## North Dakota Teachers' Fund for Retirement

Governmental Accounting Standards Board
Statement Nos 67 and 68
Actuarial Valuation as of July 1, 2022


## November 2, 2022

Board of Trustees
North Dakota Teachers' Fund for Retirement
3442 East Century Avenue
Bismarck, ND 58507-7100

## Dear Board Members:

We are pleased to submit the Governmental Accounting Standards Board (GASB) Statement Nos. 67 and 68 Actuarial Valuation based on a June 30, 2022, measurement date for employer reporting as of June 30, 2022. It contains various information that will need to be disclosed in order for North Dakota Teachers' Fund for Retirement employers to comply with GASB 67 and 68.
It is important to note that GASB 67 and 68 only define pension liability and expense for financial reporting purposes, and do not apply to contribution amounts for pension funding purposes. The assumptions used in this valuation are the same as those used in the July 1, 2022 Actuarial Valuation report dated October 20, 2022. Additional details can be found in that report.
This report was prepared in accordance with generally accepted actuarial principles and practices. The census and financial information on which our calculations were based was supplied by the staff of the Retirement and Investment Office. That assistance is gratefully acknowledged.
The measurements shown in this actuarial valuation may not be applicable for other purposes. Future actuarial measurements may differ significantly from the current measurements presented in this report due to such factors as the following: plan experience differing from that anticipated by the economic or demographic assumptions; changes in economic or demographic assumptions; increases or decreases expected as part of the natural operation of the methodology used for these measurements (such as the end of an amortization period); and changes in plan provisions or applicable law.

The actuarial calculations were completed under the supervision of Matthew Strom, FSA, MAAA, EA and Tanya Dybal, FSA, MAAA EA. We are members of the American Academy of Actuaries and we meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinion herein. To the best of our knowledge, the information supplied in the actuarial valuation is complete and accurate. In our opinion, the assumptions as approved by the Board are reasonably related to the experience of and expectations for the Fund.

We look forward to reviewing this report with you and to answering any questions.
Sincerely,
Segal


Matthew Strom, FSA, MAAA, EA
Senior Vice President and Actuary


Tanya Dybal, FSA, MAAA, EA
Vice President and Actuary

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## Section 1: Actuarial Valuation Summary

## Purpose and basis

This report has been prepared by Segal to present certain disclosure information required by Governmental Accounting Standards Board (GASB) Statement Nos. 67 and 68 as of June 30, 2022. This valuation is based on:

- The benefit provisions set forth in the North Dakota Century Code, as administered by the TFFR Board of Trustees;
- The characteristics of covered active members, terminated vested members, and retired members and beneficiaries as of July 1 , 2022, provided by the North Dakota Retirement and Investment Office;
- The assets of the Fund as of June 30, 2022, provided by the North Dakota Retirement and Investment Office;
- Economic assumptions regarding future salary increases and investment earnings adopted by the Board; and
- Other actuarial assumptions, regarding employee terminations, retirement, death, etc.


## Highlights of the valuation

The following are key observations regarding this actuarial valuation:

- GASB 67 and 68 contain rules for the reporting of pension liabilities for accounting purposes. Statement 67 was effective with the fiscal year ending June 30, 2014, for Plan reporting. Statement 68 was effective with the fiscal year ending June 30, 2015, for employer reporting. The information contained in this valuation is intended to be used (along with other information) in order to comply with both Statements 67 and 68.
- It is important to note that the GASB rules only redefine pension liability and expense for financial reporting purposes, and do not apply to contribution amounts for actual pension funding purposes. Plans can still develop and adopt funding policies under current practices.
- When measuring pension liability for GASB purposes, the same actuarial cost method (Entry Age method) is used to determine the funded status of the Plan, the actuarially determined contribution rate, and the effective amortization period. In addition, the GASB blended discount rate calculation results in the same discount rate (expected return on assets) as used for funding purposes. This means that the Total Pension Liability (TPL) measure for financial reporting shown in this report is determined on the same basis as the Actuarial Accrued Liability (AAL) measure for funding.


## Section 1: Actuarial Valuation Summary

- The Net Pension Liability (NPL) is equal to the difference between the TPL and the Plan Fiduciary Net Position. The Plan Fiduciary Net Position is equal to the fair value of assets and therefore, the NPL measure is very similar to an Unfunded Actuarial Accrued Liability (UAAL) on a fair value basis. The NPL increased from $\$ 1.05$ billion as of June 30, 2021, to $\$ 1.46$ billion as of June 30, 2022, primarily as a result of a lower-than-expected investment return for the fiscal year ending June 30, 2022. Changes in these values during the prior fiscal year ending June 30, 2022, can be found in Exhibit 5.
- The discount rate used to determine the TPL and NPL was $7.25 \%$ as of both June 30, 2021, and June 30, 2022. The detailed calculations used in this derivation were provided separately.


## Section 1: Actuarial Valuation Summary

## Summary of key valuation results

| Disclosure elements for fiscal year ending June 30 |  | 2022 | 2021 |
| :---: | :---: | :---: | :---: |
| Disclosure elements for fiscal year ending June 30: | - Service cost | \$92,335,934 | \$87,088,239 |
|  | - Total Pension Liability | 4,479,973,211 | 4,336,060,141 |
|  | - Plan Fiduciary Net Position | 3,023,920,243 | 3,282,404,830 |
|  | - Net Pension Liability | 1,456,052,968 | 1,053,655,311 |
|  | - Pension fiduciary net position as a percentage of total pension liability | 67.5\% | 75.7\% |
| Schedule of contributions for fiscal year ending June 30: | - Actuarially determined contribution | \$97,341,070 | \$101,655,277 |
|  | - Actual contributions | 100,331,347 | 98,264,202 |
|  | - Contribution deficiency / (excess) | $(2,990,277)$ | 3,391,075 |
| Demographic data for plan year ending June 30: | - Number of retired members and beneficiaries | 9,438 | 9,262 |
|  | - Number of vested terminated members | 1,827 | 1,754 |
|  | - Number of active non-vested members | 1,423 | 1,213 |
|  | - Number of active members | 11,802 | 11,627 |
| Key assumptions as of June 30: | - Investment rate of return | 7.25\% | 7.25\% |
|  | - Municipal Bond Index | 3.54\% | 2.16\% |
|  | - Inflation rate | 2.30\% | 2.30\% |
|  | - Projected salary increases | $3.80 \% \text { to } 14.80 \%$ varying by service | 3.80\% to $14.80 \%$ varying by service |

## Section 1: Actuarial Valuation Summary

## Important information about actuarial valuations

In order to prepare a valuation, Segal relies on a number of input items. These include:

| Plan of benefits | Plan provisions define the rules that will be used to determine benefit payments, and those rules, or the interpretation of them, may change over time. Even where they appear precise, outside factors may change how they operate. It is important to keep Segal informed with respect to plan provisions and administrative procedures, and to review the plan summary included in our funding valuation report to confirm that Segal has correctly interpreted the plan of benefits. |
| :---: | :---: |
| Participant data | An actuarial valuation for a plan is based on data provided to the actuary by TFFR. Segal does not audit such data for completeness or accuracy, other than reviewing it for obvious inconsistencies compared to prior data and other information that appears unreasonable. It is important for Segal to receive the best possible data and to be informed about any known incomplete or inaccurate data. |
| Assets | The valuation is based on the fair value of assets as of the valuation date, as provided by TFFR. |
| Actuarial assumptions | In preparing an actuarial valuation, Segal starts by developing a forecast of the benefits to be paid to existing plan participants for the rest of their lives and the lives of their beneficiaries. This requires actuarial assumptions as to the probability of death, disability, withdrawal, and retirement of participants in each year, as well as forecasts of the plan's benefits for each of those events. In addition, the benefits forecasted for each of those events in each future year reflect actuarial assumptions as to salary increases and cost-of-living adjustments, if applicable. The forecasted benefits are then discounted to a present value, typically based on an estimate of the rate of return that will be achieved on the plan's assets. All of these factors are uncertain and unknowable. Thus, there will be a range of reasonable assumptions, and the results may vary materially based on which assumptions are selected within that range. That is, there is no right answer (except with hindsight). It is important for any user of an actuarial valuation to understand and accept this constraint. The actuarial model may use approximations and estimates that will have an immaterial impact on our results. In addition, the actuarial assumptions may change over time, and while this can have a significant impact on the reported results, it does not mean that the previous assumptions or results were unreasonable or wrong. |
| Models | Segal valuation results are based on proprietary actuarial modeling software. The actuarial valuation models generate a comprehensive set of liability and cost calculations that are presented to meet regulatory, legislative and client requirements. Our Actuarial Technology and Systems unit, comprised of both actuaries and programmers, is responsible for the initial development and maintenance of these models. The models have a modular structure that allows for a high degree of accuracy, flexibility and user control. The client team programs the assumptions and the plan provisions, validates the models, and reviews test lives and results, under the supervision of the responsible actuary. |
|  | The blended discount rate used for calculating total pension liability is based on a model developed by our Actuarial Technology and Systems unit. The model allows the client team, under the supervision of the responsible actuary, control over the entry of future expected contribution income, benefit payments and administrative expenses. The projection of fiduciary net position and the discounting of benefits is part of the model. |

## Section 1: Actuarial Valuation Summary

The user of Segal's actuarial valuation (or other actuarial calculations) should keep the following in mind:
The valuation is prepared at the request of TFFR to assist the sponsors of the Fund in preparing items related to the pension plan in their financial reports. Segal is not responsible for the use or misuse of its report, particularly by any other party.

An actuarial valuation is a measurement of the plan's assets and liabilities at a specific date. Accordingly, except where otherwise noted, Segal did not perform an analysis of the potential range of future financial measures. The actual long-term cost of the plan will be determined by the actual benefits and expenses paid and the actual investment experience of the plan.
Actuarial results in this report are not rounded, but that does not imply precision.
If TFFR is aware of any event or trend that was not considered in this valuation that may materially change the results of the valuation, Segal should be advised, so that we can evaluate it.

Segal does not provide investment, legal, accounting, or tax advice. Segal's valuation is based on our understanding of applicable guidance in these areas and of the plan's provisions, but they may be subject to alternative interpretations. TFFR should look to their other advisors for expertise in these areas.

As Segal has no discretionary authority with respect to the management or assets of TFFR, it is not a fiduciary in its capacity as actuaries and consultants with respect to TFFR.

## Section 2: GASB 67 and 68 Information

## Exhibit 1 - Membership Data

|  | July 1, 2022 | July 1, 2021 |
| :--- | ---: | ---: |
| Retired members and beneficiaries | 9,438 | 9,262 |
| Vested inactive members | 1,827 | $\mathbf{1 , 7 5 4}$ |
| Non-Vested inactive members | $\mathbf{1 , 4 2 3}$ | $\mathbf{1 , 2 1 3}$ |
| Active members |  |  |
| Vested | 8,326 | 8,306 |
| Non-Vested | $\underline{3,476}$ | $\underline{3,321}$ |
| Total active members | 11,802 | 11,627 |
| Total membership | 24,490 | $\mathbf{2 3 , 8 5 6}$ |

## Active Membership By Plan Eligibility

|  | July 1, 2022 | July 1, 2021 |
| :--- | ---: | ---: |
| Tiered 1 Grandfathered | 824 | $\mathbf{1 , 0 8 9}$ |
| Tiered 1 Non-Grandfathered | 3,025 | 3,058 |
| Tier 2 | $\underline{7,953}$ | $\underline{\mathbf{7 , 4 8 0}}$ |
| Total active membership | 11,802 | $\mathbf{1 1 , 6 2 7}$ |

## Section 2: GASB 67 and 68 Information

## Exhibit 2 - Net pension liability

| Reporting Date for Employer under GASB 68 | June 30, 2022 | June 30, 2021 |
| :--- | ---: | ---: |
| Components of the Net Pension Liability | $\$ 4,479,973,211$ | $\$ 4,336,060,141$ |
| Total Pension Liability | $(3,023,920,243)$ | $(3,282,404,830)$ |
| Plan Fiduciary Net Position | $1,456,052,968$ | $1,053,655,311$ |
| Net Pension Liability | $67.5 \%$ | $75.7 \%$ |
| Plan Fiduciary Net Position as a percentage of the Total Pension Liability |  |  |

Plan provisions. The plan provisions used in the measurement of the net pension liability are the same as those used in the actuarial valuation as of July 1, 2022.

Actuarial assumptions. The total pension liability as of June 30, 2022, which was measured by an actuarial valuation as of July 1 , 2022, used the following actuarial assumptions, applied to all periods included in the measurement:

| Inflation | $2.30 \%$ |
| :--- | :--- |
| Salary increases | $3.80 \%$ to $14.80 \%$, varying by service, including inflation and productivity |
| Investment rate of return | $7.25 \%$, net of pension plan investment expense, including inflation |
| Cost-of-living adjustments | None |

For active and inactive members, mortality rates were based on the PubT-2010 Employee table projected with generational improvement using Scale MP-2019. For healthy retirees, mortality rates were based on $104 \%$ of the PubT-2010 Retiree table for retirees and to $95 \%$ of the PubT-2010 Contingent Survivor table for beneficiaries, both projected with generational improvement using Scale MP-2019. For disability retirees, mortality rates were based on the PubNS-2010 Non-Safety Disabled Mortality table projected with generational improvement using Scale MP-2019.

The actuarial assumptions used were based on the results of an experience study dated March 19, 2020. They are the same as the assumptions used in the July 1, 2022, funding actuarial valuation for TFFR.

## Section 2: GASB 67 and 68 Information

## Exhibit 3 - Target asset allocation

The long-term expected rate of return on pension plan investments was determined using a building-block method in which bestestimate ranges of expected future real rates of return (expected returns, net of pension plan investment expense and inflation) are developed for each major asset class. These ranges are combined to produce the long-term expected rate of return by weighting the expected future real rates of return by the target asset allocation percentage and by adding expected inflation. Best estimates of arithmetic real rates of return for each major asset class included in the pension plan's target asset allocation as of June 30, 2022, are summarized in the following table:

| Asset Class | Target <br> Allocation | Long-Term Expected <br> Real Rate of Return |
| :--- | ---: | ---: |
| Global Equities | $55.00 \%$ | $6.61 \%$ |
| Global Fixed Income | $26.00 \%$ | $0.35 \%$ |
| Global Real Estate | $18.00 \%$ | $4.60 \%$ |
| Cash Equivalents | $\underline{1.00 \%}$ | $\underline{-1.05 \%}$ |
| Total | $100.00 \%$ |  |

* As reported by the North Dakota Retirement and Investment Office.

Discount rate: The long-term expected rate of return on pension plan investments is $7.25 \%$. The high quality tax-exempt general obligation municipal bond rate ( 20 -Bond GO Index) as of the closest date prior to the valuation date of June 30,2022 , is $3.54 \%$, as published by The Bond Buyer.

The discount rate used to measure the total pension liability was $7.25 \%$ as of June 30,2022 . The projection of cash flows used to determine the discount rate assumed plan member and employer contributions will be made at rates equal to those based on the July 1, 2022, Actuarial Valuation Report. For this purpose, only employer contributions that are intended to fund benefits of current plan members and their beneficiaries are included. Projected employer contributions that are intended to fund the service costs of future plan members and their beneficiaries, as well as projected contributions from future plan members, are not included. Based on those assumptions, the pension plan's fiduciary net position was projected to be available to make all projected future benefit payments of current plan members as of June 30, 2022. Therefore, the long-term expected rate of return on pension plan investments was applied to all periods of projected benefit payments to determine the total pension liability as of June 30, 2022.

## Section 2: GASB 67 and 68 Information

## Exhibit 4 - Discount rate sensitivity

Sensitivity of the net pension liability to changes in the discount rate. The following presents the net pension liability of the TFFR, calculated using the discount rate of $7.25 \%$, as well as what the net pension liability would be if it were calculated using a discount rate that is 1-percentage-point lower ( $6.25 \%$ ) or 1-percentage-point higher ( $8.25 \%$ ) than the current rate.

|  | $\begin{gathered} \text { 1\% Decrease } \\ \text { (6.25\%) } \end{gathered}$ | Current Discount Rate (7.25\%) | $\begin{aligned} & \text { 1\% Increase } \\ & \text { (8.25\%) } \end{aligned}$ |
| :---: | :---: | :---: | :---: |
| Net pension liability as of June 30, 2018* | \$1,799,744,383 | \$1,332,858,315 | \$944,554,161 |
| Net pension liability as of June 30, 2019* | 1,859,994,289 | 1,377,253,104 | 976,082,834 |
| Net pension liability as of June 30, 2020 | 2,038,548,355 | 1,530,503,462 | 1,108,292,065 |
| Net pension liability as of June 30, 2021 | 1,582,102,595 | 1,053,655,311 | 614,833,478 |
| Net pension liability as of June 30, 2022 | 2,000,483,274 | 1,456,052,968 | 1,004,516,629 |

Section 2: GASB 67 and 68 Information

## Exhibit 5 - Schedule of changes in Net Pension Liability

| Reporting Date for Employer under GASB 68 | June 30, 2022 | June 30, 2021 |
| :---: | :---: | :---: |
| Total Pension Liability |  |  |
| Service cost | \$92,335,934 | \$87,088,239 |
| Interest | 311,929,245 | 300,698,090 |
| Change of benefit terms | 0 | 0 |
| Differences between expected and actual experience | $(8,504,654)$ | 8,366,320 |
| Changes of assumptions | 0 | 0 |
| Benefit payments, including refunds of member contributions | (251,847,455) | $(241,128,271)$ |
| Net change in Total Pension Liability | \$143,913,070 | \$155,024,378 |
| Total Pension Liability - beginning | 4,336,060,141 | 4,181,035,763 |
| Total Pension Liability - ending | \$4,479,973,211 | \$4,336,060,141 |
| Plan Fiduciary Net Position |  |  |
| Contributions - employer | \$100,331,347 | \$98,264,202 |
| Contributions - employee | 92,462,223 | 90,557,210 |
| Contributions - purchased service credit | 2,017,055 | 2,559,121 |
| Contributions - other | 25,166 | 126,112 |
| Net investment income | $(198,880,583)$ | 684,172,530 |
| Benefit payments, including refunds of member contributions | $(251,847,455)$ | $(241,128,271)$ |
| Administrative expense | $(2,592,340)$ | $(2,678,375)$ |
| Other | $\underline{0}$ | $\underline{0}$ |
| Net change in Plan Fiduciary Net Position | $(\$ 258,484,587)$ | \$631,872,529 |
| Plan Fiduciary Net Position - beginning | 3,282,404,830 | 2,650,532,301 |
| Plan Fiduciary Net Position - ending | \$3,023,920,243 | \$3,282,404,830 |
| Net Pension Liability - ending | \$1,456,052,968 | \$1,053,655,311 |
| Plan Fiduciary Net Position as a percentage of the Total Pension Liability | 67.5\% | 75.7\% |
| Covered employee payroll | \$786,912,450 | \$770,699,600 |
| Plan Net Pension Liability as percentage of covered employee payroll | 185.0\% | 136.7\% |

## Section 2: GASB 67 and 68 Information

## Exhibit 6 - Schedule of employer contributions

| Year Ended | Actuarially <br> Dune 30 | Contermined <br> Relationtions in to the <br> Actuarially <br> Determined <br> Contributions | Contribution <br> Deficiency / <br> (Excess) | Covered- <br> Employee <br> Payroll | Contributions as <br> a Percentage of <br> Covered Employee <br> Payroll |
| :---: | ---: | ---: | ---: | ---: | ---: |
| 2013 | $\$ 52,396,153$ | $\$ 59,300,720$ | $(\$ 6,904,567)$ | $\$ 551,655,590$ | $10.75 \%$ |
| 2014 | $59,513,485$ | $62,355,146$ | $(2,841,661)$ | $580,053,235$ | $10.75 \%$ |
| 2015 | $71,167,632$ | $78,422,098$ | $(7,254,466)$ | $615,104,860$ | $12.75 \%$ |
| 2016 | $84,724,122$ | $82,839,932$ | $1,884,190$ | $649,724,868$ | $12.75 \%$ |
| 2017 | $89,231,211$ | $86,058,868$ | $3,172,343$ | $674,971,342$ | $12.75 \%$ |
| 2018 | $88,307,239$ | $86,675,715$ | $1,631,524$ | $679,809,385$ | $12.75 \%$ |
| 2019 | $90,777,781$ | $89,444,881$ | $1,332,900$ | $701,528,450$ | $12.75 \%$ |
| 2020 | $93,688,429$ | $93,032,453$ | 655,976 | $729,660,661$ | $12.75 \%$ |
| 2021 | $101,655,277$ | $98,264,202$ | $3,391,075$ | $770,699,600$ | $12.75 \%$ |
| 2022 | $97,341,070$ | $100,331,347$ | $(2,990,277)$ | $786,912,450$ | $12.75 \%$ |

See accompanying notes to this schedule on next page.

## Section 2: GASB 67 and 68 Information

## Notes to Exhibit 6:

Methods and assumptions used to establish "actuarially determined contribution" rates:

| Valuation date | Actuarially determined contribution rates are calculated as of June 30, with appropriate interest to the middle of the fiscal year. |
| :---: | :---: |
| Actuarial cost method | Entry Age Actuarial Cost Method |
| Amortization method | Level percentage of pay, closed |
| Remaining amortization period | 21 years as of July 1, 2022 <br> The amortization of unfunded actuarial accrued liability (UAAL) within the actuarially determined contribution rate calculation is based on the level percentage of pay required to amortize the UAAL over the 30-year closed period that began July 1, 2013. For this calculation, payroll is assumed to increase 3.25\% per year. |
| Asset valuation method | The fair value of assets with a five-year phase-in of actual return in excess of (or less than) expected investment income. Expected investment income is determined using the assumed investment return rate and the fair value of assets (adjusted for receipts and disbursements during the year). |
| Investment rate of return | 7.25\%, net of pension plan investment expense |
| Inflation rate | 2.30\% |
| Projected salary increases | $3.80 \%$ to $14.80 \%$, varying by service, includes inflation and productivity |
| Mortality ${ }^{*}$ | Post-retirement Non-Disabled: 104\% of the PubT-2010 Retiree table for retirees and to $95 \%$ of the PubT-2010 Contingent Survivor table for beneficiaries, both projected with generational improvement using Scale MP-2019. <br> Pre-retirement Non-Disabled: PubT-2010 Employee table projected with generational improvement using Scale MP-2019 <br> Disabled: PubNS-2010 Non-Safety Disabled Mortality table projected with generational improvement using Scale MP-2019. |
| Other assumptions | Same as those used in the July 1, 2022, funding actuarial valuation. |

The mortality rates were based on historical and current demographic data, as used in the experience study dated March 19, 2020. The underlying tables reasonably reflect the mortality experience of the Fund as of the measurement date.

## Section 3: Additional Information for GASB 68

Changes in the collective net pension liability from the beginning of the year to the end of the year arise from the net difference between changes in the total pension liability and plan fiduciary net position that occurred during the year. Changes in net pension liability will be recognized immediately as pension expense, or reported as deferred outflows of resources related to pensions or deferred inflows of resources related to pensions, depending on the nature of the change.

Differences between actual and expected investment-related experience are recognized over a closed five-year period. Differences between actual and expected non-investment-related experience and changes of assumptions are recognized over the average of the expected remaining service lives of all members who are provided with pensions through the pension plan (active employees and inactive employees). The amounts below that are not included in pension expense for the current year are included in deferred outflows of resources or deferred inflows of resources related to pensions.

Section 3: Additional Information for GASB 68

## Exhibit A: Reconciliation of Collective Net Pension Liability

Increase/(Decrease)
For Fiscal Year Ending June 30, 2022
$\left.\begin{array}{lrrr}\hline & \begin{array}{c}\text { Total Pension } \\ \text { Liability } \\ \text { (a) }\end{array} & \begin{array}{c}\text { Plan Fiduciary } \\ \text { Net Position } \\ \text { (b) }\end{array} & \begin{array}{c}\text { Net Pension } \\ \text { Liability } \\ \text { (a) }\end{array} \\ \hline \text { (b) }\end{array}\right]$

## Section 3: Additional Information for GASB 68

As shown in Exhibit A, during the plan year that ended June 30, 2022, the changes in net pension liability due to differences between expected and actual demographic experience is a decrease of $\$ 8,504,654$. The average expected remaining service lives of all members is 8 years, determined as of July 1, 2021 (the beginning of the measurement period ending June 30, 2022). Therefore, of the $\$ 8,504,654$ demographic gain, $\$ 1,063,082$ is recognized in pension expense in the current year and $\$ 7,441,572$ is reflected as a deferred inflow of resources related to pensions.

Based on the assumed investment return of $7.25 \%$, the expected net investment income for the year was $\$ 235,813,705$. As shown in Exhibit A, the actual net investment income for the year was $-\$ 198,880,583$. The difference between actual and expected investment experience is an increase in net pension liability of $\$ 434,694,288$, which is recognized over a 5 -year period. Of this amount, $\$ 86,938,858$ is reflected in the current year and $\$ 347,755,430$ is reflected as a deferred outflow of resources related to pensions.

Section 3: Additional Information for GASB 68

## Exhibit B: Collective Deferred Outflow of Resources and Deferred Inflows of Resources Related to Pensions

| Employer | Year Established | Original Balance | Original Amortization Period | Amortization Amount During 2022 | Outstanding Balance at June 30, 2022 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Outflows |  |  |  |  |  |
| Investments | 2019 | \$59,163,355 | 5 years | \$11,832,671 | \$11,832,671 |
| Investments | 2020 | 114,538,151 | 5 years | 22,907,630 | 45,815,260 |
| Assumptions | 2020 | 51,813,028 | 7 years | 7,401,861 | 29,607,444 |
| Demographics | 2021 | 8,366,320 | 8 years | 1,045,790 | 6,274,740 |
| Investments | 2022 | 434,694,288 | 5 years | 86,938,858 | 347,755,430 |
| Total Outflows |  |  |  | \$130,126,810 | \$441,285,545 |
| Inflows |  |  |  |  |  |
| Demographics | 2016 | \$8,092,800 | 7 years | \$1,156,116 | \$0 |
| Demographics | 2017 | 10,748,944 | 7 years | 1,535,563 | 1,535,566 |
| Demographics | 2018 | 27,939,071 | 7 years | 3,991,296 | 7,982,591 |
| Investments | 2018 | 30,002,998 | 5 years | 6,000,598 | 0 |
| Demographics | 2019 | 23,494,914 | 7 years | 3,356,416 | 10,069,250 |
| Demographics | 2020 | 20,732,097 | 7 years | 2,961,728 | 11,846,912 |
| Investments | 2021 | 493,904,813 | 5 years | 98,780,963 | 296,342,887 |
| Demographics | 2022 | 8,504,654 | 8 years | 1,063,082 | 7,441,572 |
| Total Inflows |  |  |  | \$118,845,762 | \$335,218,778 |

Section 3: Additional Information for GASB 68

## Exhibit B: Collective Deferred Outflow of Resources and Deferred Inflows of Resources Related to Pensions (continued)

|  | June 30, 2022 | June 30, 2021 |
| :---: | :---: | :---: |
| Deferred Outflows of Resources |  |  |
| Difference between expected an actual experience in the Total Pension Liability | \$6,274,740 | \$7,320,530 |
| Changes in assumptions | 29,607,444 | 37,009,305 |
| Net difference between projected and actual earnings on pension plan investments | 109,060,474 | N/A |
| Total Deferred Outflows of Resources | \$144,942,658 | \$44,329,835 |
| Deferred Inflows of Resources |  |  |
| Difference between expected and actual experience in the Total Pension Liability | \$38,875,891 | \$44,435,438 |
| Changes of assumptions | 0 | 0 |
| Net difference between projected and actual earnings on pension plan investments | N/A | 308,736,216 |
| Total Deferred Inflows of Resources | \$38,875,891 | \$353,171,654 |
| Deferred outflows of resources and deferred inflows of resources related to pension will be recognized as follows: |  |  |
| Year Ended June 30: |  |  |
| 2022 | N/A | (\$74,594,728) |
| 2023 | \$18,437,759 | $(67,438,017)$ |
| 2024 | 8,140,655 | $(77,735,121)$ |
| 2025 | $(10,775,680)$ | $(96,651,456)$ |
| 2026 | 91,361,697 | 5,485,923 |
| 2027 | $(17,292)$ | 1,045,790 |
| Thereafter | $(1,080,372)$ | 1,045,790 |
| Net deferred outflows/(inflows) of resources | \$106,066,767 | (\$308,841,819) |

## Section 3: Additional Information for GASB 68

Exhibit $C$ below shows the individual components of collective pension expense, which totaled $\$ 87,820,418$ for the fiscal year that ended June 30, 2022.

Annual pension expense for the year can also be viewed as the change in net pension liability, plus employer contributions for the year, less the change in outstanding balances of deferred outflows and deferred inflows of resources from the end of the prior fiscal year to end of the current fiscal year. From Exhibit A, the change in net pension liability during the year was $\$ 402,397,657$ and employer contributions were $\$ 100,331,347$. The net value of deferred outflows and deferred inflows of resources as of the end of the current fiscal year is $\$ 106,066,767$ compared to the net value as of the end of the prior fiscal of $-\$ 308,841,819$ for a change of $\$ 414,908,586$. Therefore, the pension expense for the fiscal year that ended June 30, 2022, is $\$ 402,397,657+\$ 100,331,347-$ $\$ 414,908,586$, or $\$ 87,820,418$.

## Exhibit C: Collective Pension Expenses

| Components of Pension Expense | Fiscal Year Ending June 30, 2022 | Fiscal Year Ending June 30, 2021 |
| :---: | :---: | :---: |
| Service cost | \$92,335,934 | \$87,088,239 |
| Interest on the Total Pension Liability | 311,929,245 | 300,698,090 |
| Projected earnings on plan investments | $(235,813,705)$ | $(190,267,717)$ |
| Member contributions | $(92,462,223)$ | $(90,557,210)$ |
| Contributions - purchased service credit | $(2,017,055)$ | $(2,559,121)$ |
| Contributions - other | $(25,166)$ | $(126,112)$ |
| Administrative expense | 2,592,340 | 2,678,375 |
| Current Year recognition of: |  |  |
| Changes in assumptions | 7,401,861 | 31,876,808 |
| Difference between expected and actual experience | $(13,018,411)$ | $(11,639,717)$ |
| Difference between projected and actual earnings on pension plan investments | 16,897,598 | $(90,688,425)$ |
| Change of benefit terms | 0 | 0 |
| Total pension expense | \$87,820,418 | \$36,503,210 |

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## Section 3: Additional Information for GASB 68

TFFR is classified as a cost-sharing multiple-employer defined benefit pension plan for GASB accounting purposes. As specified in GASB 68, employers that participate in TFFR are required to recognize their proportionate share of the collective pension amounts for all benefits provided through the Fund. Pension amounts to be recognized by employers include the net pension liability, deferred outflows of resources related to pensions, deferred inflows of resources related to pensions, and pension expense. In addition, the effects of (1) a change in the employer's proportion of the collective net pension liability and (2) differences during the measurement period between the employer's contributions and its proportionate share of the total of contributions from employers included in the collective net pension liability are required to be determined and recognized.

The basis of an employer's allocation of the collective pension amounts should be consistent with the manner in which contributions to the plan are determined. Since contributions to TFFR are collected as a percentage of payroll, covered payroll for the fiscal year ending June 30, 2022, is used as the proportionate share allocation basis. Retirement and Investment Office staff supplied covered payroll for each employer.

The net effect of the change on an employer's proportionate share of the collective net pension liability and collective deferred outflows of resources and deferred inflows of resources is recognized over the average of the expected remaining service lives of all members who are provided with pensions through TFFR.

In addition, the difference between the actual employer contributions and the proportionate share of the employer contributions during the measurement period ended June 30, 2022, is recognized over the same period. However, since TFFR contributions are collected on the same basis as the proportionate share allocation, there is no difference between the actual employer contributions and the proportionate share of the employer contributions. If employers no longer report to TFFR, they will continue to remain on the schedule until their deferral balances are depleted.

Exhibits $D$ and $E$ that follow show the proportionate share information for employers of TFFR for the fiscal year ending June 30, 2022.

## Section 3: Additional Information for GASB 68

EXHIBIT D
Schedule of Employer Allocations as of June 30, 2022

| Employer Name | Covered Payroll |  | Employer's Proportionate Share Allocation |
| :---: | :---: | :---: | :---: |
| Alexander School | \$ | 1,683,942 | 0.21399356\% |
| Anamoose School |  | 802,268 | 0.10195133\% |
| Apple Creek Elem School |  | 413,177 | 0.05250609\% |
| Ashley School |  | 1,050,363 | 0.13347904\% |
| Bakker Elem Sochool |  | 51,575 | $0.00655410 \%$ |
| Barnes County North |  | 1,747,452 | 0.22206434\% |
| Beach School |  | 2,298,079 | 0.29203750\% |
| Belcourt School |  | 10,001,482 | 1.27097779\% |
| Belfield - Public School |  | 1,46̄6,695 | $0.18 \overline{86} \overline{8} \overline{6} 05 \%$ |
| Beulah School |  | 3,928,555 | 0.49923666\% |
| Billings Co. School Dist. |  | 1,002,948 | 0.12745353\% |
| Bismarck Public Schools |  | 84,464,921 | 10.73371266\% |
| Blessed John Paul II Catholic Sch Network |  |  | 0.00000000\% |
| Bottineau School |  | 4,154,381 | 0.52793431\% |
| Bowbells School |  | 693,834 | 0.08817167\% |
| Bowman School |  | 3,288,361 | 0.41788141\% |
| Burke Ce-entral School |  | 89$\overline{3}, 574$ | $0.11355444 \%$ |
| Burleigh County Spec. Ed. |  | 122,822 | 0.01560814\% |
| Carrington School |  | 2,917,266 | 0.37072310\% |
| Cavalier School |  | 2,505,133 | 0.31834966\% |
| Center Stantón School |  | 1,712,755 | $0.2 \overline{17} \overline{6} 5508 \%{ }^{\text {- }}$ |
| Central Cass School |  | 4,687,777 | 0.59571772\% |
| Central Elementary School |  |  | 0.00000000\% |
| Central Regional Education Association |  | 1,238,025 | 0.15732696\% |
| Central Valley School |  | 1,374,025 | 0.174600968\% |
| Dakota Prairie School |  | 2,270,176 | 0.28849160\% |
| Devils Lake School |  | 11,725,608 | 1.49007788\% |
| Dickinson School |  | 25,279,017 | 3.21243067\% |
| Divide S̄chool |  | 3,045,926 | 0.387077308\% |
| Drake School |  | 554,947 | 0.07052203\% |
| Drayton School |  | 1,437,551 | 0.18268245\% |
| Dunseith School |  | 4,056,962 | 0.51555447\% |
|  |  | 711,090 | $0.00903 \overline{6} \overline{45} 9 \%{ }^{-}$ |
| Earl Elem. School |  | 27,800 | 0.00353280\% |
| Edgeley School |  | 1,440,668 | 0.18307861\% |
| Edmore School |  | 652,995 | 0.08298195\% |
| Eight Mile Sochool |  | 1,969,234 | 0.2502 $\overline{4817 \%}$ |
| Elgin-New Leipzig School |  | 1,297,076 | 0.16483102\% |
| Ellendale School |  | 1,765,034 | 0.22429870\% |
| Emerado Elementary School |  | 752,321 | 0.09560410\% |
| Enderlin Areä School District |  | 2,224,959 | 0.2827 $\overline{4542}$ \% |
| Fairmount School |  | 801,059 | 0.10179779\% |
| Fargo Public Schools |  | 84,040,157 | 10.67973402\% |
| Fessenden-Bowdon School |  | 1,159,245 | 0.14731560\% |
| Finley-Sharon School |  | 1,183,540 |  |
| Flasher School |  | 1,404,159 | 0.17843900\% |
| Fordville Lankin School |  | 485,820 | 0.06173752\% |
| Fort Ransom Elem School |  | 198,943 | 0.02528144\% |
| Fort Totten School |  | 2,023, 042 | 0.2570̄8597\% |
| Fort Yates School |  | 980,956 | 0.12465883\% |
| Gackle-Streeter Pub Sch |  | 909,020 | 0.11551734\% |
| Garrison School |  | 2,528,284 | 0.32129160\% |
| Glèn Ulliin School |  | 1,110,245 | 0.1410] $\overline{87} 8 \%$ |
| Glenburn School |  | 1,835,152 | 0.23320917\% |
| Goodrich School |  | 188,776 | 0.02398939\% |
| Grafton School |  | --- | 0.00000000\% |
| Grafton School District |  | 4,754,793 | 0.60423401\% |
| Grand Forks School |  | 50,955,420 | 6.47536073\% |
| Great North West Cooperative |  | 176,372 | 0.02241314\% |
| Grenora School |  | 1,537,603 | 0.19539700\% |

# Section 3: Additional Information for GASB 68 

EXHIBIT D
Schedule of Employer Allocations as of June 30, 2022

| Employer Name | Covered Payroll |  | Employer's Proportionate Share Allocation |
| :---: | :---: | :---: | :---: |
| Griggs County Central Sch | \$ | 1,600,464 | 0.20338524\% |
| Gst Educational Services |  | 1,919,085 | 0.24387533\% |
| Halliday School |  | 294,766 | 0.03745853\% |
| Hankinson School |  | 1,655,584 | 0.21038992\% |
| Harvey School |  | 2,338,641- | $0.297 \overline{19} \overline{202} \%$ |
| Hatton Eielson Psd |  | 1,314,059 | 0.16698920\% |
| Hazelton - Moffit School |  | 994,396 | 0.12636681\% |
| Hazen School |  | 3,241,652 | 0.41194573\% |
| Hebron Sochool |  | 1,155,067 | 0.1467 $\overline{8} \overline{465 \%}$ |
| Hettinger School |  | 1,550,937 | 0.19709143\% |
| Hillsboro School |  | 2,959,778 | 0.37612548\% |
| Hope School |  |  | 0.0000000\% |
| Hope-Page Public S̄chool District |  | 1,583,351 | 0.20121062\% |
| Horse Creek Elem. School |  | 42,600 | 0.00541356\% |
| James River Multidistrict Spec Ed Unit |  | 1,178,496 | 0.14976200\% |
| Jamestown School |  | 14,074,558 | 1.78857987\% |
| Kenmare S̄chool |  | 1,881,053 | $0.2 \overline{39} \overline{0} \overline{2} 2 \overline{0} \%$ |
| Kensal School |  | 296,702 | 0.03770462\% |
| Kidder County School District |  | 2,188,284 | 0.27808484\% |
| Killdeer School |  | 4,078,425 | 0.51828193\% |
| Kindred Sōchool |  | 4,373, $\overline{15}{ }^{-1}$ | $0.55573 \overline{5} 4 \overline{6} \%$ |
| Kulm School |  | 1,047,713 | 0.13314227\% |
| Lake Region Spec Ed |  | 1,975,278 | 0.25101629\% |
| Lakota School |  | 1,242,655 | 0.15791522\% |
| Lamoure School |  | 1,582̄,085 | $0.2010 \overline{4973 \%}$ |
| Langdon Area School |  | 2,432,665 | 0.30914045\% |
| Larimore School |  | 2,113,753 | 0.26861350\% |
| Leeds School |  | 974,729 | 0.12386759\% |
| Lewis And Clark Sōchool |  | 2,583, $40{ }^{-}$ |  |
| Lidgerwood School |  | 1,251,394 | 0.15902581\% |
| Linton School |  | 1,675,087 | 0.21286831\% |
| Lisbon School |  | 4,020,068 | 0.51086600\% |
| Litchville-Marion Sōchool |  | $93 \overline{4}, 524$ | $0.1 \overline{1875827 \%}$ |
| Little Heart Elem. School |  | 175,304 | 0.02227745\% |
| Logan County |  | - | 0.00000000\% |
| Lone Tree Elem. School |  | 287,764 | 0.03656870\% |
| Lonetree- Spec Ed Ünit |  |  | 0.0̄000̄0̄000\% |
| Maddock School |  | 873,946 | 0.11106008\% |
| Mandan Public Schools |  | 23,882,708 | 3.03498927\% |
| Mandaree School |  | 1,562,031 | 0.19850121\% |
| Manning Elem School |  | 117,831 | 0.014 $\overline{14} \overline{7} 390 \%{ }^{-}$ |
| Manvel Elem. School |  | 1,084,977 | 0.13787766\% |
| Maple Valley School |  | 1,683,957 | 0.21399545\% |
| Mapleton Elem. School |  | 1,212,909 | 0.15413520\% |
| Märmarth Elem. School |  | 161,673 | 0.020 $\overline{5} \overline{5} 519 \%$ |
| Max School |  | 1,266,983 | 0.16100688\% |
| May-Port C-G School |  | 2,876,271 | 0.36551347\% |
| Mcclusky School |  | 769,917 | 0.09784027\% |
| $\bar{M} \overline{\text { cojenzie }}$ Coünty |  | 49, $\overline{635}$ | 0.0̄06 $\overline{3} \overline{7} \overline{757} \%$ |
| Mckenzie County School |  | 11,569,778 | 1.47027513\% |
| Medina School |  | 1,158,561 | 0.14722870\% |
| Menoken Elem School |  | 238,950 | 0.03036551\% |
| Midkota ${ }^{\text {a }}$ - |  | 1,531,586 | $0.194 \overline{6} \overline{2} 28 \%^{-}$ |
| Midway School |  | 1,417,750 | 0.18016615\% |
| Milnor School |  | 1,543,445 | 0.19613932\% |
| Minnewaukan School |  | 2,060,424 | 0.26183650\% |
| Minot School |  | 50,037,599 | $6.35872499 \%$ |
| Minto School |  | 1,767,615 | 0.22462660\% |
| Mohall Lansford Sherwood |  | 2,111,328 | 0.26830535\% |
| Montpelier School |  | 819,467 | 0.10413704\% |

# Section 3: Additional Information for GASB 68 

EXHIBIT D
Schedule of Employer Allocations as of June 30, 2022

| Employer Name | Covered Payroll | Employer's Proportionate Share Allocation |
| :---: | :---: | :---: |
| Morton County |  | 0.00000000\% |
| Mott-Regent School | \$ 1,365,320 | 0.17350335\% |
| Mt Pleasant School | 1,983,045 | 0.25200330\% |
| Munich School | 1,065,904 | 0.13545401\% |
|  |  | $0.0 \overline{0} 0 \overline{0} \overline{0} 00 \overline{\%}{ }^{-}$ |
| Napoleon School | 1,607,110 | 0.20422979\% |
| Naughton Rural School | 161,256 | 0.02049229\% |
| Nd Center For Distance Education | 1,993,195 | 0.25329306\% |
| $\overline{\mathrm{N}} \mathrm{d}$ - Dept Of $\overline{\text { P }}$ Pūblic İ İstruction | 2888,366 | 0.03366̄4525\% |
| Nd School For Blind | 700,538 | 0.08902358\% |
| Nd School For Deaf | 882,789 | 0.11218385\% |
| Nd United | 18,010 | 0.00228865\% |
|  | 287, 844 | $0.03657896 \%$ |
| Nedrose School | 3,736,018 | 0.47476918\% |
| Nelson County | 10,864 | 0.00138060\% |
| Nesson School | 2,486,692 | 0.31600620\% |
|  | 1,737, $\overline{629}$ | 0.22081702\% |
| New Rockford Sheyenne School | 1,864,113 | 0.23688952\% |
| New Salem-Almont | 2,259,757 | 0.28716753\% |
| New Town School | 7,046,089 | 0.89540955\% |
| $\overline{\text { Newburg Un United District }}$ | 8009,511 | 0.10287179\% |
| North Border School | 2,614,164 | 0.33220521\% |
| North Sargent School | 1,517,878 | 0.19289037\% |
| North Star | 1,776,293 | 0.22572948\% |
| North Vailey Äreac ${ }^{\text {coreer }}$ | 8700,809 | $0.110 \overline{6} \overline{14} 7{ }^{\text {\% }}$ |
| Northern Cass School Dist | 3,540,883 | 0.44997172\% |
| Northern Plains Spec Ed | 505,742 | 0.06426918\% |
| Northwood School | 2,122,687 | 0.26974876\% |
| Oakes S̄chool - | 2,531,154 | 0.32165638\% |
| Oberon Elem School | 517,407 | 0.06575151\% |
| Oliver - Mercer Spec Ed | 1,027,559 | 0.13058109\% |
| Page School | ---ニ- | $0.0000000 \%$ |
| Park River Areas School Disistrict | -2,220],065 | $0.282 \overline{12} 354 \%$ |
| Parshall School | 1,622,508 | 0.20618660\% |
| Peace Garden Spec Ed | 723,902 | 0.09199274\% |
| Pembina Spec Ed Coop | 130,251 | 0.01655219\% |
| Pingree-- Buchanan School | 951,587 | 0.12092 $\overline{665 \%}$ |
| Powers Lake School | 1,419,483 | 0.18038644\% |
| Richardton-Taylor | 1,799,472 | 0.22867495\% |
| Richland School | 1,858,622 | 0.23619167\% |
| Rōbinsōn School |  | 0. $0.0 \overline{0} \overline{0} \overline{0} 000{ }^{-}$ |
| Rolette School | 1,411,679 | 0.17939463\% |
| Roosevelt School | 379,403 | 0.04821414\% |
| Roughrider Area Career And Tech Center | 271,391 | 0.03448809\% |
| Roughrider Service Program | 20̄6,712 | 0.0̄262 $\overline{6} \overline{87} \overline{4} \overline{\%}$ |
| Rugby School | 3,974,774 | 0.50511012\% |
| Rural Cass Spec Ed | 1,624,366 | 0.20642273\% |
| Sargent Central School | 1,733,157 | 0.22024773\% |
| Sawyer S̄chool | 86̄6,760 | $0.11014 \overline{7} 00 \%$ |
| Scranton School | 1,172,469 | 0.14899606\% |
| Se Region Career And Tech | 1,911,342 | 0.24289136\% |
| Selfridge School | 747,991 | 0.09505392\% |
| Sheyenne Valliey Ārea Vō | 1,014,461 | $0.12891 \overline{106} \%{ }^{-1}$ |
| Sheyenne Valley Spec Ed | 1,642,417 | 0.20871664\% |
| Slope County | 27,975 | 0.00355497\% |
| Solen - Cannonball School | 1,844,198 | 0.23435878\% |
| Souris Vallley Sospec Ed | 1,196, 250 | $0.15201821 \%$ |
| South Cent. Prairie Sp Ed | 370,641 | 0.04710063\% |
| South East Education Cooperative | 796,023 | 0.10115782\% |
| South Heart School - . - | 2,377,145 | 0.30208511\% |

## Section 3: Additional Information for GASB 68

EXHIBIT D
Schedule of Employer Allocations as of June 30, 2022

|  |  | Employer's <br> Proportionate |
| :--- | ---: | ---: | ---: |
| Employer Name | Covered Payroll | Share Allocation |

Section 3: Additional Information for GASB 68

EXHIBIT E
Schedule of Pension Amounts by Employer as of June 30, 2022

| Employer Name | Employer's Proportionate Share Allocation | $\begin{gathered} \text { Net Pension } \\ \text { Liability } \\ \hline \end{gathered}$ | Covered Payroll | Discount Rate Sensitivity |  |  | Schedule of Contributions |  |  |  | Pension Expense |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | 1\% Decrease (6.25\%) | $\begin{gathered} \text { Current } \\ \text { Discount Rate } \\ (7.25 \%) \\ \hline \end{gathered}$ | 1\% Increase <br> (8.25\%) | Statutory Required Contribution |  | Contribution Deficiencyl (Excess) | Contributions as a Percentage of Covered Payroll | Proportionate Share of Plan Pension Expense | Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions | Total Employer Pension Expense |
|  | (1) | ${ }^{(2)}$ | ${ }^{(3)}$ | (4) | (5) | (6) | ${ }^{(7)}$ | (8) | ${ }^{(9)}$ | (10) | (11) | (12) | (13) |
| Alexander School | 0.21399356\% | \$ 3,115,860 | 1,683,942 | 4,280,905 | 3,115,860 | 2,149,601 | 214,703 | 214,703 | \$ - | 12.75\% | 187,930 | 106,576 | 294,506 |
| Anamoose School | 0.10195133\% | 1,484,465 | 802,268 | 2,039,519 | 1,484,465 | 1,024,118 | 102,289 | 102,289 |  | 12.75\% | 89,534 | (23,961) | 65,573 |
| Apple Creek Elem School | 0.05250609\% | 764,516 | 413,177 | 1,050,376 | 764,516 | 527,432 | 52,680 | 52,680 |  | 12.75\% | 46,111 | (297) | 45,814 |
|  | $\frac{0.13347904 \%}{0.006554 i 0 \%}$ - | 1, 1943,526- | - | - $-\frac{2.670,226}{131} 11.14$ | - 1.2943 .55 |  | - $-133,921$ | - 133.921. |  | . $12.75 \%$ | -117,222 | (33,852) | $\xrightarrow{83,370}$ |
| Barnes County North | 0.22206434\% | 3,233,374 | 1,747,452 | 4,442,360 | ${ }_{3,233,374}^{95,31}$ | 2,230,673 | 222,800 | 222,800 |  | 12.75\% | 5,756 195,018 | (79,727) | 115, 291 |
| Beach School | 0.29203750\% | 4,252,221 | 2,298,079 | 5,842,161 | 4,252,221 | 2,933,565 | 293,005 | 293,005 |  | 12.75\% | 256,469 | (79,401) | 177,068 |
| Belcourt School | 1.277097779\% | 18,506,110 | 10,001,482 | 25,425,698 | -18,506,110 | 12,767, 183 | 1,275,189 | 1,275,189 |  | 12.75\% | 1,116,178 | (64,752) | 1,051,426- |
| Belfield Public School | 0.186338605\% ${ }^{\text {- }}$ | 2,713,880 | 1,466,695 | 3,728,622 | 2,713,880 | 1,8772,279 | 187,00̄ | 187,004 ${ }^{-}$ |  | 12.75\% | 163,685 | (62,179) | 101,506- |
| Beulah School | 0.49923666\% | 7,269,150 | 3,928,555 | 9,987,146 | 7,269,150 | 5,014,915 | 500,891 | 500,891 |  | 12.75\% | 438,432 | (86,818) | 351,614 |
| Billings Co . School Dist. | 0.12745353\% | 1,855,791 | 1,002,948 | 2,549,687 | 1,855,791 | 1,280,292 | 127,876 | 127,876 |  | 12.75\% | 111,930 | 43,754 | 155,684 |
|  | - $10.73377266 \%$ - | .156,288,542 | .84,464,921-1 | 214,726, 126 | 156:288,542 | 107.821,929 | 10,769,278 | 10,769,278. |  | $\begin{array}{r} -\frac{12.75 \%}{0.00 \%} \\ \hline \end{array}$ | 9,426-391. | $-\frac{(122,311)}{(8,367)}$ | $.9,297,080$ |
| Bottineau School | 0.52793431\% | 7,687,003 | 4,154,381 | 10,561,238 | 7,687,003 | 5,303,188 | 529,684 | 529,684 |  | 12.75\% | 463,634 | (128,418) | 335,216 |
| Bowbells School | 0.08817167\% | 1,283,826 | 693,834 | 1,763,860 | 1,283,826 | 885,699 | 88,464 | 88,464 |  | 12.75\% | 77,433 | 5,060 | 82,493 |
| Bowman School | 0.41788141\% | 6,084,575 | 3,288,361 | 8,359,648 | 6,084,575 | 4,197,688 | 419,266 | 419,266 |  | 12.75\% | 366,985 | (37,622) | 329,363 |
| Büre Cenentral School | $0.11 \overline{355444 \%}$ | 1,653,413 | 899,574 | 2,271,638 | 1,653,413 | 1,140,673 | 113,931 | 113,931 |  | 12.75\% | 99,724 | (2,309) | 79,415 |
| Burleigh County Spec. Ed. | 0.01560814\% | 227,263 | 122,822 | 312,238 | 227,263 | 156,786 | 15,660 | 15,660 |  | 12.75\% | 13,707 | 2,585 | 16,292 |
| Carrington School | 0.37072310\% | 5,397,925 | 2,917,266 | 7,416,254 | 5,397,925 | 3,723,975 | 371,951 | 371,951 |  | 12.75\% | 325,571 | (166,176) | 159,395 |
| Cavalier School | 0.3183496\% | 4,635,340 | 2,505,133 | 6,368,532 | 4,635,340 | 3,197,875 | 319,405 | 319,405- |  | .12.75\% | 279.576 | (55, 345) | 224,231- |
| Ceniter Stantoon Schiool | 0.21765508\% ${ }^{-1}$ | 3,169,173 | 1,712,755 | 4,354,153 | 3,169,173 | 2,186,381 | 218,376 | 218,376 |  | ${ }^{12.75 \%}$ | 191,146 | (21,465) | 169,681 |
| Central Cass School | 0.59571772\% | 8,673,966 | 4,687,777 | 11,917,233 | 8,673,966 | 5,984,084 | 597,692 | 597,692 |  | 12.75\% | 523,162 | 77,665 | 600,827 |
| Central Elementary School | 0.00000000\% |  |  |  |  |  |  |  |  | 0.00\% |  | (19,073) | $(19,073)$ |
| Central Regional Education Association | 0.15732696\% | 2,290,764 | 1,238,025 | 3,147,300 | 2,290,764 | 1,580,375 | 157,848 | 157,848 |  | 12.75\% | 138,165 | 292,254 | 430,419 |
| Central Valley School | 0.17460968\% | 2,542,409 | 1,374,025 | 3,493,037 | 2,542,409 | 1,753,983 | 175,188 | 175,188 |  | ${ }^{12} 2.75 \%$ | 153,343 | (45,088) | 108,255 |
| Dakota Prairie School | 0.28849160\% | 4,200,591 | 2,270,176 | 5,771,226 | 4,200,591 | 2,897,946 | 289,448 | 289,448 |  | 12.75\% | 253,355 | 8.512 | 261,867 |
| Devils Lake School | 1.49007788\% | 21,696,323 | 11,725,608 | 29,808,759 | 21,696,323 | 14,968,080 | 1,495,015 | 1,495,015 |  | 12.75\% | 1,308,593 | $(277,356)$ | 1,031,237 |
| Dickinson School. | $\frac{3.21243067 \%}{0.38707308 \%}$ | $\frac{46,774,692}{5,635,989}$ | - $25.2 .279,017$ | -64,264, 138 | - $46,774,692$ | - $\frac{32,269,400}{3}$ | - $3.223,075$ | 3, $\frac{223,075}{388.356}$ |  | . $12.75 \%$ | . 2.8281 .170 | - $-\frac{711,245}{52593}$ | - $3.5322 .415-$ |
| Drake School | 0.07052203\% | 1,026,838 | 554,947 | 1,410,781 | 1,026,838 | 708,406 | 70,756 | 70,756 |  | 12.75\% | 61,933 | (24,414) | 37,519 |
| Drayton School | 0.18268245\% | 2,659,953 | 1,437,551 | 3,654,532 | 2,659,953 | 1,835,076 | 183,288 | 183,288 |  | 12.75\% | 160,432 | (30,982) | 129,450 |
| Dunseith School | 0.51555447\% | 7,506,746 | 4,056,962 | -10,313,581 | 7,506,746 | 5,178,830 | 517,263 | 517,263 |  | 12.75\% | 452,762 | 163,054 | 615,816- |
| E Central Ctr Exx Cochiid | 0.090364659\% | 1,315,756 | 711,090 | 1,807,729 | 1,315,756 | 907,727 | 90,664 | 90,664 |  | ${ }^{12} 2.75 \%$ | 79,359 | (74,896) | 4,463 |
| Earl Elem. School | 0.00353280\% | 51,439 | 27,800 | 70,673 | 51,439 | 35,488 | 3,545 | 3,545 |  | 12.75\% | 3,103 | (2,724) | 379 |
| Edgeley School | 0.18307861\% | 2,665,722 | 1,440,668 | 3,662,457 | 2,665,722 | 1,839,055 | 183,685 | 183,685 |  | 12.75\% | 160,780 | (28,756) | 132,024 |
| Edmore School | - $0.0 .08298195 \%$. | $\frac{1,208,261}{3,643,746}$ | - 1.962 .995 | - $1.660,040$ | - $1,208,261$ | - 2.5313 .5687 | $\stackrel{83,257}{851077}$ | ${ }^{851,257}{ }^{83,}$ |  | . $12.75 \%$ | - 72.885 | - $\frac{(53,472)}{46,770}$ | - $29.4003 .53{ }^{-1}$ |
| Elgin-New Leipzig School | 0.16483102\% | 2,400,027 | 1,297,076 | 3,297,417 | 2,400,027 | 1,655,755 | 165,377 | 165,377 |  | 12.75\% | 144,755 | 4,313 | 149,068 |
| Ellendale School | 0.22429870\% | 3,265,908 | 1,765,034 | 4,487,058 | 3,265,908 | 2,253,118 | 225,042 | 225,042 |  | 12.75\% | 196,980 | (96,848) | 100,132 |
| Emerado Elementary School | 0.09560410\% | 1,392,046 | 752,321 | 1,912,544 | 1,392,046 | 960,359 | 95,921 | 95,921 |  | 12.75\% | 83,960 | 10,051 | 94,011- |
| Enderin Area School District | 0.28274542\% | 4,116,923 | 2,224,959 | 5,656,275 | 4,116,923 | 2,840,225 | 283,682 | 283,682 |  | 12.75\% | 248,308 | (56,235) | 192,073 |
| Fairmount School | 0.10179779\% | 1,482,230 | 801,059 | 2,036,448 | 1,482,230 | 1,022,576 | 102,135 | 102,135 |  | 12.75\% | 89,399 | $(105,225)$ | $(15,826)$ |
| Fargo Public Schools | 10.67973402\% | 155,502,584 | 84,040,157 | 213,646,293 | 155,502,584 | 107,279,704 | 10,715,121 | 10,715,121 | - | 12.75\% | 9,378,987 | 53,478 | 9,432,465 |
| $\frac{\text { Fessenden-Bowdon }}{\text { Fintey }}$ Shaor | - $0.147731560 \%$ - | $\frac{2,144,993}{2,189,947}$ | - $\frac{1,159,245}{1,183540}$ | - -2.947 .024 | - $2,144,9.93$ | 1,479,810 | $-147.804$ | $\frac{147,884}{150.909}$ |  | $\frac{12.75 \%}{12.75 \%}$ | 129.373 | (9,617) | -119,756- |
| Finces-Staron School Flasher School | 0.17843900\% | 2,598,166 | 1,104,159 | $3,569,642$ | $2,598,166$ 2,189 | 1,792,449 | 179,30 | 179,930 |  | 12.75\% | 135,085 1506 | - 26,486 | 183,192 |
| Fordville Lankin School | 0.06173752\% | 898,931 | 485,820 | 1,235,049 | 898,931 | 620,164 | 61,942 | 61,942 |  | 12.75\% | 54,218 | (53,245) | 973 |
| Fort Ransom Elem School | 0.02528144\% | 368,111 | 198.943 | 505,751 | 368,111 | 253,956 | 25,365 | 25,365 |  | 12.75\% | 22,202 | (3,277) | 18,925 |
| Forit Totten School | $0.25508597 \%$ | 3,743,308 | 2,023,042 | 5,142,962 | 3,743,308 | 2,582,471 | 257,938 | 257,938 |  | 12.75\% | 225,774 | 12,077 | 237,851 |
| Fort Yates School | 0.12465883\% | 1,815,099 | 980,956 | 2,493,779 | 1,815,099 | 1,252,219 | 125,072 | 125,072 |  | 12.75\% | 109,476 | $(105,509)$ | 3,967 |
| Gackle-Streeter Pub Sch | 0.11551734\% | 1,681,994 | 909,020 | 2,310,905 | 1,681,994 | 1,160,391 | 115,900 | 115,900 |  | 12.75\% | 101,448 | $(4,669)$ | 96,779 |
| Garrison School | 0.32212916\% | 4,678,176 | - 2.528 -284 | - 6.427 .385 | 4,678.176 | 3,227,428 | - 322.356 | 322,356 - |  | .12.75\% | 282.160 | ( 75.820 ) | -206,340- |
| Gien Ulin School | 0.14108878\% | 2,054,327 | $1,110,245$ 1835152 | $2,822,457$ 4665310 | $2,054,327$ 3,395649 | 1,417,260 | 141,556 | 141,556 |  | - ${ }^{12.75 \%}$ | 123,905 | (68,922) | 54,983 |
| Goodrich School | 0.233209739\% | $3,3959,649$ 349,298 | $1,835,152$ <br> 188776 | 4,665,310 | $3,395,649$ 349,298 | 2,342,625 240,977 | 233,982 24,069 | 233,982 24,069 | - | 12.75\% | 204,805 21,068 | ( ${ }_{(38,677)}^{(34,69)}$ | 170,136 $(17,609)$ |
| Gratton School | 0.00000000\% |  |  |  |  |  |  |  |  | 0.00\% |  | (1,200,284) | (1,200,284) |
| Grâton S'chool $\overline{\text { isistrict }}$ | 0.60423401\% | 8,797,967 | 4,754,793] | $12 \overline{087} 7.600$ | 8,797,967 | 6,069,631 | $606,23 \overline{6}$ | 606,236 |  | 12.75\% | 530,641 | 1,029,084 | 1,559,725 |
| Grand Forks School | 6.47536073\% | 94,284,682 | 50,955,420 | 129,538,508 | 94,284,682 | 65,046,075 | 6,496,817 | 6,496,817 |  | ${ }^{12.75 \%}$ | 5,686,689 | (927, 136) | 4,759,553 |
| Great North West Cooperative Grenora School | 0.02241314\% | $\begin{array}{r} 326,347 \\ 2.845,084 \end{array}$ | ${ }_{\text {176 }}^{17637.603}$ | 448,371 3.908 .884 | - $\begin{array}{r}326,347 \\ 2.845,084\end{array}$ | 225,144 $1.962,795$ | 22,487 196044 | 22,487 196.044 |  | $\begin{aligned} & \text { 12.75\% } \\ & \text { 12.755 } \end{aligned}$ | 19,683 171.598 | (5,400) | 14,283 <br> 197447 |
| Grenora School .---- - | -0.19539700\% | .. $2.845,084$ | .. $1.537-6.603$ | -. 3.908 .98884 | .- 2.845 .084 | 1,962,795 | -196,044 | 196,044 |  | .12.75\% | 171.598 | .25.849 | _ 197.447- |

Section 3: Additional Information for GASB 68

EXHIBIT E
Schedule of Pension Amounts by Employer as of June 30, 2022

| Employer Name | Employer's Proportionate Share Allocation | Net Pension Liability | Covered Payroll | Discount Rate Sensitivity |  |  | Schedule of Contributions |  |  |  | Pension Expense |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | $\begin{gathered} \text { 1\% Decrease } \\ (6.25 \%) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Current } \\ \text { Discount Rate } \\ (7.25 \%) \\ \hline \end{gathered}$ | 1\% Increase $(8.25 \%)$ | Statutory Required Contribution | Contributions In Relation to the Statutory Required Contribution | $\begin{gathered} \text { Contribution } \\ \text { Deficiency/ } \\ \text { (Excess) } \\ \hline \end{gathered}$ | $\begin{gathered} \text { Contributions } \\ \text { as a Percentage } \\ \text { of Covered } \\ \text { Payroll } \end{gathered}$ | Proportionate <br> Share of Plan Pension Expense | Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions | Total Employer Pension Expense |
|  | ${ }^{(1)}$ | ${ }^{(2)}$ | (3) | (4) | (5) | (6) | ${ }^{(7)}$ | (8) | ${ }^{(9)}$ | (10) | (11) | (12) | (13) |
| Griggs County Central Sch | 0.20338524\% | 2,961,397 | 1,600,464 | 4,068,688 | 2,961,397 | 2,043,039 | 204,059 | 204,059 | \$ - | 12.75\% | 178,614 | $(134,658)$ | 43,956 |
| Gst Educational Services | 0.24387533\% | 3,550,954 | 1,919,085 | 4,878,685 | 3,550,954 | 2,449,768 | 244,683 | 244,683 |  | 12.75\% | 214,172 | 24,192 | 238,364 |
| Halliday School | 0.03745853\% | 545,416 | 294,766 | 749,352 | 545,416 | 376,277 | 37,583 | 37,583 |  | 12.75\% | 32,896 | $(61,250)$ | (28,354) |
| Hankinson School | 0.21038992\% | 3,063,389 | 1,655.584 | 4,208:815 | 3.063,389. | 2.113,402 | 211,087 | 211,087. |  | 12.75\% | 184,765 | (50,604). | 134,161 |
| Harvey Šchooi | 0.29719202\% | 4,327,273 | 2,338,641 | 5,945,277 | 4,327,273 ${ }^{-}$ | 2,985,343 | 298,177 | 298,177 |  | 12.75\% | 260,995 | (94,323) | 166,672 |
| Hatton Eielson Psd | 0.16698920\% | 2,431,451 | 1,314,059 | 3,340,591 | 2,431,451 | 1,677,434 | 167,543 | 167,543 |  | 12.75\% | 146,651 | $(21,671)$ | 124,980 |
| Hazelton - Moffit School | 0.12636681\% | 1,839,968 | 994,396 | 2,527,947 | 1,839,968 | 1,269,376 | 126,786 | 126,786 |  | ${ }^{12.75 \%}$ | 110,976 | 14,260 | 125,236 |
| Hazen School | 0.41194573\% | 5,998,148 | 3,241,652 | 8,240,905 | 5,998,148. | 4,138,063 | 413,311 | 413,311 |  | 12.75\% | 361,772 | (76,742) | 285,030 |
| Hebron School | 0.14678465\% | 2,137,262 | 1,155,067 | 2,936,402 | 2,137,262 | 1,474,476 | 147,271 | 1477,271 |  | 12.75\% | 128,907 | (61,634) | 67,273 |
| Hettinger School | 0.19709143\% | 2,869,756 | 1,550,937 | 3,942,781 | 2,869,756 | 1,979,816 | 197,744 | 1977,74 |  | 12.75\% | 173,087 | $(72,865)$ | 100,222 |
| Hillsboro School | 0.37612548\% | 5,476,586 | 2,959,778 | 7,524,327 | 5,476,586 | 3,778,243 | 377,372 | 377,372 |  | 12.75\% | 330,315 | (9,123) | 321,192 |
| Hope School - | $0.00000000 \%$. |  |  |  |  |  |  |  |  |  |  | (171,456). | ( $\frac{1711,456)}{536550}$ |
| Hope-Page ${ }^{\text {Public Sochool }}$ District Horse Creek Elem. Schol | $0.20121062 \%$ 0.00541356\% | 2,9299,733 78,824 | $1,583,351$ 42,600 | 4,025, 185 108,297 | ${ }^{2,929,7}{ }_{78,824}$ | $\begin{array}{r} \overline{2}, \mathbf{0} \overline{21}, \overline{19} \overline{4} \\ 54,380 \end{array}$ | 201,877 5,431 | $\begin{gathered} 201, \overline{107} 7^{-} \\ 5,431 \end{gathered}$ |  | 12.75\% $12.75 \%$ | $\begin{array}{r} 17 \overline{1} \overline{6}, 704 \\ 4,754 \end{array}$ | ${ }^{359,946}$ (452) | $\begin{array}{r} 536,650 \\ 4,302 \end{array}$ |
| James River Multidistrict Spec Ed Unit | 0.14976200\% | 2,180,614 | 1,178,496 | 2,995,964 | 2,180,614 | 1,504,384 | 150,258 | 150,258 |  | 12.75\% | 131,522 | $(97,078)$ | 34,444 |
| Jamestown School | 1.78857987\% | 26,042,670 | 14,074,558 | 35,780,241 | 26,042,670. | 17,966,582 | 1,794,506 | 1,794,506. |  | 12.75\% | 1,570,738 | (530,807). | 1,039,931 |
| Kenmare School | 0.239074220\% | 3,480,581- | 1,881,053 | 4,781,999 | 3,480,581 | 2,401,2i9 | 239,834 | 239,834 |  | 12.75\% | 209,928 | (52,523) | 157,405 |
| Kensal School | 0.03770462\% | 548,999 | 296,702 | 754,275 | 548,999 | 378,749 | 37,830 | 37,830 |  | 12.75\% | 33,112 | $(5,555)$ | (20,443) |
| Kidder County School District | 0.27808484\% | 4,049,063 | 2,188,284 | 5,563,041 | 4,049,063 | 2,793,408 | 279,006 | 279,006 |  | 12.75\% | 244,215 | $(120,050)$ | 124,165 |
| Killdeer School | 0.51828193\% | 7,546,459 | 4,0788,425 | 10,368,143 | 7,546,459 | 5,206,228 | 519,999 | 519,999 |  | 12.75\% | 455,157 | 198,734. | 653,891 |
| Kindred School | 0.55573546\% | 8,091,803 | 4,373,152 | 11,117,395 | 8,091,803 | 5,582,455 | 557,577 | 557,577 |  | 12.75\% | 488,049 | 108,658 | 596,707 |
| Kulm School | $0.13314227 \%$ | 1,938,622 | 1,0477,713 | 2,663,489 | 1,938,622 | 1,337,436 | 133,583 | 133,583 |  | 12.75\% | 116,926 | (65,402) | 51,524 |
| Lake Region Spec Ed | 0.25101629\% | 3,654,930 | 1,975,278 | 5,021,539 | 3,654,930 | 2,521,500 | 251,848 | 251,848 |  | 12.75\% | 220,444 | (39,966) | 180,478 |
| Lakota School | 0.15791522\% | 2,299,329 | -1,242,655 | . $3,159,068$ | 2,299,329 | 1,586,285 | 158,438 | 158,438. |  | .12.75\% | 138.682 | (33,451). | 105,231. |
| Lamoure School | 0.20104993\% | 2,927,391 | 1,582,085 | 4,021,966 | 2,927,391 | 2,019,578 | 201,716 | 201,716 |  | - $12.75 \%$ | 176,563 | (84,655) | ${ }^{91,908}$ |
| Langdon Area School | 0.30914045\% | 4,501,249 | 2,432,665 | 6,184,303 | 4,501,249 | 3,105,367 | 310,165 | 310,165 |  | ${ }^{12.75 \%}$ | 271,488 | $(32,675)$ | 238,813 |
| Larimore School | 0.26861350\% | 3,911,155 | 2,113,753 | 5,373,568 | 3,911,155 | 2,698,267 | 269,504 | 269,504 |  | 12.75\% | 235,897 | $(87,156)$ | 148,741 |
| Leeds School | 0.12386759\% | 1,803,578 | 974,729- | 2,477,950 | 1,803,578 | 1,244,271 | 124,278 | 124,278 |  | 12.75\% | 108,781 | (90,707). | 18,074 |
| Lewis And Cliark Schooi | 0.328289622\% | 4,780,167 | 2,583,404 | 6,567,511 | 4,780,167 | 3,297,790 | 329,384 | 329,384 |  | ${ }^{12} 2.75 \%$ | ${ }^{2888,311}$ | (152,060) | 136,251 |
| Lidgerwood School | 0.15902581\% | 2,315,500 | 1,251,394 | 3,181,285 | 2,315,500 | 1,597,441 | 159,553 | 159,553 |  | 12.75\% | ${ }^{139,657}$ | $(29,589)$ | 110,068 |
| Linton School | 0.21286831\% | 3,099,475 | 1,675,087 | 4,258,395 | 3,099,475 | 2,138,298 | 213,574 | 213,574 |  | 12.75\% | 186,942 | $(84,196)$ | 102,746 |
| Lisbon School | 0.5108660\% | 7,438,480 | 4,020,068 | 10,219,789 | 7.438,480 | 5,131,734 | 512.559 | 512.559 |  | 12.75\% | 448.645 | (30,324). | 418,321- |
| Litchnvile-Marion Sechooi' | 0.118775827\% | 1,729,183 | 934,524 | 2,375,739 | 1,729,183 | 1,192,947 | 119,152 | 119,152 |  | ${ }^{12} 2.75 \%$ | 104,294 | (21,566) | 82,728 |
| Little Heart Elem. School | ${ }^{0.022227745 \%}$ | 324,371 | 175,304 | 445,657 | 324,371 | 223,781 | 22,351 | 22,351 |  | 12.75\% | 19,564 | ${ }^{10,284}$ | 29,848 |
| Logan County | 0.00000000\% |  |  |  |  |  |  |  |  | 0.00\% | - | $(1,219)$ | $(1,219)$ |
| Lone Tree Elem. School | $-0.03656870 \%$ | 532,460 | 287,764.4 | 731.551 | . 532.460 | 367,339 | 36,690 | 36,690. |  | - $12.75 \%$ | 32.115 | $-\overline{39,729}$ - | - 32,974 |
| Maddock School | 0.11106008\% | 1,617,094 | 873,946 | 2,221,738 | 1,617,094 | 1,115,617 | 111,428 | 111,428 |  | 12.75\% | 97,533 | $(82,586)$ | 14,947 |
| Mandan Public Schools | 3.03498927\% | 44,191,051 | 23,882,708 | 60,714,453 | 44,191,051 | 30,486,972 | 3,045,046 | 3,045,046 |  | 12.75\% | 2,665,340 | 164,357 | 2,829,697 |
| Mandaree School | 0.19850121\% | 2,890, 283 | 1,562,031 | - $3,970,984$ | 2,890, 283 | 1,993,978 | -199,159 | 199,159 |  | 12.75\% | 174,325 | (877,749) | 86,576 |
| Mäning Elem School | 0.01497390\% | 218,028 | 117,831 | 299,550 | 218,028 | 150,415 | 15,024 | 15,024 |  | 12.75\% | 13,150 | 1,351 | 14,501 |
| Manvel Elem. School | 0.13787766\% | 2,007,572 | 1,084,977 | 2,758,220 | 2,007,572 | 1,385,004 | 138,335 | 138,335 |  | 12.75\% | 121,085 | 31,216 | 152,301 |
| Maple Valley School | 0.21399545\% | 3,115,887 | 1,683,957 | 4,280,943 | 3,115,887 | 2,149,620 | 214,705 | 214,705 |  | 12.75\% | ${ }^{187,932}$ | $(72,997)$ | 114,935 |
| Mapleton Elem. School | 0.15413520\% | 2,244,290- | 1,212,909 | -3.083:449 | 2.244,290- | 1,548,314 | 154,646 | 154,646. |  | 12.75\% | 135.362 | 81,854. | 217,216 |
| Marmarth Elem. School | 0.02054519\% | 299,149 |  | 411,003 | 299,49 | 206,380 | 20,613 | 20,613 |  | ${ }^{12.75 \%}$ | 18,043 |  | 5,108 |
| Max School | 0.16100688\% | 2,344,345 | 1,266,983 | 3,220,916 | 2,344,345 | 1,617,341 | 161,540 | 161,540 |  | 12.75\% | 141,397 | $(36,871)$ | ${ }^{104,526}$ |
| May-Port C-G School | 0.36551347\% | 5,322,070 | 2,876,271 | 7,312,036 | 5,322,070 | 3,671,644 | 366,725 | 366,725 | - | 12.75\% | 320,995 | (110,164) | 210,831 67896 |
| Mcclusky School | 0.09784027\% | 1,424,606 | 769,917 | 1,957,278 | 1,424,606 | 982,822 | 98,164 | 98, 164 |  | 12.75\% | 85,924 | (18,028) | 67,896 |
| Mckenzie County | $0.006330757 \%$ | 91,842 | 49,635 | 126,182 | 91,842 | 63,361 | ${ }^{6,328}$ | ${ }^{6,3288}$ |  | 12.75\% | 5,539 | (2,677) | 2,862 |
| Mckenzie County School | 1.47027513\% | 21,407,985 | 11,569,778 | 29,412,608 | 21,407,985 | 14,769, 158 | 1,475,147 | 1,475,147 |  | ${ }^{12.75 \%}$ | 1,291,202 | 1,027,983 | 2,319,185 |
| Medina School | 0.14722870\% | 2,143,728 | 1,158,561 | 2,945,286 | 2,143,728 | 1,478,937 | 147,717 | 147,717 | - | 12.75\% | 129,297 | $(4,886)$ | 124,411 |
| Menoken EElem School | 0.03036551\% | 422,138 | 238,950 | 607.457 | 442,138. | 305,027 | -30,466 | 30,466. |  | 12.75\% | -26.667 | 17,977. | 43,864 |
| Midkota | 0.19463228\% | 2,833,949 | 1,5317,586 | 3,893,586 | 2,833,949 | 1,955,114 | 195,277 | 195,277 |  | ${ }^{12.75 \%}$ | 170,927 | 58,623 |  |
| Midway School | 0.18016615\% | 2,623,315 | 1,417,750 | 3,604,194 | 2,623,315 | 1,809,799 | 180,763 | ${ }^{180,763}$ |  | ${ }^{12.75 \%}$ | 158,223 | (71,751) | 86,472 |
| Milinor School | 0.19613932\% | 2,855,892 | 1,543,445 | 3,923,734 | 2,855,892 | 1,970,252 | 196,789 | 196,789 | - | 12.75\% | 172,250 | (68,012) | 104,238 |
| $\frac{\text { Minnewaukan }}{\text { Minot }}$ School | - $0.2618183650 \%$ | - $-\frac{32,812,478}{}$ | - ${ }_{-}^{20,060,424}$ |  | - $\begin{array}{r}3,812,478 \\ \hline 92,586,404 \\ \hline\end{array}$ | - ${ }^{2,63,830,191}$ | $\frac{262,704}{6,399,794}$ |  |  | - $12.72 \%$ | $\stackrel{\text { 229,946 }}{ }$ |  | ${ }^{-1,807, ~}{ }^{232680}$ |
| Minto School | 0.22462660\% | 3,270,682 | 1,767,615 | 4,493,618 | 3,270,682 | 2,256,412 | 225,371 | 225,371 |  | 12.75\% | 197,268 | 75,468 | 272,736 |
| Mohall Lansford Sherwood | 0.26830535\% | 3,906,668 | 2,111,328 | 5,367,404 | 3,906,668 | 2,695, 172 | ${ }^{269,194}$ | 269,194 | - | 12.75\% | 235,627 | (177,227) | 58,400 |
| Montpelier School | 0.10413704\% | 1,516,290 | 819,467 | 2,083,244 | 1,516,290 | 1,046,074 | 104,482 | 104,482 |  | 12.75\% | 91,454 | (18,001) | 73,453 |

Section 3: Additional Information for GASB 68

EXHIBIT E
Schedule of Pension Amounts by Employer as of June 30, 2022

| Employer Name | Employer's Proportionate Share Allocation | $\begin{gathered} \text { Net Pension } \\ \text { Liability } \end{gathered}$ | Covered Payroll | Discount Rate Sensitivity |  |  | Schedule of Contributions |  |  |  | Pension Expense |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | $\begin{gathered} \text { 1\% Decrease } \\ (6.25 \%) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Current } \\ \text { Discount Rate } \\ (7.25 \%) \\ \hline \end{gathered}$ | 1\% Increase $(8.25 \%)$ | Statutory Contribution | Contributions In Relation to the Statutory Required Contribution | Contribution Deficiencyl (Excess) | as a Percentage of Covered Payroll | Proportionate Share of Plan Pension Expense | Net Amortization of <br> Deferred Amounts <br> from Changes in <br> Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions | Total Employer Pension Expense |
|  | ${ }^{(1)}$ | ${ }^{(2)}$ | ${ }^{(3)}$ | (4) | (5) | (6) | (7) | (8) | (9) | (10) | (11) | (12) | (13) |
| Morton County | 0.00000000\% | \$ | \$ - | \$ - | \$ | \$ - | \$ - | \$ - | \$ | 0.00\% | \$ | $(8,407)$ | (8,407) |
| Mott-Regent School | 0.17350335\% | 2,526,301 | 1,365,320 | 3,470,905 | 2,526,301 | 1,742,870 | 174,078 | 174,078 |  | 12.75\% | 152,371 | (118,409) | 33,962 |
| Mt Peasant School | 0.25200330\% | 3,669,302 | 1,983,045 | 5,041,284 | 3,669,302 | 2,531,415 | 252,838 | 252,838 |  | 12.75\% | 221,310 | 1,255 | 222,565 |
| Munich School | 0.13545401\% | 1,972,282 | 1,065,904 | 2,709,735 | 1,972,282 | 1,360,658 | 135,903 | 135,903 |  | 12.75\% | 118,956 | (299) | 118,657 |
|  | 0.00000000\% |  |  |  |  |  |  |  |  | 0.00\% |  | (42,032) | (42,032) |
| Napoleon School | 0.20422979\% | 2,973,694 | 1,607,110 | 4,085,583 | 2,973,694 | 2,051,522 | 204,906 | 204,906 |  | 12.75\% | 179,355 | (63,964) | 115,391 |
| Naughton Rural School | 0.02049229\% | 298,379 | 161,256 | 409,945 | 298,379 | 205,848 | 20,560 | 20,560 |  | 12.75\% | 17,996 | 16,673 | 34,669 |
| Nd Center For Distance Education. | 0.25329306\% | 3,688,081 | 1,993, 195 | 5,067.085 | 3,688,081 | 2,544,371 | 254,132 | 254,132 |  | 12.75\% | 222.443 | 55,045. | 277,488 |
|  | $0.036644525 \%$ | 533,574 | 288,366 | 733,082 | 533,574 | 368, 10 - | 36,767 | 36,767 |  | 12.75\% | 32,182 | 29,397 | 61,579 ${ }^{-}$ |
| Nd School For Blind | 0.08902358\% | 1,296,230 | 700,538 | 1,780,902 | 1,296,230 | 894,257 | 89,319 | 89,319 |  | 12.75\% | 78,181 | $(31,249)$ | 46,932 |
| Nd School For Deaf | 0.11218385\% | 1,633,456 | 882,789 | 2,244,219 | 1,633,456 | 1,126,905 | 112,556 | 112,556 |  | 12.75\% | 98,520 | $(55,166)$ | 43,354 |
| Nd United | 0.00228865\% | 33,324 | 18.010 | 45,784 | 33,324 | 22,990 | 2,296 | 2,296 |  | 12.75\% | 2.010 | (86,416) | (84,406) |
| Nd Youth Correctional Cnt | 0.03657896\% | 532,609 | 287,844 | 731,756 | 532,609 | 367,442 | 36,700 | 36,700 |  | 12.75\% | 32, 124 | (269,101) | (236,977) |
| Nedrose School | 0.47476918\% | 6,912,891 | 3,736,018 | 9,497,678 | 6,912,891 | 4,769,135 | 476,342 | 476,342 |  | 12.75\% | 416,944 | 422,104 | 839,048 |
| Nelson County | 0.0013806\%\% | 20,102 | 10,864 | 27,619 | 20,102 | 13,868 | 1,385 | 1,385 |  | 12.75\% | 1,212 | (973) | 239 |
| Nesson School | 0.31600620\% | 4,601,218 | -2,486,692 | . 6.321 .651 | 4,601,218 | 3,174,335 | 317,053- | $\frac{317.053}{2-518}$ |  | .12.75\% | 277.518 | 140,475 | ${ }^{417,993}$ |
| New England School | 0.22081602\% | 3,215,198 | 1,737, 629 | $4,417,388$ | 3,215,198 | 2,2,18, ,134 | 221,548 | 221,548 |  | 12.75\% | 193,922 | 32,775 | ${ }^{22} 2 \overline{6}, 697$ |
| New Rockford Sheyenne School | 0.23688952\% | 3,449,237 | 1,864,113 | 4,738,935 | 3,449,237 | 2,379,595 | 237,674 | 237,674 |  | 12.75\% | 208,037 | $(76510)$ | 131,527 |
| New Salem-Almont | 0.28776753\% | 4,181,311 | 2,259,757 | 5,744,738 | 4,181,311 | 2,884,646 | 288,119 | 288,119 |  | 12.75\% | 252,192 | 8,387 | 260,579 |
| New Town School | 0.89540955\% | 13,037,637 | 7,046,089 | 17,912,518 | 13,037,637 | 8,994,538 | 898,376 | 898,376 |  | 12.75\% | 786,352 | 392,196 | 1,178,548 |
| Newburg United Disistrict | 0.10287179\% | 1,497,868 | 809,511 | 2,057,933 | 1,497,868 ${ }^{-1}$ | 1,033,364 | 103,213 | 103,213 |  | 12.75\% | 90,342 | 6,770 | 97,112 |
| North Border School | 0.33220521\% | 4,837,084 | 2,614,164 | 6,645,710 | 4,837,084 | 3,337,057 | 333,306 | 333,306 |  | ${ }^{12.75 \%}$ | 291,744 | (149,351) | 142,393 |
| North Sargent School | 0.19289037\% | 2,808,586 | 1,517,878 | 3,855,740 | 2,808,586 | 1,937,616 | 193,530 | 193,530 |  | 12.75\% | 169,397 | (27,845) | 141,552 |
| North Star | 0.22572948\% | 3,286,741 | 1,776,293 | -4,515,680 | 3,286,741 | 2,267,490 | 226,477 | 226.477 |  | .12.75\% | 198,237. | (46,161) | 152,076 |
| North Valley Area Career | 0.11066147\% | 1,611,290 | 850,809 | 2,213,764 | 1,611,290 | 1,111,613 | 111,028 | 111,028 |  | 12.75\% | 97,183 | ${ }^{47,977}$ | 145,160 |
| Northern Cass School Dist | 0.44997172\% | 6,551,827 | 3,540,883 | 9,001,609 | 6,551,827 | 4,520,041 | 451,463 | 451,463 |  | ${ }^{12.75 \%}$ | 395, 167 | ${ }^{60,078}$ | 455,245 |
| Northern Plains Spec Ed | 0.06426918\% | 935,793 | 505,742 | 1,285,694 | 935,793 | 645,595 | 64,482 | 64,482 |  | 12.75\% | 56,441 | 38,105 | 94,546 |
| Northwood School | 0.26974876\% | 3,927,685 | 2,122,687 | . $5,396,279$ | 3,927, 68. | 2,709,671 | 270,643- | 270.643 |  | 12.75\% | ${ }^{236} 8.894$ | 82,750 | 319,644- |
| Oakes S̄chool | 0.321655638\% | 4,683,487 | 2,531,154 | 6,434,682 | 4,683,4877 | 3,231,0992 | 322,722 | 322,722 |  | 12.75\% | 282, 780 | 10,095 | 292,575 |
| Oberon Elem School | 0.06575151\% | 957,377 | 517,407 | 1,315,348 | 957,377 | 660,485 | 65,969 | 65,969 |  | 12.75\% | 57,743 | $(8,088)$ | 49,655 |
| Oliver - Mercer Spec Ed | 0.13058109\% | 1,901,330 | 1,027,559 | 2,612,253 | 1,901,330 | 1,311,709 | 131,014 | 131,014 |  | 12.75\% | 114,677 | $(41,625)$ | 73,052 |
| Page School --- | 0.00000000\% |  |  |  |  |  |  |  |  | -0.00\% |  | (199,5880) | (199,580) |
| Parik River Arèa - Schooi District Parshall School | 0.282212354\% | 4,107, 86 | 2,220,065 | $5 \overline{643} \overline{83} \overline{83}$ | 4,107, $868{ }^{-}$ | 2,833,978 | 283,058 | 283,058 |  | 12.75\% | 247,762 | (79,514) | 168,248 |
| Parshall School Peace Garden Spec Ed | 0.20618660\% | 3,002,186 | 1,622,508 | 4,124,728 | ${ }^{3,002,186}$ | 2,071,179 | 206,870 | 206,870 |  | 12.75\% | 181,074 | (104,101) | 76,973 |
| Peace Garden Spec Ed Pembina Spec Ed Coop | 0.09199274\% | 1,339,463 | 723,902 | 1,840,299 | 1,339,463 | 924,082 | 92,298 | 92,298 |  | 12.75\% | 80,788 | 19,517 | 100,305 |
|  | 0.01655219\% | ${ }^{2} 781,009$ | ${ }^{-130,251}$ | - 2311.124 | - $1.741,009$. | - 166.270 | - 126,607 | $-16.607$ |  | - $12.75 \%$ | -14.536 | ${ }_{7} 7$ | . 14,794 - |
| Powers Lake School |  |  |  |  | , 626,522 |  | 180984 | 180,94 |  | 1275\% |  |  |  |
| Powers Lake School | 0.22867495\% | (1,626,522 | $1,499,483$ $1,799,472$ | 4,574,604 | ${ }_{3,329,628}^{2,028}$ | $1,81297,012$ 2,2978 | 229,933 | 229,433 |  | 12.75\% | 200,823 | (78,987) | 186,188 121,836 |
| Richland School | 0.23619167\% | 3,439,076 | 1,858.622 | 4,724,975 | 3,439,076 | 2,372, 585 | 236,974 | 236,974 |  | 12.75\% | 207.425 | (32,352) | 175,073 |
| Robinison Stchool | 0.00000000\% |  |  |  |  |  |  |  |  | 0.00\% |  | (10,092) | (10,092) |
| Rolette School | 0.17939463\% | 2,612,081 | 1,411,679 | 3,588,760 | 2,612,081 | 1,802,049 | 179,989 | 179,989 |  | 12.75\% | 157,545 | $(16,576)$ | 140,969 |
| Roosevelt School | 0.04821414\% | 702,023 | 379,403 | 964,516 | 702,023 | 484,319 | 48,374 | 48,374 |  | 12.75\% | 42,342 | (23,313) | 19,029 |
| Roughrider Area Career And Tech Center | 0.03448809\% | - $\frac{502,165}{382}$ | ${ }^{271,391}$ | $\frac{6899928}{52550}$ | . 502.165 | - 34646439 | -34,602 | 34,602 |  |  | - 30.288 | -16,899 | $\frac{47,187}{17,69}$ |
| Roughrider Service Program Rugby School | 0.50511012\% | 7,354,671 | 3,974,774 | 10,104,643 | 7,354,671 | 5,073,915 | 26,356 506,784 | 26,356 506,784 |  | 12.75\% | 443,590 | 14,454 | 458,044 |
| Rural Cass Spec Ed | 0.20642273\% | 3,005,624 | 1,624,366 | 4,129,452 | 3,005,624 | 2,073,551 | 207,107 | 207,107 |  | 12.75\% | 181,281 | 75,533 | 256,814 |
| Sargent Central School | 0.22024773\% | 3,206,924 | 1,733,157 | 4,406,019 | 3,206,924 | 2,212,425 | 220,978 | 220,978 |  | 12.75\% | 193.422 | 1,135 | 194,557 |
| Sawyer S̄chool | 0.11014700\% | 1,603,799 | 866,760 | 2,203,472 | 1,603,799 | 1,106,445 | 110,512 | 110,512 |  | 12.75\% | 96,732 | (59,070) | 37,662 |
| Scranton School | 0.14899606\% | 2,1699462 | 1,172,469 | 2,980,641 | 2,169,462 | 1,496,690 | 149,490 | 149,490 |  | 12.75\% | 130,849 | (45,992) | 84,857 |
| Se Region Career And Tech | 0.24289136\% | 3,536,627 | 1,911,342 | 4,859,001 | 3,536,627 | 2,439,884 | 243,696 | 243,696 | - | 12.75\% | 213,308 | 44,812 | 258, 120 |
|  | 0.09505392\% | 1,384,035 | 747,991 | -1,901,538 | 1,384,035. | -954,832 | 95,369 | 95,369 |  | 12.75\% | -83,477. | (66,395) | ${ }^{17} 17.082{ }^{143}$ |
| Sheyenne Valiey Area Voc | 0.12891668\% | 1,877,095 | 1,014,461 | 2,578,957 | 1,877,095 | 1,294,989 | 129,344 | 129,344 |  | 12.75\% | 113,215 | 30,116 | 143,331 |
| Sheyenne Valley Spec Ed | 0.20871664\% | 3,039,025 | 1,642,417 | 4,175,341 | 3,039,025 | 2,096,593 | 209,408 | 209,408 |  | 12.75\% | 183,296 | (88,924) | 94,372 |
| Slope County | 0.00355497\% | 51,762 | 27,975 | 71,117 | 51,762 | 35,710 | 3,567 | 3,567 | - | 12.75\% | 3,122 | (530) | 2,592 |
| Solen- - Cannonball School | $\frac{0.23435878 \%}{0.152018210 \%}$ | $\frac{3,412,388}{213}$ | - $-1,844,198$ | -4,688,308 | - $\frac{3,412,388}{213,466-}$ | $\frac{2,354,173}{1,527}$ | 235,135- | $\frac{235,135}{152.522}$ |  | $\frac{12.75 \%}{1275 \%}$ | ${ }^{205,815}$ | -(19,912) | $\left.\frac{185,903}{-(35800}\right)^{-}$ |
| Souris Valley Spec Ed South Cent. Praire Sp Ed | 0.15201821\% | 2,213,466 | 1,196,250 | 3,041,099 | $2,213,466$ 685,810 | 1,527,048 473 | 152,522 47.257 | 152.522 47.257 | - | 12.75\% $12.75 \%$ | 133,503 41,364 | (1699,303) | (35, 800$)^{102,494}$ |
| South East Education Cooperative | 0.10115782\% | 1,472,911 | 796,023 | 2,023,645 | 1,472,911 | 1,016,147 | 101,493 | 101,493 | - | 12.75\% | 88,837 | 172,833 | 261,670 |
| South Heart School | . $0.30208511 \%$ | 4,398,519 | 2.377,145 | . $6,043,162$ | 4.398.519. | 3,034,495 | 303.086 | 303, 2086 |  | 12.75\% | 265.292 | 138,147 | 403,439 |

## Section 3: Additional Information for GASB 68

EXHIBIT E
Schedule of Pension Amounts by Employer as of June 30, 2022

| Employer Name | Employer's Proportionate Share Allocation | Net PensionLiability | Covered Payroll | Discount Rate Sensitivity |  |  |  | Schedule of Contributions |  |  | Pension Expense |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | $\begin{gathered} \text { 1\% Decrease } \\ (6.25 \%) \\ \hline \end{gathered}$ | $\begin{gathered} \text { Current } \\ \text { Discount Rate } \\ (7.25 \%) \\ \hline \end{gathered}$ | 1\% Increase $(8.25 \%)$ | Statutory Required Contribution | Contributions In Relation to the Statutory Required Contribution | Contribution Deficiency/ (Excess) | Contributions as a Percentage of Covered Payroll | Proportionate Share of Plan Pension Expense | Net Amortization of Deferred Amounts from Changes in Proportion and Differences Between Employer Contributions and Proportionate Share of Contributions | Total Employer Pension Expense |
|  | ${ }^{(1)}$ | ${ }^{(2)}$ | (3) | (4) | (5) | (6) | (7) | (8) | ${ }^{(9)}$ | (10) | (11) | (12) | (13) |
| South Prairie School District | 0.37942103\% | 5,524,571 | 2,985,711 | 7,590,254 | 5,524,571 | 3,811,347 | 380,678 | 380,678 | \$ - | 12.75\% | 333,209 | 273,474 | ${ }^{606,683}$ |
| South Valley Spec Ed | 0.06778672\% | 987,011 | 533,422 | 1,356,062 | 987,011 | 680,929 | 68,011 | 68,011 |  | 12.75\% | 59,531 | $(77,807)$ | $(18,276)$ |
| Southwest Special Education Unit | 0.01481740\% | 215,749 | 116,600 | 296,420 | 215,749 | 148,843 | 14,866 | 14,866 |  | 12.75\% | 13,013 | 8,524 | 21,537 |
| St. John's School | 0.46550059\% | 6,777,935 | 3,663,082 | -9,312, 261 | 6,777, 933 | 4,676,031 | 467,043 | 467,043 |  | 12.75\% | 408,805 | 133,812 | 542.617 |
| St. Thomas School | 0.00000000\% |  |  |  |  |  |  |  |  | 0.00\% |  | (188,777) | (188,777) |
| Stanley School | ${ }^{0.459330358 \%}$ | 6,687,703 | 3,614,317 | 9,188,291 | 6,687,703 | 4,613,781 | 460,825 | 460,825 |  | 12.75\% | 403,362 | $(85,570)$ | 317,792 |
| Starkweather School | 0.08732127\% | 1,271,444 | 687,142 | 1,746,847 | 1,271,444 | 877,157 | 87,611 | ${ }^{87,611}$ |  | ${ }^{12.75 \%}$ | 76,686 | $(8,282)$ | 68,404 |
| Sterling School | 0.01988193\%. | 289,491 | 156.453 | 397,735 | 289,491. | 199,717 | 19,948 | 19,948. |  | .12.75\% | 17.460 | (35,107) | (17,647) |
| Strasaürg School $\overline{\text { District }}$ | 0.118550115\% ${ }^{-}$ | 1,725,440 | 932,500 | 2,370,596 | $1,725,44{ }^{-}$ | 1,190, 364 | 118,894 | 118,894 |  | ${ }^{12} 2.75 \%$ | 104,068 | (11,069) | 92,999 |
| Surrey School | 0.34182968\% | 4,977,221 | 2,689,900 | 6,838,246 | 4,977,221 | 3,433,736 | 342,962 | 342,962 |  | 12.75\% | 300, 196 | $(49,238)$ | 250,958 |
| Sweet Briar Elem School | 0.01666481\% | 242,648 | 131,138 | 333,377 | 242,648 | 167,401 | 16,720 | 16,720 |  | 12.75\% | 14,635 | 7,152 | 21,787 |
| Tgu School District | 0.34424184\%. | 5,012,344 | 2,708,882 | . $6.886,500$ | $5,012,344$ - | 3,457,967 | 345,382 | 345,382 |  | 12.75\% | 302,315 | (139,612). | 162,703 |
| Thompson School | 0.36222461\% | 5,274,182 | 2,850,391 | 7,246,243 | 5,274,182 | 3,638,606 | 363,425 | 363,425 |  |  |  |  | 407,996 |
| Tioga School | 0.44423973\% | 6,468,366 | ${ }^{3,4495,778}$ | ${ }^{8,8860,941}$ | ${ }^{6,468,366}$ | 4,462,462 | 445,712 | 445,712 |  | 12.75\% | 390,133 | (13,134) | 376,999 |
| Turtie Lake-Mercer School | 0.18042321\% | 2,627,058 | 1,419,773 | 3,609,336 | 2,627,058 | 1,812,381 | ${ }^{181,021}$ | 181,021 |  | 12.75\% | 158,448 | (12,271) | 146,177 |
| Twin Buttes Elem. School | 0.07434976\% | 1,082,572 | 585,068 | 1,487,355 | 1,082,572 | 746,856 | 74,596 | 74,596 |  | 12.75\% | 65,294 | 2,459 | ${ }_{6}^{67,753}{ }^{63}$ |
| Underwood School | 0.19749292\% ${ }^{\text {- }}$ | 2,875,602 | 1,554,096 | 3,950,813 | 2,875,602 | 1,983,849 | 198,147 | 198,147 |  | 12.75\% | 173,439 | (79,581) | 93,858 |
| United School | ${ }^{0.46889996 \% \%}$ | ${ }^{6,827,388}$ | 3,689,809 | 9,380,205 | ${ }^{6,827,388}$ | 4,710,148 | 470,451 | 470,451 |  | 12.75\% | 411,787 314.226 | 26,655 $(37,623)$ | 438,442 276.603 |
| Upper Valley Spec Ed | 0.35780504\% | 5,209,831 | 2,815,612 | 7,157,830 | 5,209,831 | 3,594,211 | 358,991 | 358,991 |  | 12.75\% | 314,226 | (37,623) | 276,603 |
| Valley-Edinburg School | 0.20000942\% | $\frac{2,912,243}{12,91}$ | 1,573.899 | 4,0011.155 | 2,912:243- | 2,009, 128 | 200.672- | $\frac{200.672}{80}$ |  | 12.75\% | 175.649 | (68,315). | 107,334- |
| Valiey C City School | 0.83731358\% | 12,191,729 | 6,588,925 | 16,750,318 | 12,191,729 | 8,410,954 | 840,088 | 840,088 |  | 12.75\% | 735,332 | (143,828) | 591,504- |
| Velva School | 0.37885969\% | 5,516,398 | 2,981,294 | 7,579,025 | 5,516,398 | 3,805,709 | 380,115 | 380,115 |  | 12.75\% | 332,716 | $(8,855)$ | 323,861 |
| Wahpeton School | 0.92512932\% | 13,470,373 | 7,279,958 | 18,507,057 | 13,470,373 | 9,293,078 | 928,195 | 928,195 |  | 12.75\% | 812,452 | (241,674) | 570,778 |
| Ward County | 0.00409657\% | 59,648 | 32,236 | 81,951 | 59,648. | 41,151 | 4,110 | 4,110 |  | 12.75\% | 3,598 | (653) | 2,945 |
| Warwick School | $0.24123786 \%{ }^{-}$ | 3,512,551 | 1,898, 331 | 4,825,923 | 3,512,551 | 2,423, 274 | 242,037 | 242,037 |  | 12.75\% | 211,856 | (78,408) | ${ }^{133} 3,448$ |
| Washburn School | 0.26952842\% | 3,924,477 | 2,120,953 | 5,391,871 | 3,924,477 | 2,707,458 | 270,421 | 270,421 |  | 12.75\% | 236,701 | 44,944 | 281,645 |
| West Fargo School | 9.49913676\% | 138,312,463 | 74,749,890 | 190,028,642 | 138,312,463 | 95,420,408 | 9,530,612 | 9,530,612 |  | 12.75\% | 8,342,182 | 2,932,730 | 11,274,912 |
| West River Student Services | 0.07794484\%, | 1,134,874 | 613,334 | -. $1.5599,213$ | -1,134, 874. | -782.939 | -78.200 | 78,200 |  | 12.75\% | -68.449 | ( $(61,3366)$. | - 8 8,113 |
| Westhope School | 0.16481512\% | 2,399,795 | 1,296,951 | 3,297,099 | 2,399,795 | 1,655,595 | 165,361 | 165,361 |  | $12.75 \%$ | 144,741 |  | ${ }^{13} \mathbf{3} 0,517{ }^{-}$ |
| White Shield School | 0.21862259\% | 3,183,261 | 1,720,368 | 4,373,508 | 3,183,261 | 2,196,100 | 219,347 | 219,347 |  | 12.75\% | 191,995 | (9,706) | 182,289 |
| Williams Co School Dist \#8 | 0.00000000\% |  |  |  |  |  |  |  |  | 0.00\% |  | $(543,454)$ | $(543,454)$ |
|  | $\frac{3.70274441 \%}{0.00000000 \%}$ | . $53,913,929$ | 29,137-357- | 74,072,783 | 53,913,920. | 37,194,683 | 3,715-013 | 3,715-013- |  | $\frac{12.75 \%}{0.00 \%}$ | . 3.251 .766. | -6,300,223 | $\frac{9.557 .989}{(4.470 .422)}$ |
| Wiliston School Wilmac Spail | 0.000000000\% |  |  |  |  |  |  |  |  |  |  | (4,470,422) | ${ }_{(984,612}^{(4,470,42)}$ |
| Wilmac Special Education Wiitoon School | 0.688789272\% | $10,016,082$ $3,165,322$ | $5,413,113$ $1,710,674$ | $13,761,179$ $4,348,862$ | $10,016,082$ $3,165,322$ | 6,909,997 $2,183,725$ | 690,172 218,111 | ${ }_{290,172}^{698111}$ |  | $12.75 \%$ $12.75 \%$ | 604,110 190,913 | 380,502 37,037 | 984,612 227,950 |
| Wing School | 0.08383227\% | 1,220,642 | 659,687 | 1,677,051 | 1,220,642 | 842,109 | 84,110 | 84,110 |  | 12.75\% | 73.622 | $(41,160)$ | 32,462 |
| Wishek Şchool | 0.188085020\% ${ }^{-}$ | 2,633,275 | 1,423,133 | 3,617,878 | 2,633,275 ${ }^{-}$ | 1,816,670 | 181,449 | 181,449 ${ }^{-}$ |  | 12.75\% | 158,823 | (21,610) | 137, 213- |
| Wolford School | 0.00000000\% |  |  |  |  |  |  |  |  | 0.00\% |  | (159,898) | (159,898) |
| Wyndmere School | 0.19437886\% | 2,830,259 | 1,529,591 | 3,888,517 | 2,830,259 | 1,952,568 | 195,023 | 195,023 | - | 12.75\% | 170,704 | (53,022) | 117,682 |
| $\frac{\text { Yellowstone Elem. School }}{\text { Zeeland }}$ School - | -- $0.0 .07807972 \%$ | 1,136,882 | $\frac{614,419}{514.817}$ | $-1.5661,972$ | -- $-1.136,882$. | - 784.384 | $-\frac{78,338}{65,639}-$ | - $78 ., 338{ }^{-63}$ |  | ${ }^{12.75 \%}$ | - 68. | ( $(111,083)$ |  |
| Grand Totals: | 100.000000\% | \$ 1,456,052,968 | \$ 786,912,450 | \$ 2,000,483,274 | \$ 1,456,052,968 | \$ 1,004,516,629 | \$ 100,331,347 | ¢ 100,331,347 | \$ . | 12.75\% | \$ 87,820,418 | \$ - | \$ 87,820,418 |

Section 3: Additional Information for GASB 68

EXHIBIT E (continued)
Schedule of Pension Amounts by Employer as of June 30, 2022

|  |  | Deferre | Outflows of Res | ources |  |  | Deferred Inflow | s of Resources |  | Deferred (Inflows | ws)/Outilows Re | ecognized In Fut | ture Pension Ex | xpense (Year Enc | ded June 30): |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  | Changes in |  |  |  | Changes in |  |  |  | , | , |  |  |
|  |  |  |  | Proportion and |  |  |  | Proportion and |  |  |  |  |  |  |  |
|  |  | Net Difference |  | Differences |  |  |  | Differences |  |  |  |  |  |  |  |
|  |  | Between |  | Between |  |  |  | Between |  |  |  |  |  |  |  |
|  |  | Projected and |  | Employer |  |  |  | Employer |  |  |  |  |  |  |  |
|  | ferences | Actual |  | Contributions |  | Differences |  | Contributions |  |  |  |  |  |  |  |
|  | tween |  |  | and |  | Between |  | and |  |  |  |  |  |  |  |
|  | Expected and Actual | Earnings on Pension Plan |  | Proportionate Share of | Total Deferred Outiliows of | Expected and Actual |  | Proportionate Share of | Total Deferred Inflows of |  |  |  |  |  |  |
| Employer Name | Experience | Investments | Assumptions | Contributions | Resources | Experience | Assumptions | Contributions | Resources | 2023 | 2024 | 202 | 2026 | 2027 | Thereafter |
|  | (14) | (15) | (16) | (17) | (18) | (19) | (20) | (21) | (22) | (23) | (24) | (25) | (26) | (27) | (28) |
| Alexander School | ${ }^{13,428}$ | 233,382 | 63,358 | 352,629 | 662,797 | 83,192 | \$ | 100,618 | 183,810 | 99,931 \$ | 82,701 | 37,694 | 215,542 | 97988 | 33,321 |
| Anamoose School | 6,397 | 111,189 | 30,185 | 129,392 | 277,163 | 39,634 |  | 138,422 | 178,056 | (556) | (14,722) | $(34,801)$ | 97,281 | 17,761 | 34,144 |
| Apple Creek Elem School | 3,295 | 57,263 | 15,546 | 114,301 | 190,405 | 20,412 |  | 39,806 | 60,218 | 7,851 | 5,264 | 7,999 | 65,511 | 16,528 | 27,033 |
| Ashley School | 8,3,37- | 145.573 | 39,520 | 38,673- | 232,141 | 51,891 |  | 107,287 | 159,178 | 1.684 | (2,071) | (24,981). | 113,592. | (2.475) | (12,785) |
| Bäk̇er Ėlem Śchoòl | 411 | 7,148 ${ }^{-1}$ | 1,941 | 12,335 | 21,835 | 2,548 |  | 7,058 | 9,606 | 3,519 | 2,286 | 320 | 6,694 | 246 | (836) |
| Barnes County North | 13,934 | 242,184 | 65,748 | 36,516 | 358,382 | 86,329 |  | 156,791 | 243,120 | ${ }^{1,843}$ | $(13,805)$ | $(36,219)$ | 197,430 | $(14,619)$ | $(19,368)$ |
| Beach School | 18,325 | 318,497 | 86,465 | 148,193 | 571,480 | 113,532 |  | 316,914 | 430,446 | $(13,323)$ | (9,789) | $(57,353)$ | 238,427 | (16,963) | 35 |
| Belcourt School | 79,751 | 1,3866,134 | 376,304 | 1,049,767- | 2.891,956 | 494,104 |  | 771,003 | 1.265.107 | 216,026 | 140,339 | (132,378) | 1,225,3833. | 33,758 | 143,722- |
|  | -11,695 | 203, 274 | 55,184 | 54,974 | 325,127 | 72,459 |  | 487,507 | 559,966 | (40,027) | (47,106) | (95,961) | 85,148 | (51,929) | (84,965) |
| Beulah School | 31,326 | 544,470 | 147,811 | 143,126 | 866,733 | 194,083 |  | 350,344 | 544,427 | 45,008 | 25,234 | $(109,140)$ | 445,107 | $(26,901)$ | $(57,022)$ |
| Billings Co. School Dist. | 7,997 | 139,001 | 377736 | 108,402 | 293,136 | 49,549 |  | 78,859 | 128,408 | 44,027 | 19,275 | $(8,655)$ | 129,811 | (8,937) | (10,791) |
| $\frac{\text { Bismarck Pubic Schools }}{\text { Blessed }}$ - | 673,513-1 | 11,706. 238 | 3,177,978 | 3,435,305 | 18,993,034 | 4,172.826 |  | 1,918,493 | 6.091.319 | 2,065.810 | 722,000 | (1,155,730) | 10,030,224. | 458.026 | 781,384- |
| Biessed John Paul il Cathoic Sch Network Botineau School |  | 575,768 | 156,308 | 192.443 | 957.646 | 205,239 |  | 363212 | 568451 | 2967 | 17781 | (114.083) | 439875 | 19909 | 22.744 |
| Bowbells School | 5,533 | 96,160 | 26,105 | 47,629 | 175,427 | 34,278 | - | 44,086 | 78,364 | 20,752 | $(1,861)$ | (11,794) | 81,800 | 4,924 | 3,243 |
| Bowman School | 26,221 | 455,743 | 123,724 | 202,080 | 807,768 | 162.455 |  | 344,863 | 507,318 | 70,949 | 34,564 | (51,690) | 384,119. | (44,654) | (92,838) |
| Büke Cénitrâ School | 7,125 | 123,843 | 33,621 | 109,126 | 273,715 | 44,145 |  | 374,244 | 418,389 | ( $\overline{2}, \mathbf{1}, 162)$ | (399,538) | (87,253) | 47,601 | (4,229) | (19,094) |
| Burligh County Spec. Ed. | 979 | 17,022 | 4,621 | 13,866 | 36,488 | 6,068 |  | 9,975 | 16,043 | 7,106 | 3,841 | (1,013) | 12,127 | (691) | (924) |
| Carington School | 23,262 | 404,312 | 109,762 | 17,469 | 554,805 | 144,122 |  | 593,168 | 737,290 | $(85,311)$ | $(73,525)$ | $(152,388)$ | 255,666 | $(47,333)$ | (79,594) |
| Cavalier School | 19,976 | 347,194 | .94,255 | 106,718 | 568,143 | 123,761 |  | 226,609 | 350,370 | 12,528 | (3,256) | (52,033) | 270,314 | 3,312 | (13,091) |
| Center St Stanton Sochool | ${ }^{13,657}$ | 237, 376 | 64,442 | 84,878 | 400,353 | 84,615 |  | 179,046 | 263,661 | 29,631 | 9,786 | (47,542) | 184,096 | (9,414) | (29,865) |
| Central Cass School | 37,380 | 649,693 | 176,377 | 523,753 | 1,387,203 | 231,591 |  | 113,672 | 345,263 | ${ }^{229,228}$ | 156,481 | 43,754 | 611,136 | (3,790) | 5,130 |
| Central Elementary School |  |  |  | 1,037 | 1,037 |  |  | 53,248 | 53,248 | $(17,887)$ | $(16,902)$ | (17,422) |  |  |  |
| Central Regional Education Association | 9,872 | 171,582 | 46,580 | 1,446,331 | 1,674,365 | 61,162 |  | 2.075 | 63,237 | 321,262 | 305,061 | 275,301 | 435,991. | 91.605 | 181,908 |
| Centiral Valley School | 10,956 | 190,430 | 51,697 | 8,658 | 261,741 | 67, 781 |  | 175,131 | 243,012 | 6,009 | (9,996) | (47,357) | 131,377 | (20,932) | (40, 371) |
| Dakota Prairie School | 18,102 | 314,630 | 85,415 | 198,456 | 616,603 | 112,154 |  | 271,110 | 383,264 | 59,220 | 42,523 | $(45,066)$ | 264,286 | (32,441) | $(55,183)$ |
| Devils Lake School | 93,499 | 1,625,086 | 441,174 | 310,090 | 2,469,849 | 579,281 |  | 948,814 | 1,528,095 | 108,643 | 31,537 | $(176,809)$ | 1,272,195 | $(112,255)$ | $(181,558)$ |
| Dickinson School | 201.572 | 3,503,492 | 951,119 | 2,994,907 | 7,651,090 | 1,248,861 |  | 857,667 | 2,106,528 | 1,273,406 | 899,688 | 125,301 | 3,015,925 | 168.344 | 61,898 |
| Divide Sthool | 24,288 | 422,144 | 114,602 | 314,814 | 875,848 | 150,478 |  | 129.525 | 280,003 | 124,680 | 67,514 | (18,028) | 410,059 | 3,486 | 8,134 |
| Drake School | 4,425 | 76,912 | 20,880 | 59,313 | 161,530 | 27,416 |  | 40,919 | 68,335 | 217 | 11,637 | $(4,741)$ | 66,478 | 6,548 | 13,056 |
| Drayton School | 11,463 | 199,234 | 54,088 | 189,350 | 454,135 | 71,019 |  | 387,003 | 458,022 | 20,103 | (22,591) | (48,045) | 133,481 | $(19,960)$ | (66,875) |
| Dunseith School | 32,350 | 562,266 | 152,643 | 503,730 | 1,250,989 | 200,426 |  | 36,535 | 236,961 | 210,617 | 114,291 | (346) | 538,404 | 55,519 | 95,543- |
| E Centrä Ctr Exx Cochidn | 5,670 | ${ }^{98,552}$ | 26,755 | 142, 747 | 273,624 | 35,130 |  | 339,434 | 374,564 | (38,718) | (47,193) | (61,756) | 37,720 | (5,205) | 14,212 ${ }^{\text {- }}$ |
| Earl Elem. School | 222 | 3,853 | 1,046 | 772 | 5,893 | 1,373 |  | 8,715 | 10,088 | $(1,778)$ | $(1,930)$ | $(2,963)$ | 2,909 | (202) | (232) |
| Edgeley School | 11,488 | 199,666 | 54,205 | 126,150 | 391,509 | 71,173 |  | 194,309 | 265,482 | 7,265 | $(6,793)$ | (16,933) | 141,928 | (1,731) | 2,291 |
| Edmore School | 5,207 | 90,501 | 24,569 | 29,058 | 149,335 | 32,260 |  | 306,214 | 338,474 | (35,552) | (30,879) | (55,837) | 25,408 | (42,403) | (49,877) |
| Eight Mile School | 15.702 | 27i2,922 | 74,092 | 278,587 | 641,303 | 97, 286 |  | 169,072 | 266,358 | 69,748 | 61,763 | (26,028) | 251,803 | 16,199 | 1,460 |
| Elgin-New Leipzig School | 10,343 | 179,765 | 48,802 | 112,990 | 351,900 | 64,080 |  | 157,211 | 221,291 | 10,936 | $(10,697)$ | (39,636) | 136,566 | 9,858 | 23,581 |
| Ellendale School | 14,074 | 244,621 | 66,409 | 44,006 | 369,110 | 87,198 |  | 312,857 | 400,055 | $(32,690)$ | $(3,300)$ | $(46,270)$ | 168,155 | (30,929) | $(55,911)$ |
| Emerado Elementary School | 5,999 | 104,266 | 28,306 | 79,996 | 218,567 | 37,167 |  | -38,229 | 75,396 | 33,076- | 19,821 | (3,009) | 98,232 | (5) | (4,944) |
| Endederin Äreà School Disistict | 17,742 | 308,363 | 83,714 | 21,187 | 431,006 | 109,920 |  | 1488,219 | 258,139 | 966 | ( $\overline{3} 2,933$ ) | (58,108) | 261,213 | 1,996 | (268) |
| Fairmount School | 6,388 | 111,021 | 30,140 | 8,646 | 156,195 | 39,575 |  | 457,910 | 497,485 | $(69,252)$ | $(79,206)$ | (102,786) | 7,589 | $(4,318)$ | $(52,318)$ |
| Fargo Public Schools | 670,126 | 11,647,369 | 3,161,996 | 6,574,719 | 22,054,210 | 4,151,842 |  | 3,490,306 | 7,642,148 | 2,043,121 | 1,399,650 | (717,031) | 10,298,512 | 371,419 | 1,096,390 |
| Fessenden-Bowdon School | 9,244 | 160.663 | . 43.616 | -33,682 | 247,205 | 57,270 |  | 176,105 | 233,375 | 6,272 | (9,547) |  | $\frac{114,626}{12,236}$ | (27, 106) | (36,100) |
| Fininey-Sharon School | 9,437 | 164,030 | 44,530 | 37,456 | 255,453 | 58,471 |  | 57,439 | 115,910 | 25,378 | 15.708 | (16,193) | 127,239 | (4,674) | (7,913) |
| Flasher School | 11,197 | 194,606 | 52,831 | 145,150 | 403,784 | 69,370 |  | 99,458 | 168,828 | 57,759 | 25,323 | $(6,926)$ | 175,956 | (873) | $(16,283)$ |
| Fordville Lankin School | 3,874 | 67,331 | 18,279 | 24,561 | 114,045 | 24,001 |  | 327,300 | 351,301 | (37,539) | (39,600) | (47,084) | 7,784 | $(4,147)$ | (76,671) |
| Fort Ransom Elem School | 1,586 | 27.572- | 7,485 | 35,136 | ${ }^{711,79}$ | 9,828 |  | 11,356 | 21.184 | 55,199 | -3,284 | (329) | 27,703 | -5,026 | 9,713- |
| Fort Totten School | 16,131 | 280,379 | 76,117 | 504,364 | 876,991 | 99,944 |  | 104,454 | 204,398 | 85,094 | 67,581- | 66,696 | 300,726 | 61,305 | 91, 9191 |
| Fort Yates School | 7,822 | 135,954 | ${ }^{36,908}$ | 52,734 | ${ }^{233,418}$ | 48,462 |  | 506,438 | 554,900 | (75,843) | $(120,455)$ | $(81,246)$ | 39,090 | $(30,961)$ | (52,069) |
| Gackle-Streeter Pub Sch | 7,248 | 125,984 | 34,202 | 12,700 | 180,134 | 44,908 |  | 27,924 | 72,832 | 13,428 | 5,130 | $(17,439)$ | 103,018 | 1,686 | 1,479 |
| Garrison School | 20,160 | 350,402 | 95,126 | 9,742 | 475,430 | 124,905 |  | 223,834 | 348,739 | 607 | (19,627) | (80,890) | 274,031 | (14,203) | (33,227) |
| Gİen Ulilin School | 8,853 | 153, 872 | 41,773 | 68,978 | 273,476 | 54,850 |  | 330,549 | 385,399 | ${ }^{(\overline{42}, 690}{ }^{\text {a }}$ | ( 50,248$)$ | (61,513) | 110,979 | (18,651) | (49,798) |
| Glenburn School | 14,633 | 254,339 | 69,047 | 69,535 | 407,554 | 90,662 |  | 465,472 | 556,134 | $(53,548)$ | $(59,650)$ | $(66,700)$ | 148,317 | (40,912) | $(76,086)$ |
| Goodrich School | 1,505 | 26,163 | 7,103 | 11,222 103841 | -45,993 | 9,326 |  | 221,386 7.644 .031 | 230,712 7.644031 | $(32,218)$ (1, 184.909$)$ | ( $\begin{array}{r}(31,685) \\ (1,145.243)\end{array}$ | $(39,261)$ (1,073.096) | $(13,925)$ $(1,070,101)$ | $(34,055)$ $(1.016 .511)$ | $(33,575)$ (2, 200 330) |
| Graftion School ${ }_{\text {Gration }}$ Schoil istritict | 37,914 | 658,980 ${ }^{-1}$ | 178,8988 | ${ }^{7,203,587}$ | ${ }^{-103,079,341}$ | 234,901 |  | 7,644,031 | 7. $7.644,031$ | $\frac{(1,184,909)}{1,140,491}$ | $\frac{(1,145,243)}{1,078,27 \overline{3}}$ | (1, $1.073,096)$ | $\frac{(1,070,101)}{1,581,122}$ | (1,016,511) | $\frac{(2,050,330)}{2,051,639}$ |
| Grand Forks School | 406,312 | 7,062,059 | 1,917,189 |  | 9,385,560 | 2,517,354 |  | 4,973,048 | 7,490,402 | 138,606 | $(523,155)$ | $(1,531,680)$ | 5,222,028 | $(522,197)$ | (888,445) |
| Great North West Cooperative | 1,406 | 24,444 | ${ }_{6}^{6,336}$ | 143,364 | 175,850 | 8,713 |  | 160,093 | 168,806 | $(3,561)$ | 6,297 | 8,945 | 16,623 | (14,461) | (6,799) |
| Grenora School | 12,261 | 213,101 | 57,852 | 389,746 | 672,960 | 75,962 |  | 145,432 | 221,394 | 68,265 | 52,190 | 12,369 | 188,387 | 45,182 | 85,173-1 |

Section 3: Additional Information for GASB 68

EXHIBIT E (continued)
Schedule of Pension Amounts by Employer as of June 30, 2022


Section 3: Additional Information for GASB 68

EXHIBIT E (continued)
Schedule of Pension Amounts by Employer as of June 30, 2022


## Section 3: Additional Information for GASB 68

## EXHIBIT E (continued)

Schedule of Pension Amounts by Employer as of June 30, 2022


# Section 4: Actuarial Assumptions, Methods and Plan Provisions 

## Exhibit I: Actuarial Assumptions and Actuarial Cost Method



## Section 4: Actuarial Assumptions, Methods and Plan Provisions

Retirement Rates:
The following rates of retirement are assumed for members eligible to retire. (Adopted effective July 1, 2020).

|  | Unreduced Retirement* |  | Reduced Retirement |
| :---: | :---: | :---: | :---: |
| Age | Male | Female | Unisex |
| $50-54$ | $15.0 \%$ | $15.0 \%$ | $2.0 \%$ |
| $55-56$ | $15.0 \%$ | $15.0 \%$ | $2.0 \%$ |
| 57 | $15.0 \%$ | $15.0 \%$ | $3.0 \%$ |
| 58 | $15.0 \%$ | $15.0 \%$ | $3.5 \%$ |
| 59 | $15.0 \%$ | $15.0 \%$ | $4.0 \%$ |
| 60 | $15.0 \%$ | $15.0 \%$ | $5.0 \%$ |
| 61 | $30.0 \%$ | $25.0 \%$ | $9.0 \%$ |
| 62 | $30.0 \%$ | $30.0 \%$ | $10.0 \%$ |
| 63 | $25.0 \%$ | $30.0 \%$ | $11.0 \%$ |
| 64 | $35.0 \%$ | $40.0 \%$ | $12.0 \%$ |
| 65 | $30.0 \%$ | $35.0 \%$ |  |
| 66 | $25.0 \%$ | $30.0 \%$ |  |
| 67 | $25.0 \%$ | $20.0 \%$ |  |
| $68-74$ | $20.0 \%$ | $20.0 \%$ |  |
| 75 | $100.0 \%$ | $100.0 \%$ |  |

If a member reaches eligibility for unreduced retirement before age 65 under the rule of 85 (Grandfathered Tier 1) or the Rule of 90/Age 60 (Non-grandfathered Tier 1 and Tier 2), $12.5 \%$ is added to the rate at the age (and only this age) the member becomes first eligible for an unreduced retirement benefit.

## Section 4: Actuarial Assumptions, Methods and Plan Provisions

Disability Rates: \begin{tabular}{cc}

\multicolumn{2}{c}{| Shown below for selected ages. (Adop |
| :---: |
| Age |} <br>

\cline { 2 - 3 } \& Unisex
\end{tabular}

## Termination Rates:

Termination rates based on years from hire, for causes other than death, disability, or retirement. (Adopted effective July 1, 2020).

| Years from <br> Hire | Male | Female | Years from <br> Hire | Male | Female |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 0 | $15.00 \%$ | $15.00 \%$ | 10 | $2.50 \%$ | $2.75 \%$ |
| 1 | $13.00 \%$ | $11.00 \%$ | $11-12$ | $2.00 \%$ | $2.50 \%$ |
| 2 | $11.00 \%$ | $9.50 \%$ | 13 | $2.00 \%$ | $2.25 \%$ |
| 3 | $8.00 \%$ | $7.50 \%$ | 14 | $1.50 \%$ | $2.25 \%$ |
| 4 | $6.00 \%$ | $6.00 \%$ | $15-16$ | $1.50 \%$ | $1.75 \%$ |
| 5 | $5.25 \%$ | $5.50 \%$ | $17-18$ | $1.50 \%$ | $1.50 \%$ |
| 6 | $4.00 \%$ | $4.50 \%$ | $19-22$ | $0.75 \%$ | $1.25 \%$ |
| 7 | $3.75 \%$ | $4.00 \%$ | $23-24$ | $0.75 \%$ | $1.00 \%$ |
| 8 | $3.00 \%$ | $2.75 \%$ | $24+$ | $0.75 \%$ | $0.75 \%$ |
| 9 | $2.50 \%$ | $2.75 \%$ |  |  |  |

Termination rates eliminated at first retirement eligibility.

## Section 4: Actuarial Assumptions, Methods and Plan Provisions

## Salary Increase Rates:



## Percent Married:

## Percent Electing a Deferred Termination Benefit:

Loading Factor for New Retirees:

Inflation rate of $2.30 \%$ plus productivity increase rate of $1.50 \%$, plus step-rate/promotional increase as shown below. (Adopted effective July 1, 2020).

| Years from <br> Hire | Annual Step-Rate <br> Promotional <br> Component | Annual Total <br> Salary Increase |
| :---: | :---: | :---: |
| 0 | $11.00 \%$ | $14.80 \%$ |
| 1 | $3.00 \%$ | $6.80 \%$ |
| 2 | $2.75 \%$ | $6.55 \%$ |
| $3-4$ | $2.50 \%$ | $6.30 \%$ |
| $5-6$ | $2.00 \%$ | $5.80 \%$ |
| $7-8$ | $1.75 \%$ | $5.55 \%$ |
| $9-11$ | $1.50 \%$ | $5.30 \%$ |
| $12-13$ | $1.25 \%$ | $5.05 \%$ |
| $14-15$ | $1.00 \%$ | $4.80 \%$ |
| $16-18$ | $0.75 \%$ | $4.55 \%$ |
| $19-22$ | $0.50 \%$ | $4.30 \%$ |
| $23-29$ | $0.25 \%$ | $4.05 \%$ |
| $30+$ | $0.00 \%$ | $3.80 \%$ |

$3.25 \%$ per annum. This assumption does not include any allowances for future increase in the number of members. (Adopted effective July 1, 2010).

For valuation purposes, $75 \%$ of members are assumed to be married. Male members are assumed to be three years older than their spouses, and female members are assumed to be three years younger than their spouses. (Adopted effective July 1, 1992).

Terminating members are assumed to elect the most valuable benefit at the time of termination. Termination benefits are assumed to commence at the first age at which unreduced benefits are available. (Adopted effective July 1, 1990).

The liability includes a $3 \%$ load for members who retired during the year leading up to the valuation date to reflect that their benefits are not finalized as of the valuation date.

Annual administrative expenses of $\$ 2,651,964$ (actual expenses for the previous year, increased with inflation) are expected to be paid monthly for the year beginning July 1, 2022.

## Section 4: Actuarial Assumptions, Methods and Plan Provisions

## Actuarial Cost Method

## Amortization Period and Method:

Normal cost and actuarial accrued liability are calculated on an individual basis and are allocated by salary Entry age is determined as the age at member's enrollment in TFFR. The actuarial accrued liability is the difference between the total present value of future benefits and the actuarial present value of future normal costs. The unfunded actuarial accrued liability (UAAL) is the excess of the actuarial accrued liability over the actuarial value of assets.

The actuarially determined contribution (ADC) is determined as the sum of (a) the employer normal cost rate, and (b) a level percentage of payroll required to amortize the unfunded actuarial accrued liability over the 30year closed period that began July 1, 2013.

## Section 4: Actuarial Assumptions, Methods and Plan Provisions

## Exhibit II: Summary of Plan Provisions

This exhibit summarizes the major provisions of TFFR included in the valuation. It is not intended to be, nor should it be interpreted as, a complete statement of all plan provisions.

| Effective Date: | July 1, 1971 |
| :---: | :---: |
| Plan Year: | July 1 through June 30 |
| Administration | The Teachers' Fund for Retirement (TFFR) is administrated by a Board of Trustees. A separate State Investment Board is responsible for the investment of the trust assets, although TFFR's Board establishes the asset allocation policy. The Retirement and Investment Office is the administrative agency for TFFR. |
| Type of Plan: | TFFR is a qualified governmental defined benefit retirement plan. For Governmental Accounting Standards Board purposes, it is a cost-sharing multiple-employer public employee retirement system. |
| Eligibility: | All certified teachers of any public school in the State participate in TFFR. This includes teachers, supervisors, principals, administrators, etc. Non-certified employees such as teacher's aides, janitors, secretaries, drivers, etc. are not allowed to participate in TFFR. Eligible employees become members at their date of employment. |
| Member Contributions: | All active members contribute $11.75 \%$ of their salary per year. The employer may "pick up" the member's contribution under the provisions of Internal Revenue Code Section 414(h). The member contribution rate was increased from $7.75 \%$ to $9.75 \%$ effective July 1, 2012, and was increased to $11.75 \%$ effective July 1,2014 . The total addition of $4.00 \%$ to the member contribution rate will remain in effect until TFFR is $100 \%$ funded on an actuarial basis. At that point, the member contribution rate will revert to $7.75 \%$. |
| Salary: | A member's total earnings are used for salary purposes, including overtime, etc., and including nontaxable wages under a Section 125 plan, but excluding certain extraordinary compensation, such as fringe benefits or unused sick and vacation leave. |
| Employer Contributions: | The district or other employer that employs a member contributes a percentage of the member's salary. This percentage consists of a base percentage of $7.75 \%$, plus since July 1, 2008 additions as shown below. |
|  | Effective Date Addition to 7.75\% Base Rate Employer Contribution Rate |
|  | July 1, 2008 0.50\% 8.25\% |
|  | July 1,2010 1.00\% 8.75\% |
|  | July 1, 2012 3.00\% 10.75\% |
|  | July 1,2014 5.00\% 12.75\% |
|  | However, the additions are subject to a "sunset" provision, so the contribution rate will revert to $7.75 \%$ once the funded ratio reaches $100 \%$, measure using the actuarial value of assets. The contribution rate will not automatically increase if the funded ratio later falls back below $100 \%$. |

## Section 4: Actuarial Assumptions, Methods and Plan Provisions

| Service: | Employees receive credit for service while a member. A member may also purchase credit for certain periods, such as time spent teaching at a public school in another state, by paying the actuarially determined cost of the additional service. Special rules and limits govern the purchase of additional service. |
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| Tiers: | Members who join TFFR by June 30, 2008, are in Tier 1, while members who join later are in Tier 2. If a Tier 1 member terminates, takes a refund, and later rejoins TFFR after June 30, 2008, that member will be in Tier 2 . As of June 30, 2013, Tier 1 members who are at least age 55 and vested (3 years of service) as of the effective date, or the sum of the member's age and service is at least 65, are considered Grandfathered, and previous plan provisions will not change. Tier 1 members who do not fit these criteria as of June 30, 2013, are considered Non-grandfathered. These members, along with Tier 2, have new plan provisions, as described below. |
| Final Average Compensation (FAC): | The average of the member's highest three (Tier 1 members) or five (Tier 2 members) plan year salaries. Monthly benefits are based on one-twelfth of this amount. |
| Normal Retirement: | a. Eligibility: <br> - Tier 1 members may retire upon Normal Retirement on or after age 65 with credit for 3 years of service, or if earlier, when the sum of the member's age and service is at least 85 . Effective as of June 30, 2013, Tier 1 members who are at least age 55 and vested ( 3 years of service) as of the effective date, or the sum of the member's age and service is at least 65 , normal retirement eligibility will not change (participants are Grandfathered). For those who did not meet these criteria as of June 30, 2013 (Nongrandfathered), members may retire upon Normal Retirement on or after age 65 with credit for 3 years of service, or if earlier, when the sum of the member's age and service is at least 90 , with a minimum age of 60 . <br> - Tier 2 members may retire upon Normal Retirement on or after age 65 with credit for 5 years of service, or, if earlier, when the sum of the member's age and service is at least 90 . Effective July 1, 2013, Tier 2 members may retire upon Normal Retirement on or after age 65 with credit for 5 years of service, or if earlier, when the sum of the member's age and service is at least 90 , with a minimum age of 60 . <br> b. Monthly Benefit: $2.00 \%$ of FAC (monthly) times years of service. <br> c. Payment Form: Benefits are paid as a monthly life annuity, with a guarantee that if the payments made do not exceed the member's contributions plus interest, determined as of the date of retirement, the balance will be paid in a lump-sum to the member's beneficiary. Optional forms of payment are available; see below. |
| Early Retirement: | a. Eligibility: Tier 1 members may retire early after reaching age 55 with credit for three years of service, while Tier 2 members may retire early after reaching age 55 with credit for five years of service. <br> b. Monthly Benefit: $2.00 \%$ of FAC (monthly) times years of service, multiplied by a factor that reduces the benefit $6 \%$ for each year from the earlier of (i) age 65, or (ii) the age at which current service plus age equals 85 (Tier 1 members) or 90 (Tier 2 members). Effective July 1, 2013 for members who are either Nongrandfathered Tier 1 or Tier $2: 2.00 \%$ of FAC (monthly) times years of service, multiplied by a factor that reduces the benefit $8 \%$ for each year from the earlier of (i) age 65 , or (ii) the age at which current service plus age equals 90 with a minimum age of 60 . |

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|  | c. Payment Form: Same as for Normal Retirement above. |
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| Disability: | a. Eligibility: A member is eligible provided he/she has credit for at least one year of service. Effective July 1 , 2013, a member is eligible provided he/she has credit for at least five years of service. <br> b. Monthly Benefit: $2.00 \%$ of FAC (monthly) times years of service with a minimum 20 years of service. Effective July 1, 2013, 2.00\% of FAC (monthly) times years of service. <br> c. Payment Form: The disability benefit commences immediately upon the member's retirement. Benefits cease upon recovery or reemployment. Disability benefits are payable as a monthly life annuity with a guarantee that, at the member's death, the sum of the member's contributions plus interest as of the date of retirement that is in excess of the sum of payments already received will be paid in a lump sum to the member's beneficiary. <br> d. All alternative forms of payment other than level income and the partial lump-sum option are also permitted in the case of disability retirement. For basis recovery only, disability benefits are converted to normal retirement benefits when the member reaches normal retirement age or age 65 , whichever is earlier. |
| Deferred Termination Benefit: | a. Eligibility: A Tier 1 member with at least three years of service, or a Tier 2 member with at least five years of service, who does not withdraw his/her contributions from the fund, is eligible for a deferred termination benefit. <br> b. Monthly Benefit: $2.00 \%$ of FAC (monthly) times years of service. Both FAC and service are determined at the time the member leaves active employment. Benefits may commence unreduced at age 65 or when the sum of the member's age and service is 85 (Grandfathered Tier 1 members) or 90 with a minimum age of 60 (Non-grandfathered Tier 1 and Tier 2 members). Reduced benefits may commence at or after age 55 if the member is not eligible for an unreduced benefit. Reductions are the same as for Early Retirement. <br> c. Payment Form: The form of payment is the same as for Normal Retirement above. <br> d. Death Benefit: A member who dies after leaving active service but before retiring is entitled to receive a benefit as described below. |
| Withdrawal (Refund) Benefit: | a. Eligibility: Tier 1 members leaving covered employment with less than three years of service, and Tier 2 members leaving covered employment with less than five years of service, are eligible. Optionally, vested members may withdraw their contributions plus interest in lieu of the deferred benefits otherwise due. <br> b. Benefit: The member who withdraws receives a lump-sum payment of his/her employee contributions, plus the interest credited on these contributions. Interest is credited at 6\% per year prior to benefit commencement ( $0.5 \%$ per month). |
| Death Benefit: | a. Eligibility: Death must have occurred while an active or an inactive, non-retired member. <br> b. Benefit: Upon the death of a nonvested member, a refund of the member's contributions and interest is paid. Upon the death of a vested member, the beneficiary may elect (i) the refund benefit above, or (ii) a life annuity of the normal retirement benefit, determined under Option One below, based on FAC and service as of the date of death, but without applying any reduction for the member's age at death. In determining the reduction for Option One, members not eligible for normal retirement benefits use the Fund's option tables for disabled members. |

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| Optional Forms of Payment: | There are optional forms of payment available on an actuarially equivalent basis, as follows: <br> Option 1 - A life annuity payable while either the participant or his beneficiary is alive, "popping-up" to the original life annuity if the beneficiary predeceases the member. <br> Option 2 - A life annuity payable to the member while both the member and beneficiary are alive, reducing to $50 \%$ of this amount if the member predeceases the beneficiary, and "popping-up" to the original life annuity if the beneficiary predeceases the member. <br> Option 3a - A life annuity payable to the member, with a guarantee that, should the member die prior to receiving 60 payments (five years), the payments will be continued to a beneficiary for the balance of the five-year period. (This option has been replaced by Option 3b. It is not available to employees who retire on or after August 1, 2003. Retirees who elected this option prior to that date are unaffected.) <br> Option 3b - A life annuity payable to the member, with a guarantee that, should the member die prior to receiving 240 payments (twenty years), the payments will be continued to a beneficiary for the balance of the twenty-year period. (This option replaced Option 3a effective August 1, 2003.) <br> Option 4 - A life annuity payable to the member, with a guarantee that, should the member die prior to receiving 120 payments ( 10 years), the payments will be continued to a beneficiary for the balance of the ten-year period. <br> Option 5 - A non-level annuity payable to the member, designed to provide a level total income when combined with the member's Social Security benefit. This option is not available to disabled retirees. <br> In addition, members may elect a partial lump-sum option (PLSO) at retirement. Under this option, a member receives an immediate lump sum equal to 12 times the monthly life annuity benefit and a reduced annuity. The reduction is determined actuarially. The member can then elect to receive the annuity benefit in one of the other optional forms, except that members who receive a PLSO may not elect Option 5 - the level income option. The PLSO is not available to disabled retirees or retirees who are not eligible for an unreduced retirement benefit. Actuarial equivalence is based on tables adopted by the Board of Trustees. |
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| Cost-of-living Increase: | From time to time, TFFR has been amended to grant certain post-retirement benefit increases. However, TFFR has no automatic cost-of-living increase features. |

