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***NEBRASKA PUBLIC EMPLOYEES
RETIREMENT SYSTEM***

COUNTY EQUAL RETIREMENT BENEFIT FUND

**Actuarial Valuation Results
as of January 1, 2022**

for State Fiscal Year Ending June 30, 2023





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April 29, 2022

Public Employees Retirement Board
Nebraska Public Employees Retirement Systems
1526 "K" Street
Suite 400
Lincoln, NE 68509-4816

**RE: Certification of Actuarial Valuation
County Equal Retirement Benefit Fund**

Members of the Board:

At your request, we have prepared an actuarial valuation of the County Equal Retirement Benefit Fund as of January 1, 2022 for the purpose of determining the funded status of the Plan and any required contributions for the plan year. Funding required from each participating County for current plan members, as approved by the Retirement Board, is equal to an amount necessary to fully fund the benefit obligation, or alternatively, an annual payment which would amortize the unfunded liability over a period of twenty years commencing January 1, 1999. The initial twenty-year amortization period has elapsed, so the current valuation reflects a one-year amortization period.

There were no changes to the plan provisions or actuarial methods from the prior valuation. The annuity conversion interest rate for members retiring from the Defined Contribution Plan is updated annually as required in statute. At their December 21, 2020 meeting, the Public Employees Retirement Board adopted a plan to phase-in changes to the set of economic assumptions over a four-year period, beginning with the January 1, 2021 valuation. The scheduled economic assumption changes included price inflation, investment return assumption and interest earned on accumulated contribution balances. As a result of the phase-in, the investment return assumption decreased from 7.30% in the prior valuation to 7.20% in the current valuation. The assumption changes are discussed in further detail in the Executive Summary of this report. The net impact of the assumption changes was an increase in the Projected Benefit Cost.

The actuarial valuation is based on unaudited financial data provided by the System and member data provided by Ameritas, the record keeper for the Plan. We found this information to be reasonably consistent and comparable with the information used in the prior report. The valuation results depend on the integrity of this information. If any of this information is inaccurate or incomplete, our results may be different and our calculations may need to be revised. The benefits considered are those delineated in Nebraska State Statutes as of January 1, 2022.



We further certify that all costs, liabilities, rates of interest and other factors for the County Equal Retirement Benefit Fund have been determined on the basis of actuarial assumptions and methods which are individually reasonable (taking into account the experience of the System and reasonable expectations); and which, in combination, offer the best estimate of anticipated experience affecting the System. Nevertheless, the emerging costs will vary from those presented in this report to the extent actual experience differs from that projected by the actuarial assumptions. The Public Employees Retirement Board has the final decision regarding the appropriateness of the assumptions and adopted them as indicated in Appendix B.

In order to prepare the results in this report, we have utilized actuarial models that were developed to measure liabilities and develop actuarial costs. These models include tools that we have produced and tested, along with commercially available valuation software that we have reviewed to confirm the appropriateness and accuracy of the output. In utilizing these models, we develop and use input parameters and assumptions about future contingent events along with recognized actuarial approaches to develop the needed results. 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 or additional cost or contribution requirements based on the plan's funded status); and changes in plan provisions or applicable law. Due to the limited scope of our assignment, we did not perform an analysis of the potential range of future measurements.

We note that as we prepare this report, the world is still recovering from the Covid-19 pandemic. We have considered all available information, but do not believe there is sufficient data yet to warrant modification of any of our assumptions. We will continue to monitor the situation and advise the Board in the future of any adjustment we believe would be appropriate.

The consultants who worked on this assignment are pension actuaries. CMC's advice is not intended to be a substitute for qualified legal or accounting counsel.

On the basis of the foregoing, we hereby certify that, to the best of our knowledge and belief, this report is complete and accurate and has been prepared in accordance with generally recognized and accepted actuarial principles and practices. We are members of the American Academy of Actuaries and meet the Qualification Standards to render the actuarial opinion contained herein. We are available to answer any questions on the material contained in the report or to provide explanations or further details as may be appropriate.

We respectfully submit the following report and look forward to discussing it with you.

Respectfully submitted,

A handwritten signature in blue ink that reads "Patrice Beckham".

Patrice Beckham, FSA, FCA, EA, MAAA
Principal and Consulting Actuary

A handwritten signature in blue ink that reads "Brent A. Banister".

Brent Banister, PhD, FSA, FCA, EA, MAAA
Chief Actuary



EXECUTIVE SUMMARY

The County Equal Retirement Benefit Fund provides a benefit for members who had account balances on January 1, 1984 and elect to convert those balances to monthly income (annuity) at retirement. The Fund was established to protect members who might be negatively affected by the legal requirement to change from sex-distinct annuity factors to unisex annuity factors. As such, the characteristics of the liability of the Fund and the funding requirements are different from the other traditional defined benefit plans managed by the Nebraska Public Employees Retirement System (NPERS). This report determines the contribution requirements for the counties who still have members in the Fund as well as providing statistical information that may provide insight into the Fund's longer term financial health. The initial amortization period, which was set at 20 years on January 1, 1999, has elapsed so a one-year period was used in this valuation.

There were no changes to the benefit provisions or actuarial methods since last year's report. However, at their December 21, 2020 meeting, the Public Employees Retirement Board adopted a plan to phase-in the change in the set of economic assumptions over a four-year period, beginning with the January 1, 2021 valuation. Changes to the assumptions in this valuation include:

- Price inflation decreased from 2.65% to 2.55%.
- Investment return assumption decreased from 7.30% to 7.20%.
- Interest on accumulated contribution balances for the Defined Contribution Plan decreased from 7.30% to 7.20%.
- Interest on accumulated contribution balances for the Cash Balance Plan decreased from 6.15% to 6.10%.

The scheduled step down in the set of economic assumptions increased the projected benefit cost (Plan liability) as of January 1, 2022 by \$81, but ultimately had no impact on the total contribution amount. There remaining two years of the phase-in of assumption changes are expected to have similar, minor impact on the liabilities and likely no change in the contribution requirement.

There was an actuarial gain of \$25,000 on Plan assets due to the actual return of 13.0% for 2021, compared to the 7.3% assumption for plan year 2021. There was an actuarial gain on liabilities of \$3,000. While there is insufficient data to quantify the sources of liability experience, the actuarial gain is likely from fewer members electing monthly income than expected. Note that if a member elects a full lump sum distribution, it eliminates the liability under this Plan and a liability gain occurs. As noted above, there were several changes to set of economic assumptions that resulted in an increase in liabilities of \$81. Overall, the combined assets for all counties remain greater than the combined liabilities for the County Equal Retirement Benefit Fund and there is no additional contribution for any of the counties.

There are several risk factors that are key to the Fund's financial status over time. One of the most significant of these factors is the proportion of retirees that elect to take an annuity rather than a lump sum. An individual member's choice is based on their own personal situation and may consider different factors compared to other individuals who are also making this choice. The funding assumption is that 40% of the account balances of retiring members, in aggregate, will be converted to monthly income (an annuity). While we believe this assumption is reasonable, there are other assumptions that could also be considered reasonable that would result in a different funded status and contribution amount. In particular, if a greater portion of account balances are annuitized at retirement, the liability of the Fund would be higher than estimated in this report. The potential volatility in the amount of liability, especially at the individual county level, is a risk that should be considered and evaluated. To assist with this



EXECUTIVE SUMMARY

analysis, we have included an exhibit in the report that shows the impact of a higher annuity election by retiring members (Exhibit 4). Liability results are shown assuming 60% or 80% of the aggregate account balances are annuitized rather than the 40% assumed in the basic valuation calculations. Although these alternative assumptions may or may not be reasonable in the aggregate, because most counties have relatively few members, the alternative results provide some measure of the possible downside risk to the Plan.

Other factors and assumptions affecting the results include the following:

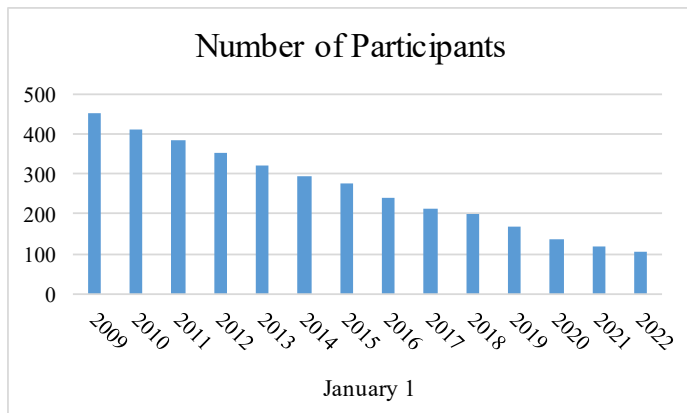
- Account growth – the account balances for both the cash balance and defined contribution members are assumed to increase annually at 6.10% and 7.20% respectively. To the extent actual investment returns (or interest credits and dividends in the cash balance accounts) are lower, the benefits assumed to be paid from the Fund are lower and, therefore, the liabilities are lower.
- Annuity factor interest rate – the defined contribution balances are assumed to be annuitized at the current applicable interest rate (3.12% as of January 1, 2022). If interest rates decrease in the future, the difference in the liability of a benefit determined using a unisex annuity factor and the benefit determined using a male annuity factor increases, so the liabilities of the Fund would also increase. Conversely, an increase in interest rates would lead to a decrease in liabilities.
- General economic conditions – there are connections between the growth in the members' account balances, the interest rate environment (affecting the annuity factor interest rate), the investment return on the assets of the Fund, and the way in which potential retirees view the financial ramifications of retiring and electing an annuity. The exact interplay of these variables is extremely complex, but the fact that there is a connection means that the possible variability of the Fund's financial situation is potentially greater than it might otherwise appear. **Consequently, we urge caution in concluding that the current strong financial health of the Fund will continue indefinitely.**

It is important to note that an unfunded liability is not, by itself, an indication of whether or not the Fund has sufficient assets to meet future liabilities. Further, the presence of an unfunded liability or surplus is not an indication of what future contributions may be required to fund the benefits.

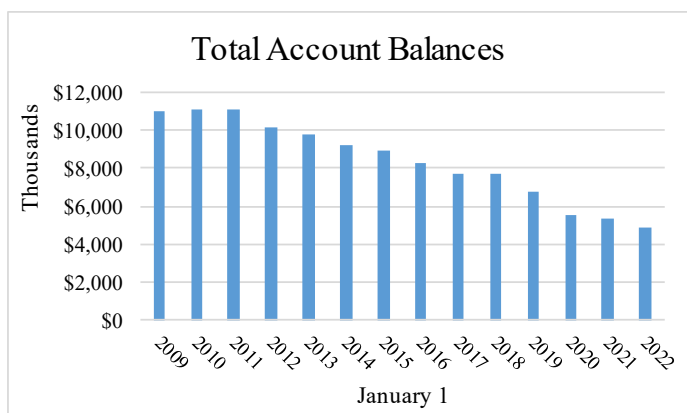


EXECUTIVE SUMMARY

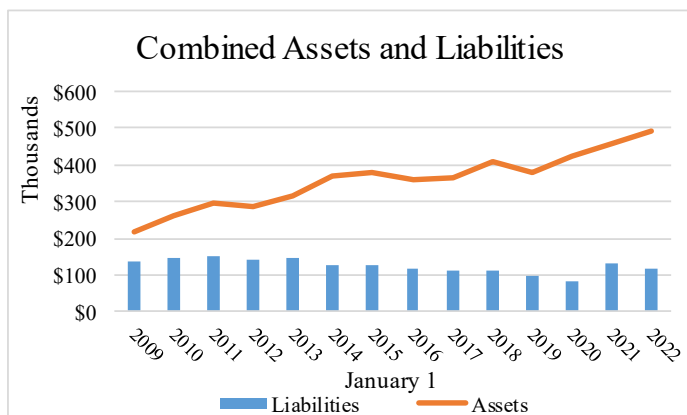
The following graphs show trends in the Fund over recent years:



Because there are no new members in the Fund, the number of participants has declined in past years and is expected to continue to decline in future years. Eventually, there will be no participants remaining.



When comparing the total account balances in the current and past years, the growth in account balances due to investment earnings partially offsets the impact of a declining membership.



While an individual county may occasionally need to make a contribution to fund the shortfall between liabilities and assets, the combined assets of the Fund are well above the aggregate liabilities.



EXHIBIT 1 – SUMMARY OF ACTUARIAL RESULTS

Below is a comparison of the aggregate results of the current and prior year's actuarial valuations.

Results	Actuarial Valuation as of January 1	
	2022	2021
Number of Members		
Cash Balance	50	60
Defined Contribution	55	59
Total	105	119
Pre-1984 Account Balance Beginning of Year		
Cash Balance	\$2,374,889	\$2,842,629
Defined Contribution	2,509,712	2,491,976
Total	\$4,884,601	\$5,334,605
Projected Benefit Cost*		
a. Amount	\$118,702	\$130,527
b. As a Percent of the Account Balance	2.430%	2.447%
c. Annuity Factor Interest Rate – Cash Balance	7.75%	7.75%
d. Annuity Factor Interest Rate – Defined Contribution	3.12%	2.44%
Market Value of Assets		
a. Asset Value as of Prior Year's Valuation	\$455,604	\$425,042
b. Deposits During the Year	122	185
c. Withdrawals During the Year	17,893	11,377
d. Investment Return or (Loss)	58,025	57,973
e. Other	(1,405)	(16,219)
f. Market Value of Assets as of Valuation Date [a. + b. - c. + d + e.]	\$494,453	\$455,604
Unfunded Liability/(Surplus)	(\$375,751)	(\$325,077)
Total Contribution Amount (All Counties)	\$0	\$122

*Cost is based on the assumption that 60% of members will elect a lump sum or installment payments instead of an annuity. To the extent that actual experience in the future deviates from this assumption, the costs in future years could vary as well, at times significantly.



EXHIBIT 2 – SUMMARY OF FUND ASSETS BY COUNTY

County Name	Beginning Balance January 1, 2021	Employer Contributions for 2021	Withdrawals	Investment Return	Other	Ending Balance December 31, 2021
1. Adams	\$ 22,824	\$ 0	\$ 0	\$ 2,990	\$ 0	\$ 25,814
2. Box Butte	9,345	0	0	1,224	0	10,569
3. Buffalo	26,551	0	0	3,479	0	30,030
4. Cass	1,754	0	0	230	0	1,984
5. Cheyenne	1,241	0	0	164	(1,405)	0
6. Custer	18,134	0	0	2,376	0	20,510
7. Dawson	36,719	0	3,222	4,424	0	37,921
8. Dodge	28,614	0	0	3,750	0	32,364
9. Gage	10,513	0	0	1,378	0	11,891
10. Gosper	2,028	0	0	266	0	2,294
11. Hall	44,727	0	0	5,863	0	50,590
12. Harlan	216	122	0	32	0	370
13. Hitchcock	11,976	0	0	1,569	0	13,545
14. Jefferson	20,858	0	0	2,733	0	23,591
15. Kimball	18,059	0	0	2,366	0	20,425
16. Lincoln	6,702	0	0	878	0	7,580
17. Madison	14,288	0	0	1,872	0	16,160
18. Platte	38,359	0	0	5,026	0	43,385
19. Polk	1,443	0	0	189	0	1,632
20. Red Willow	5,938	0	0	778	0	6,716
21. Richardson	12,760	0	0	1,672	0	14,432
22. Saline	5,927	0	686	742	0	5,983
23. Sarpy	37,301	0	8,021	4,382	0	33,662
24. Saunders	24,931	0	0	3,267	0	28,198
25. Scotts Bluff	15,675	0	5,964	1,303	0	11,014
26. Seward	8,599	0	0	1,126	0	9,725
27. Washington	15,839	0	0	2,075	0	17,914
28. York	14,283	0	0	1,871	0	16,154
Totals	\$ 455,604	\$ 122	\$ 17,893	\$ 58,025	\$ (1,405)	\$ 494,453



EXHIBIT 3 – ACTUARIAL RESULTS AND CONTRIBUTION ALTERNATIVES BY COUNTY

County Name	Number of Members	Projected Benefit Cost*	Assets	2021 Full Contribution	2022 Full Contribution
1. Adams	4	\$ 2,232	\$ 25,814	\$ 0	\$ 0
2. Box Butte	3	2,000	10,569	0	0
3. Buffalo	14	13,214	30,030	0	0
4. Cass	1	393	1,984	0	0
5. Custer	6	5,024	20,510	0	0
6. Dawson	2	2,069	37,921	0	0
7. Dodge	6	12,541	32,364	0	0
8. Gage	6	4,580	11,891	0	0
9. Gosper	2	826	2,294	0	0
10. Hall	5	4,625	50,590	0	0
11. Harlan	2	345	370	122	0
12. Hitchcock	2	3,678	13,545	0	0
13. Jefferson	1	260	23,591	0	0
14. Kimball	1	540	20,425	0	0
15. Lincoln	3	1,258	7,580	0	0
16. Madison	7	8,736	16,160	0	0
17. Platte	9	10,427	43,385	0	0
18. Polk	1	770	1,632	0	0
19. Red Willow	2	236	6,716	0	0
20. Richardson	3	4,956	14,432	0	0
21. Saline	1	473	5,983	0	0
22. Sarpy	9	14,534	33,662	0	0
23. Saunders	3	12,119	28,198	0	0
24. Scotts Bluff	3	5,097	11,014	0	0
25. Seward	4	4,596	9,725	0	0
26. Washington	3	433	17,914	0	0
27. York	2	2,740	16,154	0	0
Totals	105	\$ 118,702	\$ 494,453	\$ 122	\$ 0

* Cost is based on the assumption that 60% of retiring members will choose a lump sum or installment payments instead of an annuity. To the extent that actual experience in the future deviates from this assumption, the costs in future years could vary as well, at times significantly.



EXHIBIT 4 – RISK MEASURES BY COUNTY

This exhibit compares the Projected Benefit Cost (liability) assuming 40% of the account balances of retiring members are converted to an annuity (the funding assumption) with alternative assumptions of 60% and 80%. As the table below indicates, greater utilization of the annuity option by members could significantly increase the liability of the plan and, therefore, the unfunded liability and contribution amount. If a county has assets exceeding the liability of one or both of the alternative assumption scenarios, it indicates it is in a stronger financial position to withstand potential adverse experience.

County Name	Number of Members	Projected Benefit Cost			Assets
		40% Annuitize	60% Annuitize	80% Annuitize	
1. Adams	4	\$ 2,232	\$ 3,348	\$ 4,464	\$ 25,814
2. Box Butte	3	2,000	3,000	4,000	10,569
3. Buffalo	14	13,214	19,821	26,428	30,030
4. Cass	1	393	590	786	1,984
5. Custer	6	5,024	7,536	10,048	20,510
6. Dawson	2	2,069	3,104	4,138	37,921
7. Dodge	6	12,541	18,812	25,082	32,364
8. Gage	6	4,580	6,870	9,160	11,891
9. Gosper	2	826	1,239	1,652	2,294
10. Hall	5	4,625	6,938	9,250	50,590
11. Harlan	2	345	518	690	370
12. Hitchcock	2	3,678	5,517	7,356	13,545
13. Jefferson	1	260	390	520	23,591
14. Kimball	1	540	810	1,080	20,425
15. Lincoln	3	1,258	1,887	2,516	7,580
16. Madison	7	8,736	13,104	17,472	16,160
17. Platte	9	10,427	15,641	20,854	43,385
18. Polk	1	770	1,155	1,540	1,632
19. Red Willow	2	236	354	472	6,716
20. Richardson	3	4,956	7,434	9,912	14,432
21. Saline	1	473	710	946	5,983
22. Sarpy	9	14,534	21,801	29,068	33,662
23. Saunders	3	12,119	18,179	24,238	28,198
24. Scotts Bluff	3	5,097	7,646	10,194	11,014
25. Seward	4	4,596	6,894	9,192	9,725
26. Washington	3	433	650	866	17,914
27. York	2	2,740	4,110	5,480	16,154
Totals	105	\$ 118,702	\$ 178,058	\$ 237,404	\$ 494,453



EXHIBIT 4 (CONTINUED) – RISK MEASURES BY COUNTY

County Name	Number of Members	Unfunded Liability 40% Annuitize	Unfunded Liability 60% Annuitize	Unfunded Liability 80% Annuitize
1. Adams	4	\$ 0	\$ 0	\$ 0
2. Box Butte	3	0	0	0
3. Buffalo	14	0	0	0
4. Cass	1	0	0	0
5. Custer	6	0	0	0
6. Dawson	2	0	0	0
7. Dodge	6	0	0	0
8. Gage	6	0	0	0
9. Gosper	2	0	0	0
10. Hall	5	0	0	0
11. Harlan	2	0	148	320
12. Hitchcock	2	0	0	0
13. Jefferson	1	0	0	0
14. Kimball	1	0	0	0
15. Lincoln	3	0	0	0
16. Madison	7	0	0	1,312
17. Platte	9	0	0	0
18. Polk	1	0	0	0
19. Red Willow	2	0	0	0
20. Richardson	3	0	0	0
21. Saline	1	0	0	0
22. Sarpy	9	0	0	0
23. Saunders	3	0	0	0
24. Scotts Bluff	3	0	0	0
25. Seward	4	0	0	0
26. Washington	3	0	0	0
27. York	2	0	0	0
Totals	105	\$ 0	\$ 148	\$ 1,632



EXHIBIT 5 – SUMMARY OF MEMBER DATA

Age Range	Data	Gender		Total
		Male	Female	
Less Than 60	Count of Members	0	0	0
	Average of Total Balance	\$ 0	\$ 0	\$ 0
	Sum of Total Balance	\$ 0	\$ 0	\$ 0
60-64	Count of Members	10	7	17
	Average of Total Balance	\$ 15,444	\$ 10,878	\$ 13,564
	Sum of Total Balance	\$ 154,436	\$ 76,149	\$ 230,585
65-69	Count of Members	25	21	46
	Average of Total Balance	\$ 52,504	\$ 36,053	\$ 44,994
	Sum of Total Balance	\$ 1,312,611	\$ 757,117	\$ 2,069,728
70-74	Count of Members	13	11	24
	Average of Total Balance	\$ 64,649	\$ 70,703	\$ 67,424
	Sum of Total Balance	\$ 840,443	\$ 777,736	\$ 1,618,179
75 and Above	Count of Members	10	8	18
	Average of Total Balance	\$ 57,600	\$ 48,764	\$ 53,673
	Sum of Total Balance	\$ 575,997	\$ 390,112	\$ 966,109
Total Members		58	47	105
Average of Total Balance		\$ 49,715	\$ 42,577	\$ 46,520
Grand Total Balance		\$ 2,883,487	\$ 2,001,114	\$ 4,884,601

**EXHIBIT 6 – SUMMARY OF MEMBER DATA BY COUNTY**

County	Data	Gender		Total
		Male	Female	
Adams	Count of Members	3	1	4
	Sum of Total Balance	\$ 84,832	\$ 14,381	\$ 99,213
Box Butte	Count of Members	1	2	3
	Sum of Total Balance	\$ 50,580	\$ 34,174	\$ 84,754
Buffalo	Count of Members	6	8	14
	Sum of Total Balance	\$ 203,378	\$ 316,204	\$ 519,582
Cass	Count of Members	1	0	1
	Sum of Total Balance	\$ 21,291	\$ 0	\$ 21,291
Custer	Count of Members	4	2	6
	Sum of Total Balance	\$ 208,804	\$ 21,219	\$ 230,023
Dawson	Count of Members	2	0	2
	Sum of Total Balance	\$ 106,460	\$ 0	\$ 106,460
Dodge	Count of Members	4	2	6
	Sum of Total Balance	\$ 284,375	\$ 221,953	\$ 506,328
Gage	Count of Members	3	3	6
	Sum of Total Balance	\$ 164,418	\$ 49,280	\$ 213,698
Gosper	Count of Members	2	0	2
	Sum of Total Balance	\$ 34,970	\$ 0	\$ 34,970
Hall	Count of Members	2	3	5
	Sum of Total Balance	\$ 80,018	\$ 109,894	\$ 189,912
Harlan	Count of Members	0	2	2
	Sum of Total Balance	\$ 0	\$ 12,048	\$ 12,048
Hitchcock	Count of Members	2	0	2
	Sum of Total Balance	\$ 125,878	\$ 0	\$ 125,878
Jefferson	Count of Members	0	1	1
	Sum of Total Balance	\$ 0	\$ 8,858	\$ 8,858
Kimball	Count of Members	0	1	1
	Sum of Total Balance	\$ 0	\$ 28,740	\$ 28,740
Lincoln	Count of Members	1	2	3
	Sum of Total Balance	\$ 35,473	\$ 18,022	\$ 53,495
Madison	Count of Members	3	4	7
	Sum of Total Balance	\$ 81,184	\$ 237,270	\$ 318,454



EXHIBIT 6 (Continued) – SUMMARY OF MEMBER DATA BY COUNTY

County	Data	Gender		Total
		Male	Female	
Platte	Count of Members	6	3	9
	Sum of Total Balance	\$ 323,940	\$ 100,662	\$ 424,602
Polk	Count of Members	1	0	1
	Sum of Total Balance	\$ 26,627	\$ 0	\$ 26,627
Red Willow	Count of Members	2	0	2
	Sum of Total Balance	\$ 12,034	\$ 0	\$ 12,034
Richardson	Count of Members	2	1	3
	Sum of Total Balance	\$ 134,876	\$ 35,221	\$ 170,097
Saline	Count of Members	1	0	1
	Sum of Total Balance	\$ 25,153	\$ 0	\$ 25,153
Sarpy	Count of Members	5	4	9
	Sum of Total Balance	\$ 484,468	\$ 141,679	\$ 626,147
Saunders	Count of Members	2	1	3
	Sum of Total Balance	\$ 130,775	\$ 327,073	\$ 457,848
Scotts Bluff	Count of Members	2	1	3
	Sum of Total Balance	\$ 189,575	\$ 38,069	\$ 227,644
Seward	Count of Members	1	3	4
	Sum of Total Balance	\$ 39,987	\$ 167,789	\$ 207,776
Washington	Count of Members	1	2	3
	Sum of Total Balance	\$ 12,197	\$ 8,703	\$ 20,900
York	Count of Members	1	1	2
	Sum of Total Balance	\$ 22,194	\$ 109,875	\$ 132,069
	Members			
	Cash Balance	29	21	50
	Defined Contribution	29	26	55
	Total	58	47	105
Grand Total Balance				
	Cash Balance	\$ 1,429,312	\$ 945,577	\$ 2,374,889
	Defined Contribution	1,454,175	1,055,537	2,509,712
	Total	\$ 2,883,487	\$ 2,001,114	\$ 4,884,601



APPENDIX A – SUMMARY OF BENEFIT PROVISIONS

Member	Any person employed by a County participating in either the Defined Contribution or Cash Balance Benefit under the County Employees Retirement System who has an accumulated account balance based on contributions which were made prior to January 1, 1984.
Contributions	Each participating County shall make contributions to the Fund on an actuarial basis as approved by the Retirement Board.
Eligibility for Benefits	Any member who retires or terminates service and elects to convert to an annuity using their accumulated account balance, with interest, commencing on or after age 55, is eligible to receive a benefit from the Fund.
Benefit Amount	<p>The Fund shall provide the actuarially equivalent amount required to purchase the additional monthly annuity, if any, which is equal to:</p> <ul style="list-style-type: none">a. the income provided by the accumulated contributions made prior to January 1, 1984 with interest, based on male annuity conversion factors in effect on the annuity starting date, <p style="text-align: center;">Less</p> <ul style="list-style-type: none">b. the income provided by the accumulated contributions made prior to January 1, 1984 with interest, which are based on 50% male / 50% female annuity conversion factors in effect on the annuity starting date.
Cash Balance Conversion	Any member who elected to transfer his or her account balance to the Nebraska County Cash Balance Plan as of January 1, 2003, January 1, 2008 or January 2, 2013 will have his or her Benefit Amount determined using the annuity conversion interest rate applicable to the County Employees Retirement System (Cash Balance Benefit), which is 7.75%. Any other member will have his or her Benefit Amount determined using the annuity conversion interest rate applicable to the County Employees Retirement System (Defined Contribution Benefit), which for 2022 is 3.12%.
Cost of Living Adjustment (COLA)	Any member who elects an annuity has the option to purchase a 2.50% COLA, compounded annually.

Changes in Benefit Provisions Since the Prior Year

There were no changes in the benefit provisions since the last valuation.



APPENDIX B – SUMMARY OF ACTUARIAL METHODS AND ASSUMPTIONS

Economic Assumptions

- | | |
|--|--|
| 1. Investment Return | 7.20% per annum, compounded annually, net of expenses. The assumption will decrease by 0.10% per year until reaching the ultimate rate of 7.00% in 2024. |
| 2. Consumer Price Inflation | 2.55% per annum, compounded annually. The assumption will decrease by 0.10% per year until reaching the ultimate rate of 2.35% in 2024. |
| 3. Interest on accumulated contribution balances for the Defined Contribution Plan (contributions made before January 1, 1984) | 7.20% per annum, compounded annually. The assumption will decrease by 0.10% per year until reaching the ultimate rate of 7.00% in 2024. |
| 4. Interest on accumulated contribution balances for the Cash Balance Plan (contributions made before January 1, 1984) | 6.10% per annum, compounded annually. The assumption will decrease by 0.05% per year until reaching the ultimate rate of 6.00% in 2024. |
| 5. Annuity Conversion Interest Rates | 7.75% for annuities from the Cash Balance Plan.
3.12% for annuities from the Defined Contribution Plan. |

Demographic Assumptions

- | | |
|--------------------|--|
| 1. Mortality | |
| a. Pre-retirement | None. |
| b. Post-retirement | 1994 Group Annuity Mortality (based on Actuarial Equivalence definition in statute). |
| 2. Withdrawal | None. |
| 3. Disability | None. |



APPENDIX B – SUMMARY OF ACTUARIAL METHODS AND ASSUMPTIONS

4. Retirement

Rates vary by age as follows:

Age	County Annual Rates
55-60	4.5%
61	5.0
62-64	10.0
65-79	20.0
80	100.0

Other Assumptions

1. Payment election

60% of the account balances of retiring members are assumed to be paid as a lump sum distribution or installment payment, and 40% of the account balances of retiring members are assumed to be paid as an annuity form of distribution.

2. Form of Annuity Payment

Of members electing an annuity, 80% of those members were assumed to elect a 5-year certain and life annuity without COLA, and 20% of those members were assumed to elect a 5-year certain and life with a 2.5% annual COLA.

Actuarial Methods

1. Funding Method

The present value of future benefits or Projected Benefit Cost, less the Market Value of Assets, equals the Unfunded Liability or Surplus. The minimum recommended contribution is equal to an annual amount necessary to amortize the Unfunded Liability over a closed twenty-year period commencing January 1, 1999, but not less than one year.

2. Asset Valuation Method

Fair market value of assets.



APPENDIX B – SUMMARY OF ACTUARIAL METHODS AND ASSUMPTIONS

Changes in Assumptions Since the Prior Valuation

The assumed interest rate used for Defined Contribution annuity calculations is equal to the lesser of (i) the Pension Benefit Guaranty Corporation initial interest rate for valuing annuities for terminating plans as of the beginning of the year during which payment begins plus 0.75% or (ii) the interest rate used in the actuarial valuation as recommended by the actuary and approved by the Board. The rate changed from 2.44% in the prior valuation to 3.12% in the current valuation.

At their meeting on December 21, 2020, the Public Employees Retirement Board adopted a new set of actuarial assumptions, based on the recommendations in the 2020 experience study. Changes to the set of economic assumptions are phased in over four years, beginning with the January 1, 2021 valuation. Below is a summary of the key assumption changes in this valuation for the County Equal Retirement Benefit Fund:

- Price inflation assumption was lowered from 2.65% to 2.55%.
- Investment return assumption was lowered from 7.30% to 7.20%.
- Interest on accumulated contribution balances for the Defined Contribution Plan decreased from 7.30% to 7.20%.
- Interest on accumulated contribution balances for the Cash Balance Plan decreased from 6.15% to 6.10%.