

Duluth Teachers' Retirement Fund Association

*Actuarial Valuation and Review
as of July 1, 2004*

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November 29, 2004

*Mr. J. Michael Stoffel
Executive Director
Duluth Teachers' Retirement Fund Association
625 East Central Entrance
Duluth, Minnesota 55811*

Dear Mr. Stoffel:

We are pleased to submit this Actuarial Valuation and Review as of July 1, 2004. It summarizes the actuarial data used in the valuation, establishes the funding requirements for fiscal 2004 and analyzes the preceding year's experience.

The census information on which our calculations were based was prepared by the Fund and the financial information was provided by the Fund. That assistance is gratefully acknowledged. The actuarial calculations were completed under our supervision.

This actuarial valuation has been completed in accordance with generally accepted actuarial principles and practices. To the best of our knowledge, the information supplied in this actuarial valuation is complete and accurate.

We look forward to reviewing this report at your next meeting and to answering any questions.

Sincerely,

THE SEGAL COMPANY

By:

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Senior Vice President and Actuary*

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*cc: Legislative Commission on Pensions and Retirement (3 copies)
Minnesota Legislative Reference Library (6 copies)
Minnesota Department of Finance (2 copies)*

SECTION 1

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SECTION 1: Valuation Summary for the Duluth Teachers' Retirement Fund Association

Purpose

This report has been prepared by The Segal Company to present a valuation of the Duluth Teachers' Retirement Fund Association as of July 1, 2004. The valuation was performed to determine whether the assets and contributions are sufficient to provide the prescribed benefits. The contribution requirements presented in this report are based on:

- Section 356.215 of the Minnesota Statutes;
- The benefit provisions of the Retirement Fund, as administered by the Legislative Commission on Pensions and Retirement;
- The characteristics of covered active members, inactive vested members, pensioners and beneficiaries as of July 1, 2004, provided by the Fund;
- The assets of the Fund as of June 30, 2004, provided by the Fund;
- Economic assumptions regarding future salary increases and investment earnings; and
- Other actuarial assumptions, regarding employee terminations, retirement, death, etc.

SECTION 1: Valuation Summary for the Duluth Teachers' Retirement Fund Association

Significant Issues in Valuation Year

The following key findings were the result of this actuarial valuation:

- The actuarial accrued liability funded ratio based on the actuarial value of assets over the actuarial accrued liability as of July 1, 2004 is 91.79% compared to 95.66% as of July 1, 2003. This ratio is a measure of funding status, and its history is a measure of funding progress, and is the ratio required to be reported under GASB 25.
- As indicated on page 4 of this report, the total unrecognized investment loss as of June 30, 2004 is \$18,117,537. This investment loss will be recognized in the determination of the actuarial value of assets for funding purposes in the next few years, to the extent it is not offset by recognition of investment gains derived from future experience. Earnings in excess of 8.50% will help temper possible increases in future contribution requirements.
- The statutory contribution rate under Chapter 354A is equal to 11.29% of payroll compared to the required contribution rate under Chapter 356 of 12.11% of payroll. Therefore the contribution deficiency is 0.82% of payroll as of July 1, 2004.
- There were no changes in plan provisions, actuarial assumptions or actuarial cost methods since the prior valuation. This is the first year that The Segal Company prepared the actuarial valuation of the Fund.

SECTION 1: Valuation Summary for the Duluth Teachers' Retirement Fund Association

Summary of Key Valuation Results

| | 2004 | 2003 |
|---|---------------|---------------|
| Contributions (% of payroll) for plan year beginning July 1: | | |
| Statutory – Chapter 354A | 11.29% | 11.29% |
| Required – Chapter 356 | 12.11% | 11.27% |
| Sufficiency/(Deficiency) | -0.82% | 0.02% |
| Funding elements for plan year beginning July 1: | | |
| Normal cost | \$4,903,049 | \$4,812,000 |
| Market value of assets | 258,831,515 | 231,247,000 |
| Actuarial value of assets (AVA) | 276,949,052 | 278,467,000 |
| Actuarial accrued liability (AAL) | 301,704,445 | 291,109,000 |
| Unfunded/(Overfunded) actuarial accrued liability | 24,755,393 | 12,642,000 |
| Funded ratios: | | |
| <u>Accrued Benefit Funded Ratio</u> | 95.68% | 99.65% |
| Current assets (AVA) | \$276,949,052 | \$278,467,000 |
| Current benefit obligations | 289,460,171 | 279,444,000 |
| <u>Projected Benefit Funded Ratio</u> | 97.62% | 100.06% |
| Current and expected future assets | \$333,814,878 | \$330,285,000 |
| Current and expected future benefit obligations (Present Value of Benefits) | 341,956,772 | 330,102,000 |
| GASB 25/27 for plan year beginning July 1: | | |
| Annual required employer contributions | \$2,510,314 | \$1,691,000 |
| Accrued Liability Funded Ratio (AVA/AAL) | 91.79% | 95.66% |
| Covered actual payroll | \$48,820,898 | \$50,656,000 |
| Demographic data for plan year beginning July 1: | | |
| Number of pensioners and beneficiaries | 1,137 | 1,107 |
| Number of vested terminated members | 312 | 187 |
| Number of other non-vested terminated members | 650 | 826 |
| Number of active members | 1,178 | 1,373 |
| Total projected payroll | \$55,820,306 | \$52,972,000 |
| Average annual payroll (actual dollars) | 40,752 | 36,431 |

SECTION 2: Valuation Results for the Duluth Teachers' Retirement Fund Association

A. MEMBER DATA

The Actuarial Valuation and Review considers the number and demographic characteristics of covered members, including active members, vested terminated members, pensioners and beneficiaries.

This section presents a summary of significant statistical data on these member groups.

More detailed information for this valuation year and the preceding valuation can be found in Section 3, Exhibits A, B, C, D, E and F.

A historical perspective of how the member population has changed over the past three valuations can be seen in this chart.

CHART 1
Member Population: 2002 – 2004

| Year Ended June 30 | Active Members | Vested Terminated Members* | Pensioners and Beneficiaries | Ratio of Non-Actives to Actives |
|-------------------------------|---------------------------|---------------------------------------|---|--|
| 2002 | 1,276 | 305 | 1,085 | 1.09 |
| 2003 | 1,373 | 187 | 1,107 | 0.94 |
| 2004 | 1,178 | 312 | 1,137 | 1.23 |

**Excludes terminated members due a refund of employee contributions*

SECTION 2: Valuation Results for the Duluth Teachers' Retirement Fund Association

Active Members

Plan costs are affected by the age, years of service and payroll of active members. In this year's valuation, there were 1,178 active members with an average age of 46.1, average years of service of 12.4 years and average projected payroll of \$47,386. The 1,373 active members in the prior valuation had an average age of 44.5, average service of 11.0 years and average projected payroll of \$38,581.

Inactive Members

In this year's valuation, there were 312 members with a vested right to a deferred or immediate vested benefit.

In addition, there were 650 other non-vested terminated members entitled to a return of their employee contributions.

These graphs show a distribution of active members by age and by years of service.

CHART 2

Distribution of Active Members by Age as of June 30, 2004

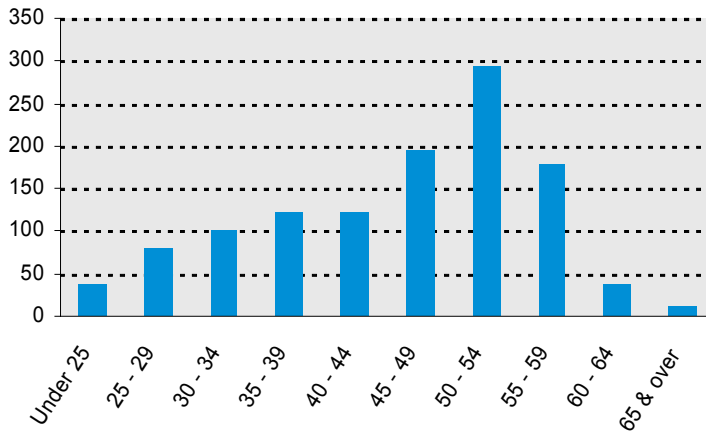
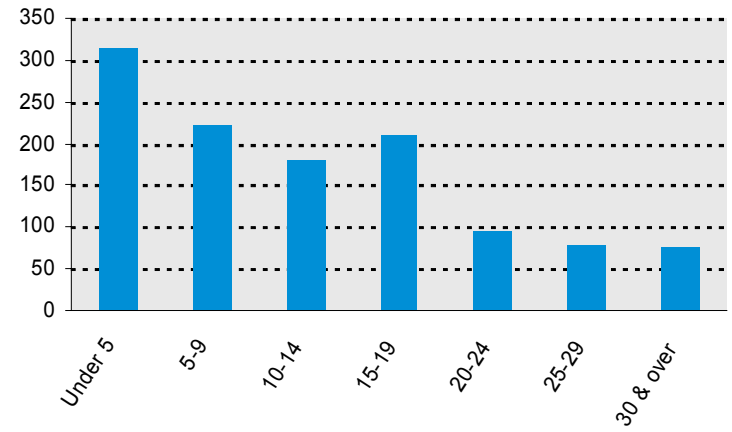


CHART 3

Distribution of Active Members by Years of Service as of June 30, 2004



SECTION 2: Valuation Results for the Duluth Teachers' Retirement Fund Association

Pensioners and Beneficiaries

As of June 30, 2004, 1,050 pensioners (including 14 disabled participants) and 87 beneficiaries were receiving total monthly benefits of \$1,520,020. For comparison, in the previous valuation, there were 1,033 pensioners (including 14 disabled participants) and 74 beneficiaries receiving monthly benefits of \$1,450,205.

These graphs show a distribution of the current pensioners and beneficiaries based on their monthly amount and age, by type of pension.

CHART 4
Distribution of Pensioners and Beneficiaries by Type and by Monthly Amount as of June 30, 2004

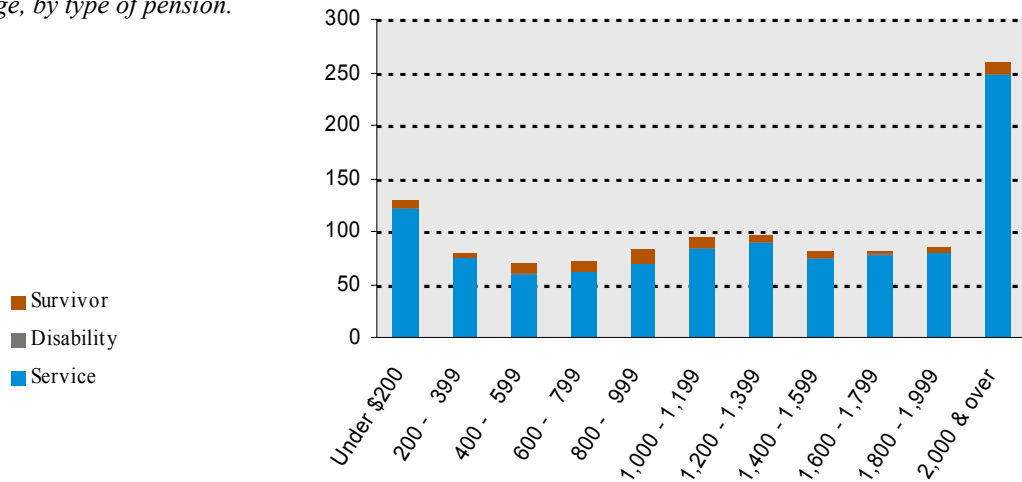
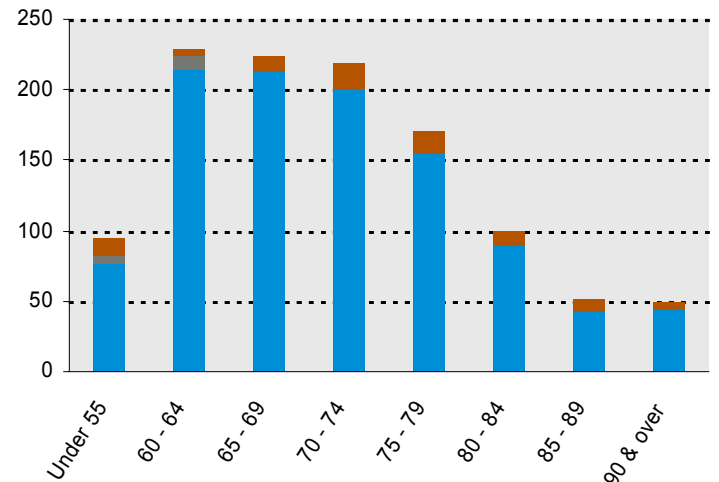


CHART 5
Distribution of Pensioners and Beneficiaries by Type and by Age as of June 30, 2004



SECTION 2: Valuation Results for the Duluth Teachers' Retirement Fund Association

B. FINANCIAL INFORMATION

It is desirable to have level and predictable plan costs from one year to the next. For this reason, the Minnesota Statutes require an asset valuation method that gradually adjusts to market value. Under this valuation method, the full value of market fluctuations is not recognized in a single year and, as a result, the asset value and the plan costs are more stable. The amount of the adjustment to recognize market value is treated as income, which may be positive or negative. Realized and unrealized gains and losses are treated equally and, therefore, the sale of assets has no immediate effect on the actuarial value.

Both the actuarial value and market value of assets are representations of the Fund's financial status. As investment gains and losses are gradually taken into account, the actuarial value of assets tracks the market value of assets. The actuarial asset value is significant because the Fund's liabilities are compared to these assets to determine what portion, if any, remains unfunded. Amortization of the unfunded actuarial accrued liability is an important element in determining the contribution requirement.

The chart shows the determination of the actuarial value of assets as of the valuation date.

**CHART 6
Determination of Actuarial Value of Assets for Year Ended June 30, 2004**

| | Original Amount | % Not Recognized | |
|--|-----------------|------------------|----------------------|
| 1. Market value of assets available for benefits | | | \$258,831,515 |
| 2. Calculation of unrecognized return | | | |
| (a) Year ended June 30, 2004 | \$20,475,829 | 80% | \$16,380,663 |
| (b) Year ended June 30, 2003 | -11,347,000 | 60% | -6,808,200 |
| (c) Year ended June 30, 2002 | -44,781,000 | 40% | -17,912,400 |
| (d) Year ended June 30, 2001 | -48,888,000 | 20% | <u>-9,777,600</u> |
| (e) Total unrecognized return | | | -\$18,117,537 |
| 3. Actuarial value of assets: (1) – (2e) ("Current Assets") | | | <u>\$276,949,052</u> |

SECTION 2: Valuation Results for the Duluth Teachers' Retirement Fund Association

C. ACTUARIAL EXPERIENCE

To calculate the required contribution, assumptions are made about future events that affect the amount and timing of benefits to be paid and assets to be accumulated. Each year actual experience is measured against the assumptions. If overall experience is more favorable than anticipated (an actuarial gain), the contribution requirement will decrease from the previous year. On the other hand, the contribution requirement will increase if overall actuarial experience is less favorable than expected (an actuarial loss).

Taking account of experience gains or losses in one year without making a change in assumptions reflects the belief that the single year's experience was a short-term development and that, over the long term, experience will return to the original assumptions.

For contribution requirements to remain stable, assumptions should approximate experience.

If assumptions are changed, the contribution requirement is adjusted to take into account a change in experience anticipated for all future years.

The total loss is \$11,396,778, a loss of \$12,639,583 from investments and a gain of \$1,242,805 from all other sources. The net experience variation from individual sources other than investments was 0.4% of the actuarial accrued liability, which is under 1.0% of the actuarial accrued liability, including age/service retirements, disability, mortality (pre and post-retirement), withdrawal, and salary increases.

This chart provides a summary of the actuarial experience during the past year.

CHART 7
Actuarial Experience for Year Ended June 30, 2004

| | |
|--|------------------|
| 1. Net gain/(loss) from investments | -\$12,639,583 |
| 2. Net gain/(loss) from other experience | <u>1,242,805</u> |
| 3. Net experience gain/(loss): (1) + (2) | -\$11,396,778 |

SECTION 2: Valuation Results for the Duluth Teachers' Retirement Fund Association

D. INFORMATION REQUIRED BY THE GASB

Governmental Accounting Standards Board (GASB) reporting information provides standardized information for comparative purposes of governmental pension plans. This information allows a reader of the financial statements to compare the funding status of one governmental plan to another on relatively equal terms.

Critical information to GASB is the historical comparison of the GASB required contribution to the actual contributions. This comparison demonstrates whether a plan is being funded on an actuarially sound basis and in accordance with the GASB funding requirements. Section 4, Exhibit III presents a schedule of this information for the Fund.

The other critical piece of information regarding the Fund's financial status is the funded ratio. This ratio compares the

actuarial value of assets to the actuarial accrued liabilities of the plan as calculated under GASB. High ratios indicate a well-funded plan with assets sufficient to pay most benefits. Lower ratios may indicate recent changes to benefit structures, funding of the plan below actuarial requirements, poor asset performance, or a variety of other changes.

GASB requires that the actuarial value of assets be used to determine the funded ratio as shown in Section 4, Exhibit IV.

SECTION 3: Supplemental Information for the Duluth Teachers' Retirement Fund Association

EXHIBIT A

Table of Plan Coverage

| Category | Year Ended June 30 | | Change From Prior Year |
|--|---------------------------|--------------|-------------------------------|
| | 2004 | 2003 | |
| Active members in valuation: | | | |
| Number | 1,178 | 1,373 | -14.2% |
| Average age | 46.1 | 44.5 | N/A |
| Average service | 12.4 | 11.0 | N/A |
| Total projected payroll | \$55,820,306 | \$52,972,000 | 5.4% |
| Average projected payroll | 47,386 | 38,581 | 22.8% |
| Total active vested members | 932 | 1,014 | -8.1% |
| Vested terminated members | 312 | 187 | 66.8% |
| Retired participants: | | | |
| Number in pay status | 1,036 | 1,019 | 1.7% |
| Average age | 70.9 | 70.7 | N/A |
| Average monthly benefit | \$1,360 | \$1,330 | 2.3% |
| Disabled members: | | | |
| Number in pay status | 14 | 14 | 0.0% |
| Average age | 59.9 | 59.3 | N/A |
| Average monthly benefit | \$1,166 | \$1,066 | 9.4% |
| Beneficiaries: | | | |
| Number in pay status | 87 | 74 | 17.6% |
| Average age | 72.2 | 74.9 | N/A |
| Average monthly benefit | \$1,089 | \$1,077 | 1.11% |
| Other non-vested terminated members | 650 | 826 | -21.3% |

SECTION 3: Supplemental Information for the Duluth Teachers' Retirement Fund Association

EXHIBIT B-1

**Members in Active Service as of June 30, 2004
By Age, Years of Service, and Average Projected Payroll - Total**

| Age | Years of Service | | | | | | | |
|-----------|------------------|----------|----------|----------|----------|----------|----------|-----------|
| | Total | Under 5 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30 & over |
| Under 25 | 38 | 38 | -- | -- | -- | -- | -- | -- |
| | \$17,154 | \$17,154 | -- | -- | -- | -- | -- | -- |
| 25 - 29 | 80 | 66 | 14 | -- | -- | -- | -- | -- |
| | 23,771 | 20,568 | \$38,875 | -- | -- | -- | -- | -- |
| 30 - 34 | 101 | 40 | 55 | 6 | -- | -- | -- | -- |
| | 40,265 | 30,175 | 45,596 | \$58,659 | -- | -- | -- | -- |
| 35 - 39 | 122 | 44 | 43 | 31 | 4 | -- | -- | -- |
| | 44,911 | 36,543 | 46,203 | 53,025 | \$60,172 | -- | -- | -- |
| 40 - 44 | 122 | 31 | 23 | 37 | 29 | 2 | -- | -- |
| | 46,230 | 24,689 | 46,255 | 55,150 | 56,999 | \$58,672 | -- | -- |
| 45 - 49 | 194 | 35 | 37 | 38 | 57 | 22 | 5 | -- |
| | 50,146 | 26,385 | 47,616 | 54,979 | 59,075 | 57,973 | \$62,216 | -- |
| 50 - 54 | 293 | 25 | 33 | 49 | 77 | 39 | 47 | 23 |
| | 55,268 | 22,054 | 50,120 | 52,929 | 60,154 | 60,334 | 60,858 | \$67,365 |
| 55 - 59 | 179 | 22 | 10 | 17 | 36 | 25 | 24 | 45 |
| | 55,964 | 20,683 | 54,131 | 52,273 | 58,967 | 60,228 | 63,478 | 66,234 |
| 60 - 64 | 37 | 8 | 7 | 1 | 4 | 5 | 4 | 8 |
| | 46,758 | 15,691 | 44,730 | 57,643 | 52,060 | 56,329 | 60,879 | 62,547 |
| 65 & over | 12 | 6 | -- | 1 | 3 | 2 | -- | -- |
| | 34,299 | 18,951 | -- | 48,242 | 43,673 | 59,307 | -- | -- |
| Total | 1,178 | 315 | 222 | 180 | 210 | 95 | 80 | 76 |
| | \$47,386 | \$24,631 | \$46,724 | \$53,964 | \$58,833 | \$59,492 | \$61,730 | \$66,189 |

SECTION 3: Supplemental Information for the Duluth Teachers' Retirement Fund Association

EXHIBIT B-2

**Members in Active Service as of June 30, 2004
By Age, Years of Service, and Average Projected Payroll - Old**

| Age | Years of Service | | | | | | | |
|-----------|------------------|---------|----------|----------|----------|----------|----------|-----------|
| | Total | Under 5 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30 & over |
| Under 25 | -- | -- | -- | -- | -- | -- | -- | -- |
| 25 - 29 | -- | -- | -- | -- | -- | -- | -- | -- |
| 30 - 34 | -- | -- | -- | -- | -- | -- | -- | -- |
| 35 - 39 | -- | -- | -- | -- | -- | -- | -- | -- |
| 40 - 44 | -- | -- | -- | -- | -- | -- | -- | -- |
| 45 - 49 | 21 | -- | -- | -- | 4 | 12 | 5 | -- |
| | \$63,581 | -- | -- | -- | \$77,875 | \$59,386 | \$62,216 | -- |
| 50 - 54 | 100 | -- | 1 | 2 | 2 | 26 | 46 | 23 |
| | 61,814 | -- | \$58,301 | \$46,621 | 56,088 | 60,319 | 60,869 | \$67,365 |
| 55 - 59 | 92 | -- | 1 | -- | 2 | 20 | 24 | 45 |
| | 63,412 | -- | 16,252 | -- | 65,865 | 59,098 | 63,478 | 66,234 |
| 60 - 64 | 17 | -- | -- | -- | 2 | 3 | 4 | 8 |
| | 59,924 | -- | -- | -- | 45,619 | 61,193 | 60,879 | 62,547 |
| 65 & over | 2 | -- | -- | -- | -- | 2 | -- | -- |
| | 59,307 | -- | -- | -- | -- | 59,307 | -- | -- |
| Total | 232 | -- | 2 | 2 | 10 | 63 | 79 | 76 |
| | \$62,448 | -- | \$37,277 | \$46,621 | \$64,664 | \$59,763 | \$61,748 | \$66,188 |

SECTION 3: Supplemental Information for the Duluth Teachers' Retirement Fund Association

EXHIBIT B-3

**Members in Active Service as of June 30, 2004
By Age, Years of Service, and Average Projected Payroll - New**

| Age | Years of Service | | | | | | | |
|-----------|------------------|----------|----------|----------|----------|----------|----------|-----------|
| | Total | Under 5 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30 & over |
| Under 25 | 38 | 38 | -- | -- | -- | -- | -- | -- |
| | \$17,154 | \$17,154 | -- | -- | -- | -- | -- | -- |
| 25 - 29 | 80 | 66 | 14 | -- | -- | -- | -- | -- |
| | 23,771 | 20,568 | \$38,875 | -- | -- | -- | -- | -- |
| 30 - 34 | 101 | 40 | 55 | 6 | -- | -- | -- | -- |
| | 40,265 | 30,175 | 45,596 | \$58,659 | -- | -- | -- | -- |
| 35 - 39 | 122 | 44 | 43 | 31 | 4 | -- | -- | -- |
| | 44,911 | 36,543 | 46,203 | 53,025 | \$60,172 | -- | -- | -- |
| 40 - 44 | 122 | 31 | 23 | 37 | 29 | 2 | -- | -- |
| | 46,230 | 24,689 | 46,255 | 55,150 | 56,999 | \$58,672 | -- | -- |
| 45 - 49 | 173 | 35 | 37 | 38 | 53 | 10 | -- | -- |
| | 48,515 | 26,385 | 47,616 | 54,979 | 57,656 | 56,279 | -- | -- |
| 50 - 54 | 193 | 25 | 32 | 47 | 75 | 13 | 1 | -- |
| | 51,876 | 22,054 | 49,865 | 53,197 | 60,262 | 60,363 | \$60,340 | -- |
| 55 - 59 | 87 | 22 | 9 | 17 | 34 | 5 | -- | -- |
| | 48,087 | 20,683 | 58,339 | 52,273 | 58,562 | 64,749 | -- | -- |
| 60 - 64 | 20 | 8 | 7 | 1 | 2 | 2 | -- | -- |
| | 35,567 | 15,691 | 44,730 | 57,643 | 58,502 | 49,032 | -- | -- |
| 65 & over | 10 | 6 | -- | 1 | 3 | -- | -- | -- |
| | 29,297 | 18,951 | -- | 48,242 | 43,673 | -- | -- | -- |
| Total | 946 | 315 | 220 | 178 | 200 | 32 | 1 | -- |
| | \$43,692 | \$24,631 | \$46,810 | \$54,047 | \$58,541 | \$58,958 | \$60,340 | -- |

SECTION 3: Supplemental Information for the Duluth Teachers' Retirement Fund Association

**EXHIBIT C-1
Retired Participants as of June 30, 2004
By Age, Years Retired and Average Annual Benefit - Total**

| Age | Years Retired | | | | | | | | |
|-----------|---------------|----------|----------|----------|----------|---------|---------|----------|-----------|
| | Total | Under 5 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35 & over |
| Under 45 | 1 | 1 | -- | -- | -- | -- | -- | -- | -- |
| | \$17,642 | \$17,642 | -- | -- | -- | -- | -- | -- | -- |
| 45 - 49 | 1 | -- | 1 | -- | -- | -- | -- | -- | -- |
| | 6,416 | -- | \$6,416 | -- | -- | -- | -- | -- | -- |
| 50 - 54 | 1 | -- | 1 | -- | -- | -- | -- | -- | -- |
| | 13,509 | -- | 13,509 | -- | -- | -- | -- | -- | -- |
| 55 - 59 | 96 | 94 | 2 | -- | -- | -- | -- | -- | -- |
| | 24,660 | 25,130 | 2,553 | -- | -- | -- | -- | -- | -- |
| 60 - 64 | 215 | 113 | 101 | 1 | -- | -- | -- | -- | -- |
| | 19,175 | 19,385 | 18,979 | \$15,143 | -- | -- | -- | -- | -- |
| 65 - 69 | 212 | 35 | 93 | 83 | -- | -- | 1 | -- | -- |
| | 15,480 | 14,624 | 15,910 | 15,452 | -- | -- | \$7,812 | -- | -- |
| 70 - 74 | 192 | 4 | 28 | 109 | 51 | -- | -- | -- | -- |
| | 16,352 | 13,879 | 12,276 | 19,288 | \$12,507 | -- | -- | -- | -- |
| 75 - 79 | 150 | 1 | 2 | 39 | 79 | 29 | -- | -- | -- |
| | 14,664 | 977 | 21,401 | 16,497 | 16,444 | \$7,357 | -- | -- | -- |
| 80 - 84 | 89 | -- | -- | 2 | 30 | 47 | 10 | -- | -- |
| | 11,627 | -- | -- | 26,708 | 11,896 | 11,944 | 6,313 | -- | -- |
| 85 - 89 | 41 | -- | -- | -- | 1 | 20 | 17 | 3 | -- |
| | 8,968 | -- | -- | -- | 1,295 | 9,213 | 9,814 | \$5,103 | -- |
| 90 & Over | 38 | -- | -- | -- | -- | -- | 20 | 14 | 4 |
| | 10,706 | -- | -- | -- | -- | -- | 9,274 | 12,456 | \$11,739 |
| Total | 1,036 | 248 | 228 | 234 | 161 | 96 | 48 | 17 | 4 |
| | \$16,368 | \$20,721 | \$16,702 | \$17,508 | \$14,255 | \$9,989 | \$8,818 | \$11,159 | \$11,739 |

SECTION 3: Supplemental Information for the Duluth Teachers' Retirement Fund Association

**EXHIBIT C-2
Retired Participants as of June 30, 2004
By Age, Years Retired and Average Annual Benefit - Old**

| Age | Years Retired | | | | | | | | |
|-----------|---------------|----------|----------|----------|----------|---------|---------|----------|-----------|
| | Total | Under 5 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35 & over |
| Under 45 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 45 - 49 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 50 - 54 | 1 | -- | 1 | -- | -- | -- | -- | -- | -- |
| 55 - 59 | \$13,509 | -- | \$13,509 | -- | -- | -- | -- | -- | -- |
| 60 - 64 | 53 | 52 | 1 | -- | -- | -- | -- | -- | -- |
| 65 - 69 | 22,682 | \$23,044 | 3,817 | -- | -- | -- | -- | -- | -- |
| 70 - 74 | 82 | 37 | 45 | -- | -- | -- | -- | -- | -- |
| 75 - 79 | 14,923 | 14,888 | 14,952 | -- | -- | -- | -- | -- | -- |
| 80 - 84 | 89 | 2 | 46 | 40 | -- | -- | 1 | -- | -- |
| 85 - 89 | 12,881 | 26,168 | 10,951 | \$14,563 | -- | -- | \$7,812 | -- | -- |
| 90 & Over | 54 | -- | 4 | 29 | 21 | -- | -- | -- | -- |
| Total | 12,013 | -- | 6,087 | 15,326 | \$8,567 | -- | -- | -- | -- |
| | 57 | -- | -- | 1 | 30 | 26 | -- | -- | -- |
| | 10,350 | -- | -- | 4,027 | 13,900 | \$6,498 | -- | -- | -- |
| | 61 | -- | -- | -- | 13 | 38 | 10 | -- | -- |
| | 10,391 | -- | -- | -- | 11,793 | 10,985 | 6,313 | -- | -- |
| | 40 | -- | -- | -- | 1 | 19 | 17 | 3 | -- |
| | 8,664 | -- | -- | -- | 1,295 | 8,585 | 9,814 | \$5,103 | -- |
| | 38 | -- | -- | -- | -- | -- | 20 | 14 | 4 |
| | 10,706 | -- | -- | -- | -- | -- | 9,274 | 12,456 | \$11,739 |
| Total | 475 | 91 | 97 | 70 | 65 | 83 | 48 | 17 | 4 |
| | \$13,077 | \$19,796 | \$12,559 | \$14,729 | \$11,562 | \$9,030 | \$8,818 | \$11,159 | \$11,739 |

SECTION 3: Supplemental Information for the Duluth Teachers' Retirement Fund Association

**EXHIBIT C-3
Retired Participants as of June 30, 2004
By Age, Years Retired and Average Annual Benefit - New**

| Age | Years Retired | | | | | | | | |
|------------|---------------|----------|----------|----------|----------|----------|-------|-------|-----------|
| | Total | Under 5 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35 & over |
| 45 & Under | 1 | 1 | -- | -- | -- | -- | -- | -- | -- |
| | \$17,642 | \$17,642 | -- | -- | -- | -- | -- | -- | -- |
| 45 - 49 | 1 | -- | 1 | -- | -- | -- | -- | -- | -- |
| | 6,416 | -- | \$6,416 | -- | -- | -- | -- | -- | -- |
| 50 - 54 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 55 - 59 | 43 | 42 | 1 | -- | -- | -- | -- | -- | -- |
| | 27,098 | 27,713 | 1,288 | -- | -- | -- | -- | -- | -- |
| 60 - 64 | 133 | 76 | 56 | 1 | -- | -- | -- | -- | -- |
| | 21,796 | 21,574 | 22,215 | \$15,143 | -- | -- | -- | -- | -- |
| 65 - 69 | 123 | 33 | 47 | 43 | -- | -- | -- | -- | -- |
| | 17,361 | 13,925 | 20,764 | 16,279 | -- | -- | -- | -- | -- |
| 70 - 74 | 138 | 4 | 24 | 80 | 30 | -- | -- | -- | -- |
| | 18,049 | 13,879 | 13,308 | 20,724 | \$15,265 | -- | -- | -- | -- |
| 75 - 79 | 93 | 1 | 2 | 38 | 49 | 3 | -- | -- | -- |
| | 17,307 | 977 | 21,401 | 16,825 | 18,001 | \$14,802 | -- | -- | -- |
| 80 - 84 | 28 | -- | -- | 2 | 17 | 9 | -- | -- | -- |
| | 14,319 | -- | -- | 26,708 | 11,974 | 15,994 | -- | -- | -- |
| 85 - 89 | 1 | -- | -- | -- | -- | 1 | -- | -- | -- |
| | 21,144 | -- | -- | -- | -- | 21,144 | -- | -- | -- |
| 90 & Over | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Total | 561 | 157 | 131 | 164 | 96 | 13 | -- | -- | -- |
| | \$19,155 | \$21,256 | \$19,770 | \$18,694 | \$16,079 | \$16,115 | -- | -- | -- |

SECTION 3: Supplemental Information for the Duluth Teachers' Retirement Fund Association

**EXHIBIT D-1
 Disabled Members as of June 30, 2004
 By Age, Years Disabled and Average Annual Benefit - Total**

| Age | Years Disabled | | | | | | | | |
|-----------|----------------|----------|----------|----------|---------|-------|-------|-------|-----------|
| | Total | Under 5 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35 & over |
| Under 45 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 45 - 49 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 50 - 54 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 55 - 59 | 6 | -- | 3 | 1 | 2 | -- | -- | -- | -- |
| 60 - 64 | \$11,837 | -- | \$9,991 | \$25,027 | \$8,011 | -- | -- | -- | -- |
| 65 - 69 | 8 | 4 | 3 | 1 | -- | -- | -- | -- | -- |
| 70 - 74 | 15,600 | \$13,669 | 17,672 | 17,105 | -- | -- | -- | -- | -- |
| 75 - 79 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 80 - 84 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 85 - 89 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 90 & Over | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Total | 14 | 4 | 6 | 2 | 2 | -- | -- | -- | -- |
| | \$13,987 | \$13,669 | \$13,832 | \$21,067 | \$8,011 | -- | -- | -- | -- |

SECTION 3: Supplemental Information for the Duluth Teachers' Retirement Fund Association

**EXHIBIT D-2
Disabled Members as of June 30, 2004
By Age, Years Disabled and Average Annual Benefit - Old**

| Age | Years Disabled | | | | | | | | |
|-----------|----------------|---------|-----|-------|---------------|-------|-------|-------|-----------|
| | Total | Under 5 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35 & over |
| Under 45 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 45 - 49 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 50 - 54 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 55 - 59 | 1 \$12,915 | -- | -- | -- | 1 \$12,915 | -- | -- | -- | -- |
| 60 - 64 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 65 - 69 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 70 - 74 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 75 - 79 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 80 - 84 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 85 - 89 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 90 & Over | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Total | 1 \$12,915 | -- | -- | -- | 1 \$12,915 | -- | -- | -- | -- |

SECTION 3: Supplemental Information for the Duluth Teachers' Retirement Fund Association

**EXHIBIT D-3
Disabled Members as of June 30, 2004
By Age, Years Disabled and Average Annual Benefit - New**

| Age | Years Disabled | | | | | | | | |
|------------|----------------|----------|----------|----------|---------|-------|-------|-------|-----------|
| | Total | Under 5 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35 & over |
| 45 & Under | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 45 - 49 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 50 - 54 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 55 - 59 | 5 | -- | 3 | 1 | 1 | -- | -- | -- | -- |
| 60 - 64 | \$11,621 | -- | \$9,991 | \$25,027 | \$3,107 | -- | -- | -- | -- |
| 65 - 69 | 8 | 4 | 3 | 1 | -- | -- | -- | -- | -- |
| 70 - 74 | 15,600 | \$13,669 | 17,672 | 17,105 | -- | -- | -- | -- | -- |
| 75 - 79 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 80 - 84 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 85 - 89 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 90 & Over | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Total | 13 | 4 | 6 | 2 | 1 | -- | -- | -- | -- |
| | \$14,070 | \$13,669 | \$13,832 | \$21,067 | \$3,107 | -- | -- | -- | -- |

SECTION 3: Supplemental Information for the Duluth Teachers' Retirement Fund Association

EXHIBIT E-1

Beneficiaries as of June 30, 2004

By Age, Years Since Death and Average Annual Benefit - Total

| Age | Years Since Death | | | | | | | | |
|-----------|-------------------|----------|----------|----------|----------|----------|----------|----------|-----------|
| | Total | Under 5 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35 & over |
| Under 45 | 6 | 2 | 4 | -- | -- | -- | -- | -- | -- |
| | \$5,442 | \$5,248 | \$5,540 | -- | -- | -- | -- | -- | -- |
| 45 - 49 | 3 | 1 | 1 | 1 | -- | -- | -- | -- | -- |
| | 4,046 | 475 | 458 | \$11,205 | -- | -- | -- | -- | -- |
| 50 - 54 | 2 | 1 | -- | -- | 1 | -- | -- | -- | -- |
| | 3,774 | 2,672 | -- | -- | \$4,876 | -- | -- | -- | -- |
| 55 - 59 | 2 | 1 | -- | 1 | -- | -- | -- | -- | -- |
| | 12,944 | 5,852 | -- | 20,034 | -- | -- | -- | -- | -- |
| 60 - 64 | 6 | 1 | 3 | 2 | -- | -- | -- | -- | -- |
| | 23,634 | 33,586 | 20,866 | 22,809 | -- | -- | -- | -- | -- |
| 65 - 69 | 11 | -- | 3 | 8 | -- | -- | -- | -- | -- |
| | 13,629 | -- | 9,575 | 15,150 | -- | -- | -- | -- | -- |
| 70 - 74 | 18 | 2 | -- | 6 | 9 | -- | 1 | -- | -- |
| | 15,870 | 21,037 | -- | 19,103 | 12,525 | -- | \$16,246 | -- | -- |
| 75 - 79 | 16 | -- | -- | 4 | 7 | 4 | 1 | -- | -- |
| | 14,891 | -- | -- | 14,127 | 16,725 | \$14,720 | 5,793 | -- | -- |
| 80 - 84 | 10 | -- | -- | 1 | 2 | 5 | -- | 2 | -- |
| | 10,697 | -- | -- | 1,813 | 19,529 | 9,811 | -- | \$8,521 | -- |
| 85 - 89 | 8 | -- | -- | -- | -- | 1 | 4 | 2 | 1 |
| | 10,291 | -- | -- | -- | -- | 19,292 | 9,132 | 9,502 | \$7,508 |
| 90 & Over | 5 | -- | -- | -- | -- | -- | 1 | 3 | 1 |
| | 10,677 | -- | -- | -- | -- | -- | 10,711 | 11,407 | 8,453 |
| Total | 87 | 8 | 11 | 23 | 19 | 10 | 7 | 7 | 2 |
| | \$13,064 | \$11,894 | \$10,358 | \$16,130 | \$14,407 | \$12,723 | \$9,897 | \$10,038 | \$7,980 |

SECTION 3: Supplemental Information for the Duluth Teachers' Retirement Fund Association

EXHIBIT E-2
Beneficiaries as of June 30, 2004
By Age, Years Since Death and Average Annual Benefit - Old

| Age | Years Since Death | | | | | | | | |
|-----------|-------------------|---------|---------|----------|----------|----------|----------|----------|-----------|
| | Total | Under 5 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35 & over |
| Under 45 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 45 - 49 | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| 50 - 54 | 1 | -- | -- | -- | 1 | -- | -- | -- | -- |
| 55 - 59 | \$4,876 | -- | -- | -- | \$4,876 | -- | -- | -- | -- |
| 60 - 64 | 20,034 | -- | -- | \$20,034 | -- | -- | -- | -- | -- |
| 65 - 69 | 2 | -- | -- | 2 | -- | -- | -- | -- | -- |
| 70 - 74 | 22,809 | -- | -- | 22,809 | -- | -- | -- | -- | -- |
| 75 - 79 | 5 | -- | 2 | 3 | -- | -- | -- | -- | -- |
| 80 - 84 | 7,754 | -- | \$2,478 | 11,271 | -- | -- | -- | -- | -- |
| 85 - 89 | 4 | -- | -- | 1 | 2 | -- | 1 | -- | -- |
| 90 & Over | 10,734 | -- | -- | 2,712 | 11,989 | -- | \$16,246 | -- | -- |
| Total | 7 | -- | -- | -- | 2 | 4 | 1 | -- | -- |
| | 13,781 | -- | -- | -- | 15,898 | \$14,720 | 5,793 | -- | -- |
| | 8 | -- | -- | -- | 2 | 4 | -- | 2 | -- |
| | 11,418 | -- | -- | -- | 19,529 | 8,812 | -- | \$8,521 | -- |
| | 7 | -- | -- | -- | -- | -- | 4 | 2 | 1 |
| | 9,006 | -- | -- | -- | -- | -- | 9,132 | 9,502 | \$7,508 |
| | 5 | -- | -- | -- | -- | -- | 1 | 3 | 1 |
| | 10,677 | -- | -- | -- | -- | -- | 10,711 | 11,407 | 8,453 |
| Total | 40 | -- | 2 | 7 | 7 | 8 | 7 | 7 | 2 |
| | \$11,412 | -- | \$2,478 | \$14,597 | \$14,244 | \$11,766 | \$9,897 | \$10,038 | \$7,980 |

SECTION 3: Supplemental Information for the Duluth Teachers' Retirement Fund Association

**EXHIBIT E-3
Beneficiaries as of June 30, 2004
By Age, Years Since Death and Average Annual Benefit - New**

| Age | Years Since Death | | | | | | | | |
|-----------|-------------------|----------|----------|----------|----------|----------|-------|-------|-----------|
| | Total | Under 5 | 5-9 | 10-14 | 15-19 | 20-24 | 25-29 | 30-34 | 35 & over |
| Under 45 | 6 | 2 | 4 | -- | -- | -- | -- | -- | -- |
| | \$5,442 | \$5,248 | \$5,540 | -- | -- | -- | -- | -- | -- |
| 45 - 49 | 3 | 1 | 1 | 1 | -- | -- | -- | -- | -- |
| | 4,046 | 475 | 458 | \$11,205 | -- | -- | -- | -- | -- |
| 50 - 54 | 1 | 1 | -- | -- | -- | -- | -- | -- | -- |
| | 2,672 | 2,672 | -- | -- | -- | -- | -- | -- | -- |
| 55 - 59 | 1 | 1 | -- | -- | -- | -- | -- | -- | -- |
| | 5,852 | 5,852 | -- | -- | -- | -- | -- | -- | -- |
| 60 - 64 | 4 | 1 | 3 | -- | -- | -- | -- | -- | -- |
| | 24,046 | 33,586 | 20,866 | -- | -- | -- | -- | -- | -- |
| 65 - 69 | 6 | -- | 1 | 5 | -- | -- | -- | -- | -- |
| | 18,526 | -- | 23,770 | 17,477 | -- | -- | -- | -- | -- |
| 70 - 74 | 14 | 2 | -- | 5 | 7 | -- | -- | -- | -- |
| | 17,338 | 21,037 | -- | 22,381 | \$12,679 | -- | -- | -- | -- |
| 75 - 79 | 9 | -- | -- | 4 | 5 | -- | -- | -- | -- |
| | 15,754 | -- | -- | 14,127 | 17,056 | -- | -- | -- | -- |
| 80 - 84 | 2 | -- | -- | 1 | -- | 1 | -- | -- | -- |
| | 7,810 | -- | -- | 1,813 | -- | \$13,807 | -- | -- | -- |
| 85 - 89 | 1 | -- | -- | -- | -- | 1 | -- | -- | -- |
| | 19,292 | -- | -- | -- | -- | 12,292 | -- | -- | -- |
| 90 & Over | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| | -- | -- | -- | -- | -- | -- | -- | -- | -- |
| Total | 47 | 8 | 9 | 16 | 12 | 2 | -- | -- | -- |
| | \$14,470 | \$11,894 | \$12,109 | \$16,801 | \$14,503 | \$16,550 | -- | -- | -- |

SECTION 3: Supplemental Information for the Duluth Teachers' Retirement Fund Association

EXHIBIT F

Reconciliation of Member Data

| | Active Members | Vested Terminated Members | Other Non- Vested Terminated Members | Retired Participants | Disableds | Beneficiaries | Total |
|----------------------------------|---------------------------|--|---|---------------------------------|------------------|----------------------|--------------|
| A. Number as of June 30, 2003 | 1,373 | 187 | 826 | 1,019 | 14 | 74 | 3,493 |
| B. Additions | 102 | 137 | 112 | 42 | 1 | 7 | 401 |
| C. Deletions: | | | | | | | |
| 1. Retirements | -31 | -9 | -1 | N/A | 0 | 0 | -41 |
| 2. Disability | 0 | 0 | 0 | 0 | N/A | 0 | 0 |
| 3. Died with beneficiary | 0 | 0 | 0 | -7 | 0 | N/A | -7 |
| 4. Died without beneficiary | 0 | 0 | 0 | -19 | 0 | 0 | -19 |
| 5. Terminated - deferred | -137 | N/A | 0 | 0 | 0 | 0 | -137 |
| 6. Terminated – other non-vested | -112 | 0 | N/A | 0 | 0 | 0 | -112 |
| 7. Refunds | -17 | -3 | -276 | 0 | 0 | 0 | -296 |
| 8. Rehired as active | 0 | -2 | -13 | 0 | 0 | 0 | -15 |
| D. Data adjustments | <u>0</u> | <u>2</u> | <u>2</u> | <u>1</u> | <u>-1</u> | <u>6</u> | <u>10</u> |
| E. Number as of June 30, 2004 | 1,178 | 312 | 650 | 1,036 | 14 | 87 | 3,277 |

SECTION 3: Supplemental Information for the Duluth Teachers' Retirement Fund Association

EXHIBIT G

Schedule of Pensioners and Beneficiaries Added to and Removed from Rolls

| Fiscal Year | Added to Rolls | | Removed from Rolls | | Rolls – End of Year | | % Increase in Annual Allowances | Average Annual Allowances |
|--------------------|-----------------------|--------------------------|---------------------------|--------------------------|----------------------------|--------------------------|--|----------------------------------|
| | Number | Annual Allowances | Number | Annual Allowances | Number | Annual Allowances | | |
| 1998 | 58 | \$898,675 | 27 | \$242,860 | 910 | \$9,744,631 | 12.3% | \$10,708 |
| 1999 | 61 | 1,263,965 | 32 | 251,972 | 939 | 10,926,102 | 12.1 | 11,636 |
| 2000 | 90 | 2,519,000 | 33 | 633,465 | 996 | 12,359,721 | 13.1 | 12,409 |
| 2001 | 88 | 2,458,668 | 26 | 547,671 | 1,058 | 14,341,500 | 16.0 | 13,555 |
| 2002 | 56 | 1,817,094 | 29 | 800,165 | 1,085 | 15,968,396 | 11.3 | 14,717 |
| 2003 | 41 | 1,191,364 | 19 | 574,944 | 1,107 | 16,767,603 | 5.0 | 15,147 |
| 2004 | 56 | 1,203,279 | 26 | 303,856 | 1,137 | 18,240,239 | 8.8 | 16,042 |

SECTION 3: Supplemental Information for the Duluth Teachers' Retirement Fund Association

EXHIBIT H

Statement of Change in Net Plan Assets for Year Ended June 30, 2004

| | Market Value | Cost Value |
|---|---------------------|-------------------|
| A. Assets available at beginning of period | \$231,247,693 | \$233,777,047 |
| B. Additions: | | |
| 1. Member contributions | \$2,991,801 | \$2,991,801 |
| 2. Employer contributions | 2,826,730 | 2,826,730 |
| 3. Supplemental contribution | 0 | 0 |
| 4. Investment income | 7,238,868 | 7,238,868 |
| 5. Investment expenses | -1,239,283 | -1,239,283 |
| 6. Net realized gain/(loss) | 13,213,486 | 13,213,486 |
| 7. Other | 143,074 | 143,074 |
| 8. Net change in unrealized gain/(loss) | <u>20,264,186</u> | <u>0</u> |
| 9. Total Additions | \$45,438,862 | \$25,174,676 |
| C. Operating Expenses: | | |
| 1. Service retirements | \$16,052,665 | \$16,052,665 |
| 2. Disability benefits | 194,061 | 194,061 |
| 3. Survivor benefits | 1,100,850 | 1,100,850 |
| 4. Refunds | 58,760 | 58,760 |
| 5. Administrative expenses | <u>448,704</u> | <u>448,704</u> |
| 6. Total operating expenses | \$17,855,040 | \$17,855,040 |
| D. Other changes in reserves | 0 | 0 |
| E. Assets available at end of period | \$258,831,515 | \$241,096,683 |
| F. Determination of current year unrecognized asset return | | |
| 1. Average balance: | | |
| (a) Assets available at BOY: (A) | | \$231,247,693 |
| (b) Assets available at EOY: (E) | | 258,831,515 |
| (c) Average balance [(a) + (b) – Net Investment Income] / 2 [Net Investment Income: (B.4) + (B.6) + (B.7) + (B.8) + (B.9)] | | 225,229,439 |
| 2. Expected return: 8.50% x (F.1.(c)) | | 19,144,502 |
| 3. Actual return: (B.4) + (B.6) + (B.7) + (B.8) + (B.9) | | <u>39,620,331</u> |
| 4. Current year unrecognized asset return: (F.3) – (F.2) | | \$20,475,829 |

SECTION 3: Supplemental Information for the Duluth Teachers' Retirement Fund Association

EXHIBIT I

Statement of Plan Net Assets for Year Ended June 30, 2004

| | Market Value | Cost Value |
|--|----------------------|----------------------|
| Assets in trust | | |
| Cash, equivalents, short-term securities | \$47,887,105 | \$47,887,105 |
| Investments: | | |
| Fixed income | \$131,662,560 | \$132,105,430 |
| Equity | 100,372,507 | 82,194,805 |
| Real estate and mortgage loans | 2,390,846 | 2,390,846 |
| Invested securities lending collateral | 58,302,130 | 58,302,130 |
| Other assets | <u>387,925</u> | <u>387,925</u> |
| Total assets in trust | \$341,003,073 | \$323,268,241 |
| Assets receivable | \$4,066,281 | \$4,066,281 |
| Liabilities | | |
| Invested securities lending collateral | -58,302,130 | -58,302,130 |
| Other | <u>-27,935,709</u> | <u>-27,935,709</u> |
| Total liabilities | -\$86,237,839 | -\$86,237,839 |
| Net assets held in trust for pension benefits | | |
| Member reserves | \$30,448,460 | \$30,448,460 |
| Future reserves | <u>228,383,055</u> | <u>210,648,223</u> |
| Total assets available for benefits | \$258,831,515 | \$241,096,683 |
| Net Assets at Market/Cost Value | <u>\$258,831,515</u> | <u>\$241,096,683</u> |

SECTION 3: Supplemental Information for the Duluth Teachers' Retirement Fund Association

EXHIBIT J

Development of the Fund Through June 30, 2004

| Year Ended June 30 | Employer Contributions | Employee Contributions | Net Investment Return* | Administrative Expenses | Benefit Payments | Actuarial Value of Assets at End of Year |
|-------------------------------|-----------------------------------|-----------------------------------|---------------------------------------|------------------------------------|-----------------------------|---|
| 2002 | -- | -- | -- | -- | -- | \$280,515,000 |
| 2003 | \$2,933,000 | \$3,299,000 | \$9,174,000 | \$445,000 | \$17,009,000 | 278,467,000 |
| 2004 | 2,826,730 | 2,991,801 | 10,518,561 | 448,704 | 17,406,336 | 276,949,052 |

* *Net Investment Return on an Actuarial Value of Assets basis, and net of investment fees.*

SECTION 3: Supplemental Information for the Duluth Teachers' Retirement Fund Association

EXHIBIT K

Development of Unfunded/(Overfunded) Actuarial Accrued Liability for Year Ended June 30, 2004

| | | |
|--|-------------------|---------------------|
| 1. Unfunded/(Overfunded) actuarial accrued liability at beginning of year | | \$12,642,000 |
| 2. Normal cost at beginning of year, including expenses | | 5,260,704 |
| 3. Total contributions | | 5,818,531 |
| 4. Interest | | |
| (a) For whole year on (1) + (2) | \$1,521,730 | |
| (b) For half year on (3) | <u>247,288</u> | |
| (c) Total interest: (4a) – (4b) | | <u>1,274,442</u> |
| 5. Expected unfunded/(overfunded) actuarial accrued liability: (1) + (2) – (3) + (4) | | \$13,358,615 |
| 6. Changes due to (gain)/loss from: | | |
| (a) Investments | \$12,639,583 | |
| (b) Demographics* | <u>-1,242,805</u> | |
| (c) Total changes due to (gain)/loss | | <u>\$11,396,778</u> |
| 7. Unfunded/(Overfunded) actuarial accrued liability at end of year | | <u>\$24,755,393</u> |

* Includes (gain)/loss due to age/service retirements, disability, mortality (pre and post-retirement), withdrawal and salary increases.

SECTION 3: Supplemental Information for the Duluth Teachers' Retirement Fund Association

EXHIBIT L

Definitions of Pension Terms

The following list defines certain technical terms for the convenience of the reader:

Assumptions or Actuarial Assumptions:

The estimates on which the cost of the Fund is calculated including:

- (a) Investment return — the rate of investment yield that the Fund will earn over the long-term future;
- (b) Mortality rates — the death rates of employees and pensioners; life expectancy is based on these rates;
- (c) Retirement rates — the rate or probability of retirement at a given age;
- (d) Turnover rates — the rates at which employees of various ages are expected to leave employment for reasons other than death, disability, or retirement.

Normal Cost:

The amount of contributions required to fund the benefit allocated to the current year of service.

Actuarial Accrued Liability For Actives:

The equivalent of the accumulated normal costs allocated to the years before the valuation date.

Actuarial Accrued Liability For Pensioners:

The single sum value of lifetime benefits to existing pensioners. This sum takes account of life expectancies appropriate to the ages of the pensioners and the interest that the sum is expected to earn before it is entirely paid out in benefits.

Unfunded Actuarial Accrued Liability:

The extent to which the actuarial accrued liability of the Fund exceeds the assets of the Fund. There is a wide range of approaches to paying off the unfunded actuarial accrued liability, from meeting the interest accrual only to amortizing it over a specific period of time.

SECTION 3: Supplemental Information for the Duluth Teachers' Retirement Fund Association

Amortization of the Unfunded

Actuarial Accrued Liability: Payments made over a period of years equal in value to the Fund's unfunded actuarial accrued liability.

Investment Return:

The rate of earnings of the Fund from its investments, including interest, dividends and capital gain and loss adjustments, computed as a percentage of the average value of the fund. For actuarial purposes, the investment return often reflects a smoothing of the capital gains and losses to avoid significant swings in the value of assets from one year to the next.

Accrued Benefit Funded Ratio:

A current year funded status that measures the percent of benefits covered by Current Assets. This ratio is based on benefits earned to the valuation date (accrued service) and includes future salary increases to retirement. The liability for these benefits is defined as the Current Benefit Obligations. The Accrued Benefit Funded Ratio is calculated as the Actuarial Value of Assets (Current Assets) divided by the Current Benefit Obligations.

Projected Benefit Funded Ratio:

A projected funded status that measures contribution sufficiency/deficiency, which is based on a present value of all plan benefits for the lifetime of all plan members. The liability for these benefits is defined as the Current and Expected Future Benefit Obligations, or Present Value of Benefits. The Current and Expected Future Assets are determined as the sum of the Actuarial Value of Assets (Current Assets), the Present Value of Expected Future Statutory Supplemental Contributions and the Present Value of Future Normal Costs. The Projected Benefit Funded Ratio is calculated as the Current and Expected Future Assets divided by the Current and Expected Future Benefit Obligations. If the ratio is equal to or more than 100%, there is a contribution sufficiency, and if it is less than 100% there is a contribution deficiency.

SECTION 4: Reporting Information for the Duluth Teachers' Retirement Fund Association

EXHIBIT I

Summary of Actuarial Valuation Results

The valuation was made with respect to the following data supplied to us:

| | | |
|---|-----|-------|
| 1. Pensioners as of the valuation date (including 87 beneficiaries in pay status) | | 1,137 |
| 2. Members inactive during year ended June 30, 2004 with vested rights | | 312 |
| 3. Members active during the year ended June 30, 2004 | | 1,178 |
| Fully vested | 932 | |
| Not vested | 246 | |
| 4. Other non-vested terminated members as of June 30, 2004 | | 650 |

SECTION 4: Reporting Information for the Duluth Teachers' Retirement Fund Association

EXHIBIT I (continued)

Summary of Actuarial Valuation Results

| | Actuarial Present Value of Projected Benefits | Actuarial Present Value of Future Normal Costs | Actuarial Accrued Liability |
|--|--|---|--|
| A. Determination of Actuarial Accrued Liability | | | |
| 1. Active members: | | | |
| (a) Retirement benefits | \$146,330,261 | \$34,179,057 | \$112,151,204 |
| (b) Disability benefits | 1,350,000 | 503,667 | 846,333 |
| (c) Death benefits | 1,991,268 | 677,815 | 1,313,453 |
| (d) Withdrawal benefits | <u>5,861,422</u> | <u>4,891,788</u> | <u>969,634</u> |
| (e) Total | \$155,532,951 | \$40,252,327 | \$115,280,624 |
| 2. Vested terminated members | \$14,897,923 | -- | \$14,897,923 |
| 3. Other non-vested terminated members | 857,483 | -- | 857,483 |
| 4. Annuitants | <u>170,668,415</u> | <u>--</u> | <u>170,668,415</u> |
| 5. Total | \$341,956,772 | \$40,252,327 | \$301,704,445 |
| B. Determination of Unfunded Actuarial Accrued Liability | | | |
| 1. Actuarial Accrued Liability | | | \$301,704,445 |
| 2. Actuarial Value of Assets | | | <u>276,949,052</u> |
| 3. Unfunded Actuarial Accrued Liability: (1) – (2) | | | \$24,755,393 |
| C. Determination of Supplemental Contribution Rate | | | |
| 1. Present value of future payrolls through the amortization date of June 30, 2032 | | | \$994,820,310 |
| 2. Supplemental contribution rate: (B.3) / (C.1) | | | 2.49% |

SECTION 4: Reporting Information for the Duluth Teachers' Retirement Fund Association

**EXHIBIT II
Actuarial Balance Sheet**

| | | | | |
|---|---------------|--------------------------|----------------------|---------------------|
| A. Current Assets | | | | \$276,949,052 |
| B. Expected Future Assets | | | | |
| 1. Present Value of Expected Future Statutory Supplemental Contributions | | | | \$16,613,499 |
| 2. Present Value of Future Normal Costs | | | | <u>40,252,327</u> |
| 3. Total Expected Future Assets | | | | \$56,865,826 |
| C. Total Current and Expected Future Assets | | | | \$333,814,878 |
| D. Current Benefit Obligations | | | | |
| | | <u>Non-Vested</u> | <u>Vested</u> | <u>Total</u> |
| 1. Benefit recipients: | | | | |
| (a) Retirement annuities | | -- | \$158,852,723 | \$158,852,723 |
| (b) Disability benefits | | -- | 1,941,520 | 1,941,520 |
| (c) Beneficiaries | | -- | 9,874,172 | 9,874,172 |
| 2. Vested terminated members | | -- | 14,897,923 | 14,897,923 |
| 3. Other non-vested terminated members | | -- | 857,483 | 857,483 |
| 4. Active members: | | | | |
| (a) Retirement benefits | \$346,626 | | 97,081,676 | 97,428,302 |
| (b) Disability benefits | 6,014 | | 861,742 | 867,756 |
| (c) Death benefits | 8,718 | | 1,257,600 | 1,266,318 |
| (d) Withdrawal benefits | <u>88,418</u> | | <u>3,385,556</u> | <u>3,473,974</u> |
| 5. Total Current Benefit Obligations | \$449,776 | | \$289,010,395 | \$289,460,171 |
| E. Expected Future Benefit Obligations | | | | <u>52,496,601</u> |
| F. Total Current and Expected Future Benefit Obligations - Present Value of Benefits: (D.5 + E) | | | | \$341,956,772 |
| G. Current Unfunded Actuarial Liability (D.5 - A) | | | | \$12,511,119 |
| H. Current and Future Unfunded Actuarial Liability (F - C) | | | | \$8,141,894 |

SECTION 4: Reporting Information for the Duluth Teachers' Retirement Fund Association

EXHIBIT III

Supplementary Information Required by the GASB – Schedule of Employer Contributions

| Plan Year Ended June 30 | Actuarially Required Contribution Rate (a) | Actual Covered Payroll (b) | Actual Member Contributions (c) | Annual Required Employer Contributions [(a) x (b)] – (c) = (d) | Actual Employer Contributions* (e) | Percentage Contributed (e) / (d) |
|--|---|---|--|---|---|---|
| 1991 | 10.70% | \$42,297,000 | \$2,043,000 | \$2,483,000 | \$2,449,000 | 98.63% |
| 1992 | 11.09 | 42,884,000 | 2,124,000 | 2,632,000 | 2,483,000 | 94.34 |
| 1993 | 11.42 | 43,282,000 | 2,126,000 | 2,817,000 | 2,506,000 | 88.96 |
| 1994 | 10.21 | 43,109,000 | 2,230,000 | 2,171,000 | 2,496,000 | 114.97 |
| 1995 | 10.36 | 46,528,000 | 2,144,000 | 2,676,000 | 2,694,000 | 100.67 |
| 1996 | 13.23 | 44,870,000 | 2,570,000 | 3,366,000 | 2,598,000 | 77.18 |
| 1997 | 13.60 | 46,770,000 | 2,644,000 | 3,717,000 | 2,708,000 | 72.85 |
| 1998 | 12.87 | 47,064,000 | 2,664,000 | 3,393,000 | 3,211,000 | 94.64 |
| 1999 | 10.24 | 52,176,000 | 3,118,000 | 2,225,000 | 3,507,000 | 157.62 |
| 2000 | 9.16 | 52,270,000 | 3,152,000 | 1,636,000 | 3,512,000 | 214.67 |
| 2001 | 8.51 | 51,996,000 | 3,141,000 | 1,284,000 | 3,497,000 | 272.35 |
| 2002 | 7.49 | 51,054,000 | 3,275,000 | 549,000 | 3,442,000 | 626.96 |
| 2003** | 9.85 | 50,656,000 | 3,299,000 | 1,691,000 | 2,933,000 | 173.45 |
| 2004 | 11.27 | 48,820,898 | 2,991,801 | 2,510,314 | 2,826,730 | 112.60 |

* Includes contributions from other sources (if applicable)

** Actuarially Required Contribution Rate prior to change in actuarial assumptions and plan provisions is 7.62%.

SECTION 4: Reporting Information for the Duluth Teachers' Retirement Fund Association

EXHIBIT IV

Supplementary Information Required by the GASB – Schedule of Funding Progress

| Actuarial Valuation Date | Actuarial Value of Assets (a) | Actuarial Accrued Liability (AAL) (b) | Unfunded/ (Overfunded) AAL (UAAL) (b) – (a) | Funded Ratio (a) / (b) | Actual Covered Payroll (Previous FY) (c) | UAAL as a Percentage of Covered Payroll [(b) – (a)] / (c) |
|---------------------------------|--------------------------------------|--|--|-------------------------------|---|--|
| 07/01/1991 | \$105,087,000 | \$117,582,000 | \$12,495,000 | 89.37% | \$42,297,000 | 29.54% |
| 07/01/1992 | 116,492,000 | 124,140,000 | 7,648,000 | 93.84 | 42,884,000 | 17.83 |
| 07/01/1993 | 130,856,000 | 132,700,000 | 1,844,000 | 98.61 | 43,282,000 | 4.26 |
| 07/01/1994 | 133,632,000 | 137,042,000 | 3,410,000 | 97.51 | 43,109,000 | 7.91 |
| 07/01/1995 | 142,852,000 | 173,965,000 | 31,113,000 | 82.12 | 46,528,000 | 66.87 |
| 07/01/1996 | 157,007,000 | 189,518,000 | 32,511,000 | 82.85 | 44,870,000 | 72.46 |
| 07/01/1997 | 170,059,000 | 197,820,000 | 27,761,000 | 85.97 | 46,770,000 | 59.36 |
| 07/01/1998 | 187,482,000 | 197,078,000 | 9,596,000 | 95.13 | 47,064,000 | 20.39 |
| 07/01/1999 | 218,699,000 | 220,540,000 | 1,841,000 | 99.17 | 52,176,000 | 3.53 |
| 07/01/2000 | 251,007,000 | 241,899,000 | -9,108,000 | 103.77 | 52,270,000 | -17.42 |
| 07/01/2001 | 273,618,000 | 254,255,000 | -19,363,000 | 107.62 | 51,996,000 | -37.24 |
| 07/01/2002 | 280,515,000 | 279,428,000 | -1,087,000 | 100.39 | 51,054,000 | -2.13 |
| 07/01/2003 | 278,467,000 | 291,109,000 | 12,642,000 | 95.66 | 50,656,000 | 24.96 |
| 07/01/2004 | 276,949,052 | 301,704,445 | 24,755,393 | 91.79 | 48,820,898 | 50.71 |

SECTION 4: Reporting Information for the Duluth Teachers' Retirement Fund Association

Exhibit V

Determination of Contribution Sufficiency – Total

| July 1, 2004 | | |
|---|---------------------------|----------------------|
| A. Statutory Contributions – Chapter 354A | Percent of Payroll | Dollar Amount |
| 1. Employee contributions | 5.50% | \$3,070,117 |
| 2. Employer contributions | <u>5.79</u> | <u>3,231,996</u> |
| 3. Total | <u>11.29%</u> | <u>\$6,302,113</u> |
| B. Required Contributions – Chapter 356 | Percent of Payroll | Dollar Amount |
| 1. Normal Cost: | | |
| (a) Retirement | 7.55% | \$4,214,487 |
| (b) Disability | 0.10 | 58,546 |
| (c) Death | 0.14 | 80,403 |
| (d) Withdrawal | <u>0.98</u> | <u>549,611</u> |
| (e) Total | <u>8.77%</u> | <u>\$4,903,047</u> |
| 2. Supplemental contribution amortization | 2.49% | \$1,389,926 |
| 3. Allowance for administrative expenses | <u>0.85</u> | <u>474,473</u> |
| 4. Total | <u>12.11%</u> | <u>\$6,767,446</u> |
| C. Contribution Sufficiency / (Deficiency): (A.3) – (B.4) | -0.82% | -\$465,333 |
| Projected annual payroll for fiscal year beginning on the valuation date | \$55,820,306 | |

SECTION 4: Reporting Information for the Duluth Teachers' Retirement Fund Association

Exhibit VI

Determination of Contribution Sufficiency – Old Plan

| July 1, 2004 | | |
|---|---------------------------|----------------------|
| A. Statutory Contributions – Chapter 354A | Percent of Payroll | Dollar Amount |
| 1. Employee contributions | 5.50% | \$796,834 |
| 2. Employer contributions | <u>5.79</u> | <u>838,848</u> |
| 3. Total | <u>11.29%</u> | <u>\$1,635,682</u> |
| B. Required Contributions – Chapter 356 | Percent of Payroll | Dollar Amount |
| 1. Normal Cost: | | |
| (a) Retirement | 6.69% | \$969,606 |
| (b) Disability | 0.09 | 13,011 |
| (c) Death | 0.12 | 17,028 |
| (d) Withdrawal | <u>1.17</u> | <u>169,235</u> |
| (e) Total | <u>8.07%</u> | <u>\$1,168,880</u> |
| Projected annual payroll for fiscal year beginning on the valuation date | \$14,487,882 | |

SECTION 4: Reporting Information for the Duluth Teachers' Retirement Fund Association

Exhibit VII

Determination of Contribution Sufficiency – New Plan

| July 1, 2004 | | |
|---|---------------------------|----------------------|
| A. Statutory Contributions – Chapter 354A | Percent of Payroll | Dollar Amount |
| 1. Employee contributions | 5.50% | \$2,273,283 |
| 2. Employer contributions | <u>5.79</u> | <u>2,393,147</u> |
| 3. Total | <u>11.29%</u> | <u>\$4,666,430</u> |
| B. Required Contributions – Chapter 356 | Percent of Payroll | Dollar Amount |
| 1. Normal Cost: | | |
| (a) Retirement | 7.85% | \$3,244,881 |
| (b) Disability | 0.11 | 45,536 |
| (c) Death | 0.15 | 63,377 |
| (d) Withdrawal | <u>0.92</u> | <u>380,376</u> |
| (e) Total | <u>9.03%</u> | <u>\$3,734,170</u> |
| Projected annual payroll for fiscal year beginning on the valuation date | \$41,332,424 | |

SECTION 4: Reporting Information for the Duluth Teachers' Retirement Fund Association

EXHIBIT VIII

Supplementary Information Required by the GASB

| | |
|--------------------------------------|---|
| Valuation date | July 1, 2004 |
| Actuarial cost method | Entry Age Normal |
| Amortization method | Level percentage of payroll, assuming payroll increases of 5.00% per annum |
| Remaining amortization period | 28 years remaining as of July 1, 2004 |
| Asset valuation method | Market Value, adjusted for amortization obligations receivable at the end of each fiscal year, less a percentage of the Unrecognized Asset Return determined at the close of each of the four preceding fiscal years. Unrecognized Asset Return is the difference between actual net return on Market Value of Assets and the asset return expected during that fiscal year (based on the assumed interest rate employed in the July 1 Actuarial Valuation of the fiscal year). |

Actuarial assumptions:

Investment rate of return:

| | |
|----------------------------|--|
| Pre-retirement | 8.50% per annum |
| Post-retirement | 6.50% per annum |
| Projected salary increases | Select and ultimate rates by age, with ultimate rates of 5.00% - 7.00% |

Plan membership:

| | |
|---|--------------|
| Pensioners and beneficiaries receiving benefits | 1,137 |
| Terminated vested members entitled to, but not yet receiving benefits | 312 |
| Other terminated non-vested members | 650 |
| Active members | <u>1,178</u> |
| Total | 3,277 |

SECTION 4: Reporting Information for the Duluth Teachers' Retirement Fund Association

EXHIBIT IX

Actuarial Assumptions and Actuarial Cost Method

Mortality Rates:

Healthy Pre-Retirement:

| | |
|---------|---|
| Male: | 1983 Group Annuity Mortality Table for Males set back 10 years |
| Female: | 1983 Group Annuity Mortality Table for Females set back 7 years |

Healthy Post-Retirement:

| | |
|---------|---|
| Male: | 1983 Group Annuity Mortality Table for Males set back 2 years |
| Female: | 1983 Group Annuity Mortality Table for Females |

Disabled:

| | |
|---------|---|
| Male: | 1977 Railroad Retirement Board Mortality Table for Disabled Lives |
| Female: | 1977 Railroad Retirement Board Mortality Table for Disabled Lives |

SECTION 4: Reporting Information for the Duluth Teachers' Retirement Fund Association

Summary of Rates:

Shown below for selected ages:

| Age | Rate (%) | | | | | | Ultimate Rate of Salary Increases |
|-----|-----------|--------|------------|------------|------------|--------|-----------------------------------|
| | Mortality | | Withdrawal | Disability | Retirement | | |
| | Male | Female | | | Old | New | |
| 20 | 0.03 | 0.01 | 3.50 | -- | -- | -- | 6.90% |
| 25 | 0.03 | 0.02 | 3.25 | -- | -- | -- | 6.75 |
| 30 | 0.04 | 0.02 | 3.00 | -- | -- | -- | 6.50 |
| 35 | 0.05 | 0.03 | 2.75 | 0.01 | -- | -- | 6.25 |
| 40 | 0.06 | 0.04 | 2.50 | 0.03 | -- | -- | 6.00 |
| 45 | 0.09 | 0.06 | 2.00 | 0.06 | -- | -- | 5.50 |
| 50 | 0.12 | 0.08 | 1.50 | 0.10 | -- | -- | 5.00 |
| 55 | 0.22 | 0.14 | 0.75 | 0.15 | 15.00 | 10.00 | 5.00 |
| 60 | 0.39 | 0.21 | -- | 0.21 | 15.00 | 10.00 | 5.00 |
| 65 | 0.61 | 0.34 | -- | -- | 40.00 | 20.00 | 5.00 |
| 70 | 0.92 | 0.58 | -- | -- | 50.00 | 40.00 | 5.00 |
| 75 | 1.56 | 0.97 | -- | -- | 80.00 | 80.00 | 5.00 |
| 80 | 2.75 | 1.85 | -- | -- | 100.00 | 100.00 | 5.00 |

SECTION 4: Reporting Information for the Duluth Teachers' Retirement Fund Association

| | |
|--|---|
| Retirement Rates: | Rates are shown for selected ages on the previous page. In addition, 40% of the members are assumed to retire each year that they are eligible for Rule of 90. |
| Withdrawal Rates: | Select and ultimate rates are based on recent plan experience. Ultimate rates after the third year are shown in the rate table shown above. Select rates are as follows: |
| First year: | 40.00% |
| Second year: | 10.00% |
| Third year: | 6.00% |
| Retirement Age for Inactive Vested Members: | 65 |
| Unknown Data for Members: | Same as those exhibited by members with similar known characteristics. |
| Percent Married: | 80% of members are assumed to be married. |
| Age of Spouse: | Females three years younger than males. |
| Net Investment Return: | |
| <i>Pre-Retirement:</i> | 8.50% per annum |
| <i>Post-Retirement:</i> | 6.50% per annum |
| Salary Increases: | Reported salary for prior fiscal year, with new hires annualized, increased to current fiscal year and annually for each future year according to the ultimate rate table on the prior page. This table includes a 5.00% base inflation assumption. During a 10-year select period, $0.30\% \times (10-T)$ where T is completed years of service is added to the ultimate rate. |
| Administrative Expenses: | Prior year administrative expenses expressed as percentage of prior year payroll. |
| Allowance for Combined Service Annuity: | 10.00% load on liabilities for active members and 10.00% load on liabilities for former members. |

SECTION 4: Reporting Information for the Duluth Teachers' Retirement Fund Association

Return of Contributions: All employees withdrawing after becoming eligible for a deferred benefit were assumed to take the larger of their contributions accumulated with interest or the value of their deferred benefit.

Special Consideration: Annual 2.00% increase for annuitants is accounted for by using a 6.50% post-retirement interest rate. Members in the Old Plan are assumed to receive their retirement benefits from the New Plan. Members who terminated under the Old Plan are assumed to take refund under the New Plan.

Married Members assumed to elect subsidized joint and survivor form of annuity as follows:

Males: 35% elect 50% J&S option

55% elect 100% J&S option

Females: 25% elect 50% J&S option

25% elect 100% J&S option

Asset Valuation Method: Market Value, adjusted for amortization obligations receivable at the end of each fiscal year, less a percentage of the Unrecognized Asset Return determined at the close of each of the four preceding fiscal years. Unrecognized Asset Return is the difference between actual net return on Market Value of Assets and the asset return expected during the fiscal year (based on the assumed interest rate employed in the July 1 Actuarial Valuation of the fiscal year).

Actuarial Cost Method: Entry Age Normal Cost Method. Entry Age is the age at the time the participant commenced employment. Normal Cost and Actuarial Accrued Liability are calculated on an individual basis and are expressed as a level percentage of payroll, with Normal Cost determined as if the current benefit accrual rate had always been in effect.

Payment on the Unfunded Actuarial Accrued Liability: A level percentage of payroll each year to the statutory amortization date assuming payroll increases of 5.00% per annum. If there is a negative Unfunded Actuarial Accrued Liability, the surplus amount shall be amortized over 30 years as a level percentage of payroll.

SECTION 4: Reporting Information for the Duluth Teachers' Retirement Fund Association

**Changes in Actuarial Assumptions
and Cost Methods:**

There have been no changes made to the actuarial assumptions and cost methods since the prior valuation.

SECTION 4: Reporting Information for the Duluth Teachers' Retirement Fund Association

EXHIBIT X

Summary of Plan Provisions

This summary of provisions reflects the interpretation of applicable Statutes for purposes of preparing this valuation. This interpretation is not intended to create or rescind any benefit rights in conflict with any Minnesota Statutes.

Plan Year: July 1 through June 30

Eligibility (Old Plan and New Plan): Licensed full-time and part-time teachers who are employed by the Duluth Public Schools other than a charter school teacher, and eligible licensed staff at Lake Superior College, who have elected to retain their membership in the DTRFA. Also includes any employees of the Retirement Fund Association. Employees in the Old Plan are those first hired before July 1, 1981. Employees in the New Plan, Tier I are those first hired on or after July 1, 1981. Employees in the New Plan, Tier II are those first hired on or after July 1, 1989.

Credited Service (Old Plan and New Plan): Earned while employed in a covered position and employee contributions are deducted. May also include extended or mid-career leaves of absence, medical leave of absence, sabbatical leave, and military service. Credit for less than a full year is granted on a prorated basis.

Salary (Old Plan and New Plan): Total Compensation. Excludes any lump-sum annual leave or sick leave payments and lump-sum payments at time of separation from employment.

Average Salary (Old Plan): Average of the five highest years of annual salary.

Average Salary (New Plan): Average of the five highest successive years of salary. Average Salary is based on all Credited Service if less than five years.

SECTION 4: Reporting Information for the Duluth Teachers' Retirement Fund Association

Retirement (Old Plan):

Normal Retirement:

Age Requirement: Age 60, and
Service Requirement: 10 years of Credited Service
Amount: 1.45% of Average Salary for each year of Credited Service

Early Retirement:

Age Requirement: Age 55, and
Service Requirement: 10 years of Credited Service, or
Age/Service Requirement: The sum of age and Credited Service equals 90, if earlier.
Amount: 1.45% of Average Salary for each year of Credited Service with reduction of 0.25% for each month the member is under age 60. No reduction if the sum of age and years of Credited Service equals 90.
Form of Payment: Life annuity. Actuarially equivalent options are:
(a) 5, 10, 15 or 20-year certain and life, or
(b) 50% or 100% joint and survivor with bounce back feature without additional reduction.
(c) Other equivalent options approved by the Board.

Benefit Increases: Annual Cost-of-Living Adjustment (COLA):
Increase all benefits by 2.00% each January 1. An additional increase will be allowed when the 5-year average rate of return of the fund exceeds the Fund's assumed rate of return, currently 8.50%. To be eligible for a COLA, a retiree or beneficiary must have received a payment for at least 12 months as of the adjustment date.

Note: A member who is eligible for normal or early benefits under the Old Plan may instead receive a benefit under New Plan Tier I or New Plan Tier II if it is greater than the benefit from the Old Plan.

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Retirement (New Plan Tier I):

Normal Retirement:

Age/Service Requirement: Members first hired before July 1, 1989:

- (a) Age 65, or
- (b) Age 62 and 30 years of Credited Service.

Amount: 1.20% of Average Salary for each of the first ten years of Credited Service and 1.70% of Average Salary for each subsequent year.

Early Retirement:

Age/Service Requirement: (a) Age 55 and three years of Credited Service, or
(b) Any age with 30 years of Credited Service, or
(c) The sum of age and Credited Service equals 90.

Amount: 1.20% of Average Salary for the first ten years of Credited Service and 1.70% of Average Salary for each subsequent year with reduction of 0.25% for each month the member is under Normal Retirement Age. No reduction if the sum of age and years of Credited Service equals 90.

Form of Payment: Life annuity. Actuarially equivalent options are:
(a) 5, 10, 15 or 20-year certain and life, or
(b) 50% or 100% joint and survivor with bounce back feature without additional reduction.
(c) A larger life annuity before age 62 and reduced thereafter.

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Benefit Increases:

Annual Cost-of-Living Adjustment (COLA):

Increase all benefits by 2.00% each January 1. An additional increase will be allowed when the 5-year average rate of return of the fund exceeds the Fund's assumed rate of return, currently 8.50%. To be eligible for a COLA, a retiree or beneficiary must have received a payment for at least 12 months as of the adjustment date.

Note: A member who is eligible for normal or early benefits under the New Plan Tier I may instead receive a benefit under New Plan Tier II if it is greater than the benefit from New Plan Tier I.

Retirement (New Plan Tier II):

Normal Retirement:

Age/Service Requirement:

Members first hired after June 30, 1989:

The greater of age 65 or the age eligible for full Social Security retirement benefits but not higher than age 66.

Amount:

1.70% of Average Salary for each year of Credited Service.

Early Retirement:

Age/Service Requirement:

Age 55 and three years of Credited Service.

Amount:

1.70% of Average Salary for each year of Credited Service with augmentation to the age eligible for full social security retirement benefits at 3.00% per year and actuarial reduction for each month the member is under the Social Security Retirement Age.

Form of Payment:

Life annuity. Actuarially equivalent options are:

- (a) 5, 10, 15 or 20-year certain and life, or
- (b) 50% or 100% joint and survivor with bounce back feature without additional reduction.
- (c) A larger life annuity before age 62 and reduced thereafter.

Benefit Increases:

Annual Cost-of-Living Adjustment (COLA):

Increase all benefits by 2.00% each January 1. An additional increase will be allowed when the 5-year average rate of return of the fund exceeds the Fund's assumed rate of

SECTION 4: Reporting Information for the Duluth Teachers' Retirement Fund Association

return, currently 8.50%. To be eligible for a COLA, a retiree or beneficiary must have received a payment for at least 12 months as of the adjustment date.

Disability (Old Plan):

- Age/Service Requirement:* Totally and permanently disabled as a teacher before the age of 60 with five years of Credited Service.
- Amount:*
- (a) Normal Retirement benefit based on Credited Service and Average Salary at disability date without reduction for early commencement. Amount is reduced for Workers' Compensation.
 - (b) Payment stops at age 60, or earlier if disability ceases or death occurs.
- Form of Payment:* Same as for Normal Retirement.
- Benefit Increases:* Same as for Normal Retirement.
-

Disability (New Plan):

- Age/Service Requirement:* Totally and permanently disabled under Normal Retirement Age with three years of Credited Service. Also, at least two of the years of Credited Service must have been uninterrupted.
- Amount:*
- (a) Normal Retirement benefit based on Credited Service and Average Salary at disability without reduction commencement before retirement age. Benefit is reduced by Workers' Compensation.
 - (b) Payments may begin 90 days after disability and stops at Normal Retirement Age, or earlier if disability ceases or death occurs. Benefits paid while partially employed may be reduced.
- Form of Payment:* Same as for Normal Retirement.
- Benefit Increases:* Same as for Normal Retirement.

Retirement After Disability:

- Age/Service Requirement:* Normal Retirement Age if still totally and permanently disabled.
- Amount:* Optional annuity continues, otherwise the larger of the disability benefit paid before Normal Retirement Age or the Normal Retirement benefit available at Normal Retirement Age, or an actuarial equivalent optional annuity.
- Benefit Increases:* Same as for retirement.

SECTION 4: Reporting Information for the Duluth Teachers' Retirement Fund Association

Withdrawal (Old Plan):

Refund of Member's Contributions:

Age/Service Requirement: Termination from Teaching Service.

Amount: Member's contributions with 5.00% interest compounded annually if termination occurred before May 16, 1989, and 6.00% interest if termination occurred on or after May 16, 1989.

Deferred Annuity:

Age/Service Requirement: Ten years of Credited Service.

Amount: Benefit computed under law in effect at termination and increased by the following annual percentage: 3.00% until January 1 of the year following attainment of age 55 and 5.00% thereafter until the annuity begins. Amount is payable as a Normal or Early Retirement.

Withdrawal (New Plan):

Refund of Member's Contributions:

Age/Service Requirement: Termination from Teaching Service.

Amount: Member's contributions with 5.00% interest compounded annually if termination occurred before May 16, 1989, and 6.00% interest if termination occurred on or after May 16, 1989.

Deferred Annuity:

Age/Service Requirement: Three years of Credited Service.

Amount: Benefit computed under law in effect at termination and increased by the following annual percentage: 3.00% until January 1 of the year following attainment of age 55 and 5.00% thereafter until the annuity begins. Amount is payable as a Normal or Early Retirement.

SECTION 4: Reporting Information for the Duluth Teachers' Retirement Fund Association

Pre-Retirement Death Benefit (Old Plan):

Age/Service Requirement: None.

Amount: Refund of two times member's contributions accumulated with 5.00% interest compounded annually if death occurred before May 16, 1989, and 6.00% interest if death occurred on or after May 16, 1989.

Post-Retirement Death Benefit (Old Plan):

Age/Service Requirement: None.

Amount: Refund the excess of member's contributions over total benefits paid, accumulated with 5.00% interest compounded annually if death occurred before May 16, 1989, and 6.00% interest compounded annually if death occurred on or after May 16, 1989.

Surviving Spouse Benefit (Old Plan):

Optional Annuity I:

Age/Service Requirement: Death of active member with ten years of Credited Service.

Amount: In lieu of the Pre-Retirement Death Benefit Refund, an annuity to surviving spouse equivalent to 120% of the refund amount.

Optional Annuity II:

Age/Service Requirement: Death of active member who is age 55 with ten years of Credited Service.

Amount: In lieu of Pre-Retirement Death Benefit Refund or Surviving Spouse Optional Annuity I, spouse may elect survivor portion of the 100% joint and survivor annuity the member could have elected if terminated.

SECTION 4: Reporting Information for the Duluth Teachers' Retirement Fund Association

**Pre-Retirement Death Benefit
(New Plan):**

Surviving Spouse Optional Annuity:

Age/Service Requirement: Member who dies before retirement benefits commence with three years of Credited Service.

Amount: Survivor's payment of the 100% joint and survivor benefit or an actuarial equivalent term certain annuity. If commencement is prior to Normal Retirement Age, the benefit is reduced at the early retirement reduction factors, with half the applicable reduction factor used from age 55 to the actual commencement age. If no surviving spouse, then an actuarial equivalent dependent child benefit is paid to age 20 or for five years if longer.

Benefit Increases: Same as for Normal Retirement.

Refund of Member's Contributions:

Age/Service Requirement: Member or former member dies before receiving any disability or retirement benefits, and survivor benefits are not payable.

Amount: Member's contributions with 5.00% interest compounded annually if death occurred before May 16, 1989, and 6.00% interest if death occurred on or after May 16, 1989.

Contributions:

Member: 5.50% of salary.

Employer: 5.79% of salary.

Changes in Plan Provisions: There have been no changes made to the plan provisions since the prior valuation.