

October 26, 2017

Board of Trustees Teacher Retirement System of Texas 1000 Red River Street Austin, TX 78701

Subject: GASB 67 Reporting and Disclosure Information for the year ending

August 31, 2017

Dear Board of Trustees,

This report provides information required by the Teacher Retirement System of Texas (TRS) in connection with the Governmental Accounting Standards Board (GASB) Statement No. 67 "Financial Reporting for Pension Plans." The information provided herein was prepared for the purpose of assisting TRS to comply with the financial reporting and disclosure requirements of GASB No. 67.

The calculation of the liability associated with the benefits described in this report was performed for the purpose of satisfying the requirements of GASB No. 67 and is not applicable for purposes of funding the plan. A calculation of the plan's liability for other purposes may produce significantly different results. This report may be provided to parties other than TRS only in its entirety and only with the permission of TRS.

The total pension liability, net pension liability, and certain sensitivity information shown in this report are based on an actuarial valuation performed as of August 31, 2017. The total pension liability was determined as of the end of the plan year, August 31, 2017. It is our opinion that the recommended assumptions are internally consistent, reasonable, and comply with the requirements under GASB No. 67.

This report is based upon information, furnished to us by TRS, which include benefit provisions, membership information, and financial data. We did not audit this data and information, but we did apply a number of tests and concluded that it was reasonable and consistent. GRS is not responsible for the accuracy or completeness of the information provided to us by TRS.

The final section of the report titled "Calculation of the Single Discount Rate" is not a required disclosure item for your financial statements. However, it is possible that your auditors will request this information which is why it is included in the report.

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Certain tables included in the Required Supplementary Information should include a 10-year history of information. As provided for in GASB No. 67, this historical information is only presented for the years in which the information was measured in conformity with the requirements of GASB No. 67. The historical information in this report begins with the information presented for the fiscal year ending August 31, 2014.

This report compliments the actuarial valuation report that was provided to TRS and should be considered together as a complete report for the plan year ending August 31, 2017. Please see the actuarial valuation report as August 31, 2017 for additional discussion of the nature of actuarial calculations and more information related to participant data, economic and demographic assumptions, and benefit provisions. The actuarial cost method used to determine the GASB No. 67 net pension liability is the Individual Entry Age Normal method as prescribed in GASB No. 67.

The projected cash flows from the employer are based on contributions for the most recent five year period, modified on consideration of subsequent events. Changes in statute in the 2013 legislative session and the subsequent follow through are indicators that the legislature is committed to an increase in funding levels for the pension funds. Considering the above events, projected employer contributions are based on current statutory funding levels.

The actuarial methods and assumptions have been selected by the Board of Trustees of the Teacher Retirement System of Texas based upon GRS analysis and recommendations. The Board of Trustees has sole authority to determine the actuarial assumptions used for the plan. The actuarial methods and assumptions are primarily based on a study of actual experience for the four year period ending August 31, 2014 and were adopted in September 2015. Post-Retirement Mortality rates for current and future retirees are prepared in accordance with the Actuarial Standards of Practice No. 35 which advises actuaries to "adjust mortality rates to reflect mortality improvement prior to the measurement date and to include an assumption as to the expected mortality improvement after the measurement date." The assumption change shown in the reconciliation of this year's Net Pension Liability (on page 7 of this report) is the reflection of the change to the assumed retirement patterns of TRS due to the legislative changes made to TRS-Care by the 2017 Legislature.

To the best of our knowledge, the information contained with this report is accurate and fairly represents the actuarial position of the Teacher Retirement System of Texas. All calculations have been made in conformity with generally accepted actuarial principles and practices as well as with the Actuarial Standards of Practice issued by the Actuarial Standards Board. Mr. Newton is a member of the American Academy of Actuaries (MAAA) and meets the Qualification Standards of the American Academy of Actuaries to render the actuarial opinion contained herein.

Respectfully submitted,

ewis Ward

Lewis Ward Consultant Joe Newton, FSA, EA, MAAA Pension Market Leader and Actuary

## **Summary of Population Statistics**

The total pension liability described in this report is based on the plan membership as of August 31, 2017:

Inactive Plan Members or Beneficiaries Currently Receiving Benefits	407,768
Inactive Plan Members Entitled to But Not Yet Receiving Benefits	273,028
Active Plan Members	864,261
Total Plan Members	1,545,057

The Average Expected Remaining Service Life (AERSL) of 6.7496 is based on the membership information as of the beginning of the fiscal year. The AERSL of the active employees was 11.9751 years. This calculates to a total remaining service years of 11.9751\*847,673=10,150,968.94 years. Divided by the total membership of 1,503,940 as of August 31, 2016 yields an AERSL of 6.7496 years.



## **Measurement of the Net Pension Liability**

The net pension liability is measured as the total pension liability, less the amount of the pension plan's fiduciary net position. In actuarial terms, this will be the accrued liability less the market value of assets (not the smoothed actuarial value of assets that is often encountered in actuarial valuations performed to determine the employer's contribution requirement).

A single discount rate of 8.000% was used to measure the total pension liability. This single discount rate was based on the expected rate of return on pension plan investments of 8.000%. The projection of cash flows used to determine this single discount rate assumed that plan member contributions, the employer contributions, and the state contributions will be made at the rates set by the legislature during the 2013 legislative session (please see the actuarial valuation report for a description of these rates).

Based on these assumptions, the pension plan's fiduciary net position was projected to be available to make all projected future benefit payments of current plan members. 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.

Actuarial Assumptions - The total pension liability is determined by an actuarial valuation. The actuarial assumptions used to determine the total pension liability were based on the results of an experience study for the four-year period ending August 31, 2014. The active mortality rates were based on 90% of the RP-2014 Employee Mortality Tables for males and females, with full generational mortality using Scale BB. The post-retirement mortality rates for healthy lives were based on the 2015 TRS of Texas Healthy Pensioner Mortality Tables, with full generational projection using Scale BB.

The following methods and assumptions were applied to this measurement period:

Valuation Date August 31, 2017

Actuarial Cost Method Individual Entry Age Normal actuarial cost method as required

by GASB 67

Asset Valuation Method Market Value

Actuarial Assumptions:

Single Discount Rate 8.00%
Long-term Expected Return 8.00%
Municipal Bond Rate N/A\*

Last year ending August 31 in 2017 to

2116 projection period (100 years) 2116 Inflation 2.50%

Salary Increases 3.50% to 9.50% including inflation

Ad hoc post-employment benefit changes None



<sup>\*</sup> If a municipal bond rate was to be used, the rate would be 3.42% as of August 2017 (i.e. the rate closest to but not later than the Measurement Date). The source for the rate is the Fixed Income Market Data/Yield Curve/Data Municipal bonds with 20 years to maturity that include only federally tax-exempt municipal bonds as reported in Fidelity Index's "20-Year Municipal GO AA Index."

Below is a table providing the sensitivity of the net pension liability to changes in the discount rate. In particular, the table presents the plan's net pension liability, if it were calculated using a single discount rate that is 1-percentage-point lower or 1-percentage-point higher than the single discount rate:

# Sensitivity of the Net Pension Liability to the Single Discount Rate Assumption

	<b>Current Single Discount</b>	
1% Decrease	Rate Assumption	1% Increase
7.00%	8.00%	9.00%
\$53,902,879,534	\$31,974,612,699	\$13,715,771,590



# **Reconciliation of Fiduciary Net Position**

for Year Ended August 31, 2017

	Year Ending
	 August 31, 2017
Additions	
Contributions	
Non-Employer Contributing Entity	\$ 1,697,962,608
Employer	1,588,309,345
Employee	3,242,556,261
Other	 80,067,069
Total Contributions	\$ 6,608,895,283
Investment Income	
Net Appreciation in Fair Value of Investments	\$ 17,441,071,521
Interest and Dividends	0
Less Investment Expense	 (361,264,174)
Net Investment Income	\$ 17,079,807,347
Other	\$ 1,299,284
Total Additions	\$ 23,690,001,914
Deductions	
Benefit payments, including refunds of employee contributions	\$ 10,196,196,528
Pension Plan Administrative Expense	44,189,998
Other	 96,330,741
Total Deductions	\$ 10,336,717,267
Net Increase (Decrease) in Net Position	\$ 13,353,284,647
Net Position Restricted for Pensions	
Beginning of Year	\$ 134,008,637,473
End of Year	\$ 147,361,922,120



# **Schedules of Required Supplementary Information**

Schedule of Changes in the Employer's Net Pension Liability and Related Ratios

Fiscal year ending August 31,	2017	2016	2015	2014
Total Pension Liability				
Service Cost	\$ 4,489,045,421	\$ 4,392,076,679	\$ 4,225,448,833	\$ 3,965,994,265
Interest on the Total Pension Liability	13,515,485,995	12,896,571,424	12,555,645,919	11,813,445,940
Benefit Changes	0	0	0	-
Difference between Expected and Actual Experience	(969,830,844)	373,668,629	(1,588,618,832)	482,638,639
Assumption Changes	700,880,288	0	(1,474,723,994)	2,028,541,342
Benefit Payments	(9,775,775,472)	(9,379,122,730)	(8,935,111,459)	(8,548,642,525)
Refunds	(420,421,056)	(373,418,687)	(391,341,181)	(410,600,319)
Net Change in Total Pension Liability	\$ 7,539,384,332	\$ 7,909,775,315	\$ 4,391,299,286	9,331,377,342
Total Pension Liability - Beginning	\$ 171,797,150,487	\$ 163,887,375,172	\$ 159,496,075,886	150,164,698,544
Total Pension Liability - Ending (a)	\$ 179,336,534,819	\$ 171,797,150,487	\$ 163,887,375,172	\$ 159,496,075,886
Plan Fiduciary Net Position				
Non-Contributing Entity	\$ 1,697,962,608	\$ 1,675,631,248	\$ 1,591,482,988	1,530,623,829
Employer Contributions	1,588,309,345	1,483,389,348	1,377,972,653	\$ 984,552,391
Employee Contributions	3,242,556,261	2,943,669,320	2,576,024,311	2,357,686,000
Pension Plan Net Investment Income	17,079,807,347	9,193,280,560	(412,759,100)	19,434,430,034
Benefit Payments	(9,775,775,472)	(9,379,122,730)	(8,935,111,459)	(8,548,642,525)
Refunds	(420,421,056)	(373,418,687)	(391,341,181)	(410,600,319)
Pension Plan Administrative Expense	(44,189,998)	(44,402,710)	(35,556,979)	(41,904,190)
Other	 (14,964,388)	(29,095,088)	(11,248,106)	84,954,006
Net Change in Plan Fiduciary Net Position	\$ 13,353,284,647	\$ 5,469,931,261	\$ (4,240,536,873)	15,391,099,226
Plan Fiduciary Net Position - Beginning	\$ 134,008,637,473	\$ 128,538,706,212	\$ 132,779,243,085	117,388,143,859
Plan Fiduciary Net Position - Ending (b)	\$ 147,361,922,120	\$ 134,008,637,473	\$ 128,538,706,212	\$ 132,779,243,085
Net Pension Liability - Ending (a) - (b)	\$ 31,974,612,699	\$ 37,788,513,014	\$ 35,348,668,960	26,716,832,801
Plan Fiduciary Net Position as a Percentage				
of Total Pension Liability	82.17 %	78.00 %	78.43 %	83.25 %
Covered Employee Payroll	\$ 42,111,120,273	\$ 40,742,826,333	\$ 38,448,124,045	\$ 36,654,290,800
Net Pension Liability as a Percentage				
of Covered Employee Payroll	75.93 %	92.75 %	91.94 %	72.89 %
Notes to Schedule:				
N/A				



# **Schedules of Required Supplementary Information**

Schedule of the Net Pension Liability (Historical)

#### **Last 10 Fiscal Years**

FY Ending August 31,	Total Pension Liability	Plan Net Position	Net Pension Liability	Plan Net Position as a % of Total Pension Liability	Covered Payroll	Net Pension Liability as a % of Covered Payroll
2013	\$ 150,164,698,544	\$ 117,388,143,859	\$ 32,776,554,685	78.17%	\$ 35,188,983,344	93.14%
2014	159,496,075,886	132,779,243,085	26,716,832,801	83.25%	36,654,290,800	72.89%
2015	163,887,375,172	128,538,706,212	35,348,668,960	78.43%	38,448,124,045	91.94%
2016	171,797,150,487	134,008,637,473	37,788,513,014	78.00%	40,742,826,333	92.75%
2017	179,336,534,819	147,361,922,120	31,974,612,699	82.17%	42,111,120,273	75.93%



## **SCHEDULES OF REQUIRED SUPPLEMENTARY INFORMATION**

#### **Schedule of Contributions**

	Actuarially		Contribution		<b>Actual Contribution</b>
FY Ending	Determined	Actual	Deficiency	Covered	as a % of
August 31,	Contribution	Contribution	(Excess)	Payroll	Covered Payroll
2014	\$ 3,177,927,012	\$ 2,515,176,220	\$662,750,792	\$ 36,654,290,800	6.86%
2015	3,171,970,234	2,969,455,641	202,514,593	38,448,124,045	7.72%
2016	3,226,831,846	3,159,020,596	67,811,250	40,742,826,333	7.75%
2017	3,343,622,950	3,286,271,953	57,350,997	42,111,120,273	7.80%



#### **Notes to Schedule of Contributions**

Valuation Date: August 31, 2016 (to determine contribution rate for fiscal year ending

August 31, 2017).

Notes: Actuarially determined contribution rates are calculated as of August 31

preceding fiscal year. Members and employers contribute based on

statutorily fixed rates.

Methods and Assumptions Used to Determine Contribution Rates:

Actuarial Cost Method For funding purposes, the Ultimate Entry Age Normal actuarial cost method

is used

Amortization Method Level Percentage of Payroll, Floating

Remaining Amortization Period 34 years

Asset Valuation Method 5 Year smoothed market

Inflation 2.50%

Salary Increases 3.50% to 9.50% including inflation

Investment Rate of Return 8.00%

Retirement Age Experience-based table of rates that are specific to the type of eligibility

condition. Last updated for the 2015 valuation pursuant to an experience

study of the period September 1, 2010 through August 31, 2014.

Mortality Active Mortality: 90% of the RP-2014 Employee Mortality Tables for males

and females, with full generational mortality using Scale BB. Post-

Retirement: The 2015 TRS of Texas Healthy Pensioner Mortality Tables, with

full generational projection using Scale BB.

Other Information:

Notes There were no benefit changes during the year.



### **Calculation of the Single Discount Rate**

GASB Statement No. 67 includes a specific requirement for the discount rate that is used for the purpose of the measurement of the Total Pension Liability. This rate considers the ability of the fund to meet benefit obligations in the future. To make this determination, employer contributions, employee contributions, benefit payments, expenses and investment returns are projected into the future. The Plan Net Position (assets) in future years can then be determined and compared to its obligation to make benefit payments in those years. As long as assets are projected to be on hand in a future year, the assumed valuation discount rate is used. In years where assets are not projected to be sufficient to meet benefit payments, the use of a municipal bond rate is required, as described in the following paragraph.

The single discount rate (SDR) is equivalent to applying these two rates to the benefits that are projected to be paid during the different time periods. The SDR reflects (1) the long-term expected rate of return on pension plan investments (during the period in which the fiduciary net position is projected to be sufficient to pay benefits) and (2) tax-exempt municipal bond rate based on an index of 20-year general obligation bonds with an average AA credit rating as of the measurement date (to the extent that the contributions for use with the long-term expected rate of return are not met).

For the purpose of this valuation, the expected rate of return on pension plan investments is 8.000%; the municipal bond rate is 3.420% (based on the daily rate closest to but not later than the measurement date of the Fidelity "20-Year Municipal GO AA Index"); and the resulting single discount rate is 8.000%.

The tables in this section provide background for the development of the single discount rate.

The **Projection of Contributions** table shows the development of expected contributions in future years. Normal Cost contributions for future hires are not included (nor are their liabilities).

The **Projection of Plan Fiduciary Net Position** table shows the development of expected asset levels in future years.

The **Present Values of Projected Benefit Payments** table shows the development of the Single Discount Rate (SDR). It breaks down the benefit payments into present values for funded and unfunded portions and shows the equivalent total at the SDR.



## **Projection of Contributions Beginning September 1, 2017**

**Employer** 

**Employer Normal Cost Contributions** Related to Payroll

					Employer	Re	Related to Payroll			
	Payroll for Current	Payroll for Future	Total Employee	Contributions from			of Future			
Year	Employees	Employees	Payroll	Current Employees	All Employees		Employees	То	tal Contributions	
1	\$ 40,774,732,822	\$ 2,389,165,458	\$ 43,163,898,280	\$ 3,139,654,427	\$ 3,323,620,168	\$	(53,517,306)	\$	6,409,757,289	
2	39,353,493,304	4,889,502,433	44,242,995,737	3,030,218,984	3,406,710,672		(109,524,854)		6,327,404,802	
3	38,208,241,137	7,140,829,493	45,349,070,630	2,942,034,568	3,491,878,439		(159,954,581)		6,273,958,426	
4	37,157,686,332	9,325,111,064	46,482,797,396	2,861,141,848	3,579,175,399		(208,882,488)		6,231,434,759	
5	36,139,702,241	11,505,165,089	47,644,867,331	2,782,757,073	3,668,654,784		(257,715,698)		6,193,696,159	
6	35,158,804,510	13,677,184,504	48,835,989,014	2,707,227,947	3,760,371,154		(306,368,933)		6,161,230,168	
7	34,193,131,389	15,863,757,350	50,056,888,739	2,632,871,117	3,854,380,433		(355,348,165)		6,131,903,385	
8	33,216,847,534	18,091,463,424	51,308,310,958	2,557,697,260	3,950,739,944		(405,248,781)		6,103,188,423	
9	32,215,601,768	20,375,416,964	52,591,018,732	2,480,601,336	4,049,508,442		(456,409,340)		6,073,700,438	
10	31,172,611,835	22,733,182,365	53,905,794,200	2,400,291,111	4,150,746,153		(509,223,285)		6,041,813,979	
11	30,083,302,556	25,170,136,499	55,253,439,055	2,316,414,297	4,254,514,807		(563,811,058)		6,007,118,046	
12	28,937,114,271	27,697,660,760	56,634,775,031	2,228,157,799	4,360,877,677		(620,427,601)		5,968,607,875	
13	27,744,054,670	30,306,589,738	58,050,644,407	2,136,292,210	4,469,899,619		(678,867,610)		5,927,324,219	
14	26,522,586,722	32,979,323,795	59,501,910,517	2,042,239,178	4,581,647,110		(738,736,853)		5,885,149,435	
15	25,275,355,730	35,714,102,551	60,989,458,280	1,946,202,391	4,696,188,288		(799,995,897)		5,842,394,782	
16	24,008,366,575	38,505,828,162	62,514,194,737	1,848,644,226	4,813,592,995		(862,530,551)		5,799,706,670	
17	22,736,823,485	41,340,226,120	64,077,049,606	1,750,735,408	4,933,932,820		(926,021,065)		5,758,647,163	
18	21,485,132,225	44,193,843,621	65,678,975,846	1,654,355,181	5,057,281,140		(989,942,097)		5,721,694,224	
19	20,281,739,130	47,039,211,112	67,320,950,242	1,561,693,913	5,183,713,169		(1,053,678,329)		5,691,728,753	
20	19,145,435,078	49,858,538,920	69,003,973,998	1,474,198,501	5,313,305,998		(1,116,831,272)		5,670,673,227	
21	18,078,306,815	52,650,766,533	70,729,073,348	1,392,029,625	5,446,138,648		(1,179,377,170)		5,658,791,103	
22	17,060,548,211	55,436,751,970	72,497,300,182	1,313,662,212	5,582,292,114		(1,241,783,244)		5,654,171,082	
23	16,089,767,403	58,219,965,283	74,309,732,686	1,238,912,090	5,721,849,417		(1,304,127,222)		5,656,634,285	
24	15,146,742,125	61,020,733,878	76,167,476,003	1,166,299,144	5,864,895,652		(1,366,864,439)		5,664,330,357	
25	14,212,105,897	63,859,557,006	78,071,662,903	1,094,332,154	6,011,518,044		(1,430,454,077)		5,675,396,121	
26	13,268,386,712	66,755,067,764	80,023,454,476	1,021,665,777	6,161,805,995		(1,495,313,518)		5,688,158,254	
27	12,302,907,660	69,721,133,178	82,024,040,838	947,323,890	6,315,851,145		(1,561,753,383)		5,701,421,652	
28	11,305,853,415	72,768,788,444	84,074,641,859	870,550,713	6,473,747,423		(1,630,020,861)		5,714,277,275	
29	10,320,752,850	75,855,755,055	86,176,507,905	794,697,969	6,635,591,109		(1,699,168,913)		5,731,120,165	
30	9,361,216,799	78,969,703,803	88,330,920,603	720,813,694	6,801,480,886		(1,768,921,365)		5,753,373,215	
31	8,430,707,711	82,108,485,907	90,539,193,618	649,164,494	6,971,517,909		(1,839,230,084)		5,781,452,319	
32	7,519,520,870	85,283,152,589	92,802,673,458	579,003,107	7,145,805,856		(1,910,342,618)		5,814,466,345	
33	6,600,693,306	88,522,046,989	95,122,740,295	508,253,385	7,324,451,003		(1,982,893,853)		5,849,810,535	
34	5,682,187,200	91,818,621,603	97,500,808,802	437,528,414	7,507,562,278		(2,056,737,124)		5,888,353,568	
35	4,787,733,929	95,150,595,093	99,938,329,022	368,655,513	7,695,251,335		(2,131,373,330)		5,932,533,518	
36	3,933,973,647	98,502,813,601	102,436,787,248	302,915,971	7,887,632,618		(2,206,463,025)		5,984,085,564	
37		101,846,506,831	104,997,706,929	242,642,408	8,084,823,434		(2,281,361,753)		6,046,104,089	
38		105,157,951,451	107,622,649,602	189,781,758	8,286,944,019		(2,355,538,113)		6,121,187,664	
39	1,893,433,916	108,419,781,927	110,313,215,842	145,794,412	8,494,117,620		(2,428,603,115)		6,211,308,917	
40		111,619,554,472	113,071,046,238	111,764,866	8,706,470,560		(2,500,278,020)		6,317,957,406	
41		114,783,171,810	115,897,822,394	85,828,095	8,924,132,324		(2,571,143,049)		6,438,817,370	
42		117,949,636,965	118,795,267,954	65,113,586	9,147,235,632		(2,642,071,868)		6,570,277,350	
43		121,132,755,694	121,765,149,653	48,694,335	9,375,916,523		(2,713,373,728)		6,711,237,130	
44	467,008,900	124,342,269,495	124,809,278,394	35,959,685	9,610,314,436		(2,785,266,837)		6,861,007,284	
45	336,943,653	127,592,566,701	127,929,510,354	25,944,661	9,850,572,297		(2,858,073,494)		7,018,443,464	
46	235,091,651	130,892,656,462	131,127,748,113	18,102,057	10,096,836,605		(2,931,995,505)		7,182,943,157	
47		134,249,651,910	134,405,941,816	12,034,323	10,349,257,520		(3,007,192,203)		7,354,099,640	
48		137,669,215,627	137,766,090,361	7,459,355	10,607,988,958		(3,083,790,430)		7,531,657,883	
49		141,155,825,352	141,210,242,620	4,190,130	10,873,188,682		(3,161,890,488)		7,715,488,324	
50		144,713,959,236	144,740,498,686	2,043,538	11,145,018,399		(3,241,592,687)		7,905,469,250	
30	20,555,450	,. 15,555,E50	,0,.50,000	2,043,330	_,5,0 20,555		(,,002,007)		,,,	



#### Projection of Contributions Beginning September 1, 2017(continued)

**Employer Normal** 

Cost Contributions Related to Payroll **Employer** Payroll for Payroll for Future **Total Employee** Contributions from Contributions for of Future Total Year Current Employees **Employees** Payroll **Current Employees** All Employees **Employees** Contributions 51 10.376.431 148,348,634,723 148.359.011.153 798.985 11.423.643.859 (3,323,009,418) 8,101,433,426 52 3,765,247 152,064,221,185 152,067,986,432 289,924 11,709,234,955 (3,406,238,555) 8,303,286,324 53 1,603,858 155,868,082,235 155,869,686,093 123,497 12,001,965,829 (3,491,445,042)8,510,644,284 47,396 54 615,537 159,765,812,708 159,766,428,245 12,302,014,975 (3,578,754,205)8,723,308,166 55 151,998 163,760,436,953 163,760,588,951 11,704 12,609,565,349 (3,668,233,788) 8,941,343,265 56 29,005 167,854,574,670 167,854,603,675 2,233 12,924,804,483 (3,759,942,473) 9,164,864,243 57 2,861 172,050,965,906 172,050,968,767 220 13,247,924,595 9,393,983,179 (3,853,941,636) 58 176,352,242,986 176,352,242,986 13,579,122,710 (3,950,290,243) 9,628,832,467 59 180,761,049,061 180,761,049,061 13,918,600,778 (4,049,047,499) 9,869,553,279 60 185,280,075,287 185,280,075,287 14,266,565,797 (4,150,273,686) 10,116,292,111 61 189.912.077.169 189.912.077.169 14.623.229.942 (4,254,030,529) 10.369.199.413 62 194,659,879,098 194,659,879,098 14,988,810,691 (4,360,381,292) 10,628,429,399 63 199,526,376,076 199,526,376,076 15,363,530,958 (4,469,390,824) 10,894,140,134 64 204,514,535,478 204,514,535,478 15,747,619,232 (4,581,125,595) 11,166,493,637 65 209,627,398,865 209,627,398,865 16,141,309,713 (4,695,653,735) 11,445,655,978 66 214,868,083,836 214,868,083,836 16,544,842,455 (4,813,045,078) 11,731,797,377 67 220,239,785,932 220,239,785,932 16,958,463,517 (4,933,371,205) 12,025,092,312 68 225,745,780,581 225,745,780,581 17,382,425,105 (5,056,705,485) 12,325,719,620 69 231,389,425,095 231,389,425,095 17,816,985,732 12,633,862,610 (5,183,123,122)70 237,174,160,723 237,174,160,723 18,262,410,376 (5,312,701,200) 12,949,709,176 71 243,103,514,741 243,103,514,741 18,718,970,635 (5,445,518,730) 13,273,451,905 72 249,181,102,609 249,181,102,609 19,186,944,901 (5,581,656,698) 13,605,288,203 73 255,410,630,174 255,410,630,174 19,666,618,523 (5,721,198,116)13,945,420,407 74 261,795,895,929 261,795,895,929 20,158,283,987 (5,864,228,069) 14,294,055,918 75 268,340,793,327 268,340,793,327 20,662,241,086 (6,010,833,771) 14,651,407,315 76 275,049,313,160 275,049,313,160 21,178,797,113 (6,161,104,615) 15,017,692,498 77 281,925,545,989 281,925,545,989 21,708,267,041 (6,315,132,230) 15,393,134,811 78 288,973,684,639 22,250,973,717 288,973,684,639 (6,473,010,536) 15,777,963,181 79 296,198,026,755 296,198,026,755 22,807,248,060 (6,634,835,799) 16,172,412,261 303.602.977.424 80 303.602.977.424 23.377.429.262 (6.800.706.694) 16.576.722.568 81 311,193,051,859 311,193,051,859 23,961,864,993 (6,970,724,362) 16,991,140,631 82 318.972.878.156 318,972,878,156 24,560,911,618 (7,144,992,471) 17,415,919,147 83 326,947,200,110 326,947,200,110 25,174,934,408 (7.323.617.282) 17,851,317,126 335.120.880.112 335.120.880.112 25.804.307.769 18.297.600.054 84 (7,506,707,715)85 343,498,902,115 343,498,902,115 26,449,415,463 (7,694,375,407) 18,755,040,056 86 352,086,374,668 352.086.374.668 27,110,650,849 (7,886,734,793) 19.223.916.056 87 360.888.534.035 360.888.534.035 27.788.417.121 (8.083.903.162) 19.704.513.959 88 369,910,747,386 369.910.747.386 28,483,127,549 (8,286,000,741) 20,197,126,808 89 379,158,516,070 379,158,516,070 29,195,205,737 (8,493,150,760) 20,702,054,977 90 388,637,478,972 388,637,478,972 29,925,085,881 (8,705,479,529) 21,219,606,352 91 398.353.415.946 398.353.415.946 30.673.213.028 (8.923.116.517) 21.750.096.511 92 408,312,251,345 408,312,251,345 31,440,043,354 (9,146,194,430) 22,293,848,924 93 418,520,057,629 418,520,057,629 32,226,044,437 (9,374,849,291) 22,851,195,146 94 428,983,059,069 428,983,059,069 33,031,695,548 (9,609,220,523) 23,422,475,025 95 439.707.635.546 33.857.487.937 (9,849,451,036) 24.008.036.901 439.707.635.546 96 450,700,326,435 450,700,326,435 34,703,925,135 (10,095,687,312) 24,608,237,823 97 461,967,834,596 35,571,523,264 (10,348,079,495) 461,967,834,596 25,223,443,769 98 473,517,030,460 473,517,030,460 36,460,811,345 (10,606,781,482) 25,854,029,863 99 485.354.956.222 485.354.956.222 37,372,331,629 (10,871,951,019) 26,500,380,610 100 497,488,830,127 497,488,830,127 38,306,639,920 (11,143,749,795)27,162,890,125



## PROJECTION OF PLAN FIDUCIARY NET POSITION BEGINNING SEPTEMBER 1, 2017

	Ducio stod Boginning	Duciested Total	Duningtod Danofit	Projected	Duningtod Investment	Draingtod Ending Dian
Year	Projected Beginning Plan Net Position	Projected Total Contributions	Projected Benefit Payments	Administrative Expenses	Projected Investment Earnings at 8.00%	Projected Ending Plan Net Position
,	(a)	(b)	(c)	(d)	(e)	(f)=(a)+(b)-(c)-(d)+(e)
1	\$ 147,361,922,120	\$ 6,409,757,289	\$ 12,651,266,372	\$ 48,929,679	\$ 11,542,176,809	\$ 152,613,660,166
2	152,613,660,166	6,327,404,802	10,942,791,888	47,224,192	12,026,176,314	159,977,225,203
3	159,977,225,203	6,273,958,426	11,506,770,052	45,849,889	12,591,093,567	167,289,657,254
4	167,289,657,254	6,231,434,759	12,074,756,114	44,589,224	13,152,186,995	174,553,933,670
5	174,553,933,670	6,193,696,159	12,659,008,589	43,367,643	13,708,976,021	181,754,229,618
6	181,754,229,618	6,161,230,168	13,252,860,198	42,190,565	14,260,475,131	188,880,884,154
7	188,880,884,154	6,131,903,385	13,854,218,328	41,031,758	14,805,910,880	195,923,448,333
8	195,923,448,333	6,103,188,423	14,476,219,506	39,860,217	15,343,834,065	202,854,391,098
9	202,854,391,098	6,073,700,438	15,120,626,503	38,658,722	15,871,919,394	209,640,725,706
10	209,640,725,706	6,041,813,979	15,789,552,812	37,407,134	16,387,382,039	216,242,961,777
11	216,242,961,777	6,007,118,046	16,478,928,390	36,099,963	16,887,206,529	222,622,257,999
12	222,622,257,999	5,968,607,875	17,188,602,732	34,724,537	17,368,252,545	228,735,791,149
13	228,735,791,149	5,927,324,219	17,907,289,847	33,292,866	17,827,577,340	234,550,109,995
14	234,550,109,995	5,885,149,435	18,625,092,985	31,827,104	18,262,966,048	240,041,305,388
15	240,041,305,388	5,842,394,782	19,331,933,083	30,330,427	18,672,913,430	245,194,350,091
16	245,194,350,091	5,799,706,670	20,022,120,186	28,810,040	19,056,465,602	249,999,592,137
17	249,999,592,137	5,758,647,163	20,689,772,679	27,284,188	19,413,141,710	254,454,324,143
18	254,454,324,143	5,721,694,224	21,322,180,419	25,782,159	19,743,319,852	258,571,375,642
19	258,571,375,642	5,691,728,753	21,902,846,027	24,338,087	20,048,785,271	262,384,705,552
20	262,384,705,552	5,670,673,227	22,415,978,452	22,974,522	20,332,948,705	265,949,374,510
21	265,949,374,510	5,658,791,103	22,862,962,455	21,693,968	20,600,170,918	269,323,680,107
22	269,323,680,107	5,654,171,082	23,258,347,114	20,472,658	20,854,470,901	272,553,502,318
23	272,553,502,318	5,656,634,285	23,605,090,636	19,307,721	21,099,396,095	275,685,134,341
24	275,685,134,341	5,664,330,357	23,917,809,762	18,176,091	21,338,004,849	278,751,483,694
25	278,751,483,694	5,675,396,121	24,212,627,862	17,054,527	21,572,225,055	281,769,422,481
26	281,769,422,481	5,688,158,254	24,506,934,780	15,922,064	21,802,659,447	284,737,383,337
27	284,737,383,337	5,701,421,652	24,815,376,366	14,763,489	22,028,561,783	287,637,226,916
28	287,637,226,916	5,714,277,275	25,148,275,218	13,567,024	22,248,040,756	290,437,702,705
29	290,437,702,705	5,731,120,165	25,457,374,535	12,384,903	22,460,659,834	293,159,723,266
30	293,159,723,266	5,753,373,215	25,726,530,020	11,233,460	22,668,780,548	295,844,113,548
31	295,844,113,548	5,781,452,319	25,765,105,840	10,116,849	22,883,163,784	298,733,506,962
32	298,733,506,962	5,814,466,345	25,971,791,732	9,023,425	23,107,544,922	301,674,703,072
33	301,674,703,072	5,849,810,535	26,189,102,987	7,920,832	23,335,745,210	304,663,234,997
34	304,663,234,997	5,888,353,568	26,399,472,690	6,818,625	23,568,130,160	307,713,427,411
35	307,713,427,411	5,932,533,518	26,573,263,812	5,745,281	23,807,102,952	310,874,054,788
36	310,874,054,788	5,984,085,564	26,688,789,105	4,720,768	24,057,483,633	314,222,114,111
37	314,222,114,111	6,046,104,089	26,709,716,960	3,781,440	24,326,977,236	317,881,697,036
38	317,881,697,036	6,121,187,664	26,606,137,356	2,957,638	24,626,785,231	322,020,574,937
39	322,020,574,937	6,211,308,917	26,357,919,445	2,272,121	24,971,195,566	326,842,887,853
40	326,842,887,853	6,317,957,406	25,950,029,991		25,377,186,977	332,586,260,455
41	332,586,260,455	6,438,817,370	25,417,363,059	1,741,790 1,337,581	25,862,310,819	339,468,688,005
42	339,468,688,005	6,570,277,350	24,805,246,867	1,014,757	26,442,088,541	347,674,792,271
	347,674,792,271		24,126,040,583			
43 44	357,389,992,379	6,711,237,130 6,861,007,284	23,387,044,615	758,873 560.411	27,130,762,433 27,942,852,953	357,389,992,379 368,806,247,591
45	368,806,247,591			560,411 404,332	28,893,161,977	
		7,018,443,464	22,601,273,385			382,116,175,314
46 47	382,116,175,314	7,182,943,157	21,775,952,246	282,110	29,996,792,140	397,519,676,256
47 49	397,519,676,256	7,354,099,640	20,916,737,644	187,548	31,269,497,882	415,226,348,586
48	415,226,348,586	7,531,657,883	20,028,062,524	116,250	32,727,863,317	435,457,691,012
49	435,457,691,012	7,715,488,324	19,113,575,671	65,301	34,389,460,230	458,448,998,594
50	458,448,998,594	7,905,469,250	18,177,439,741	31,847	36,272,944,259	484,449,940,514



## **Projection of Plan Fiduciary Net Position Beginning September 1, 2017 (continued)**

(a) (b) (c) (d) (e) (D-(a) (b)-(c)-(d)-(c) (d) (e) (D-(a) (b)-(c)-(d)-(c) (e) (d) (e) (D-(a) (b)-(c)-(d)-(c) (e) (e) (e) (d) (e) (D-(a) (b)-(c)-(d)-(c) (e) (e) (e) (e) (e) (e) (e) (e) (e) (e	Year	Projected Beginning Plan Net Position	Projected Total Contributions	Projected Benefit Payments	Projected Administrative Expenses	Projected Investment Earnings at 8.50%	Projected Ending Plan Net Position
52         513,28,644,332         83,03,286,324         16,171,235,330         4,518         40,797,451,917         546,755,942,724           53         546,755,942,724         8,510,644,284         15,211,387,132         1,925         43,477,661,954         583,532,799,066           54         583,532,799,06         8,723,306,166         14,255,055,500         739         46,465,566,189         66,984,158,355           56         66,08,941,58,335         9,146,866,243         12,381,180,85         35         53,466,274,18         77,167,101,896           57         720,167,101,896         9,928,981,979         11,426,340,424         3         57,533,637,792         775,668,382,440           58         775,668,382,440         9,628,812,339,279         9,009,227,724         -         66,954,782,271         904,002,227,495           60         904,022,227,495         10,162,92,111         73,700,187,42         -         72,376,161,551         977,786,642,456           61         19,77,846,424,50         10,389,199,413         7,874,991,299         -         78,320,203,384         11,470,084,707,406           62         1,058,599,470,599         10,824,293,997,704,101         10,821,394,401         -         27,261,382,244         -         78,320,203,384         -         11,470,084,		(a)	(b)	(c)	(d)	(e)	(f)=(a)+(b)-(c)-(d)+(e)
53         546,755,942,724         8.10,1644,284         15,211,387,132         1,925         43,477,601,944         583,532,799,906           54         583,532,799,906         8.723,308,166         14,253,695,500         7.99         46,465,664,189         624,468,076,022           55         662,846,183,355         9,414,342,655         13,301,649,883         182         47,766,383,133         720,167,101,906           57         720,167,101,806         9,393,983,719         11,425,340,424         3         57,533,337,792         71,766,683,82,440           58         775,668,382,440         9,628,812,2467         10,090,350,99         -         66,201,839,821         94,022,227,495           60         904,022,227,495         10,116,292,111         8,730,038,742         -         72,376,161,591         97,778,4642,456           61         977,784,642,456         10,369,199,413         73,784,951,299         -         78,320,620,399         1,058,599,470,959           62         1,058,599,470,950         1,068,599,470,959         1,068,494,193         -         78,320,620,399         1,078,749,951,299           63         1,147,008,470,746         10,989,413,337         7,949,333,484,299         -         78,321,260,693,789,359         1,079,749,694,299         -         78,324,266,348,3	51	484,449,940,514	8,101,433,426	17,126,840,805	12,452	38,401,923,648	513,826,444,332
54         583,532,799,906         8,73,308,166         14,253,695,500         739         46,465,666,189         624,468,076,022           55         669,894,158,355         9,164,864,243         12,356,178,085         35         53,466,257,418         702,167,101,886         39,398,179         775,668,382,440           58         775,663,824,440         9,628,832,467         10,509,035,059         6,094,193,398,217         775,668,382,440         9,628,832,467         10,509,035,059         6,009,022,277,495         904,022,277,965         904,022,277,495         904,022,277,965         905,009,009,009,009         909,009,009,009         909,009,009,009         909,009,009,009         909,009,009,009         909,009,009,009         909,009,009,009         909,009,009,009         909,009,009,009         909,009,009,009         909,009,009,009         909,009,009,009         909,009,009,009         909,009,009,009	52	513,826,444,332	8,303,286,324	16,171,235,330	4,518	40,797,451,917	546,755,942,724
55         624,468,076,022         8,941,343,265         13,301,649,883         122         497,765,389,133         669,894,158,355           56         669,894,158,355         9,164,864,243         12,358,178,085         35         53,466,27,418         720,167,101,896           57         720,167,101,896         9,393,989,179         11,426,340,424         3         57,533,637,792         775,663,382,440         9,040,22,277,95           60         940,222,277,95         10,162,92,111         8,730,038,742         -         72,376,161,591         97,784,642,456           61         977,784,642,456         10,369,199,413         7,874,991,299         -         78,320,620,389         1,058,599,470,599           62         1,168,694,705,796         10,688,799,470,599         10,688,799,470,599         -         78,320,620,389         1,058,599,470,599           63         1,147,008,470,746         10,894,140,134         62,261,3852         -         91,942,766,985         1,243,592,764,013           64         1,243,592,746,013         1,164,693,637         5,993,303,40         -         91,709,988,110         1,417,008,470,746           65         1,348,975,337,020         11,444,565,978         4,774,007,736         -         103,147,984,955         1,468,827,392,17	53	546,755,942,724	8,510,644,284	15,211,387,132	1,925	43,477,601,954	583,532,799,906
56 6689.84,158.355 9,164.864.243 12,358.178.085 35 53.466,274.18 720,167,101.896 57 720,167,101.896 9,303,083,179 11,426,340,424 3 57,533,637,792 775,668,382,440 9,628.822,467 10,509.035,099 62,018,939.821 836,807,119.669 9 838,607,119.669 9,869,535,279 9,609,227,724 66,6934,782,271 904,022,227,495 10,116,202,118 8,730,088,724 7 72,376,161.591 10,7784,642,456 10,369,199,413 7,874,991,299 78,320,620,389 1,058,599,470,959 10,162,8429,399 74,7894,595 84,822,842,547 11,470,08,470,746 10,894,140,140 6,225,613,852 9,9142,766,983 11,446,362,740,746 11,446,3827,392,217 11,66493,637 5,493,303,740 99,709,983,110 1,348,975,937,020 11,446,555,98 4,774,007,736 108,178,065,055 98 4,774,804,245 11,474,08,470,746 11,483,875,937,020 11,446,555,98 4,774,007,736 108,178,066,052 11,740,804,606,924 12,325,716,502 1,388,775,603,600,609 1,724,864,666,924 12,325,716,502 1,388,775,610,606,91 1,388,866,109,691 12,265,903,312 12,265,903,312 12,265,903,314 12,265,903,314 12,265,903,314 12,265,903,314 12,265,903,314 12,265,903,314 12,263,362,514 12,263,362,362,514 12,263,362,362,514 12,263,362,362,	54		8,723,308,166	14,253,695,500	739	46,465,664,189	624,468,076,022
57         720,167,101,896         9,393,883,179         11,426,340,424         3         57,533,637,792         775,668,382,440           58         775,668,382,440         10,059,035,0599         62,018,939,821         83,860,711,9669           59         88,680,711,9669         9,869,533,279         9,00,227,724         66,954,782,271         90,4022,274,995           60         90,402,227,4995         10,116,292,111         8,730,038,742         72,375,161,591         97,784,642,456           61         977,784,642,456         10,369,199,413         7,874,901,299         78,320,620,389         10,585,994,70,959           62         1,058,599,470,959         10,628,420,399         7,047,854,959         84,828,425,347         1,147,008,470,746           63         1,147,008,470,746         10,894,140,134         6,252,613,852         91,942,766,985         1,243,592,764,013           64         1,243,592,764,013         11,146,655,978         4,774,007,736         108,179,806,955         1,438,875,937,020           65         1,348,975,937,202         1,717,977,377         4,098,720,582         117,405,640,679         1,588,866,109,61           67         1,588,866,109,691         12,025,719,602         2,895,477,511         138,359,126,321         1,872,864,666,924           68	55	624,468,076,022	8,941,343,265	13,301,649,883	182	49,786,389,133	669,894,158,355
58         775,668,382,440         9,628,322,467         10,509,035,059         62,018,939,821         836,807,119,669           59         836,807,119,669         9,609,222,7249         66,694,782,271         904,022,227,495           61         977,784,642,456         10,369,199,113         7,874,991,299         78,320,620,389         10,838,994,709,7046           62         1,058,599,470,959         10,628,293,470,995         10,628,293,470,991         10,828,294,709,470,7046           63         1,147,008,470,746         10,891,410,134         6,252,613,852         91,942,766,985         1,243,592,764,013           64         1,243,592,764,013         11,166,493,637         5,493,303,740         99,709,983,110         1,348,375,937,020           65         1,348,975,937,210         11,443,552,719,620         1,493,872,392,217         1,731,797,377         4,098,720,582         117,405,640,679         1,588,866,109,691         12,255,992,312         3,471,389,750         127,444,854,671         1,872,654,035,354           67         1,588,866,109,691         12,232,5719,620         2,898,477,511         138,359,126,221         1,872,654,035,354           69         1,872,654,035,354         12,325,719,620         2,898,477,511         138,455,403,334         2,603,386,201         1,872,454,033,344         2,002,222,100,135	56	669,894,158,355	9,164,864,243	12,358,178,085	35	53,466,257,418	720,167,101,896
59 836,807,119,669 9,869,553,279 9,609,227,724 - 66,954,782,271 904,022,227,495 60 904,022,227,495 10,116,292,111 8,730,038,742 - 72,376,161,591 9,778,464,2456 10,369,199,131 7,747,991,299 - 78,320,620,389 10,58,599,470,959 62 10,58,599,470,595 10,628,293.99 7,047,854,959 - 84,828,425,347 1,147,008,470,746 10,804,140,134 6,252,613,852 - 91,942,766,985 1,243,592,764,013 11,166,493,637 5,493,303,740 - 99,709,883,110 1,348,975,937,020 65 1,348,975,937,020 11,445,655,978 4,774,007,736 - 108,179,806,955 1,468,827,392,217 1,731,770,737 4,098,720,582 - 117,405,640,65,221 1,172,64,035,354 66 1,248,646,66,624 12,225,719,620 2,895,477,511 1 188,393,126,231 1,724,664,666,924 1,724,664,666,924 1,225,719,620 2,895,477,511 1 188,393,126,231 1,172,654,035,334 1,243,692,132,132,132,132,132,132,132,132,132,13	57	720,167,101,896	9,393,983,179	11,426,340,424	3	57,533,637,792	775,668,382,440
60 904,022,227,495 10,116,292,111 8,730,038,742 72,376,161,591 977,784,642,456 61 977,784,642,456 61 977,784,642,456 61 977,784,642,456 62 10,585,594,70,595 10,563,429,399 70,475,84,959 - 84,828,425,347 1,147,008,470,746 63 1,147,008,470,746 10,894,140,134 6,225,613,852 91,942,766,985 1,243,592,764,013 64 1,243,592,764,013 11,166,493,637 5,493,303,740 99,709,983,110 1,348,975,937,020 11,445,655,978 4,774,007,736 108,179,806,955 1,663,273,922,17 66 1,463,827,392,217 11,731,797,377 40,98,720,582 117,405,640,679 1,588,866,109,691 12,025,092,312 3,471,389,750 127,448,546,71 1,724,864,666,924 12,325,719,620 2,895,477,511 188,359,126,321 1,872,654,035,334 12,633,862,610 2,374,097,392 150,214,818,389 2,033,128,618,962 70 2,033,128,618,962 12,349,709,176 190,905,5357 150,214,818,389 2,033,128,618,962 2,396,063,978,530 13,605,288,203 1,155,882,083 122,735,145,157 2,000,686,899,167 2,2366,036,978,530 13,605,288,203 1,155,882,083 122,735,145,157 2,000,686,899,167 32,222,334,831,853 14,294,055,918 629,685,536 226,322,246,419 3,062,322,048,654 12,822,334,831,853 14,294,055,918 629,685,536 226,322,246,419 3,062,322,048,654 75 3,062,322,048,654 14,651,407,131 125,190,291 238,466,599,582 3,907,172,633,017 78 3,907,172,633,017 15,777,963,181 1198,372,591 288,866,599,582 3,907,172,633,017 15,777,963,181 125,190,291 313,187,765,006 4,236,013,282,412 16,172,412,261 75,994,544 339,512,535,233 4,991,622,295,343 16,578,722,568 44,348,294 366,995,882 3,997,172,633,017 77 3,603,313,271,215 15,393,134,811 198,372,591 288,866,599,582 3,907,172,633,017 15,777,963,181 125,190,291 313,187,765,006 4,236,013,282,412 16,172,412,261 75,994,544 339,512,535,233 4,991,622,295,343 16,578,722,568 443,482,94 366,995,882 33,992,172,633,017 15,777,963,181 125,190,291 313,187,765,006 4,236,013,282,412 16,172,412,261 75,994,544 339,512,535,233 4,991,622,295,343 16,578,722,568 443,482,94 366,995,882 33,997,172,633,017 15,777,963,181 125,190,291 313,187,866,597,84 17,881,317,116 73,992,977 466,000,311,973,973,973 481 19,992,176,400 49,992,176,400 49,992,17	58	775,668,382,440	9,628,832,467	10,509,035,059	-	62,018,939,821	836,807,119,669
61 977,784,642,456 10,369,199,413 7,874,991,299 78,320,620,389 1,058,599,470,959 62 1,058,599,470,959 10,628,429,399 7,047,854,959 84,28,8425,347 1,147,008,470,746 10,899,140,134 622,6213,852 91,942,766,985 1,243,592,764,013 64 1,243,592,764,013 11,166,693,637 5,493,303,740 99,709,883,110 1,348,975,937,020 11,445,655,978 4,774,007,736 108,179,806,955 1,463,827,392,217 11,731,797,377 4,098,720,582 117,405,640,679 1,588,866,109,691 1,588,866,109,691 12,025,092,312 3,471,389,750 127,448,854,671 1,724,864,666,924 12,325,791,620 2,895,477,511 1 138,359,126,331 1,872,654,035,354 69 1,872,654,035,354 12,633,862,610 2,374,097,392 150,214,818,389 2,033,128,618,962 2,072,251,001,315 13,273,454,310,95 1,503,483,100 177,041,909,397,395 2,207,252,100,135 71 22,072,521,001,315 13,273,454,001,301 1,348,349,145,317 2,600,686,899,167 2,396,663,978,530 13,505,288,203 1,155,882,083 192,173,514,517 2,600,686,899,167 3,465,403,403,403,403,403,403,403,403,403,403	59	836,807,119,669	9,869,553,279	9,609,227,724	-	66,954,782,271	904,022,227,495
62 1,058,594,70,959 10,628,429,399 7,047,854,959 - 84,828,425,347 1,147,008,470,746 63 1,147,008,470,746 10,894,140,134 6,252,613,852 - 91,942,766,985 1,248,952,764,013 1,248,975,937,020 65 1,248,975,937,020 11,445,655,978 4,774,007,736 - 108,179,806,955 1,463,827,392,217 66 1,463,827,392,217 11,731,797,377 4,098,720,582 - 117,405,640,679 11,248,846,666,924 12,325,719,620 2,895,477,511 - 138,359,126,321 1,872,654,035,354 69 1,872,654,035,354 12,633,862,610 2,374,097,392 - 150,214,818,389 2,033,128,618,962 12,949,709,176 19,908,625,357 - 163,083,397,355 2,207,252,100,135 71 2,207,252,100,135 13,273,451,905 15,03,483,100 - 177,041,909,590 2,396,063,978,530 13,258,460,407 865,568,579 - 20,856,680,858 9,167 13,945,420,407 865,568,536 - 226,322,846,419 3,062,322,048,654 14,651,407,315 443,838,977 - 245,543,133,682 3,322,072,750,675 76 3,322,072,750,675 15,017,692,498 302,284,594 - 266,342,112,636 3,601,312,712,15 77 3,603,131,271,215 15,393,134,811 198,372,591 - 288,846,599,582 3,302,312,772,750,675 76 3,322,072,506,75 15,017,692,498 302,284,594 - 266,342,112,636 3,601,312,712,15 77 3,603,131,271,215 15,393,134,811 198,372,591 - 288,846,599,582 3,907,172,633,017 3,779,6181 105,772,566 443,842,94 - 367,978,356,681 4,976,133,022,81 15,779,796,181 105,772,566 443,843,294 - 367,978,356,681 4,976,133,022,81 15,779,796,181 105,776,725,668 443,842,94 - 367,978,356,681 4,976,133,022,81 15,779,796,181 105,776,725,668 443,842,94 - 367,978,356,681 4,976,133,022,81 15,779,796,181 105,776,725,668 443,842,94 - 367,978,356,681 4976,133,022,81 15,779,796,181 105,776,725,668 443,842,94 - 367,978,356,681 4976,133,022,81 15,779,796,181 105,776,725,668 443,643,94 - 367,978,356,681 4976,133,022,81 15,779,796,181 105,776,776,675 15,017,672,568 443,643,94 - 367,978,356,681 4976,133,022,81 15,779,796,181 105,776,775,675 15,017,672,756,675 15,017,672,756,675 15,017,672,756,675 15,017,672,756,675 15,017,672,756,675 15,017,672,756,675 15,017,672,756,675 15,017,672,756,675 15,017,672,756,675 15,017,672,776,675 15,017,672,776,675 15,017,672,776	60	904,022,227,495	10,116,292,111	8,730,038,742	-	72,376,161,591	977,784,642,456
62 1,058,59,470,959 10,628,429,399 7,047,854,959 - 84,828,425,347 1,147,008,470,746 6 3 1,147,008,470,746 10,894,140,134 6,252,613,852 - 91,942,766,985 1,243,592,764,013 1,248,975,937,020 6 1,248,592,764,013 1,144,693,637 5,939,037,40 - 99,709,833,110 1,348,975,937,020 6 1,445,655,978 4,774,007,736 - 108,179,806,955 1,463,827,392,217 6 1,588,866,109,691 12,025,092,312 3,471,389,750 - 127,444,854,671 1,724,864,666,924 6 12,325,719,620 2,895,477,511 - 138,359,126,321 1,872,654,035,354 6 1,242,864,666,924 12,325,719,620 2,895,477,511 - 138,359,126,321 1,872,654,035,354 6 1,243,861,866,924 12,325,719,620 2,895,477,511 - 138,359,126,321 1,872,654,035,354 7 1,220,331,128,618,962 12,949,709,176 1,909,625,357 - 163,083,397,355 2,207,252,100,135 13,273,451,905 1,503,483,100 - 177,041,909,590 2,396,063,978,530 13,253,454,040 865,568,579 - 20,566,800,658 2,822,334,831,853 14,294,055,918 679,685,536 - 226,322,846,419 3,062,322,048,654 4,561,407,315 443,838,977 - 245,543,133,682 3,322,072,750,675 15,017,692,498 302,824,594 - 265,343,112,636 3,362,322,048,654 4,561,407,315 443,838,977 - 245,543,133,682 3,322,072,750,675 15,017,692,498 302,824,594 - 265,343,112,636 3,363,131,271,215 15,393,134,811 198,372,591 - 288,846,599,582 3,322,372,750,675 15,017,692,498 302,824,594 - 265,343,112,636 3,603,131,271,215 77 3,603,131,271,215 15,393,134,811 198,372,591 - 288,846,599,582 3,302,772,750,675 8 3,907,172,633,017 3,779,63181 125,100,291 - 313,187,876,506 4,236,013,282,412 19,406,131 19,406,1	61				-		
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77 3,603,131,271,215 15,393,134,811 198,372,591 - 288,846,599,582 3,907,172,633,017 78 3,907,172,633,017 15,777,963,181 125,190,291 - 313,187,876,506 4,236,013,282,412 79 4,236,013,282,412 16,172,412,261 75,934,544 - 339,512,535,213 4,591,622,295,343 80 4,591,622,295,343 16,576,722,568 44,348,294 - 367,978,356,681 4,976,133,026,298 81 4,976,133,026,298 16,991,140,631 25,040,811 - 398,756,230,421 5,391,855,356,538 82 5,391,855,356,538 17,415,919,147 13,742,256 - 432,031,124,355 5,841,288,657,784 83 5,841,288,657,784 17,851,317,126 7,359,577 - 468,003,119,723 6,327,135,735,056 84 6,327,135,735,056 18,297,600,054 3,863,238 - 506,888,530,964 6,852,318,002,835 85 6,852,318,002,835 18,755,040,056 1,997,658 - 548,921,131,167 7,419,992,176,400 86 7,419,992,176,400 19,223,916,056 1,021,104 - 594,353,497,595 8,033,568,568,947 87 8,033,568,568,947 19,704,513,959 517,003 - 643,458,482,864 8,696,731,048,767 88 8,696,731,048,767 20,197,126,808 260,391 - 696,530,816,757 9,413,458,731,941 89 9,413,458,731,941 20,702,054,977 130,715 - 753,888,845,075 10,188,049,501,278 90 10,188,049,501,278 21,219,606,352 65,522 815,876,412,971 11,025,145,455,080 91 11,025,145,455,080 21,750,096,511 32,764 - 882,864,901,946 11,929,760,420,773 92 11,929,760,420,773 22,293,848,924 16,314 - 955,255,431,517 12,907,309,684,901 93 12,907,309,684,901 22,851,195,146 8,045 - 1,033,812,237,934 13,963,642,109,936 94 13,963,642,109,936 23,422,475,025 3,890 - 1,118,010,243,687 15,105,074,824,758 95 15,105,074,824,758 24,008,036,901 1,818 - 1,209,347,832,830 16,338,430,692,670 24,608,237,823 803 - 1,308,039,848,476 17,671,078,778,165 97 17,671,078,778,165 25,223,443,769 329 - 1,414,675,830,161 19,110,978,051,767 98 19,110,978,051,767 25,854,029,863 131 - 1,529,892,510,255 20,666,724,591,754 99 20,666,724,591,754 26,500,380,610 54 - 1,654,377,590,110 22,347,602,562,420							
78         3,907,172,633,017         15,777,963,181         125,190,291         -         313,187,876,506         4,236,013,282,412           79         4,236,013,282,412         16,172,412,261         75,934,544         -         339,512,535,213         4,591,622,295,343           80         4,591,622,295,343         16,576,722,568         44,348,294         -         367,978,356,681         4,976,133,026,298           81         4,976,133,026,298         16,991,140,631         25,040,811         -         398,756,230,421         5,391,855,356,538           82         5,391,855,356,538         17,415,919,147         13,742,256         -         432,031,124,355         5,841,288,657,784           83         5,841,288,657,784         17,851,317,126         7,359,577         -         468,003,119,723         6,327,135,735,056           84         6,327,135,735,056         18,297,600,054         3,863,238         -         506,888,530,964         6,852,318,002,835           85         6,852,318,002,835         18,755,040,056         1,997,658         -         548,921,131,167         7,419,992,176,400           86         7,419,992,176,400         19,223,916,056         1,021,104         -         594,353,497,595         8,033,568,568,947           87         8,033,568,568,947							
79							
80							
81 4,976,133,026,298 16,991,140,631 25,040,811 - 398,756,230,421 5,391,855,356,538 82 5,391,855,356,538 17,415,919,147 13,742,256 - 432,031,124,355 5,841,288,657,784 83 5,841,288,657,784 17,851,317,126 7,359,577 - 468,003,119,723 6,327,135,735,056 84 6,327,135,735,056 18,297,600,054 3,863,238 - 506,888,530,964 6,852,318,002,835 85 6,852,318,002,835 18,755,040,056 1,997,658 - 548,921,131,167 7,419,992,176,400 86 7,419,992,176,400 19,223,916,056 1,021,104 - 594,353,497,595 8,033,568,568,947 87 8,033,568,568,947 19,704,513,959 517,003 - 643,458,482,864 8,696,731,048,767 88 8,696,731,048,767 20,197,126,808 260,391 - 696,530,816,757 9,413,458,731,941 89 9,413,458,731,941 20,702,054,977 130,715 - 753,888,845,075 10,188,049,501,278 90 10,188,049,501,278 21,219,606,352 65,522 - 815,876,412,971 11,025,145,455,080 11,025,145,455,080 21,750,096,511 32,764 - 882,864,901,946 11,929,760,420,773 92 11,929,760,420,773 22,293,848,924 16,314 - 955,255,431,517 12,907,309,684,901 93 12,907,309,684,901 22,851,195,146 8,045 - 1,033,481,237,934 13,963,642,109,936 14,3963,642,109,936 23,422,475,025 3,890 - 1,118,010,243,687 15,105,074,824,758 95 15,105,074,824,758 24,008,036,901 1,818 - 1,209,347,832,830 16,338,430,692,670 96 16,338,430,692,670 24,608,237,823 803 - 1,308,039,848,476 17,671,078,778,165 97 17,671,078,778,165 25,223,443,769 329 - 1,414,675,830,161 19,110,978,051,767 98 19,110,978,051,767 25,854,029,863 131 - 1,529,892,510,255 20,666,724,591,754 99 20,666,724,591,754 26,500,380,610 54 - 1,654,377,590,110 22,347,602,562,420							
82         5,391,855,356,538         17,415,919,147         13,742,256         -         432,031,124,355         5,841,288,657,784           83         5,841,288,657,784         17,851,317,126         7,359,577         -         468,003,119,723         6,327,135,735,056           84         6,327,135,735,056         18,297,600,054         3,863,238         -         506,888,530,964         6,852,318,002,835           85         6,852,318,002,835         18,755,040,056         1,997,658         -         548,921,131,167         7,419,992,176,400           86         7,419,992,176,400         19,223,916,056         1,021,104         -         594,353,497,595         8,033,568,568,947           87         8,033,568,568,947         19,704,513,959         517,003         -         643,458,482,864         8,696,731,048,767           88         8,696,731,048,767         20,197,126,808         260,391         -         696,530,816,757         9,413,458,731,941           89         9,413,458,731,941         20,702,054,977         130,715         -         753,888,845,075         10,188,049,501,278           91         11,025,145,455,080         21,750,096,511         32,764         -         882,864,901,946         11,929,760,420,773           92         11,997,60,420,773					-		
83         5,841,288,657,784         17,851,317,126         7,359,577         -         468,003,119,723         6,327,135,735,056           84         6,327,135,735,056         18,297,600,054         3,863,238         -         506,888,530,964         6,852,318,002,835           85         6,852,318,002,835         18,755,040,056         1,997,658         -         548,921,131,167         7,419,992,176,400           86         7,419,992,176,400         19,223,916,056         1,021,104         -         594,353,497,595         8,033,568,568,947           87         8,033,568,568,947         19,704,513,959         517,003         -         643,458,482,864         8,696,731,048,767           88         8,696,731,048,767         20,197,126,808         260,391         -         696,530,816,757         9,413,458,731,941           89         9,413,458,731,941         20,702,054,977         130,715         -         753,888,845,075         10,188,049,501,278           90         10,188,049,501,278         21,219,606,352         65,522         -         815,876,412,971         11,025,145,455,5080           91         11,025,145,455,5080         21,750,096,511         32,764         -         882,864,901,946         11,929,760,420,773           92         11,929,760,420,773					-		
84       6,327,135,735,056       18,297,600,054       3,863,238       -       506,888,530,964       6,852,318,002,835         85       6,852,318,002,835       18,755,040,056       1,997,658       -       548,921,131,167       7,419,992,176,400         86       7,419,992,176,400       19,223,916,056       1,021,104       -       594,353,497,595       8,033,568,568,947         87       8,033,568,568,947       19,704,513,959       517,003       -       643,458,482,864       8,696,731,048,767         88       8,696,731,048,767       20,197,126,808       260,391       -       696,530,816,757       9,413,458,731,941         89       9,413,458,731,941       20,702,054,977       130,715       -       753,888,845,075       10,188,049,501,278         90       10,188,049,501,278       21,219,606,352       65,522       -       815,876,412,971       11,025,145,455,080         91       11,025,145,455,080       21,750,096,511       32,764       -       882,864,901,946       11,929,760,420,773         92       11,929,760,420,773       22,293,848,924       16,314       -       955,255,431,517       12,907,309,684,901         93       12,907,309,684,901       22,851,195,146       8,045       -       1,033,481,237,934       13,963,642,109,9					-		
85         6,852,318,002,835         18,755,040,056         1,997,658         -         548,921,131,167         7,419,992,176,400           86         7,419,992,176,400         19,223,916,056         1,021,104         -         594,353,497,595         8,033,568,568,947           87         8,033,568,568,947         19,704,513,959         517,003         -         643,458,482,864         8,696,731,048,767           88         8,696,731,048,767         20,197,126,808         260,391         -         696,530,816,757         9,413,458,731,941           89         9,413,458,731,941         20,702,054,977         130,715         -         753,888,845,075         10,188,049,501,278           90         10,188,049,501,278         21,219,606,352         65,522         -         815,876,412,971         11,025,145,455,080           91         11,025,145,455,080         21,750,096,511         32,764         -         882,864,901,946         11,929,760,420,773           92         11,929,760,420,773         22,293,848,924         16,314         -         955,255,431,517         12,907,309,684,901           93         12,907,309,684,901         22,851,195,146         8,045         -         1,033,481,237,934         13,963,642,109,936           94         13,963,642,109,936					-		
86       7,419,992,176,400       19,223,916,056       1,021,104       -       594,353,497,595       8,033,568,568,947         87       8,033,568,568,947       19,704,513,959       517,003       -       643,458,482,864       8,696,731,048,767         88       8,696,731,048,767       20,197,126,808       260,391       -       696,530,816,757       9,413,458,731,941         89       9,413,458,731,941       20,702,054,977       130,715       -       753,888,845,075       10,188,049,501,278         90       10,188,049,501,278       21,219,606,352       65,522       -       815,876,412,971       11,025,145,455,080         91       11,025,145,455,080       21,750,096,511       32,764       -       882,864,901,946       11,929,760,420,773         92       11,929,760,420,773       22,293,848,924       16,314       -       955,255,431,517       12,907,309,684,901         93       12,907,309,684,901       22,851,195,146       8,045       -       1,033,481,237,934       13,963,642,109,936         94       13,963,642,109,936       23,422,475,025       3,890       -       1,118,010,243,687       15,105,074,824,758         95       15,105,074,824,758       24,608,237,823       803       -       1,308,039,848,476       17,671,078,778,165					-		
87       8,033,568,568,947       19,704,513,959       517,003       -       643,458,482,864       8,696,731,048,767         88       8,696,731,048,767       20,197,126,808       260,391       -       696,530,816,757       9,413,458,731,941         89       9,413,458,731,941       20,702,054,977       130,715       -       753,888,845,075       10,188,049,501,278         90       10,188,049,501,278       21,219,606,352       65,522       -       815,876,412,971       11,025,145,455,080         91       11,025,145,455,080       21,750,096,511       32,764       -       882,864,901,946       11,929,760,420,773         92       11,929,760,420,773       22,293,848,924       16,314       -       955,255,431,517       12,907,309,684,901         93       12,907,309,684,901       22,851,195,146       8,045       -       1,033,481,237,934       13,963,642,109,936         94       13,963,642,109,936       23,422,475,025       3,890       -       1,118,010,243,687       15,105,074,824,758         95       15,105,074,824,758       24,608,237,823       803       -       1,209,347,832,830       16,338,430,692,670         96       16,338,430,692,670       24,608,237,823       803       -       1,308,039,848,476       17,671,078,778,165 </td <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td></td>					-		
88       8,696,731,048,767       20,197,126,808       260,391       -       696,530,816,757       9,413,458,731,941         89       9,413,458,731,941       20,702,054,977       130,715       -       753,888,845,075       10,188,049,501,278         90       10,188,049,501,278       21,219,606,352       65,522       -       815,876,412,971       11,025,145,455,080         91       11,025,145,455,080       21,750,096,511       32,764       -       882,864,901,946       11,929,760,420,773         92       11,929,760,420,773       22,293,848,924       16,314       -       955,255,431,517       12,907,309,684,901         93       12,907,309,684,901       22,851,195,146       8,045       -       1,033,481,237,934       13,963,642,109,936         94       13,963,642,109,936       23,422,475,025       3,890       -       1,118,010,243,687       15,105,074,824,758         95       15,105,074,824,758       24,008,036,901       1,818       -       1,209,347,832,830       16,338,430,692,670         96       16,338,430,692,670       24,608,237,823       803       -       1,308,039,848,476       17,671,078,778,165         97       17,671,078,778,165       25,223,443,769       329       -       1,414,675,830,161       19,110,978,051,767					-		
89       9,413,458,731,941       20,702,054,977       130,715       -       753,888,845,075       10,188,049,501,278         90       10,188,049,501,278       21,219,606,352       65,522       -       815,876,412,971       11,025,145,455,080         91       11,025,145,455,080       21,750,096,511       32,764       -       882,864,901,946       11,929,760,420,773         92       11,929,760,420,773       22,293,848,924       16,314       -       955,255,431,517       12,907,309,684,901         93       12,907,309,684,901       22,851,195,146       8,045       -       1,033,481,237,934       13,963,642,109,936         94       13,963,642,109,936       23,422,475,025       3,890       -       1,118,010,243,687       15,105,074,824,758         95       15,105,074,824,758       24,008,036,901       1,818       -       1,209,347,832,830       16,338,430,692,670         96       16,338,430,692,670       24,608,237,823       803       -       1,308,039,848,476       17,671,078,778,165         97       17,671,078,778,165       25,223,443,769       329       -       1,414,675,830,161       19,110,978,051,767         98       19,110,978,051,767       25,854,029,863       131       -       1,529,892,510,255       20,666,724,591,754					-		
90 10,188,049,501,278 21,219,606,352 65,522 - 815,876,412,971 11,025,145,455,080 91 11,025,145,455,080 21,750,096,511 32,764 - 882,864,901,946 11,929,760,420,773 92 11,929,760,420,773 22,293,848,924 16,314 - 955,255,431,517 12,907,309,684,901 93 12,907,309,684,901 22,851,195,146 8,045 - 1,033,481,237,934 13,963,642,109,936 94 13,963,642,109,936 23,422,475,025 3,890 - 1,118,010,243,687 15,105,074,824,758 95 15,105,074,824,758 24,008,036,901 1,818 - 1,209,347,832,830 16,338,430,692,670 96 16,338,430,692,670 24,608,237,823 803 - 1,308,039,848,476 17,671,078,778,165 97 17,671,078,778,165 25,223,443,769 329 - 1,414,675,830,161 19,110,978,051,767 98 19,110,978,051,767 25,854,029,863 131 - 1,529,892,510,255 20,666,724,591,754 99 20,666,724,591,754 26,500,380,610 54 - 1,654,377,590,110 22,347,602,562,420					-		
91 11,025,145,455,080 21,750,096,511 32,764 - 882,864,901,946 11,929,760,420,773 92 11,929,760,420,773 22,293,848,924 16,314 - 955,255,431,517 12,907,309,684,901 93 12,907,309,684,901 22,851,195,146 8,045 - 1,033,481,237,934 13,963,642,109,936 94 13,963,642,109,936 23,422,475,025 3,890 - 1,118,010,243,687 15,105,074,824,758 95 15,105,074,824,758 24,008,036,901 1,818 - 1,209,347,832,830 16,338,430,692,670 96 16,338,430,692,670 24,608,237,823 803 - 1,308,039,848,476 17,671,078,778,165 97 17,671,078,778,165 25,223,443,769 329 - 1,414,675,830,161 19,110,978,051,767 98 19,110,978,051,767 25,854,029,863 131 - 1,529,892,510,255 20,666,724,591,754 99 20,666,724,591,754 26,500,380,610 54 - 1,654,377,590,110 22,347,602,562,420					-		
92       11,929,760,420,773       22,293,848,924       16,314       -       955,255,431,517       12,907,309,684,901         93       12,907,309,684,901       22,851,195,146       8,045       -       1,033,481,237,934       13,963,642,109,936         94       13,963,642,109,936       23,422,475,025       3,890       -       1,118,010,243,687       15,105,074,824,758         95       15,105,074,824,758       24,008,036,901       1,818       -       1,209,347,832,830       16,338,430,692,670         96       16,338,430,692,670       24,608,237,823       803       -       1,308,039,848,476       17,671,078,778,165         97       17,671,078,778,165       25,223,443,769       329       -       1,414,675,830,161       19,110,978,051,767         98       19,110,978,051,767       25,854,029,863       131       -       1,529,892,510,255       20,666,724,591,754         99       20,666,724,591,754       26,500,380,610       54       -       1,654,377,590,110       22,347,602,562,420							
93       12,907,309,684,901       22,851,195,146       8,045       -       1,033,481,237,934       13,963,642,109,936         94       13,963,642,109,936       23,422,475,025       3,890       -       1,118,010,243,687       15,105,074,824,758         95       15,105,074,824,758       24,008,036,901       1,818       -       1,209,347,832,830       16,338,430,692,670         96       16,338,430,692,670       24,608,237,823       803       -       1,308,039,848,476       17,671,078,778,165         97       17,671,078,778,165       25,223,443,769       329       -       1,414,675,830,161       19,110,978,051,767         98       19,110,978,051,767       25,854,029,863       131       -       1,529,892,510,255       20,666,724,591,754         99       20,666,724,591,754       26,500,380,610       54       -       1,654,377,590,110       22,347,602,562,420							
94       13,963,642,109,936       23,422,475,025       3,890       -       1,118,010,243,687       15,105,074,824,758         95       15,105,074,824,758       24,008,036,901       1,818       -       1,209,347,832,830       16,338,430,692,670         96       16,338,430,692,670       24,608,237,823       803       -       1,308,039,848,476       17,671,078,778,165         97       17,671,078,778,165       25,223,443,769       329       -       1,414,675,830,161       19,110,978,051,767         98       19,110,978,051,767       25,854,029,863       131       -       1,529,892,510,255       20,666,724,591,754         99       20,666,724,591,754       26,500,380,610       54       -       1,654,377,590,110       22,347,602,562,420							
95       15,105,074,824,758       24,008,036,901       1,818       -       1,209,347,832,830       16,338,430,692,670         96       16,338,430,692,670       24,608,237,823       803       -       1,308,039,848,476       17,671,078,778,165         97       17,671,078,778,165       25,223,443,769       329       -       1,414,675,830,161       19,110,978,051,767         98       19,110,978,051,767       25,854,029,863       131       -       1,529,892,510,255       20,666,724,591,754         99       20,666,724,591,754       26,500,380,610       54       -       1,654,377,590,110       22,347,602,562,420							
96       16,338,430,692,670       24,608,237,823       803       -       1,308,039,848,476       17,671,078,778,165         97       17,671,078,778,165       25,223,443,769       329       -       1,414,675,830,161       19,110,978,051,767         98       19,110,978,051,767       25,854,029,863       131       -       1,529,892,510,255       20,666,724,591,754         99       20,666,724,591,754       26,500,380,610       54       -       1,654,377,590,110       22,347,602,562,420							
97       17,671,078,778,165       25,223,443,769       329       -       1,414,675,830,161       19,110,978,051,767         98       19,110,978,051,767       25,854,029,863       131       -       1,529,892,510,255       20,666,724,591,754         99       20,666,724,591,754       26,500,380,610       54       -       1,654,377,590,110       22,347,602,562,420							
98       19,110,978,051,767       25,854,029,863       131       -       1,529,892,510,255       20,666,724,591,754         99       20,666,724,591,754       26,500,380,610       54       -       1,654,377,590,110       22,347,602,562,420					-		
99 20,666,724,591,754 26,500,380,610 54 - 1,654,377,590,110 22,347,602,562,420							
					-	1,529,892,510,255	20,666,724,591,754
100 22,347,602,562,420 27,162,890,125 25 - 1,788,873,818,334 24,163,639,270,853					-		
	100	22,347,602,562,420	27,162,890,125	25	-	1,788,873,818,334	24,163,639,270,853



# **Present Values of Projected Benefits Beginning September 1, 2017**

Year	Projected Beginning Plan Net Position	Projected Benefit Payments	Funded Portion of Benefit Payments	Un	ifunded Portion of Benefit Payments	Present Value of Funded Benefit Payments using Expected Return Rate (v)	Present Value of Unfunded Benefit Payments using Municipal Bond Rate (vf)	Present Value of Benefit Payments using Single Discount Rate (sdr)
(a)	(b)	(c)	(d)		(e)	(f)=(d)*v^((a)5)	(g)=(e)*vf ^((a)5)	(h)=((c)/(1+s dr)^(a5)
1	\$ 147,361,922,120	\$ 12,651,266,372	\$ 12,651,266,372	\$	_	\$ 12,173,686,743	\$ -	\$ 12,173,686,743
2	152,613,660,166	10,942,791,888	10,942,791,888		_	9,749,728,151	-	9,749,728,151
3	159,977,225,203	11,506,770,052	11,506,770,052		_	9,492,793,763	-	9,492,793,763
4	167,289,657,254	12,074,756,114	12,074,756,114		_	9,223,488,772	-	9,223,488,772
5	174,553,933,670	12,659,008,589	12,659,008,589		_	8,953,499,111	-	8,953,499,111
6	181,754,229,618	13,252,860,198	13,252,860,198		_	8,679,185,318	-	8,679,185,318
7	188,880,884,154	13,854,218,328	13,854,218,328		-	8,400,934,850	-	8,400,934,850
8	195,923,448,333	14,476,219,506	14,476,219,506		_	8,127,874,583	-	8,127,874,583
9	202,854,391,098	15,120,626,503	15,120,626,503		_	7,860,820,227	-	7,860,820,227
10	209,640,725,706	15,789,552,812	15,789,552,812		_	7,600,534,822	-	7,600,534,822
11	216,242,961,777	16,478,928,390	16,478,928,390		=	7,344,792,550	-	7,344,792,550
12	222,622,257,999	17,188,602,732	17,188,602,732		_	7,093,611,280	-	7,093,611,280
13	228,735,791,149	17,907,289,847	17,907,289,847		_	6,842,785,392	-	6,842,785,392
14	234,550,109,995	18,625,092,985	18,625,092,985		-	6,589,883,707	=	6,589,883,707
15	240,041,305,388	19,331,933,083	19,331,933,083		=	6,333,311,202	-	6,333,311,202
16	245,194,350,091	20,022,120,186	20,022,120,186		_	6,073,539,411	-	6,073,539,411
17	249,999,592,137	20,689,772,679	20,689,772,679		-	5,811,172,315	=	5,811,172,315
18	254,454,324,143	21,322,180,419	21,322,180,419		-	5,545,183,124	=	5,545,183,124
19	258,571,375,642	21,902,846,027	21,902,846,027		=	5,274,254,398	-	5,274,254,398
20	262,384,705,552	22,415,978,452	22,415,978,452		-	4,997,979,477	=	4,997,979,477
21	265,949,374,510	22,862,962,455	22,862,962,455		-	4,720,038,224	=	4,720,038,224
22	269,323,680,107	23,258,347,114	23,258,347,114		-	4,445,986,143	=	4,445,986,143
23	272,553,502,318	23,605,090,636	23,605,090,636		_	4,178,026,342	-	4,178,026,342
24	275,685,134,341	23,917,809,762	23,917,809,762		-	3,919,793,183	=	3,919,793,183
25	278,751,483,694	24,212,627,862	24,212,627,862		-	3,674,175,676	=	3,674,175,676
26	281,769,422,481	24,506,934,780	24,506,934,780		=	3,443,366,342	-	3,443,366,342
27	284,737,383,337	24,815,376,366	24,815,376,366		-	3,228,429,789	=	3,228,429,789
28	287,637,226,916	25,148,275,218	25,148,275,218		-	3,029,388,195	=	3,029,388,195
29	290,437,702,705	25,457,374,535	25,457,374,535		-	2,839,465,398	=	2,839,465,398
30	293,159,723,266	25,726,530,020	25,726,530,020		_	2,656,931,917	-	2,656,931,917
31	295,844,113,548	25,765,105,840	25,765,105,840		_	2,463,810,992	-	2,463,810,992
32	298,733,506,962	25,971,791,732	25,971,791,732		-	2,299,606,957	=	2,299,606,957
33	301,674,703,072	26,189,102,987	26,189,102,987		_	2,147,081,699	_	2,147,081,699
34	304,663,234,997	26,399,472,690	26,399,472,690		_	2,004,007,966	-	2,004,007,966
35	307,713,427,411	26,573,263,812	26,573,263,812		-	1,867,778,340	=	1,867,778,340
36	310,874,054,788	26,688,789,105	26,688,789,105		_	1,736,942,933	-	1,736,942,933
37	314,222,114,111	26,709,716,960	26,709,716,960		_	1,609,541,617	-	1,609,541,617
38	317,881,697,036	26,606,137,356	26,606,137,356		-	1,484,536,904	-	1,484,536,904
39	322,020,574,937	26,357,919,445	26,357,919,445		-	1,361,747,354	-	1,361,747,354
40	326,842,887,853	25,950,029,991	25,950,029,991		_	1,241,365,074	-	1,241,365,074
41	332,586,260,455	25,417,363,059	25,417,363,059		_	1,125,818,537	-	1,125,818,537
42	339,468,688,005	24,805,246,867	24,805,246,867		_	1,017,320,277	-	1,017,320,277
43	347,674,792,271	24,126,040,583	24,126,040,583		_	916,170,800	_	916,170,800
44	357,389,992,379	23,387,044,615	23,387,044,615		-	822,322,135	-	822,322,135
45	368,806,247,591	22,601,273,385	22,601,273,385		-	735,827,118	-	735,827,118
46	382,116,175,314	21,775,952,246	21,775,952,246		-	656,441,880	-	656,441,880
47	397,519,676,256	20,916,737,644	20,916,737,644		-	583,833,914	-	583,833,914
48	415,226,348,586	20,028,062,524	20,028,062,524		-	517,619,409	-	517,619,409
49	435,457,691,012	19,113,575,671	19,113,575,671		-	457,393,301	-	457,393,301
50	458,448,998,594	18,177,439,741	18,177,439,741		_	402,769,724	_	402,769,724



# PVs of Projected Benefits Beginning September 1, 2017 (continued)

(a) (b) (c) (d) (e) (f)-(d)**((a)-5) (g)-(e)**((a)-5) (g)	Year	Projected Beginning Plan Net Position	Projected Benefit Payments	Funded Portion of Benefit Payments	U	nfunded Portion of Benefit Payments	Present Value of Funded Benefit Payments using Expected Return Rate (v)	Present Value of Unfunded Benefit Payments using Municipal Bond Rate (vf)	Present Value of Benefit Payments using Single Discount Rate (sdr)
51         \$ 489,449.90.51.51         \$ 171,26,640.80.5         \$ 171,26,640.80.5         \$ 313,280.60.1         \$ 307,188.99.4         \$ 307,188.99.4           52         \$ 513,26,644.33.2         \$ 161,712,353.30         \$ 161,712,353.30         \$ 207,160,289         \$ 267,560           54         \$ 583,532,79.90.50         \$ 1,231,387,132         \$ 200,590.721         \$ 222,143,516         \$ 222,143,516         \$ 222,143,516         \$ 222,143,516         \$ 222,143,516         \$ 222,143,516         \$ 222,143,516         \$ 222,143,516         \$ 200,590.721         \$ 200									(h)=((c)/(1+sdr)^(a5)
52         513 826 540 332 16 171 225 330         16.171 225 330         307.188 994         307.188           53         546,755,942,724         15.211.387.332         12.211.387.132         267,560,289         267,560           54         583,532,799,906         14,255,695,500         14,253,695,500         22,2143,516         22,2143           55         624,468,076,022         13,301,649,883         13,301,649,883         200,590,721         200,590           56         668,841,563,55         11,225,817,808         172,558,836         172,558,866           57         720,167,101,896         11,426,340,424         11,426,340,424         11,477,788,471         125,840,471           58         75,668,382,440         10,590,935,909         12,58,447,10         125,840,471         125,840,477           60         90,022,27,483         8,730,038,722         8,730,038,742         8,730,038,742         8,939,890         8,939,890         8,939,89           61         977,846,624,56         74,749,991,299         7,845,599         62,014,893         6,620,148         7,845,699         7,845,699         7,845,699         7,845,699         7,845,699         7,845,699         7,845,699         7,845,699         7,845,699         7,845,699         7,845,699         7,845,699 <t< td=""><td></td><td>• •</td><td></td><td></td><td>Ś</td><td></td><td></td><td></td><td></td></t<>		• •			Ś				
53         546,755,942,724         15,211,387,132         15,211,387,132         226,7560,289         223,2143,516         232,143           54         \$83,532,799,006         14,253,695,500         12,236,183,516         232,143         200,599           55         \$624,468,076,022         13,301,649,883         13,01,409,883         200,599,0721         200,599           56         \$669,894,158,355         11,246,340,424         11,72,558,366         117,2558           57         \$70,167,101,869         \$10,509,035,059         10,509,035,059         125,804,710         125,804           59         \$836,807,119,669         \$609,227,742         \$609,227,724         106,512,061         106,512,061           60         \$940,022,227,495         \$730,038,742         \$75,909,227,724         106,512,061         85,538,609         85,388           61         \$977,784,642,456         \$7,874,991,299         \$7,843,991,999         \$7,843,993         \$6,201,4883         \$6,201,4883         \$6,201,4883         \$6,201,4883         \$6,201,4883         \$6,201,4883         \$6,201,4883         \$6,201,4883         \$6,201,4883         \$6,201,4883         \$6,201,4883         \$6,201,4883         \$6,201,4883         \$6,201,4883         \$6,201,4883         \$6,201,4883         \$6,201,4883         \$6,201,4883					,	-		-	307,198,994
54         \$83,532,799,906         14,25,655,500         14,25,655,500         222,143,516         -         222,143           55         624,68,076,022         13,301,649,883         13,301,649,883         12,005,907,21         20,05,90           56         669,894,158,355         12,358,178,085         17,258,66         172,558           57         7720,167,101,896         11,425,40,024         11,426,40,424         147,728,733         1417,728           58         775,668,382,440         10,590,935,509         12,580,4710         125,804         1215,804           60         940,222,27.48         9,609,227,724         9,609,227,724         106,512,061         106,512           61         977,784,642,455         7,874,991,299         7,874,991,299         7,874,891,399         62,014,893         62,014						-		_	267,560,289
55         624 468,076,022         13,301,649,883         13,301,649,883         - 200,590,721         - 200,590           56         669,841,58,355         12,358,178,085         12,358,178,085         172,558,66         - 172,578,67           57         720,167,101,386         11,426,340,424         14,772,8733         - 127,728,73           58         875,568,382,440         10,599,935,509         10,599,935,099         125,804,710         - 125,804           60         990,4022,727,495         8,730,938,742         8,730,938,742         8,959,899         - 8,959,899         - 8,959,899         - 8,959,899         - 8,959,899         - 8,959,899         - 6,041,893         - 6,014						-		_	232,143,516
56         669,389,118,335         12,358,178,085         12,258,178,085         172,558,366         172,558           57         720,167,101,966         11,426,340,424         11,47,23,733         147,728           58         775,668,382,440         10,509,335,099         125,808,710         1225,804           59         836,807,119,669         9,609,227,724         9,609,227,724         106,512,061         105,512,661           60         904,022,227,98         8,730,038,742         8,999,909         89,598,960           61         977,784,642,456         7,874,991,299         7,874,991,299         7,4836,398         74,836           62         1,058,599,470,059         7,047,854,959         7,047,854,959         62,014,893         62,014,893           63         1,147,008,470,746         62,25,613,852         6,252,613,852         5,0942,105         50,942           64         1,243,592,764,013         5,493,303,740         5,403,303,740         41,440,515         41,440           65         1,348,975,912,00         4,774,007,736         33,446,544         33,446           66         1,463,827,392,217         4,098,720,582         2,6508,938         26,508           67         1,588,866,109,913         3,471,380,750         3,741,973 <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td>-</td> <td>200,590,721</td>						-		-	200,590,721
57         720,167,101,896         11,426,340,424         11,426,340,424         11,426,340,424         11,426,340,424         11,426,340,424         11,426,340,424         125,864,710         122,864           58         775,666,382,440         10,509,35,039         10,509,035,079         105,511,061         100,512,60           60         904,022,27,495         8,730,038,742         8,730,038,742         89,598,909         85,588,61           61         977,786,642,656         7,874,991,299         7,874,991,299         7,438,63,98         7,874,91,61           62         1,038,599,470,559         7,047,854,959         7,047,854,599         62,014,893         62,014,69           63         1,147,008,470,746         6,252,613,852         6,252,613,852         5,042,105         5,944,105         5,944,105           64         1,243,897,591,720         4,774,007,736         4,744,007,736         33,346,549         33,346           65         1,348,875,937,020         4,774,007,736         3,341,389,70         20,788,523         20,788,73           68         1,724,864,666,924         2,895,477,511         2,895,477,511         2,895,477,511         1,605,5236         16,055,236           69         1,872,56,035,534         1,593,488,100         1,503,483,100         6,617,95						-		_	172,558,366
58         775,668,382,440         10,509,035,059         10,509,035,059         125,804,710         125,804,710           59         836,807,119,669         9,609,227,724         9,609,227,724         106,512,061         10,512,061           60         904,022,227,489         8,730,038,742         89,598,909         89,588,           61         977,784,642,456         7,874,991,299         7,843,938         62,014,893           62         1,058,599,470,399         7,047,849,999         62,014,893         62,014,893           63         1,147,008,470,746         6,252,613,852         6,252,613,852         50,942,105         50,342,414,440,515           64         1,243,592,746,013         5,493,303,740         5,493,304,549         33,346,549         33,346,549         33,346,549         33,346,549         33,346,549         33,346,549         33,346,549         33,346,549         33,346,549         33,346,549         33,346,549         36,342,349         20,788,523         20,788,533         20,788,533         20,788,533         20,788,533         20,788,533         20,788,533         20,788,533         20,788,533         20,788,533         20,788,533         20,788,533         20,788,533         20,788,533         20,788,533         20,788,533         20,788,533         20,788,533         20,788						-		_	147,728,733
59         836,807,119,669         9,609,227,724         9,609,227,724         106,512,061         106,512,061           60         904,022,227,495         8,730,038,742         89,598,909         8,7588,909         8,748,86           61         97,784,642,465         7,874,991,299         7,874,991,299         7,4836,398         7,8836,60           62         1,058,593,707,764         6,252,613,852         6,252,613,852         6,509,42,105         5,942,105         5,942,105         5,942,105         5,942,105         5,943,303,740         4,744,001,736         4,744,001,736         4,744,001,736         4,744,007,736						-		_	125,804,710
60 904,022,227,495 8,730,038,742 8,730,038,742 8,730,038,742 7,784,91,919 9 7,784,91,91,919 9 7,784,91,91,919 9 7,784,91,91,91,91,91,91,91,91,91,91,91,91,91,						-		_	106,512,061
61 977,784,642,456 7,874,991,299 7,874,991,291,291,291,291,291,291,291,291,291						-		_	89,598,909
62 1,058,599,470,959 7,047,854,959 7,047,854,959 62,014,893 62,014,893 62,014,693 1,147,008,470,746 6,252,613,852 5,092,41,015 5,092,41,015 5 1,042,41,015 5						-		_	74,836,398
63 1,147,008,470,746 6,252,613,852 6,252,613,852 50,942,105 50,942,105 50,942,105 50,942,105 50,942,105 50,942,105 50,942,105 51,440,140,515 51,440,515 51,510,510,510,510,510,510,510,510,510,5						-		_	62,014,893
64 1,243,592,764,013 5,493,303,740 5,493,303,740 41,440,515 41,440,515 41,440,515 1,348,975,937,020 4,774,007,736 72,705,705 33,346,549 33,346,549 33,346,549 33,346,549 34,747,207,350 72,720,522 72,720,522 72,720,522 72,720,522 72,720,522 72,720,522 72,720,720,720,720 72,720,720,720 72,720,720,720 72,720,720,720,720 72,720,720,720,720,720,720,720,720,720,7						-		_	50,942,105
65 1,348,975,937,020 4,774,007,736 4,774,007,736 2 33,346,549 33,346,66 1,463,827,392,217 4,098,720,582 4,098,720,582 2 26,508,938 2 26,508,938 2,509,68 1,724,864,666,924 2,895,477,511 2,895,477,511 1 16,055,236 1 16,055,237 1 190,625,357 1 10,034,83,100 1 1,503,483,100 1 1,						-		_	41,440,515
66 1,463,827,392,217 4,098,720,582 4,098,720,582 - 26,508,938 - 26,508, 67 1,588,866,109,691 3,471,389,750 3,471,389,750 - 20,788,523 - 20,788, 68 1,724,864,666,924 2,895,477,511 2,895,477,511 - 16,055,236 - 16,055, 69 1,872,654,035,554 2,374,097,392 2,374,097,392 - 12,189,090 - 12,189, 70 2,033,128,618,962 1,909,625,357 1,909,625,357 - 9,078,146 - 9,078, 71 2,207,252,100,135 1,503,483,100 1,503,483,100 - 6,617,955 - 6,617, 72 2,396,063,978,530 1,155,882,083 1,155,882,083 - 4,711,021 - 4,711, 73 2,600,868,99,167 865,568,579 865,568,579 3,266,474 - 3,266, 74 2,822,348,431,853 629,685,536 629,685,536 - 2,200,279 - 2,200, 75 3,062,322,048,654 443,838,977 443,818,977 - 1,436,004 - 1,436, 76 3,322,072,750,675 302,284,594 302,284,594 905,571 905, 77 3,603,131,271,215 198,372,591 198,372,591 - 550,255 - 550, 78 3,907,172,633,017 125,190,291 125,190,291 1 321,536 - 321, 79 4,236,013,282,412 75,934,544 75,934,544 180,582 180, 80 4,591,622,295,343 44,348,294 44,348,294 97,654 97,654 81 4,976,133,026,298 25,040,811 25,040,811 51,055 5 51, 81 4,976,133,026,298 25,040,811 25,040,811 51,055 5 51, 82 5,391,855,356,538 13,742,256 13,742,256 25,543 - 25,544 - 31,071,071,071,071,071,071,071,071,071,07						-		_	33,346,549
67						-		_	26,508,938
68 1,724,864,666,924 2,895,477,511 2,895,477,511 - 16,055,236 - 16,055, 69 1,872,654,035,354 2,374,097,392 2,374,097,392 - 12,189,090 - 12,189, 70 2,033,128,618,962 1,909,625,357 1,909,625,357 - 9,078,146 - 9,078, 71 2,207,252,100,135 1,503,483,100 1,503,483,100 - 6,617,955 - 6,617, 72 2,396,063,978,530 1,155,882,083 1,155,882,083 - 4,711,021 - 4,711, 73 2,600,686,899,167 865,568,579 865,568,579 - 3,266,474 - 3,266, 74 2,822,334,831,853 629,685,536 629,685,536 - 2,200,279 - 2,200, 75 3,062,322,048,654 443,838,977 443,838,977 - 1,436,004 - 1,436, 76 3,222,072,50,675 302,284,594 302,284,594 - 905,571 - 905, 77 3,603,131,271,215 198,372,591 198,372,591 - 550,255 - 550, 78 3,907,172,633,017 125,190,291 125,190,291 - 321,536 - 321, 79 4,236,013,282,412 75,934,544 75,934,544 - 180,582 - 180, 80 4,591,622,295,343 44,348,294 44,348,294 - 97,654 - 97, 81 4,976,133,026,298 25,040,811 25,040,811 - 51,055 - 51, 82 5,391,855,356,538 13,742,256 13,742,256 - 25,943 - 25, 83 5,841,286,657,784 7,359,577 7,359,577 - 12,865 - 12, 84 6,327,135,735,056 3,863,238 3,863,238 - 6,253 - 6, 85 6,852,318,002,835 1,997,658 1,997,658 - 2,994 - 2, 86 7,419,992,176,400 1,021,104 1,021,104 - 1,417 - 1, 87 8,033,568,568,947 517,003 517,003 - 664 - 1, 88 8,696,731,048,767 260,391 260,391 - 310 - 1,417 - 1, 87 8,033,568,568,947 517,003 517,003 - 664 - 1,417 - 1,418,418 - 1,418,418 - 1,418,418 - 1,418 - 1,418,418 - 1,418 - 1,418,418 - 1,418 - 1,418 - 1,418,418 - 1,418,418 - 1,418,418 - 1,418,418 - 1,418,418 - 1,418,418 -						-		_	20,788,523
69         1,872,654,035,354         2,374,097,392         2,374,097,392         12,189,090         -         12,189,070           70         2,033,128,618,662         1,909,625,357         1,909,625,357         -         9,078,146         -         9,078,170           71         2,207,252,100,135         1,503,483,100         1,505,882,083         -         4,711,021         -         4,711,71           72         2,396,063,978,530         1,155,882,083         1,471,021         -         4,711,71           73         2,600,686,899,167         865,568,579         865,568,579         3,266,474         3,266,74         3,266,74         3,266,74         3,266,322,048,654         443,838,977         436,004         -         1,436,004         -         1,436,004         -         1,436,004         -         1,436,004         -         1,436,004         -         1,436,004         -         1,436,004         -         1,436,004         -         1,436,004         -         1,436,004         -         1,436,004         -         1,436,004         -         1,436,004         -         1,436,004         -         1,436,004         -         1,436,004         -         1,436,004         -         1,436,004         -         1,436,004 <td< td=""><td></td><td></td><td></td><td></td><td></td><td>-</td><td></td><td>_</td><td>16,055,236</td></td<>						-		_	16,055,236
70         2,033,128,618,962         1,909,625,357         1,909,625,357         9,078,146         -         9,078,171           71         2,207,525,100,135         1,503,483,100         1,503,483,100         -         6,617,955         -         6,617,72           72         2,396,063,978,530         1,155,882,083         1,155,882,083         4,711,021         -         4,711,32           73         2,600,686,899,167         865,568,579         865,568,579         -         3,266,474         -         3,266,674         -         3,260,232,048,654         443,838,977         443,838,977         -         1,436,004         - <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td>_</td> <td>12,189,090</td>						-		_	12,189,090
71         2,207,252,100,135         1,503,483,100         1,503,483,100         - 6,617,955         - 6,617,755         - 6,617,752           72         2,396,063,978,530         1,155,882,083         1,155,882,083         - 4,711,021         - 4,711,73         2,600,686,899,167         865,568,579         865,568,579         - 3,266,474         - 3,266,474         - 3,266,474         - 2,200,279						-		_	9,078,146
72         2,396,063,978,530         1,155,882,083         1,155,882,083         - 4,711,021         - 4,711,73         2,600,686,899,167         865,568,579         865,568,579         - 3,266,744         - 3,266,744         - 3,266,744         - 3,266,744         - 3,266,744         - 3,266,744         - 3,266,744         - 3,266,744         - 3,266,744         - 3,266,744         - 3,266,744         - 3,266,744         - 3,266,744         - 3,266,744         - 3,266,744         - 3,266,744         - 3,266,744         - 1,336,004						_		_	6,617,955
73         2,600,686,899,167         865,568,579         865,568,579         -         3,266,474         -         3,266,74           74         2,822,334,831,853         629,685,536         629,685,536         -         2,200,279         -         2,200,75           75         3,062,322,048,654         443,838,977         443,838,977         -         1,436,004         -         1,436,604           76         3,322,072,750,675         302,284,594         -         905,571         -         905,572         -         905,573         -         120,484         -         90,652         -         120,484         -         90,654         -         907,654         -         907,654						_		_	4,711,021
74         2,822,334,831,853         629,685,536         629,685,536         -         2,200,279         -         2,200,775           75         3,062,322,048,654         443,838,977         443,838,977         -         1,436,004         -         1,436,776           76         3,322,072,750,675         302,284,594         -         905,571         -         905,           77         3,603,131,271,215         198,372,591         198,372,591         -         550,255         -         550,           78         3,907,172,633,017         125,190,291         125,190,291         -         321,136         -         321,           79         4,236,013,282,412         75,934,544         75,934,544         -         180,582         -         180,           80         4,591,622,295,343         44,348,294         43,348,294         -         97,654         -         97,           81         4,976,133,026,298         25,040,811         25,040,811         -         51,055         -         51,           82         5,391,855,356,538         13,742,256         13,742,256         -         25,943         -         25,           83         5,841,288,657,784         7,359,577         7,359,577						_		_	3,266,474
75         3,062,322,048,654         443,838,977         443,838,977         -         1,436,004         -         1,436,76           76         3,322,072,750,675         302,284,594         302,284,594         -         905,571         -         905,77           77         3,603,131,271,215         198,372,591         198,372,591         -         550,255         -         550,055           78         3,907,172,633,017         125,190,291         125,190,291         -         321,356         -         321,772,633,017         125,190,291         125,190,291         -         321,356         -         321,783         -         321,783         -         321,783         -         321,356         -         321,783         -         321,783         -         321,783         -         321,783         -         321,783         -         321,784         -         97,654         -         97,654         -         97,654         -         97,654         -         97,654         -         97,654         -         97,654         -         97,654         -         97,654         97,654         97,654         -         97,654         97,755         -         12,843         5,865,658,758         1,742,256         13,742,						-		_	2,200,279
76         3,322,072,750,675         302,284,594         302,284,594         -         905,571         -         905,77           77         3,603,131,271,215         198,372,591         198,372,591         -         550,255         -         550,078           78         3,907,172,633,017         125,190,291         125,190,291         -         321,536         -         321,           79         4,236,013,282,412         75,934,544         75,934,544         -         180,582         -         180,           80         4,591,622,295,343         44,348,294         44,348,294         -         97,654         -         97,           81         4,976,133,026,298         25,040,811         25,040,811         -         51,055         -         51,           82         5,391,855,356,538         13,742,256         13,742,256         -         25,943         -         25,           83         5,841,288,657,784         7,359,577         7,359,577         -         12,865         -         12,           84         6,327,135,735,056         3,863,238         3,863,238         -         6,253         -         6,           85         6,852,318,002,835         1,997,658         1,997,658 </td <td></td> <td></td> <td></td> <td></td> <td></td> <td>_</td> <td></td> <td>_</td> <td>1,436,004</td>						_		_	1,436,004
77       3,603,131,271,215       198,372,591       198,372,591       -       550,255       -       550,255         78       3,907,172,633,017       125,190,291       125,190,291       -       321,536       -       321,799         4,236,013,282,412       75,934,544       75,934,544       -       180,582       -       180,880         80       4,591,622,295,343       44,348,294       44,348,294       -       97,654       -       97,81         81       4,976,133,026,298       25,040,811       25,040,811       -       51,055       -       51,82         5,391,855,356,538       13,742,256       13,742,256       -       25,943       -       25,943       -       25,943       -       25,943       -       25,943       -       25,943       -       25,943       -       25,943       -       25,943       -       25,943       -       25,943       -       25,943       -       25,943       -       25,943       -       25,943       -       25,943       -       26,653       -       12,865       -       12,865       -       12,865       -       12,865       -       12,865       -       12,865       -       12,865       - <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td>_</td> <td>905,571</td>						-		_	905,571
78       3,907,172,633,017       125,190,291       125,190,291       -       321,536       -       321,79       4,236,013,282,412       75,934,544       75,934,544       -       180,582       -       180,80       4,591,622,295,343       44,348,294       44,348,294       -       97,654       -       97,81       4,976,133,026,298       25,040,811       25,040,811       -       51,055       -       51,82       5,391,855,356,538       13,742,256       13,742,256       -       25,943       -       25,943       -       25,841,286,657,784       7,359,577       7,359,577       -       12,865 <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td>_</td> <td>550,255</td>						-		_	550,255
79       4,236,013,282,412       75,934,544       75,934,544       -       180,582       -       180,882       -       180,882       -       180,882       -       180,882       -       180,882       -       97,814       4,976,133,026,298       25,040,811       25,040,811       -       51,0555       -       51,881       -       51,943       -       25,943       -       25,831       -       25,943       -       25,833       -       -       12,865       -						-		_	321,536
80						-		_	180,582
81       4,976,133,026,298       25,040,811       25,040,811       -       51,055       -       51,82         82       5,391,855,356,538       13,742,256       13,742,256       -       25,943       -       25,83         83       5,841,288,657,784       7,359,577       7,359,577       -       12,865       -       12,865         84       6,327,135,735,056       3,863,238       3,863,238       -       6,253       -       6,852,318,002,835       1,997,658       1,997,658       -       2,994       -       2,994       -       2,984       -       1,417       -       1,418       -       -       -       -       -       -       -       -       -       -       -       -       -       -						-		_	97,654
82       5,391,855,356,538       13,742,256       13,742,256       -       25,943       -       25,83         83       5,841,288,657,784       7,359,577       7,359,577       -       12,865       -       12,865         84       6,327,135,735,056       3,863,238       3,863,238       -       6,253       -       6,653         85       6,852,318,002,835       1,997,658       1,997,658       -       2,994       -       2,294         86       7,419,992,176,400       1,021,104       1,021,104       -       1,417       -       1,414       - <td></td> <td></td> <td></td> <td></td> <td></td> <td>-</td> <td></td> <td>_</td> <td>51,055</td>						-		_	51,055
83       5,841,288,657,784       7,359,577       7,359,577       -       12,865       -       12,865         84       6,327,135,735,056       3,863,238       3,863,238       -       6,253       -       6,6         85       6,852,318,002,835       1,997,658       1,997,658       -       2,994       -       2,2         86       7,419,992,176,400       1,021,104       1,021,104       -       1,417       -       1,4         87       8,033,568,568,947       517,003       517,003       -       664       -         88       8,696,731,048,767       260,391       260,391       -       310       -         89       9,413,458,731,941       130,715       130,715       -       144       -         90       10,188,049,501,278       65,522       65,522       -       67       -         91       11,025,145,455,080       32,764       32,764       -       31       -         92       11,929,760,420,773       16,314       16,314       -       14       -         93       12,907,309,684,901       8,045       8,045       -       7       -         94       13,963,642,109,936       3,890						_		_	25,943
84       6,327,135,735,056       3,863,238       3,863,238       -       6,253       -       6,852,318,002,835       1,997,658       1,997,658       -       2,994       -       2,984       -       3,885       -       2,984       -       3,885       -       3,10       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -						_		_	12,865
85       6,852,318,002,835       1,997,658       1,997,658       -       2,994       -       2,984         86       7,419,992,176,400       1,021,104       1,021,104       -       1,417       -       1,417         87       8,033,568,568,947       517,003       517,003       -       6664       -         88       8,696,731,048,767       260,391       260,391       -       310       -         89       9,413,458,731,941       130,715       130,715       -       144       -         90       10,188,049,501,278       65,522       65,522       -       67       -         91       11,025,145,455,080       32,764       32,764       -       31       -         92       11,929,760,420,773       16,314       16,314       -       14       -         93       12,907,309,684,901       8,045       8,045       -       7       -         94       13,963,642,109,936       3,890       3,890       -       3       -         95       15,105,074,824,758       1,818       1,818       -       1       -         96       16,338,430,692,670       803       803       -       1 <t< td=""><td></td><td></td><td></td><td></td><td></td><td>_</td><td></td><td>_</td><td>6,253</td></t<>						_		_	6,253
86       7,419,992,176,400       1,021,104       1,021,104       -       1,417       -       1,87         87       8,033,568,568,947       517,003       517,003       -       664       -         88       8,696,731,048,767       260,391       260,391       -       310       -         89       9,413,458,731,941       130,715       130,715       -       144       -         90       10,188,049,501,278       65,522       65,522       -       67       -         91       11,025,145,455,080       32,764       32,764       -       31       -         92       11,929,760,420,773       16,314       16,314       -       14       -         93       12,907,309,684,901       8,045       8,045       -       7       -         94       13,963,642,109,936       3,890       3,890       -       3       -         95       15,105,074,824,758       1,818       1,818       -       1       -         96       16,338,430,692,670       803       803       -       1       -         97       17,671,078,778,165       329       329       -       0       -						-		_	2,994
87       8,033,568,568,947       517,003       517,003       -       664       -         88       8,696,731,048,767       260,391       260,391       -       310       -         89       9,413,458,731,941       130,715       130,715       -       144       -         90       10,188,049,501,278       65,522       65,522       -       67       -         91       11,025,145,455,080       32,764       32,764       -       31       -         92       11,929,760,420,773       16,314       16,314       -       14       -         93       12,907,309,684,901       8,045       8,045       -       7       -         94       13,963,642,109,936       3,890       3,890       -       3       -         95       15,105,074,824,758       1,818       1,818       -       1       -         96       16,338,430,692,670       803       803       -       1       -         97       17,671,078,778,165       329       329       -       0       -         98       19,110,978,051,767       131       131       -       0       -         99       20,666,724,591,75						-		_	1,417
88       8,696,731,048,767       260,391       260,391       -       310       -         89       9,413,458,731,941       130,715       130,715       -       144       -         90       10,188,049,501,278       65,522       65,522       -       67       -         91       11,025,145,455,080       32,764       32,764       -       31       -         92       11,929,760,420,773       16,314       16,314       -       14       -         93       12,907,309,684,901       8,045       8,045       -       7       -         94       13,963,642,109,936       3,890       3,890       -       3       -         95       15,105,074,824,758       1,818       1,818       -       1       -         96       16,338,430,692,670       803       803       -       1       -         97       17,671,078,778,165       329       329       -       0       -         98       19,110,978,051,767       131       131       -       0       -         99       20,666,724,591,754       54       54       54       -       0       -						-		_	664
89       9,413,458,731,941       130,715       130,715       -       144       -         90       10,188,049,501,278       65,522       65,522       -       67       -         91       11,025,145,455,080       32,764       32,764       -       31       -         92       11,929,760,420,773       16,314       16,314       -       14       -         93       12,907,309,684,901       8,045       8,045       -       7       -         94       13,963,642,109,936       3,890       3,890       -       3       -         95       15,105,074,824,758       1,818       1,818       -       1       -         96       16,338,430,692,670       803       803       -       1       -         97       17,671,078,778,165       329       329       -       0       -         98       19,110,978,051,767       131       131       -       0       -         99       20,666,724,591,754       54       54       54       -       0       -						-		_	310
90 10,188,049,501,278 65,522 65,522 - 67 - 91 11,025,145,455,080 32,764 32,764 - 31 - 92 11,929,760,420,773 16,314 16,314 - 14 - 93 12,907,309,684,901 8,045 8,045 - 7 - 94 13,963,642,109,936 3,890 3,890 - 3 - 95 15,105,074,824,758 1,818 1,818 - 1 - 96 16,338,430,692,670 803 803 - 1 - 1 - 97 17,671,078,778,165 329 329 - 0 - 0 - 98 19,110,978,051,767 131 131 - 0 - 99 20,666,724,591,754 54 54 54 - 0 - 0						-		_	144
91       11,025,145,455,080       32,764       32,764       -       31       -         92       11,929,760,420,773       16,314       16,314       -       14       -         93       12,907,309,684,901       8,045       8,045       -       7       -         94       13,963,642,109,936       3,890       3,890       -       3       -         95       15,105,074,824,758       1,818       1,818       -       1       -         96       16,338,430,692,670       803       803       -       1       -         97       17,671,078,778,165       329       329       -       0       -         98       19,110,978,051,767       131       131       -       0       -         99       20,666,724,591,754       54       54       -       0       -						-		_	67
92       11,929,760,420,773       16,314       16,314       -       14       -         93       12,907,309,684,901       8,045       8,045       -       7       -         94       13,963,642,109,936       3,890       3,890       -       3       -         95       15,105,074,824,758       1,818       1,818       -       1       -         96       16,338,430,692,670       803       803       -       1       -         97       17,671,078,778,165       329       329       -       0       -         98       19,110,978,051,767       131       131       -       0       -         99       20,666,724,591,754       54       54       -       0       -						-		_	31
93       12,907,309,684,901       8,045       8,045       -       7       -         94       13,963,642,109,936       3,890       3,890       -       3       -         95       15,105,074,824,758       1,818       1,818       -       1       -         96       16,338,430,692,670       803       803       -       1       -         97       17,671,078,778,165       329       329       -       0       -         98       19,110,978,051,767       131       131       -       0       -         99       20,666,724,591,754       54       54       -       0       -						-		_	14
94       13,963,642,109,936       3,890       3,890       -       3       -         95       15,105,074,824,758       1,818       1,818       -       1       -         96       16,338,430,692,670       803       803       -       1       -         97       17,671,078,778,165       329       329       -       0       -         98       19,110,978,051,767       131       131       -       0       -         99       20,666,724,591,754       54       54       -       0       -						_		_	7
95     15,105,074,824,758     1,818     1,818     -     1     -       96     16,338,430,692,670     803     803     -     1     -       97     17,671,078,778,165     329     329     -     0     -       98     19,110,978,051,767     131     131     -     0     -       99     20,666,724,591,754     54     54     -     0     -						_		_	3
96     16,338,430,692,670     803     803     -     1     -       97     17,671,078,778,165     329     329     -     0     -       98     19,110,978,051,767     131     131     -     0     -       99     20,666,724,591,754     54     54     -     0     -						_		_	1
97     17,671,078,778,165     329     329     -     0     -       98     19,110,978,051,767     131     131     -     0     -       99     20,666,724,591,754     54     54     -     0     -						_		-	1
98       19,110,978,051,767       131       131       -       0       -         99       20,666,724,591,754       54       54       -       0       -						_		-	0
99 20,666,724,591,754 54 54 - 0 -						_		-	0
						_		-	0
··· ,·· ,·· ,··						-		-	0
<b>Totals</b> \$ 216,125,263,587 \$ - \$ 216,125,263,	_50	_, ,_ ,_ ,_ ,_ ,_ ,_ ,_ ,_ ,_ ,_ ,_ ,_ ,_	23	23		Totals		\$ -	\$ 216,125,263,587

