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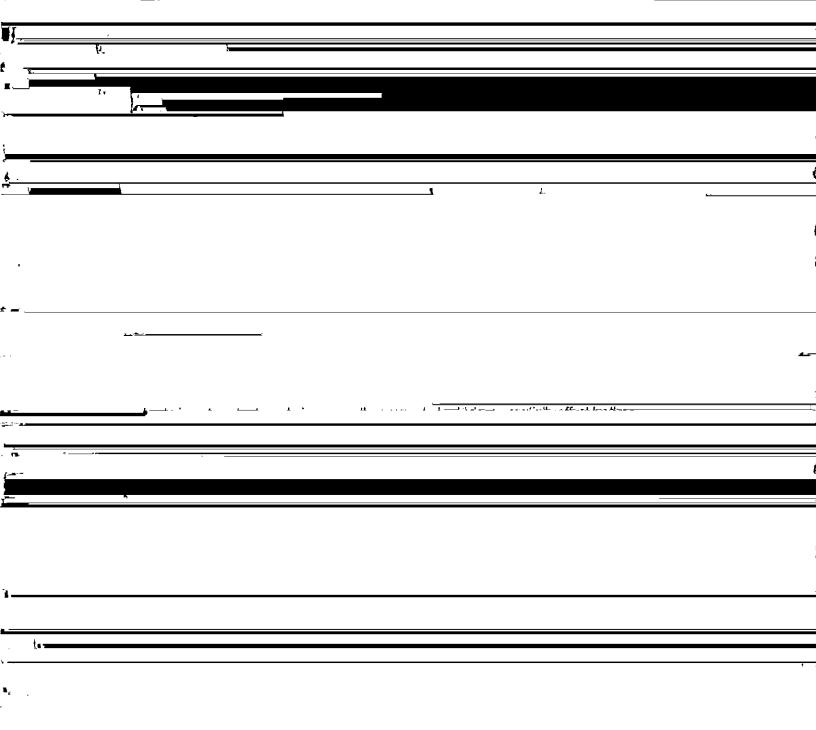
Report on the Actuarial Valuation of the University of Winnipeg Trusteed Pension Plan as at **December 31, 2018** SIMMARY OF RESIDETS

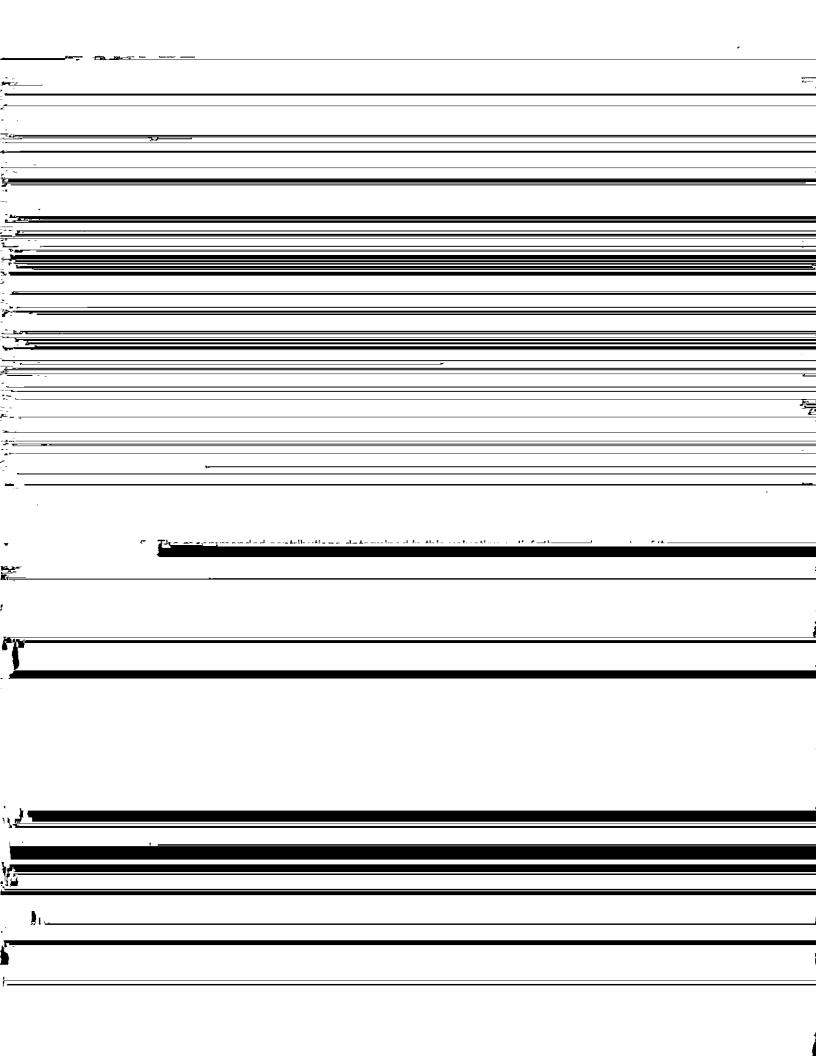


23	Section 1.EXECUTIVE SUMMARY	
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<b></b> .	We are pleased to present this report which was prepared at the request of The Board of Trustees of the University of Winnipeg Trusteed Pension Plan Trust ("Trustees") for the following	
	purposes:	
	To remort an the financial maritims of the defined bounds and of the Hubbane the of Minister of	-
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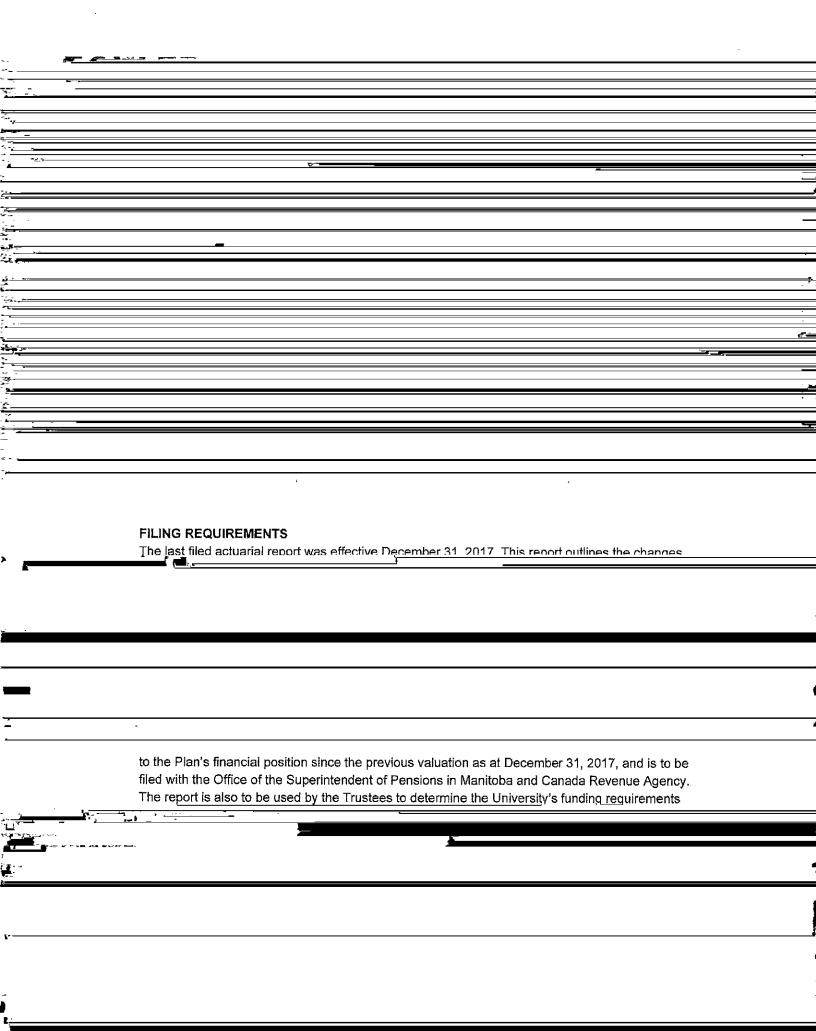
Effective Date	Amortization Period	Annual Special Payment
December 31, 2010	Jan 2011 – Dec 2025	\$751,000
December 31, 2011	Jan 2012 - Dec 2026	\$622,000
December 31, 2015	Jan 2016 - Dec 2030	\$856,000
December 31, 2017	Jan 2018 - Dec 2032	\$91,000
December 31, 2018	Jan 2019 – Dec 2033	\$577,000
Total		\$2,897,000

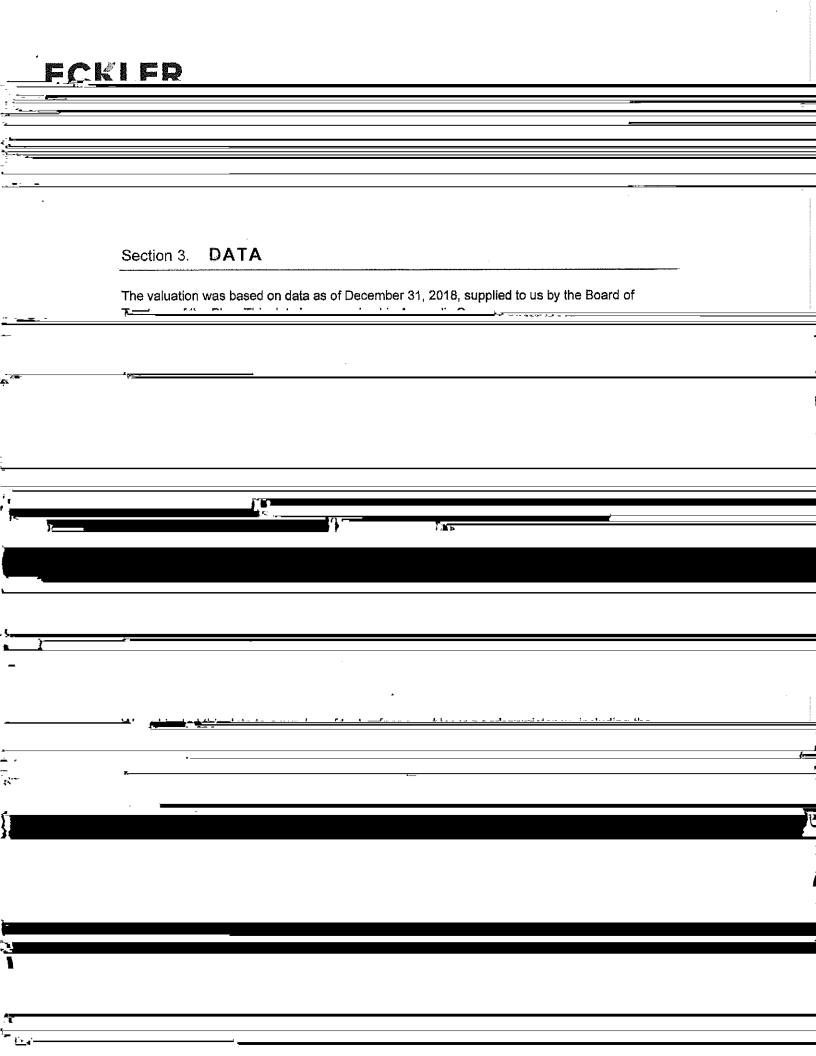
2. The deterioration in the financial position from an unfunded liability of \$18,670,000 at





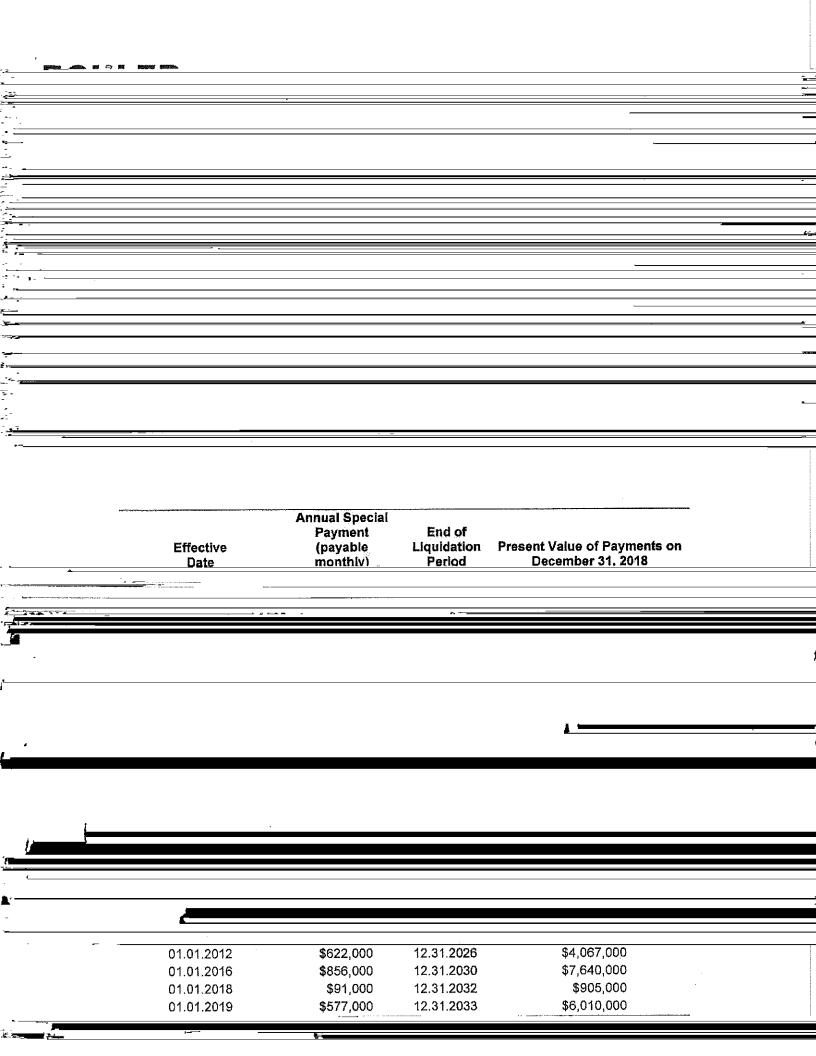
	Section 2.	INTRODUCTION				
	The defined ben- valuation; howev	efit provisions of the Plan been, the amendments had r	nave been amended sind no material impact on the	ce the date of the previous e results of our valuation.	S	
	Our report is bas	sed on the provisions of the	e 2008 consolidated Plar	n text and all subsequent		
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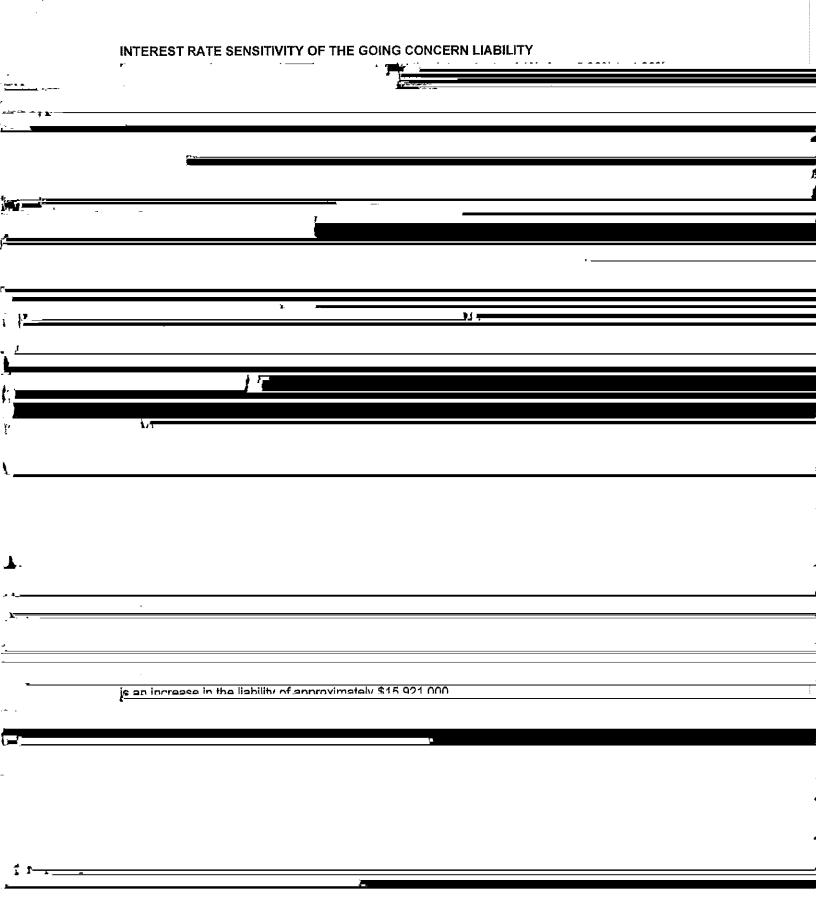




	Section 5 GOING CONCERN VALUATION	
	VALUATION BALANCE SHEET  The following is the going concern valuation balance sheet as at December 31, 2018 based on:	
•	the Plan nrovisions (summarized in Δορορδίν Δ)·	
	<ul> <li>the going concern valuation assumptions (described in Appendix B);</li> <li>the membership data (summarized in Appendix C); and</li> <li>the actuarial value of assets (summarized in Appendix D).</li> </ul>	
m	Gaina Concern Valuation 42 24 2040 42 24 2042	
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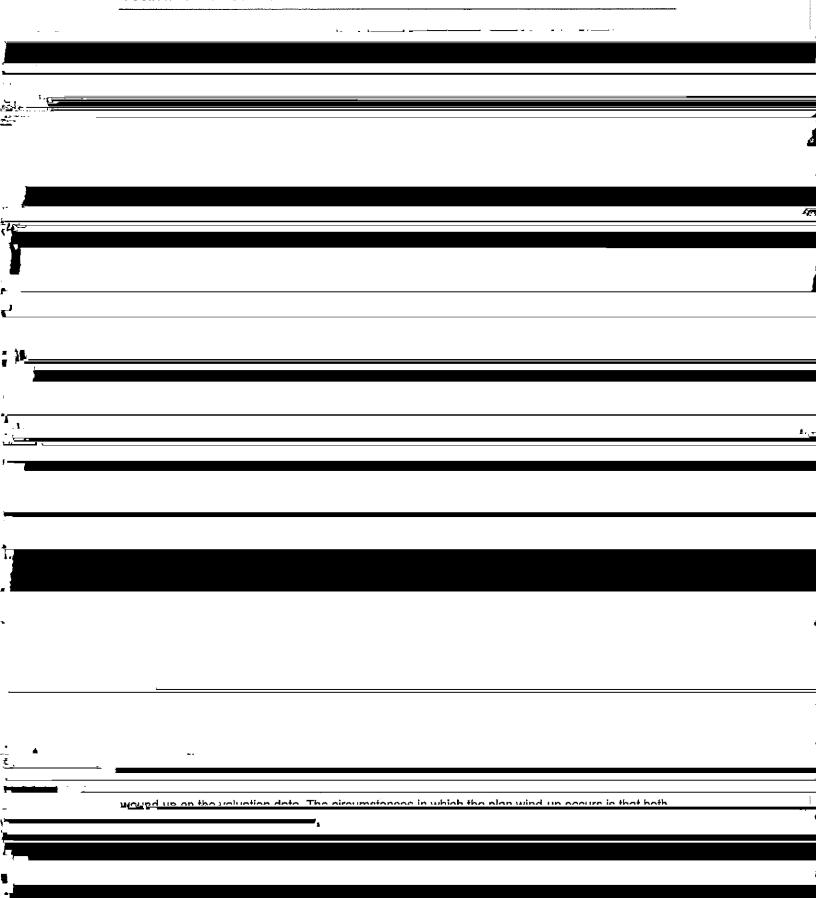


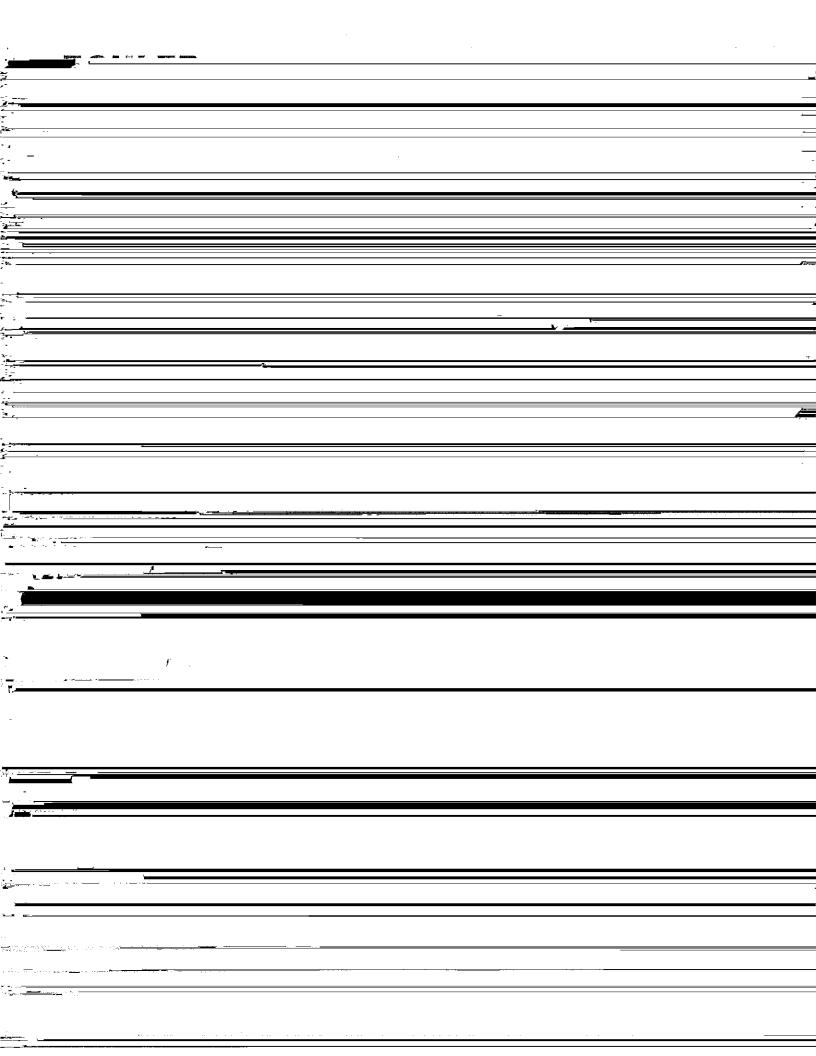
	Going concern surplus / (unfunded liability) at December 31, 2017	(\$18,670,000)	
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	unfunded liability		
	Interest on surplus / (unfunded liability) during inter-valuation	(\$934,000)	
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	Expected surplus / (unfunded liability) at December 31, 2018	(\$17,224,000)	
	Thus potential gains//leases) due to sure discussion for		
	Plus actuarial gains/(losses) due to experience differing from assumed during the intervaluation period:		
	<del></del>		



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Section 6. WIND-UP VALUATION

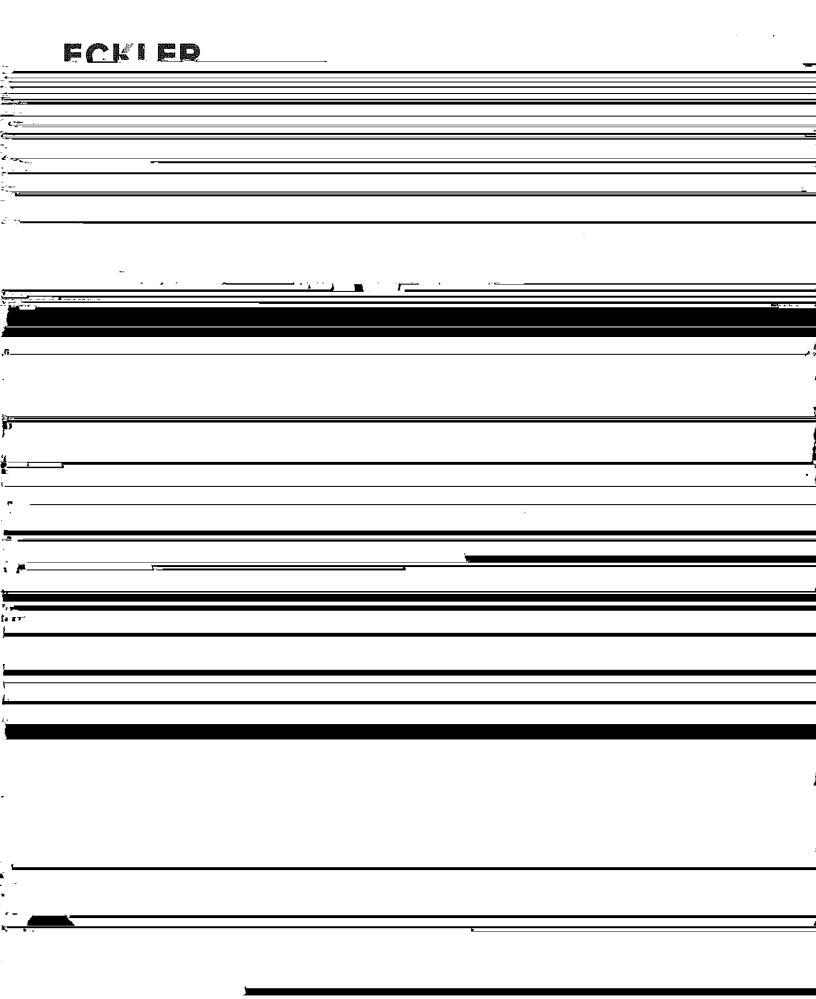


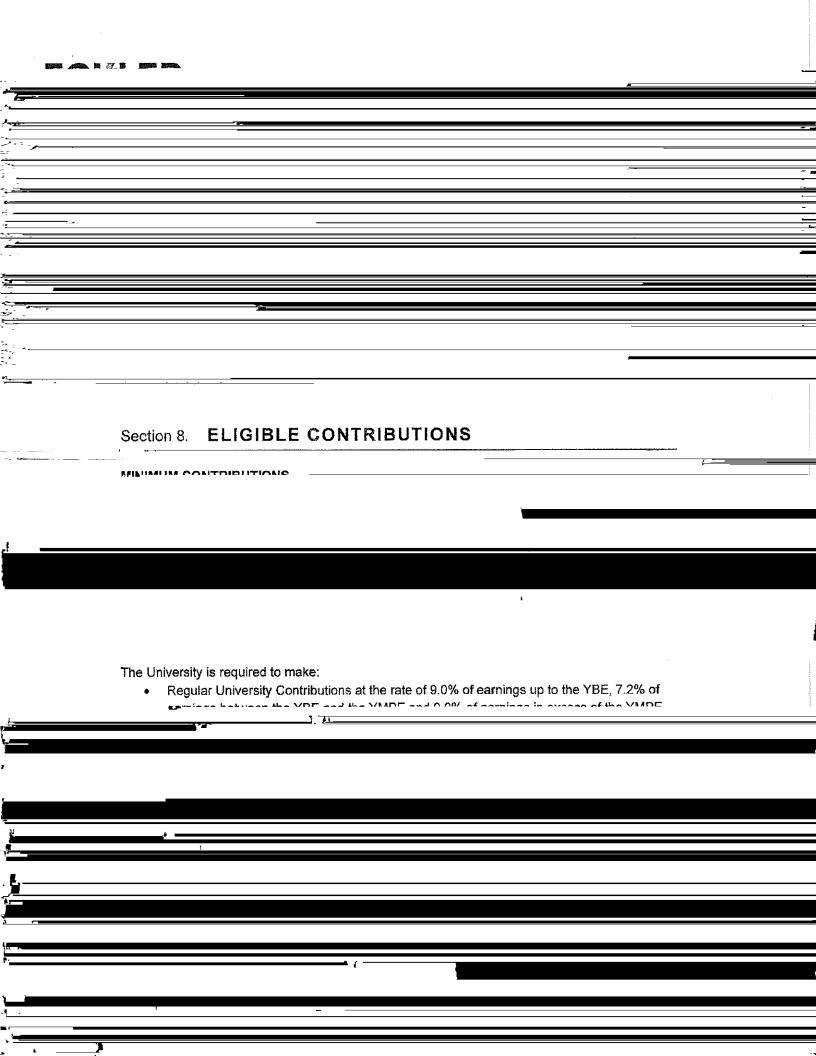


#### Section 7. SOLVENCY VALUATION

The table below shows the solvency position of the Plan as at December 31, 2018. The circumstances in which the plan wind-up occurs is that both the University of Winnipeg ceases operations and the Plan wind-up giving rise to termination benefits to members not eligible for retirement on the wind-up date and retirement benefits to all other members. There are no benefits on plan wind-up that were excluded from our valuation. The liability for all active members with 20 years or more of service on the valuation date includes the value of the early retirement subsidy as provided for in the Plan.

	benefits on plan wind-up that were excluded from our valuation. The liability for all active	
	members with 20 years or more of service on the valuation date includes the value of the early retirement subsidy as provided for in the Plan.	
	The policulations are based as the Blas provisions in effect on the valuation date, the solveney	
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Under the Pension Benefits Act of Manitoba, all contributions due to the Plan must be remitted monthly. Member and University contributions are due within 30 days following the end of the month to which they apply.



	Section 9. ACTUARIAL OPINION
	With respect to the University of Winnipeg Trusteed Pension Plan forming part of the actuarial
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	a. The purpose of this report is to provide actuarial estimates of the funding payments required to be made by the University of Winnipeg for the period from December 31, 2018 to the date of the next valuation. The effective date of the next valuation must be no later than December 31, 2019 in order to comply with applicable legislation.
	<ul> <li>Based on the projected unit credit actuarial funding method, the plan has an unfunded liability of \$23,024,000.</li> </ul>
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	Notwithstanding the foregoing opinion, emerging experience differing from the assumptions will
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	a. the membership data on which the valuation is based are sufficient and reliable, for the
	purposes of the valuation,
	purposes of the valuation,

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· ·	A member who continues in employment after his normal retirement date continues to make contributions to the Plan and his pension does not commence until his actual retirement date or the end of the year in which the member attains age 71, if earlier. Upon retirement the members receive the greater of the pension accrued to the date of retirement and the actuarial equivalent pension based on the amount that would have been payable had the member retired on his or	
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	PENSION At retirement, the member is entitled to an annual pension equal to 2% of his final average	
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	DEATH BENEFITS PRIOR TO RETIR	REMENT	
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#### Appendix B. ACTUARIAL ASSUMPTIONS

	Going Concern Valuation  There—assumptions are the same as these used at the provision valuation, expent where noted
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	Valuation interest rate:
	In order to determine the expected investment return on the investments of the Plan, our model determined expected long term capital market returns, standard deviations and correlations for each major asset class noted in Appendix E (Bonds, Canadian equities, US equities, etc.) by
<b>.</b>	And the state of t

budget provided by the Trustees. An implicit allowance for investment management expenses of 0.45% is reflected in the valuation interest rate.

Salary	Increases:
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	Salaries are assumed to increase from the valuation date as follows:		
	i.	General increases of 3.0% per year. This rate is based on the mid-point of the Bank of	
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	2017.
<u> </u>	Termination: Considering the age and length of employment of current members (the DB part of the Plan was closed to new entrants, lanuary 1_2001) and the very low number of terminations occurring, we
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		3.2% per year for 10 years and 3.4% per year thereafter for lump sum transfer.
	Future increases in Pensionable Earnings:	None
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#### Appendix C. MEMBERSHIP DATA

This section provides a summary of membership data used in the valuation. The data was provided by the Board of Trustees. We have reconciled the data with that used in the previous valuation and are satisfied that the data are sufficient and reliable for the purposes of the valuation.

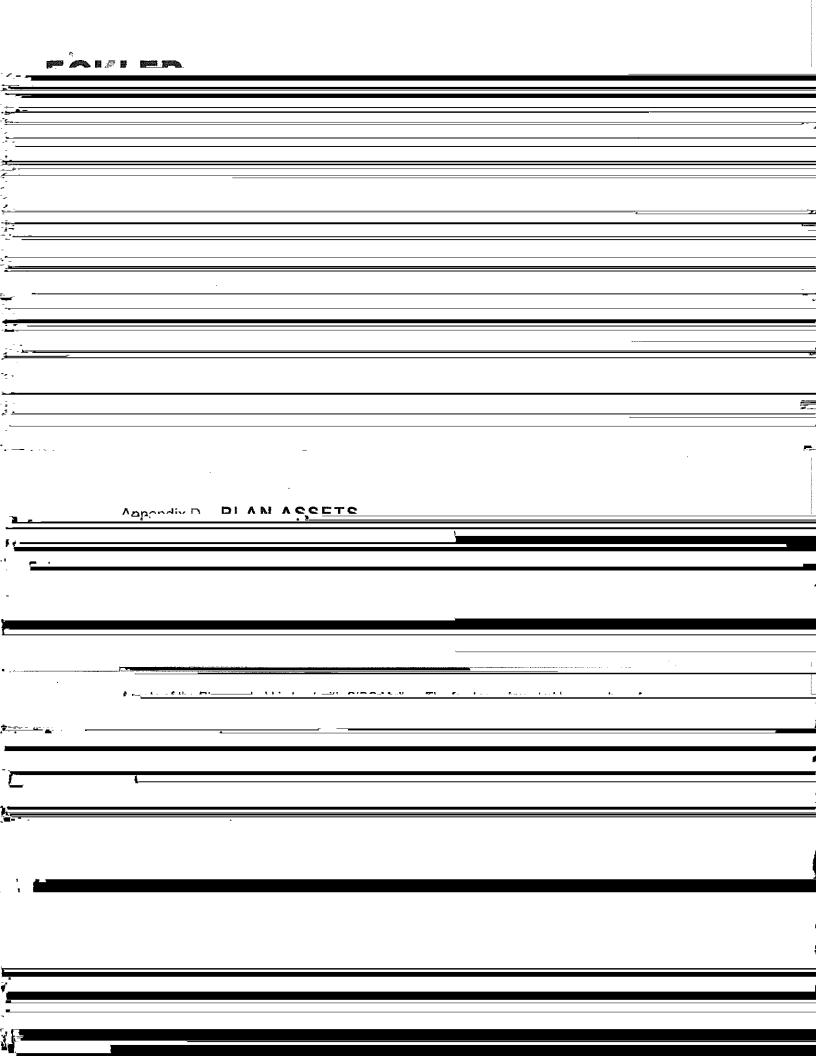
Active Members	12.31.2018	12.31.2017
 Add to months of the second of	Talla Tana II.	infoliment.
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 Number of Members	101	118
Average Pensionable Earnings	\$93,374	\$92,772
Average Credited Service	24.9	25.0
Average Age	59.2	59.1
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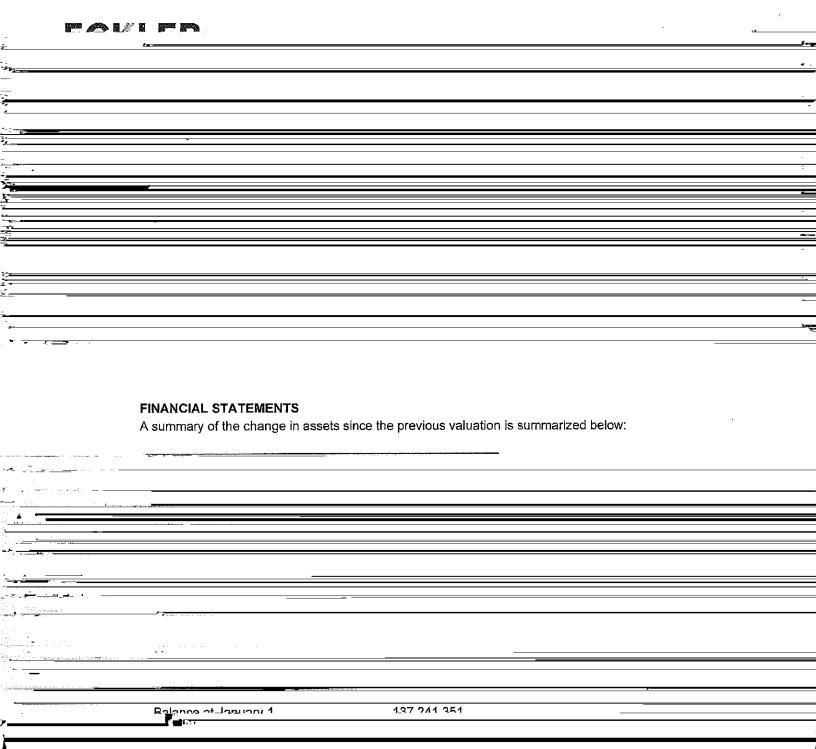
Distribution of Active Membership

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	Male Retired Members	
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The following table summarizes the changes in membership since the previous valuation. Active





Member Contributions	582,432
University Contributions	3,666,955
Investment Income	3,411,815
Realized Gains and Losses	1,182,347
Change in Market Values	(7,973,753)
Pensions Paid	(9,253,668)
Lump Sum Payments	(1,747,653)
Jnugetment Management Evnences	(562 322)
With a beilt brought must be August 6	7.41) (72

Asset	Miv	Ronch	mark
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Going Concern Funding Ratio	≮85%	85% - 90%	90% - 95%	95% - 100%	100% - 105%	>105%
Canadian equities	20.0%	17.5%	15.0%	12.5%	12.5%	10.0%

Emerging market equities	10.0%	7.5%	5.0%	5.0%	5.0%	5.0%	
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Total Growth Portfolio	75.0%	65.0%	55.0%	50.0%	45.0%	40.0%
Universe/Long bonds	20.0%	30.0%	40.0%	45.0%	50.0%	55.0%
High yield bonds	<u>5.0%</u>	5.0%	<u>5.0%</u>	5.0%	<u>5.0%</u>	5.0%
Total Liability Matching	25.0%	35.0%	45.0%	50.0%	55.0%	60.0%

	Appendix E. CERTIFICATION								
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