

August 31, 2023

Mr. Thomas Causey
Executive Director
State of North Carolina
Department of State Treasurer
Retirement Systems Division
3200 Atlantic Avenue
Raleigh, NC 27604

Disability Income Plan of North Carolina GASB 74 Disclosure for Fiscal Year Ending June 30, 2023 Based on Valuation Date of December 31, 2022

Dear Mr. Causey:

We have prepared the required accounting information for Governmental Accounting Standards Board (GASB) Statement No. 74 for the Disability Income Plan of North Carolina for fiscal year ending June 30, 2023 based on a valuation date of December 31, 2022.

GASB Statement No. 74

GASB Statement No. 74 set forth certain Items of information to be disclosed in the financial statements of the Plan.

1. One such item is a distribution of the number of employees by type of membership, as follows:

Number of Active and Retired Participants as of 12/31/2022	
Disabled members currently receiving extended short-term and long-term disability benefits	4,322
Inactive plan members entitled to, but not currently receiving benefits	0
Active members, including those in the waiting period or on short-term disability	<u>318,895</u>
Total membership	323,217

2. Following is the schedule of changes in Net OPEB Liability

Schedule of Changes in Net OPEB Liability as of June 3	0, 202	23
Takal OPER Livil Wes		
Total OPEB Liability		
Service Cost	\$	23,657,000
Interest		9,641,000
Changes in Benefit Terms		0
Differences Between Expected and Actual Experience		(22,097,000)
Changes of Assumptions		1,473,000
Net Benefits Payments		(37,470,000)
Net Change in Total OPEB Liability	\$	(24,796,000)
Total OPEB Liability – Beginning of Year	\$	307,964,000
Total OPEB Liability – End of Year	\$	283,168,000
Plan Fiduciary Net Position		
Employer Contributions	\$	19,677,000
Member Contributions		N/A
Net Investment Income		(2,853,000)
Net Benefit Payments		(37,470,000)
Administrative Expenses		(968,000)
Other		(30,000)
Net Change in Plan Fiduciary Net Position	\$	(21,644,000)
Plan Fiduciary Net Position – Beginning of Year	\$	278,216,000
Plan Fiduciary Net Position – End of Year	\$	256,572,000

Net OPEB Liability (Asse			
		June 30, 2023	June 30, 2022
Total OPEB Liability	\$	283,168,000	\$ 307,964,000
Plan Fiduciary Net Position		256,572,000	 278,216,000
Net OPEB Liability (Asset)	\$	26,596,000	\$ 29,748,000
Plan Fiduciary Net Position as a Percentage of the Total OPEB Liability (Asset)		90.61%	90.34%

3. Following is the sensitivity of the Net OPEB liability to changes in the discount rate.

Sensitivity of the Net OPEB Liability/(Asset) to Changes in Discount Rate									
1% Decrease Current 1% Increase									
Discount Rate	2.00%	3.00%	4.00%						
Net OPEB Liability/(Asset)	\$ 31,972,000	\$ 26,596,000	\$ 21,122,000						

4. The discount rate used to measure the total OPEB liability was 3.00%. The projection of cash flows used to determine the discount rate assumed that System contributions will continue to follow the current funding policy. Investment earnings are based on actual returns through June 30, 2023, and on the assumed investment rate of return thereafter. The fund is not projected to be depleted, though beginning-of-year assets are projected to be insufficient for the full year of benefit payments beginning in 2047.

Based on those assumptions, and the assumed investment return of 3.00% used in the actuarial valuation as of December 31, 2022, the System's fiduciary net position was not projected to be available to make all projected future benefit payments of current plan members. In order to develop the blended GASB discount rate of 3.00%, 3.00% was used during the period that the Plan was projected to have a fiduciary net position that is higher than expected benefit payments, and a municipal bond rate of 3.65% was used during the period that the Plan was projected to have a fiduciary net position that is lower than expected benefit payments. The unfunded benefit payments were sufficiently small that the blended discount rate is equal to the assumed investment rate of return. The change in blended discount rate from 3.08% as of June 30, 2022 to 3.00% as of June 30, 2023 resulted in a loss of \$459,000. The 3.65% rate is based on the Bond Buyer 20-Bond GO Index as of June 30, 2023. Please see Appendix A for additional detail.

The assumed timing of the IBNR benefit payments was adjusted to remove a one-year delay. This change resulted in a loss of \$1,014,000.

5. The actuarially determined contribution rate for the fiscal year ending 6/30/2024 is documented in the Disability Income Plan of North Carolina Report on the Annual Valuation Prepared as of December 31, 2021, dated October 2022. Methods and assumptions used to calculate the projected actuarially determined contribution rates for fiscal years ending after 6/30/2024 are as follows:

Valuation Date	12/31/2022
Actuarial Cost Method	Aggregate
Amortization Method	Level percent of pay
Amortization Period	The aggregate cost method does not identify or separately amortize unfunded liabilities.
Asset Valuation Method	Asset returns in excess of or less than the expected return on market value of assets reflected over a five-year period (not greater than 120% of market value and not less than 80% of market value).
Actuarial Assumptions:	
Investment Rate of Return*	3.00%
Projected Salary Increases**	3.25% - 8.05%
*Includes Inflation of	2.50%

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**Includes Inflation and Productivity of 3.25%

Cost-of-living Adjustments 3.25% for gross long-term disability benefits.

Disabilities that occurred before January 1, 1988

do not have cost-of-living adjustments.

Expected Administrative Expenses

Included in Normal Cost

0.01% of payroll

The June 30, 2023 total OPEB liability was determined by an actuarial valuation as of December 31, 2022, based on the assumptions adopted by the Board of Trustees on January 28, 2021, which are based on the experience study prepared as of December 31, 2019. The economic assumptions with respect to investment yield, salary increase, and inflation have been based upon a review of the existing portfolio structure as well as recent and anticipated experience.

The plan sponsor selected the assumptions used for the accounting results in this letter. We believe that these assumptions are reasonable and comply with the requirements of GASB Statement No. 74. We prepared this letter in accordance with the requirements of this standard.

The June 30, 2023 total OPEB liability is based on the same plan provisions as used in the previous valuation. To the extent there have been changes to DIPNC provisions enacted by the legislature, they have been reviewed with staff of the Retirement Systems Division and were not considered material to the current valuation. To the extent the legislature enacts additional legislation that has a material impact on the valuation, revised GASB 74 disclosure may be required.

Full summaries of the assumptions, methods and plan provisions used in the previous valuation and for the June 30, 2023 total OPEB liability were provided in October 2022 in the "Report on the Actuarial Valuation Prepared as of December 31, 2021".

The actuarial cost method used to develop the total OPEB liability is the Entry Age Normal Cost method as required by GASB Statement No. 74. The funding span is from first funding age to the last age with a future benefit.

The results of this letter are based upon participant data supplied by the Retirement Systems Division and financial data supplied by the Financial Operations Division. Buck, a Gallagher Company (Buck) reviewed the data for reasonableness and consistency with data for the prior valuation but performed no audit of the data. The results of this letter are dependent on the accuracy of the data.

The primary purpose of this letter is to provide information that the Office of the State Controller (OSC) requires for its Annual Comprehensive Financial Report. This letter may also be used in conjunction with other materials for purposes of the plan audit. Use of this letter for any other purposes or by anyone other than OSC and its auditors may not be appropriate and may result in mistaken conclusions because of failure to understand applicable assumptions, methods, or inapplicability of the letter for that purpose. Because of the risk of misinterpretation of actuarial results, you should ask us to review any statement you wish to make on the results contained in this report. Buck will not accept any liability for any such statement made without prior review by Buck.

Future actuarial measurements may differ significantly from current measurements due to plan experience differing from that anticipated by the economic and demographic assumptions, increases or decreases expected as part of the natural operation of the methodology used for these measurements, and changes in plan provisions or applicable law. Because of limited scope, Buck performed no analysis of the potential range of such future differences other than the sensitivity to changes in the discount rate required by GASB Statement No. 74.

Actuarial Standard of Practice No. 56 ("ASOP 56") provides guidance to actuaries when performing actuarial services with respect to designing, developing, selecting, modifying, using, reviewing, or evaluating models. Buck uses third-party software in the performance of annual actuarial valuations and projections. The model is intended to calculate the liabilities associated with the provisions of the Plan using data and assumptions as of the measurement date under the accounting rules specified in this report. The output from the third-party vendor software is used as input to an internally developed model that applies applicable accounting rules to the liabilities derived and other inputs, such as Plan assets and contributions, to generate many of the exhibits found in this report. Buck has an extensive review process whereby the results of the liability calculations are checked using detailed sample output, changes from year to year are summarized by source, and significant deviations from expectations are investigated. Other accounting outputs and the internal model are similarly reviewed in detail and at a high level for accuracy, reasonability, and consistency with prior results. Buck also reviews the third-party model when significant changes are made to the software. The review is performed by experts within the company who are familiar with applicable accounting rules as well as the manner in which the model generates its output. If significant changes are made to the internal model, extra checking and review are completed. Significant changes to the internal model that are applicable to multiple clients are generally developed, checked and reviewed by multiple experts within the company who are familiar with the details of the required changes.

Where presented, references to "net OPEB liability" and "fiduciary net position as a percentage of the total OPEB liability" may be appropriate for evaluating the need and level of future contributions but makes no assessment regarding the funded status of the Fund if the Fund were to settle (i.e., purchase annuities to cover) any portion of its liabilities.

This report was prepared under our supervision and in accordance with all applicable Actuarial Standards of Practice. Barry is an Associate of the Society of Actuaries, a Member of the American Academy of Actuaries, and a Fellow of the Conference of Consulting Actuaries. Christian is an Associate of the Society of Actuaries, and a Member of the American Academy of Actuaries. We meet the Qualification Standards of the American Academy of Actuaries to render the actuarial opinions contained herein. We are available to discuss this report with you at your convenience.

Please let us know if you require additional information.

Sincerely,

Buck, A Gallagher Company

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Barry J. Goldberg, ASA, MAAA, FCA

Principal, Consulting Actuary

Christian Hershey, ASA, MAAA Senior Actuarial Consultant

Appendix A Table 1 – Projection of Fiduciary Net Positions (\$ in Thousands)

Calendar Year	F	eginning iduciary Position	Member Contributions	mployer ntributions	Benefit syments	Administrative Expense	Investment Earnings	Ending Fiduciary Position
2023	\$	261,531	\$ 0	\$ 20,929	\$ 55,063	\$ 968	\$ 8,077	\$ 234,506
2024		234,506	0	20,547	54,579	865	6,516	206,125
2025		206,125	0	19,287	50,852	773	5,702	179,489
2026		179,489	0	18,997	46,061	696	4,971	156,700
2027		156,700	0	19,500	42,816	628	4,344	137,100
2028		137,100	0	19,169	39,953	568	3,795	119,543
2029		119,543	0	18,104	37,058	514	3,296	103,371
2030		103,371	0	17,064	33,851	464	2,844	88,964
2031		88,964	0	16,044	30,594	419	2,446	76,441
2032		76,441	0	15,043	27,440	377	2,103	65,770
2033		65,770	0	13,513	24,646	339	1,802	56,100
2034		56,100	0	12,070	22,155	304	1,528	47,239
2035		47,239	0	11,191	19,654	271	1,287	39,792
2036		39,792	0	10,331	17,436	241	1,084	33,530
2037		33,530	0	9,503	15,489	214	914	28,244
2038		28,244	0	8,340	13,615	189	766	23,546
2039		23,546	0	7,311	12,154	168	632	19,167
2040		19,167	0	6,672	10,741	148	512	15,462
2041		15,462	0	5,769	9,360	130	408	12,149
2042		12,149	0	4,934	7,997	113	317	9,290
2043		9,290	0	4,372	6,723	98	242	7,083
2044		7,083	0	3,633	5,567	83	182	5,248
2045		5,248	0	2,974	4,517	70	133	3,768
2046		3,768	0	2,395	3,592	58	94	2,607
2047		2,607	0	1,882	2,698	47	65	1,809
2048		1,809	0	1,445	1,979	38	46	1,283
2049		1,283	0	1,006	1,479	30	31	811
2050		811	0	667	1,069	23	18	404
2051		404	0	413	703	17	8	105
2052		105	0	223	281	11	2	38
2053		38	0	102	8	7	2	127
2054		127	0	41	4	4	4	164
2055		164	0	18	2	3	5	182
2056		182	0	13	0	0	6	201
2057		201	0	9	0	0	6	216
2058		216	0	6	0	0	7	229
2059		229	0	4	0	0	7	240
2060		240	0	3	0	0	7	250
2061		250	0	2	0	0	8	260
2062		260	0	1	0	0	8	269
2063		269	0	1	0	0	8	278
2064		278	0	1	0	0	8	287
2065		287	0	0	0	0	9	296
2066		296	0	0	0	0	9	305
2067		305	0	0	0	0	9	314
2068		314	0	0	0	0	9	323
2069		323	0	0	0	0	10	333
2070		333	0	0	0	0	10	343

Appendix A

Table 2 – Actuarial Present Values of Projected Benefit Payments
(\$ in Thousands)

Calendar (Year) Relinting (Fituciary Position) Benefit Payments Funded Payments Funded Payments Funded Payments 3,00% Unifunded Payments along 2000 S. 54,255 \$ 0.0 \$ 52,212 \$ 0.0 \$ 52,212 \$ 0.0 \$ 52,212 \$ 0.0 \$ 52,212 \$ 0.0 \$ 52,212 \$ 0.0 \$ 52,212 \$ 0.0 \$ 52,212 \$ 0.0 \$ 52,212 \$ 0.0 \$ 52,212 \$ 0.0 \$ 14,234 \$ 0.0 \$ 14,234 \$ 0.0 \$ 14,234 \$ 0.0 \$ 14,239 \$ 0.0 \$ 33,958 \$ 0.0 \$ 33,958 \$ 0.0 \$ 33,958 \$ 0.0 \$ 33,958 \$ 0.0 \$ 33,958 \$ 0.0 \$ 33,558 \$ 0.0 \$ 33,558 \$ 0.0 \$ 33,558 \$ 0.0 \$ 0.0 \$ 0.0 \$ 0.0 \$ 0.0 \$ 0.0 \$ 0.0 \$ 0.0 <th< th=""><th></th><th></th><th></th><th></th><th></th><th></th><th colspan="4">Present Value of Benefit Payments</th></th<>							Present Value of Benefit Payments			
2024 234,506 54,579 54,579 0 52,212 0 52,212 2025 208,125 50,862 50,852 0 47,230 0 47,230 2026 179,499 46,061 46,061 0 41,554 0 41,534 2027 156,700 42,816 42,816 0 37,483 0 37,483 2028 137,100 39,953 39,983 0 30,580 0 30,580 2030 133,371 33,851 33,851 33,851 0 27,727 0 27,772 2032 76,441 27,440 27,440 0 20,722 0 20,722 2033 65,700 24,546 24,646 0 18,070 0 15,770 2034 56,100 22,155 22,155 0 15,770 0 15,770 2035 47,239 19,654 19,654 0 13,583 0 13,583 203		Fiduciary	y		Benefit	Benefit	Payments at	Payments at	Discount Rate	
2025 206, 125 50,852 50,852 0 47,230 0 47,230 2026 179,489 46,061 46,061 0 41,534 0 41,534 2027 156,700 42,816 42,816 0 37,483 0 37,483 2028 137,100 39,953 39,953 0 33,958 0 30,580 0 30,880 2030 119,543 37,058 30,580 0 22,797 0 23,797 0	2023	\$ 261,5	531	\$ 55,063	\$ 55,063	\$ 0	\$ 54,255	\$ 0	\$ 54,255	
2026	2024	234,5	506	54,579	54,579	0	52,212	0	52,212	
2027 156,700 42,816 42,816 0 37,483 0 37,483 2028 137,100 39,953 33,958 0 33,958 0 30,580 0 30,580 0 30,580 0 30,580 0 30,580 0 30,580 0 30,580 0 30,580 0 30,580 0 30,580 0 30,580 0 30,580 0 30,580 0 30,580 0 30,580 0 30,580 0 30,580 0 27,120 0 27,7120 0 27,7120 0 22,772 0 23,797 0 23,797 0 23,797 0 23,797 0 23,792 10,800 0 10,000 0 10,000 0 15,770 0 15,770 0 15,770 0 15,770 0 15,770 0 15,770 0 15,770 0 15,770 0 15,770 0 15,770 0 15,770	2025	206,1	125	50,852	50,852	0	47,230	0	47,230	
2027 156,700 42,816 42,816 0 37,483 0 37,483 2028 137,100 39,953 33,958 0 33,958 0 30,580 0 30,580 0 30,580 0 30,580 0 30,580 0 30,580 0 30,580 0 30,580 0 30,580 0 30,580 0 30,580 0 30,580 0 30,580 0 30,580 0 30,580 0 30,580 0 30,580 0 27,120 0 27,7120 0 27,7120 0 22,772 0 23,797 0 23,797 0 23,797 0 23,797 0 23,792 10,800 0 10,000 0 10,000 0 15,770 0 15,770 0 15,770 0 15,770 0 15,770 0 15,770 0 15,770 0 15,770 0 15,770 0 15,770 0 15,770	2026	179,4	189	46,061	46,061	0	41,534	0	41,534	
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2033 65,770 24,646 24,646 0 18,070 0 18,070 2034 56,100 22,155 0 15,770 0 15,770 2035 47,239 19,664 19,664 0 13,583 0 13,583 2036 39,792 17,436 17,436 0 11,699 0 10,090 2037 33,530 15,489 15,489 0 10,090 0 10,090 2038 28,244 13,615 13,615 0 8,611 0 8,611 2039 23,546 12,154 12,154 0 7,463 0 7,463 2040 19,167 10,741 10,741 0 6,403 0 6,403 2041 15,462 9,360 9,360 0 5,417 0 5,417 2042 12,149 7,997 7,997 0 4,494 0 4,494 2043 9,290 6,723 6,7	2031	88,9	964	30,594	30,594	0	23,797	0	23,797	
2034 56,100 22,155 22,155 0 15,770 0 15,770 2035 47,239 19,654 19,654 0 13,583 0 13,583 2036 39,792 17,436 17,436 0 11,699 0 11,699 2037 33,530 15,489 15,489 0 10,090 0 10,090 2038 28,244 13,615 13,615 0 8,611 0 8,611 2039 23,546 12,154 12,154 0 7,463 0 7,463 2040 19,167 10,741 10,741 0 6,403 0 6,403 2041 15,462 9,360 9,360 0 5,417 0 5,417 2042 12,149 7,997 7,997 0 4,494 0 4,494 2043 9,290 6,723 6,723 0 3,668 0 3,688 2044 7,083 5,567 </td <td>2032</td> <td>76,4</td> <td>141</td> <td>27,440</td> <td>27,440</td> <td>0</td> <td>20,722</td> <td>0</td> <td>20,722</td>	2032	76,4	141	27,440	27,440	0	20,722	0	20,722	
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2036 39,792 17,436 17,436 0 11,699 0 11,699 2037 33,530 15,489 15,489 0 10,090 0 10,099 2038 28,244 13,615 13,615 0 8,611 0 8,611 2039 23,546 12,154 12,154 0 7,463 0 7,463 2040 19,167 10,741 10,741 0 6,403 0 6,403 2041 15,462 9,360 9,360 0 5,417 0 5,417 2042 12,149 7,997 7,997 0 4,494 0 4,494 2043 9,290 6,723 6,723 0 3,668 0 3,668 2044 7,083 5,567 5,567 0 2,949 0 2,949 2045 5,248 4,517 4,517 0 2,323 0 2,323 2046 3,768 3,592	2034	56,1	100	22,155	22,155	0	15,770	0	15,770	
2036 39,792 17,436 17,436 0 11,699 0 11,699 2037 33,530 15,489 15,489 0 10,090 0 10,099 2038 28,244 13,615 13,615 0 8,611 0 8,611 2039 23,546 12,154 12,154 0 7,463 0 7,463 2040 19,167 10,741 10,741 0 6,403 0 6,403 2041 15,462 9,360 9,360 0 5,417 0 5,417 2042 12,149 7,997 7,997 0 4,494 0 4,494 2043 9,290 6,723 6,723 0 3,668 0 3,668 2044 7,083 5,567 5,567 0 2,949 0 2,949 2045 5,248 4,517 4,517 0 2,323 0 2,323 2046 3,768 3,592	2035	47,2	239	19,654	19,654	0	13,583	0	13,583	
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2038 28,244 13,615 13,615 0 8,611 0 8,611 2039 23,546 12,154 12,154 0 7,463 0 7,463 2040 19,167 10,741 10,741 0 6,403 0 6,403 2041 15,462 9,360 9,360 0 5,417 0 5,417 2042 12,149 7,997 7,997 0 4,494 0 4,494 2043 9,290 6,723 6,723 0 3,668 0 3,668 2044 7,083 5,567 5,567 0 2,949 0 2,949 2045 5,248 4,517 4,517 0 2,323 0 2,323 2046 3,768 3,592 3,592 0 1,793 0 1,793 2047 2,607 2,688 2,607 91 1,264 38 1,308 2048 1,809 1,979 1,	2037	33,5	530	15,489	15,489	0	10,090	0	10,090	
2040 19,167 10,741 10,741 0 6,403 0 6,403 2041 15,462 9,360 9,360 0 5,417 0 5,417 2042 12,149 7,997 7,997 0 4,494 0 4,494 2043 9,290 6,723 6,723 0 3,668 0 3,668 2044 7,083 5,567 5,567 0 2,949 0 2,949 2045 5,248 4,517 4,517 0 2,323 0 2,323 2046 3,768 3,592 3,592 0 1,793 0 1,793 2047 2,607 2,698 2,607 91 1,264 38 1,308 2048 1,809 1,799 1,809 170 851 68 931 2049 1,283 1,479 1,283 196 586 76 676 2050 811 1,069 811	2038			13,615	13,615	0	8,611	0		
2041 15,462 9,360 9,360 0 5,417 0 5,417 2042 12,149 7,997 7,997 0 4,494 0 4,494 2043 9,290 6,723 6,723 0 3,668 0 3,668 2044 7,083 5,567 5,567 0 2,949 0 2,949 2045 5,248 4,517 4,517 0 2,323 0 2,323 2046 3,768 3,592 3,592 0 1,793 0 1,793 2047 2,607 2,698 2,607 91 1,264 38 1,308 2048 1,809 1,979 1,809 170 851 68 931 2049 1,283 1,479 1,283 196 586 76 676 2050 811 1,069 811 258 360 96 474 2051 404 703 404 2	2039	23,5	546	12,154	12,154	0	7,463	0	7,463	
2042 12,149 7,997 7,997 0 4,494 0 4,494 2043 9,290 6,723 6,723 0 3,668 0 3,668 2044 7,083 5,567 5,567 0 2,949 0 2,949 2045 5,248 4,517 4,517 0 2,323 0 2,323 2046 3,768 3,592 3,592 0 1,793 0 1,793 2047 2,607 2,698 2,607 91 1,264 38 1,308 2048 1,809 1,979 1,809 170 851 68 931 2049 1,283 1,479 1,283 196 586 76 676 2050 811 1,069 811 258 360 96 474 2051 404 703 404 299 174 108 303 2052 105 281 105 176	2040	19,1	167	10,741	10,741	0	6,403	0	6,403	
2043 9,290 6,723 6,723 0 3,668 0 3,668 2044 7,083 5,567 5,567 0 2,949 0 2,949 2045 5,248 4,517 4,517 0 2,323 0 2,323 2046 3,768 3,592 3,592 0 1,793 0 1,793 2047 2,607 2,698 2,607 91 1,264 38 1,308 2048 1,809 1,979 1,809 170 851 68 931 2049 1,283 1,479 1,283 196 586 76 676 2050 811 1,069 811 258 360 96 474 2051 404 703 404 299 174 108 303 2052 105 281 105 176 44 61 117 2053 38 8 8 8 0 </td <td>2041</td> <td>15,4</td> <td>162</td> <td>9,360</td> <td>9,360</td> <td>0</td> <td>5,417</td> <td>0</td> <td>5,417</td>	2041	15,4	162	9,360	9,360	0	5,417	0	5,417	
2044 7,083 5,567 5,567 0 2,949 0 2,949 2045 5,248 4,517 4,517 0 2,323 0 2,323 2046 3,768 3,592 3,592 0 1,793 0 1,793 2047 2,607 2,698 2,607 91 1,264 38 1,308 2048 1,809 1,979 1,809 170 851 68 931 2049 1,283 1,479 1,283 196 586 76 676 2050 811 1,069 811 258 360 96 474 2051 404 703 404 299 174 108 303 2052 105 281 105 176 44 61 117 2053 38 8 8 8 0 3 0 3 2054 127 4 4 0 2<	2042	12,1	149	7,997	7,997	0	4,494	0	4,494	
2045 5,248 4,517 4,517 0 2,323 0 2,323 2046 3,768 3,592 3,592 0 1,793 0 1,793 2047 2,607 2,698 2,607 91 1,264 38 1,308 2048 1,809 1,979 1,809 170 851 68 931 2049 1,283 1,479 1,283 196 586 76 676 2050 811 1,069 811 258 360 96 474 2051 404 703 404 299 174 108 303 2052 105 281 105 176 44 61 117 2053 38 8 8 8 0 3 0 3 2054 127 4 4 0 2 0 2 2055 164 2 2 2 0 1	2043	9,2	290	6,723	6,723	0	3,668	0		
2046 3,768 3,592 3,592 0 1,793 0 1,793 2047 2,607 2,698 2,607 91 1,264 38 1,308 2048 1,809 1,979 1,809 170 851 68 931 2049 1,283 1,479 1,283 196 586 76 676 2050 811 1,069 811 258 360 96 474 2051 404 703 404 299 174 108 303 2052 105 281 105 176 44 61 117 2053 38 8 8 8 0 3 0 3 2054 127 4 4 0 2 0 2 2055 164 2 2 2 0 1 0 1 2056 182 0 0 0 0	2044	7,0	083	5,567	5,567	0	2,949	0	2,949	
2047 2,607 2,698 2,607 91 1,264 38 1,308 2048 1,809 1,979 1,809 170 851 68 931 2049 1,283 1,479 1,283 196 586 76 676 2050 811 1,069 811 258 360 96 474 2051 404 703 404 299 174 108 303 2052 105 281 105 176 44 61 117 2053 38 8 8 8 0 3 0 3 2054 127 4 4 0 2 0 2 2055 164 2 2 0 1 0 1 2056 182 0 0 0 0 0 0 0 2057 201 0 0 0 0 0 <td< td=""><td>2045</td><td>5,2</td><td>248</td><td>4,517</td><td>4,517</td><td>0</td><td>2,323</td><td>0</td><td>2,323</td></td<>	2045	5,2	248	4,517	4,517	0	2,323	0	2,323	
2048 1,809 1,979 1,809 170 851 68 931 2049 1,283 1,479 1,283 196 586 76 676 2050 811 1,069 811 258 360 96 474 2051 404 703 404 299 174 108 303 2052 105 281 105 176 44 61 117 2053 38 8 8 8 0 3 0 3 2054 127 4 4 0 2 0 2 2055 164 2 2 0 1 0 1 2056 182 0 0 0 0 0 0 2057 201 0 0 0 0 0 0 2058 216 0 0 0 0 0 0	2046	3,7	768	3,592	3,592	0	1,793	0	1,793	
2049 1,283 1,479 1,283 196 586 76 676 2050 811 1,069 811 258 360 96 474 2051 404 703 404 299 174 108 303 2052 105 281 105 176 44 61 117 2053 38 8 8 8 0 3 0 3 2054 127 4 4 0 2 0 2 2055 164 2 2 0 1 0 1 2056 182 0 0 0 0 0 0 0 2057 201 0 0 0 0 0 0 0 0 2058 216 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 </td <td>2047</td> <td>2,6</td> <td>307</td> <td>2,698</td> <td>2,607</td> <td>91</td> <td>1,264</td> <td>38</td> <td>1,308</td>	2047	2,6	307	2,698	2,607	91	1,264	38	1,308	
2050 811 1,069 811 258 360 96 474 2051 404 703 404 299 174 108 303 2052 105 281 105 176 44 61 117 2053 38 8 8 0 3 0 3 2054 127 4 4 0 2 0 2 2055 164 2 2 0 1 0 1 2056 182 0 0 0 0 0 0 0 2057 201 0 0 0 0 0 0 0 2058 216 0 0 0 0 0 0 0 0 0 2059 229 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	2048	1,8	309	1,979	1,809	170	851	68	931	
2051 404 703 404 299 174 108 303 2052 105 281 105 176 44 61 117 2053 38 8 8 0 3 0 3 2054 127 4 4 0 2 0 2 2055 164 2 2 0 1 0 1 2056 182 0 0 0 0 0 0 0 2057 201 0 0 0 0 0 0 0 2058 216 0 0 0 0 0 0 0 0 2059 229 0	2049	1,2	283	1,479	1,283	196	586	76	676	
2052 105 281 105 176 44 61 117 2053 38 8 8 0 3 0 3 2054 127 4 4 0 2 0 2 2055 164 2 2 0 1 0 1 2056 182 0 0 0 0 0 0 2057 201 0 0 0 0 0 0 2058 216 0 0 0 0 0 0 2059 229 0 0 0 0 0 0 2060 240 0 0 0 0 0 0 2061 250 0 0 0 0 0 0 2062 260 0 0 0 0 0 0 2063 269 0 0 <	2050	3	311	1,069	811	258	360	96	474	
2053 38 8 8 0 3 0 3 2054 127 4 4 0 2 0 2 2055 164 2 2 0 1 0 1 2056 182 0 0 0 0 0 0 0 2057 201 0 <td>2051</td> <td>4</td> <td>104</td> <td>703</td> <td>404</td> <td>299</td> <td>174</td> <td>108</td> <td>303</td>	2051	4	104	703	404	299	174	108	303	
2054 127 4 4 0 2 0 2 2055 164 2 2 0 1 0 1 2056 182 0 0 0 0 0 0 0 2057 201 0 0 0 0 0 0 0 0 2058 216 0 </td <td>2052</td> <td>1</td> <td>105</td> <td>281</td> <td>105</td> <td>176</td> <td>44</td> <td>61</td> <td>117</td>	2052	1	105	281	105	176	44	61	117	
2055 164 2 2 0 1 0 1 2056 182 0 0 0 0 0 0 2057 201 0 0 0 0 0 0 2058 216 0 0 0 0 0 0 2059 229 0 0 0 0 0 0 2060 240 0 0 0 0 0 0 2061 250 0 0 0 0 0 0 2062 260 0 0 0 0 0 0 2063 269 0 0 0 0 0 0 2064 278 0 0 0 0 0 0 2065 287 0 0 0 0 0 0 2066 296 0 0 0	2053		38	8	8	0	3	0	3	
2056 182 0 0 0 0 0 0 2057 201 0 0 0 0 0 0 2058 216 0 0 0 0 0 0 2059 229 0 0 0 0 0 0 2060 240 0 0 0 0 0 0 2061 250 0 0 0 0 0 0 2062 260 0 0 0 0 0 0 2063 269 0 0 0 0 0 0 2064 278 0 0 0 0 0 0 2065 287 0 0 0 0 0 0 2066 296 0 0 0 0 0 0 2067 305 0 0 0 0 0 0 2068 314 0 0 0 0 <td>2054</td> <td>1</td> <td>127</td> <td>4</td> <td>4</td> <td>0</td> <td>2</td> <td>0</td> <td>2</td>	2054	1	127	4	4	0	2	0	2	
2057 201 0 0 0 0 0 0 2058 216 0 0 0 0 0 0 2059 229 0 0 0 0 0 0 2060 240 0 0 0 0 0 0 2061 250 0 0 0 0 0 0 2062 260 0 0 0 0 0 0 2063 269 0 0 0 0 0 0 2064 278 0 0 0 0 0 0 2065 287 0 0 0 0 0 0 2066 296 0 0 0 0 0 0 2067 305 0 0 0 0 0 0 2068 314 0 0 0 0 0 0 2069 323 0 0 0 0 <td>2055</td> <td>1</td> <td>164</td> <td>2</td> <td>2</td> <td>0</td> <td>1</td> <td>0</td> <td>1</td>	2055	1	164	2	2	0	1	0	1	
2058 216 0 0 0 0 0 0 2059 229 0 0 0 0 0 0 2060 240 0 0 0 0 0 0 2061 250 0 0 0 0 0 0 2062 260 0 0 0 0 0 0 2063 269 0 0 0 0 0 0 2064 278 0 0 0 0 0 0 2065 287 0 0 0 0 0 0 2066 296 0 0 0 0 0 0 0 2067 305 0 0 0 0 0 0 0 2068 314 0 0 0 0 0 0 0 2069 323 0 0 0 0 0 0 0	2056	1	182	0	0	0	0	0	0	
2059 229 0 0 0 0 0 0 2060 240 0 0 0 0 0 0 2061 250 0 0 0 0 0 0 2062 260 0 0 0 0 0 0 2063 269 0 0 0 0 0 0 2064 278 0 0 0 0 0 0 2065 287 0 0 0 0 0 0 2066 296 0 0 0 0 0 0 2067 305 0 0 0 0 0 0 2068 314 0 0 0 0 0 0 2069 323 0 0 0 0 0 0	2057	2	201	0	0	0	0	0	0	
2060 240 0 0 0 0 0 0 2061 250 0 0 0 0 0 0 2062 260 0 0 0 0 0 0 2063 269 0 0 0 0 0 0 2064 278 0 0 0 0 0 0 2065 287 0 0 0 0 0 0 2066 296 0 0 0 0 0 0 2067 305 0 0 0 0 0 0 2068 314 0 0 0 0 0 0 2069 323 0 0 0 0 0 0	2058	2	216	0	0	0	0	0	0	
2061 250 0 0 0 0 0 0 2062 260 0 0 0 0 0 0 2063 269 0 0 0 0 0 0 2064 278 0 0 0 0 0 0 2065 287 0 0 0 0 0 0 2066 296 0 0 0 0 0 0 2067 305 0 0 0 0 0 0 2068 314 0 0 0 0 0 0 2069 323 0 0 0 0 0 0 0	2059	2	229	0	0	0	0	0	0	
2062 260 0 0 0 0 0 0 2063 269 0 0 0 0 0 0 0 2064 278 0 0 0 0 0 0 0 2065 287 0 0 0 0 0 0 0 2066 296 0 0 0 0 0 0 0 2067 305 0 0 0 0 0 0 0 2068 314 0 0 0 0 0 0 0 2069 323 0 0 0 0 0 0 0	2060	2	240	0	0	0	0	0	0	
2063 269 0 0 0 0 0 0 2064 278 0 0 0 0 0 0 0 2065 287 0 0 0 0 0 0 0 2066 296 0 0 0 0 0 0 0 2067 305 0 0 0 0 0 0 0 2068 314 0 0 0 0 0 0 0 2069 323 0 0 0 0 0 0 0	2061	2	250	0	0	0	0	0	0	
2064 278 0 0 0 0 0 0 2065 287 0 0 0 0 0 0 2066 296 0 0 0 0 0 0 0 2067 305 0 0 0 0 0 0 0 2068 314 0 0 0 0 0 0 0 2069 323 0 0 0 0 0 0 0	2062	2	260	0	0	0	0	0	0	
2065 287 0 0 0 0 0 0 2066 296 0 0 0 0 0 0 2067 305 0 0 0 0 0 0 0 2068 314 0 0 0 0 0 0 0 2069 323 0 0 0 0 0 0 0	2063	2	269	0	0	0	0	0	0	
2065 287 0 0 0 0 0 0 2066 296 0 0 0 0 0 0 2067 305 0 0 0 0 0 0 0 2068 314 0 0 0 0 0 0 0 2069 323 0 0 0 0 0 0 0				0	0	0	0	0	0	
2067 305 0 0 0 0 0 0 2068 314 0 0 0 0 0 0 0 2069 323 0 0 0 0 0 0 0	2065	2	287	0	0	0	0	0	0	
2067 305 0 0 0 0 0 0 2068 314 0 0 0 0 0 0 0 2069 323 0 0 0 0 0 0 0	2066	2	296	0	0	0	0	0	0	
2069 323 0 0 0 0 0 0				0	0	0		0	0	
	2068	3	314	0	0	0	0	0	0	
2070 333 0 0 0 0 0 0	2069	3	323	0	0	0	0	0	0	
	2070	3	333	0	0	0	0	0	0	