percentage is applied to each division's reported market value of assets to estimate the actuarial value of assets for the division. The chart on the following page provides the details of the derivation of the actuarial value of assets for the retirement system in the aggregate.

The reader should note that, given that the actuarial value of assets is currently 10% higher than the market value, meeting the actuarial assumption will require average future market returns that exceed the 8% investment return assumption.

Municipal Employees' Retirement System of Michigan Derivation of Actuarial Value of Assets

| Valuation Date December 31: | 1997 | 1998 | 1999 | 2000 | 2001 |
|--|------------------|------------------|---------------------|------------------|------------------|
| Beginning of Year Assets | | | | | |
| a) Market Value | \$ 2,602,370,729 | \$ 3,003,527,525 | \$ 3,411,188,529 | \$ 3,941,864,651 | \$ 3,788,886,471 |
| b) Valuation Assets | 2,412,858,589 | 2,692,161,219 | 3,031,278,484 | 3,464,584,875 | 3,791,423,339 |
| | 2 002 525 525 | 2 411 100 520 | 2 0 4 1 0 6 4 6 5 1 | 2 700 006 471 | 2 (47 020 060 |
| 2. End of Year Market Value Assets | 3,003,527,525 | 3,411,188,529 | 3,941,864,651 | 3,788,886,471 | 3,647,820,869 |
| 3. Net Additions to Market Value | = . = . | | | | |
| a) Net Contributions | 116,715,726 | 144,118,741 | 161,911,772 | 162,703,877 | 154,103,475 |
| b) Net Investment Income = (3d) - (3a) - (3c) | 411,336,769 | 416,174,409 | 561,188,970 | (122,407,374) | (93,269,286) |
| c) Benefit Payments | (126,895,699) | (152,632,146) | (192,424,619) | (193,274,683) | (201,899,791) |
| d) Total Additions to Market Value = (2) - (1a) | 401,156,796 | 407,661,004 | 530,676,123 | (152,978,180) | (141,065,602) |
| 4. Average Valuation Assets = | | | | | |
| (1b) + .5x[(3a) + (3c)] | 2,407,768,603 | 2,687,904,516 | 3,016,022,060 | 3,449,299,472 | 3,767,525,181 |
| 5. Expected Income at Valuation Rate = 8% x (4) | 192,621,488 | 215,032,361 | 241,281,765 | 275,943,958 | 301,402,014 |
| 6. $Gain (Loss) = (3b) - (5)$ | 218,715,281 | 201,142,048 | 319,907,205 | (398,351,332) | (394,671,300) |
| 7. Phased-In Recognition of Investment Return | | | | | |
| a) Current Year: 0.2 x (6) | 43,743,056 | 40,228,410 | 63,981,441 | (79,670,266) | (78,934,260) |
| b) First Prior Year | 13,182,671 | 43,743,056 | 40,228,410 | 63,981,441 | (79,670,266) |
| c) Second Prior Year | 61,401,895 | 13,182,671 | 43,743,056 | 40,228,410 | 63,981,441 |
| d) Third Prior Year | (25,957,723) | 61,401,895 | 13,182,671 | 43,743,056 | 40,228,410 |
| e) Fourth Prior Year | 4,491,215 | (25,957,723) | 61,401,895 | 13,182,671 | 43,743,057 |
| f) Total Recognized Investment Gain | 96,861,114 | 132,598,309 | 222,537,473 | 81,465,312 | (10,651,618) |
| 8. Change in Valuation Assets | | | | | |
| (3a) + (3c) + (5) + (7f) | 279,302,629 | 339,117,265 | 433,306,391 | 326,838,464 | 242,954,080 |
| 9. End of Year Assets | | | | | |
| a) Market Value = (2) | 3,003,527,525 | 3,411,188,529 | 3,941,864,651 | 3,788,886,471 | 3,647,820,869 |
| b) Valuation Assets = $(1b) + (8)$ | 2,692,161,219 | 3,031,278,484 | 3,464,584,875 | 3,791,423,339 | 4,034,377,419 |
| c) Difference Between Market & Valuation Assets | 311,366,306 | 379,910,045 | 477,279,776 | (2,536,868) | (386,556,550) |
| | | | | , , | , , , , |
| 10. Recognized Rate of Return = $[(5) + (7f)] / (4)$ | 12.02% | 12.93% | 15.38% | 10.36% | 7.72% |
| 11. Market Rate of Return | 15.84% | 13.88% | 16.53% | (3.12%) | (2.48%) |
| 12. Valuation Asset Adjustment Factor = (9b) / (9a) | 0.896333 | 0.888628 | 0.878920 | 1.000670 | 1.105969 |



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