REPORT ON THE ACTUARIAL VALUATION OF THE DEFINED BENEFIT PART OF THE UNIVERSITY OF WINNIPEG TRUSTEED PENSION PLAN AS AT DECEMBER 31, 2015

Canada Revenue Agency Registration Number 0309914

Manitoba Registration Number 0309914

August 31, 2016

Prepared by:



CONSULTANTS + ACTUARIES

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Report on the Actuarial Valuation of the University of Winnipeg Trusteed Pension Plan as at December 31, 2015

SUMMARY OF RESULTS ---

	12.31.2015	12.31.2014
Going Concern Financial Position		
CONTROL ASSERT	φ 120,560,000	*************************************
Going concern liabilities	\$149,838,000	\$143,601,000
Guino concern sproftist (unfunded liahiliiv):		(%15 <u>100 / 100 / 1</u>
Going-concern ratio	0.845	0.895
Windun Financial Position		
Market value of assets net of provision for wind-up expenses	p \$126,386,000	\$128,306,000
Windun liahility	\$188 207 000	\$484 በ ለ ዩ ሰበሴ
Windup excess/ (deficiency)	(\$61,911,000)	(\$55,742,000)
Solvency Financial Position	· · · · · · · · · · · · · · · · · · ·	
Solvency assets	\$138,836,000	\$136,852,000
THE STATE SECTION OF THE PARTY	\$100,207,000	······································
Solvency excess/ (deficiency)	(\$49,461,000)	(\$47,106,000)
Solvency ratio	0.671	0.697
Minimum Contributions in Vaer Following valuation		
Estimated University current service cost	\$1,288,000	\$1,253,000
Minimum special payments	\$2,672,000	\$1,816,000
· · · · · · · · · · · · · · · · · · ·		

Section 1_ EXECUTIVE SUMMARY

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Winnipeg Trusteed Pension Plan (the "Plan") as at December 31, 2015. The valuation was

position of the Plan as at December 31, 2015 and to satisfy the requirements of the Pension-Benefits Act of Manitoba and the Income Tax Act.

in voing one processed miligreather reference in mother amont hane in fair discussion in here in the contract of

liability equal to \$23,252,000 at December 31, 2015. This must be funded by special payments at least equal to the amounts about in the following as had the amount of the december 31, 2015. This must be funded by special payments at least equal to the amounts about in the following as had the amount of the control of th

Effortivo Doto	Secretary Daily	Annual Constal Paris
December 31, 2010	Jan 2011 – Dec 2025	\$1,194,000
December 31, 2011	Jan 2012 – Dec 2026	\$622,000
December 31, 2015	Jan 2016 – Dec 2030	\$856,000
Total		\$2,672,000

- 2. The decrease in the financial position from an unfunded liability of \$15,100,000 at December 31, 2014 to an unfunded liability of \$23,252,000 at December 31, 2015 is mainly due to investment returns worse than expected and a decrease in the valuation interest rate, offset to some extent by the University special payments made in 2015 and other plan experience.

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The Plan is subject to the funding requirements of the Pension Benefits Act of Manitoba. As

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alaction the University is exempt from matrices and

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Regulation special payments would be necessary to fund the solvency deficiency as follows

minimization serion uning some distribution of

Donombor 21, 2015 Jan 2016 Don 2000 640 040 000

These payments would be in addition to the going-concern special payments described above.

4. If the Plan was wound-up on the valuation date, the liabilities would exceed the value of assets by \$61,041,000.



......5. The recommended contributions determined in this voluntion actinfy the requirements of the Pension Renefits Act of Manitoha and the Income Tax Act. The recommended University

The state of the s		-
	Estimated	pensionable payroll
	Dollar Amount	limited to the YMCE*
Regular University contributions	\$878,000	8.3%
Additional University contributions for current service shortfall and administration expenses	\$410;000	3.9%
Going concern special payments	\$2,672,000	
Total	\$3,960,000	

^{*}YMCE: Years Maximum Contributory Earnings for members

6. Since the solvency ratio of the plan is less than 0.00, the Pension Renefits Act of Manitoha

7. In accordance with the Plan provisions, pensions have been increased effective, July 1, 2016.

increase of 0.75%. This resulted in a loss on the going concern valuation basis of \$710,000.

This report should be filed with the Office of the Superintendent of Pensions in Manitoba, to meet the filing requirements of the Pension Benefits Act of Manitoba and with Canada Revenue

ha narformad no later than Danamhar 31, 2018

This report has been prepared and our opinions given in accordance with accepted actuarial practice.

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Respectfully submitted,

FCKLERITD

Andrew Kulyk

Fellow of the Canadian Institute of Actuaries

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		- 建全一定全电流之子	

The defined benefit provisions of the Plan bave not been amended since the date of the previous valuation.

y Otts const.lis based on the gravisione of the 3003 sears of dated Rice Acct and all anharmont amendments made to the Plan.

SUBSEQUENT EVENTS

We are not aware of any events that occurred between the valuation date and the date this report

ny volume communication of the design of the

assuming the Plan is continued indefinitely, and to estimate the contributions currently required to be made to the Plan's fund, both to fund the cost of any benefits being earned by members for current service and, in the event there is a funding deficiency, to liquidate the amount of the funding deficiency.

a "Wind-un valuation" which is intended to reflect the status of the Plan as if it had been would up on the valuation date and the Plan members had been provided with the manufactured to provide a with the manufactured to prov

bis valdanliggis od solog gdis pergen proboeno securor oromielo bir autir inis Hiso

members' accrued benefit by the current assets of the pension fund. The wind-up valuation is not used to determine the required contributions to the Plan.

A "solvency valuation" which is required by the Regulations under the Pension Renefits

Act of Manitoba. This valuation is similar to a wind-up valuation, except that certain

adjustments may be made to the coasts. The column walk of the coasts.

performed but does not affect the required contributions to the Plan because of the

Sulvericy Exemplific Fublic Sector Pension Plans Regulation.

The difference between the wind-up and solvency valuations for this Plan relates to the value of assets that are included in the valuation. In the wind-up valuation, the only assets taken into account are the invested assets of the Plan which are taken at their market value adjusted for

for wind-un expenses. In the solvenous valuation, the assets are equal to the wind un assets also



FILING REQUIREMENTS

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Linner inner advailat valuation of the Plants returned to the destination talenthan December 31

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Trustees of the Plan. This data is summarized in Appendix C.

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- a.member's (and partner's as applicable) age is within a reasonable range;
- to noiteulev leizeutse aunivara adt ni haau etch adt mart hannedsnu haniemar zatch ile tne Han;
 - accrued service changed by a reasonable amount;
 - a member's gender did not change;

- the form of pension payment did not change (other than resulting from the death of a
- we examined the deletions from each of the data files (i.e. the files for active members nanelanem and terminated members cutilled to a deferred vested pencien) along the

Accate of the Plan are held in truct with RRC Invector Services. The funds are invected in a representation near the research pooled funds. Ma hour relied on the cudited fine policiest tempers for the fund are LP-e-is aministricus someinsteois afretienail o ienia Gaera izo celinico acceptivi de manuri.......

December 31, 2015.



Section 4. GOING CONCERN VALUATION

VALUATION BALANCE SHEET

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- tinoi in mengio in singgi pala in in antica antica
 - the membership data (summarized in Appendix C); and
 - the actuarial value of assets (summarized in Appendix D).

Going Concern Valuation	12.31.2015	12.31.2014	
Going Concern Assets			

- Patitute (Linteauri) Linduidie

William Francisco		
Active members – support	\$18 77 8 በበበ	\$17 571 <u>000</u>
Pensioners and survivors		\$20 520 nnn
Januar autoeisian i sidakilain i sidakilain i		
Outstanding surplus distribution	\$207;008	\$206,000
Outstanding benefit-payments	\$0	\$1,003,000
Total going concern liabilities	\$149,838,000	\$143,601,000

luk unungan adalah kalimilik kalimak rasionak beralam dalam dalam kalim kalim kalim dalam 1980-1980. Par., following table:

		Annual Special		
والمراجعة والمراجعة		Payment	Fnd of	
	Effective	was /anuchigano	mediation	Pressit Value of Paymento on
·- <u></u>	Date	monthly)	Period	December 31, 2015
	01.01.2011	\$1,194,000	12.31.2025	\$9,245,000
	01.04.2012	\$622,000	42.34.2026 ···	
	Total	\$1.816.000	W-12 1	\$14 416 000

The untunded actuarial liability for accrued service as at December 31, 2015 of \$23,252,000 exceeds the present value of previously established special payments of \$14,416,000. The new



	Annual Special				
	Effective Date	Payment (payable monthly)	End of Liquidation <u>Period</u>	Present Value of I	
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			74.334.080.0000.1		
	PROVISION FOR ADVERS				
	The going concern valuatio	_			•
	0.50% per year. This amou	nts to a provision fo	or adverse deviation	on in the going conce	rn accrued
	Johilitaa at anntaumatali i		es a sa se	energy and energy of the energy	····
	compared to a best estimat	· ·			
	 \$685,000 for special 	- ·	rtize the unfunded	l liability, and	
	 \$126,000 for currer 	nt service.			
EXPERIENCE GA	un TXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX				
	renere comi primitiri dinassi i	an agranda 1807 est	संस्कृतिक स्थापन स्	Sellik wii kaalii ee	
	in an an activities and control to control to the first confidence of the	one and a mentioned compared to the first of the compared and the first of the firs		ひんご はかせ せぜかかいか むりょうじょう かいかいり	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~
	previous valuation of the Pla	an as at December	31 2014 showed	the Plan had an unfi	unded
nor of the control weather states of the	previous valuation of the Planting of \$15,100,000The				
	liability of \$15,100,000_The				
	liability of \$15,100,000_The	annrovimato darii annrovimato darii			
	liability of \$15,100,000_The	annrovimato darii annrovimato darii			
	liability of \$15,100,000. The	annrovimato dori	ration of the spine		
	liability of \$15,100,000 _The	ded liability) and spi	ration of the spine		obility.ot
	Interest on surplus / (unfund during inter-valuation period	ded liability) and spirit	ration of the spine		obility.ot
	liability of \$15,100,000 _The	ded liability) and spirit	ration of the spine		
	Interest on surplus / (unfund during inter-valuation period	ded liability) and spirit	ration of the spine		
	Interest on surplus / (unfunctioning inter-valuation period	ded liability) and spot at 5.9% per year	ecial payments		obility.ot
	Interest on surplus / (unfund during inter-valuation period examples actuarial gains/(losses assumed during the inter-valuation the inter-valuation)	ded liability) and sport of the second secon	ecial payments	econorn unfunded li	obility.ot
	Interest on surplus / (unfunction inter-valuation period assumed during the inter-value on retirement of \$15.100.000 - The surplus / (unfunction period during inter-valuation period during the inter-value of \$15.100.000 - The surplus / (unfunction inter-value) Cain/(loss) on retirement of \$15.100.000 - The surplus / (unfunction inter-value) Cain/(loss) on retirement of \$15.100.000 - The surplus / (unfunction inter-value) Cain/(loss) on retirement of \$15.100.000 - The surplus / (unfunction inter-value) Cain/(loss) on retirement of \$15.100.000 - The surplus / (unfunction inter-value) Cain/(loss) on retirement of \$15.100.000 - The surplus / (unfunction inter-value) Cain/(loss) Cain/	ded liability) and sport of the second secon	ecial payments	\$194,000	obility.ot
	Interest on surplus / (unfund during inter-valuation period assumed during the inter-valuation on retirement Gain/(loss) on mortality	ded liability) and sport of the second secon	ecial payments	econorn unfunded li	obility.ot
	Interest on surplus / (unfunction inter-valuation period assumed during the inter-valuation gains/(losses assumed during the inter-valuation inter-valuation period assumed during the inter-valuation gain/(loss) on retirement Gain/(loss) on mortality Gain/(loss) on salaries assumed assumed gain/(loss) on salaries gain	ded liability) and sport of the	ecial payments e differing from	\$194,000 \$240,000 \$233,000	
	Interest on surplus / (unfund during inter-valuation period assumed during the inter-valuation on retirement Gain/(loss) on retirement Gain/(loss) on salaries a Gain/(loss) attributable	ded liability) and sport of the	ecial payments e differing from	\$194,000 \$240,000 \$233,000 (\$3,082,000)	obility.ot
	Interest on surplus / (unfund during inter-valuation period assumed during the inter-valuation gains/(losse assumed during the inter-valuation gain/(loss) on retiremer Gain/(loss) on mortality Gain/(loss) attributable Gain/(loss) attributable	ded liability) and sport of the tribution period: and the YMPE to net investment et pension increase	ecial payments e differing from	\$194,000 \$240,000 \$233,000 (\$3,082,000) (\$710,000)	obility.ot
	Interest on surplus / (unfund during inter-valuation period assumed during the inter-valuation on retirement Gain/(loss) on retirement Gain/(loss) on salaries a Gain/(loss) attributable	ded liability) and sport of the tribution period: and the YMPE to net investment et pension increase	ecial payments e differing from	\$194,000 \$240,000 \$233,000 (\$3,082,000)	obility.ot
	Interest on surplus / (unfund during inter-valuation period assumed during the inter-valuation gains/(losse assumed during the inter-valuation gain/(loss) on retiremer Gain/(loss) on mortality Gain/(loss) attributable Gain/(loss) attributable	ded liability) and sport of the tributation period: and the YMPE to net investment expension increases to administration and the commission increases the commission in the commission increases the commission in the commission in commission in the commission in the commission in the commission	ecial payments e differing from	\$194,000 \$240,000 \$233,000 (\$3,082,000) (\$710,000)	obility.ot

Gain/(loss) due to changing the actuarial assumptions:

Going concern surplus / (unfunded liability) at December 31, 2015	(\$23,252,000)
Other experience resulting in a net gain/(loss)	\$21,000
age 65 retirements Gain/(loss) due to data changes	\$13,000
 change in mortality table used for actuarial increases on post 	\$106,000
PLANSING SERVICE SERVI	SPERMANNEL PERMANNA
 decrease in the valuation interest rate 	(\$6,709,000)

Tre rollowno vestrues of lander sources or dain and ross since the previous valuation:

\$1,816,000.

- The actual return earned by the Plan based on the market value of assets during the year
 was 3.32% net of investment expenses, compared to an expected return of 5.9% per
 year resulting in a loss of \$3,082,000.
- A pension increase of 1.61% was provided effective. Inly 1. 2016 resulting in a loss of φτιν, υυυ. της το υακευτοπ.
 - Expected annual pension increases of 0.75%,
 the four year average fund rate of return of 8.41% net of investment expenses.

ທີ່ສຸດໃຕ້ ທີ່ ທ່ານ ຂອງ ທີ່ ທ່ານ ທ່ານ ທີ່ ຄຳຄົນ ການ ທ່ານ ຄຳຄົນ ຄຳຄັນ ຄຳຄົນ ຄຳຄັນ ຄາມ ຄຳຄັນ ຄຳຄັນ ຄຳຄັນ ຄາມ ຄຳຄັນ ຄຳຄັນ ຄຳຄັນ ຄຳຄັນ ຄາມ ຄາມ ຄາມ

loss of \$6,709,000

The salary increase assumption reflects negotiated salary increases, as provided by the
 University for the years 2016 to 2018 for Support Plan members and 2016 to 2010 for
 Academic Plan marghage. This results the application and academic Plan marghage.

I lower than previously assumed.

INTEREST RATE SENSITIVITY OF THE GOING CONCERN LIABILITY

The effect of a decrease to the going concern valuation interest rate of 1%, from 5.45% to 4.45%

is an intorease in the nathing of approximately ຈ ເວ,ວ∠າ,ບບບ.

CURRENT SERVICE COST.....

Road on the eccumptions and membership date described begin us actionate that the

-University's current service cost from December 31, 2045-until the offective date of the next-valuation is:



Regular University Cartetheritans took interior query of 2 36' of commission association

deemed earnings for members receiving long term disability (LTD) henefits. These are

... Ragular University Contribution Shortfall: 2.4% of members' noncionable accessor

PLUS

• Expenses: 1.5% of members' pensionable earnings limited to the YMCE for annual

Members are required to contribute 8% of pensionable earnings up to the YMCE less 1.8% of pensionable earnings for which Canada Pension Plan (CPP) contributions are required. Members receiving LTD benefits are not required to contribute.

Based on estimated pensionable earnings for 2016, capped by the YMCE, of \$10,547,060, the total estimated University current service contribution including the University contributions made on behalf of LTD member contributions, and the annual allowance for administration expenses, is

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empresentation in the design of the control of the

The actual dollar amount of current convice contribution for 2016 may be higher or



		Darriantana of
	Fstimated	Pensionable
	Dollar Amount	Earnings
Estimated 2016 pensionable carnings capped by the		
YMCE	\$10.547 000	
Determination of Additional University Contribution		· ·
Total cultent service cost for penents	\$1,829,000	T/.5%
Estimated member required contributions	(\$701,000)	(6.6%)*
Regular University Contributions (\$878,000) Iniversity current service cost shortfall \$250,000	128 00 5 0.755	 The rewit
	······································	· ····4 kv/- · ··
Printernous services and an analysis of the contraction of the contrac	-\$#K\$,000	0.070
University Contribution for Current Service		
University Regular Contribution	\$878,000	8.3%
Additional University Contribution	\$410,000	3.9%
Total I halomaniko a matelho di ma anno na a matela	\$1,288,000	12.2%
Total University contribution for current service	Ψ1,220,000	

INTEREST RATE SENSITIVITY OF THE CURRENT SERVICE COST

The effect of a decrease in the valuation interest rate of 1% from 5.45% to 4.45% is an increase.

The effect of a decrease in the valuation interest rate of 1% from 5.45% to 4.45% is an increase.

the University current service cost as a percentage of capped pensionable earnings from 12.2% to 15.1%.

The state of the s



Section 5 WIND-IIP VALUATION

wound up on the valuation date. 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 value of the early retirement subsidy as provided for in the Plan.

Accordingly, the following approach was used:

- 1. The Plan assets were valued at their market value.
- 2. The benefits valued are those which members would be entitled under applicable legislation and the Plan, if the Plan were wound up on the valuation date.
- The actuarial assumptions are developed in accordance with the Canadian Institute of Actuaries (CIA's) Standard of Fractice for determining Fension Commuted values and the CIA Educational Note Assumptions for Hypothetical Wind-up and Solvency Valuations with Effective Dates Between December 31, 2015 and December 30, 2016 dated April 2016. These assumptions are described in detail in Appendix B.
- 4. In accordance with the GIA Educational Note, the spread above the unadjusted SANOW.

 series V39062 was determined to be 86 basis points based on a duration of 10.22 for the

2.89%.

Based on the Plan provisions in effect on December 31, 2015, the wind-up valuation assumptions and the membership data supplied by the Board of Trustees, the following is the wind-up position of the Plan as at December 31, 2015:



·	Vind-up Valuation		12.31,2015,	12.31.2014
<u>v</u>	Vind-up Assets		e e e e e e e e e e e e e e e e e e e	
	Madestualus of Dlag	202010	<u> </u>	L. MARONEOA OOO.
Gewonen for wind in a	W.C. 1990	(4000,000)	(9405.000)	
	Total wind-up assets		\$126,386,000	\$128,306,000
<u>V</u>	Vind-up Liabilities	TO DESCRIPTION OF THE PARTY OF		- 676 000 000-
- Andrews	Inactive and deferred		\$1.583.000	\$1.848.000
Čenkštek imirižini	างการกระที่สารเกาะการการการการการการการการการการการการการก	เล็กเล็ก เล็ก เล็ก เล็ก เล็ก เล็ก เล็ก เ	ΨΖΫζου	ຸ
otal wind-up liabilities		<u>\$188.297.000</u>	\$184 048 000	
Section 20 and a section of the sect	wina-up excess/ (sno	rītāli)************************************	(\$61,911,000)	(\$55,742,000)

As shown above if the Plan had been wound-up as at December 31, 2015, the wind-up liabilities would have exceeded the wind-up assets by \$61,911,000.

WIND-UP INCREMENTAL COST

The incremental cost represents the present value on the valuations date of the expected aggregate change in the wind-up liability between the valuations, adjusted upward for expected benefit payments between the valuation dates.

ருறு esumated autiquat hospite italians curling amount of the site is say a trindov of the is also the total estimated incremental cost between the valuation date,

December 31, 2015 and the date of the next valuation, December 31, 2016.



Sactions. SOLVENCY VATHATION

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

members with 20 years or জনকেওছিলমেটিও একটিও মহাচেন্দ্রতি এবর includes the value of the carry retirement subsidy as provided for in the Plan.

The calculations are based on the Plan provisions in effect on the valuation date the solvenov

Survivy Yakawa		TAIVITA
OUIVERICY ASSETS		
Market value of Plan assets (A)	\$126,586,000	\$128,501,000
Present value of the first five years of special payments to eliminate the going concern unfunded actuarial liability	\$12,450,000	\$8,546,000
Allowance for wind-up expenses (B)	(\$200,000)	(\$195,000)

Solvency Liabilities

consissingencie Februarie

Active members	\$76,455,000	\$76,023,000
Provided the Company of the Company	alsones - 1.00 American	The harden server and the server server
Innation and deferred	20000000000000000000000000000000000000	
Other (incl. outstanding surplus distribution)	\$207,000	\$1,200,000
Total solvency liabilities (C)	\$188,297,000	\$184,048,000
Solvency excess / (deficiency)	(\$49,461,000)	(\$47,196,000)
Solvency ratio [(A + B) ÷ C]	0.671	0.697

INTEREST RATE SENSITIVITY OF THE SOLVENCY LIABILITY

representation of the applity purchase rate from 2.89% p.a. to 1.89% and a corresponding decrease in the commutad value of the applity purchase rate from 2.89% p.a. to 1.89% and a corresponding decrease in the commutad value of the commutad value of the property of th

SPECIAL PAYMENTS

This plan is authorite the funding requirements of the Dension Rancificates of Marie -

TO STATE OF THE CONTROL OF THE STATE OF THE

funded over a five year paried However the University was alighted and made an election to be

TV (111) TÜTTÜ (131) ÜNÜLE KERTÜ ÜTT. ENGESTE SERINGEN ENGESTE TORÜNÜN ÜTTE KERING TERINGEN ENGES EN ENGES EN VIVIII TÜTTÜ TÜNÜÜ TÜTÜ PÜNENDE PÜREN KERING VORT. FÖVEN KOLE VANDANAN ENGES ENGEN ENGES ENGEN EN ENGES EN EN

election, the University is exempt from making special payments for solvency deficiencies. The

The Plan has a solvency deficiency (i.e., an excess of solvency liabilities over solvency assets after adjustment) of \$49,461,000. In the absence of the Solvency Exemption, the solvency deficiency would require funding by equal monthly nayments over the period beginning on the valuation date and ending on December 31, 2020. Ascordingly, the minimum opeoid payment required to liquidate this solvency deficiency would be \$10,616,000 per year, payable monthly from January 1, 2016 to December 31, 2020 inclusive. These payments would be in addition to the special payments required to fund the special payments.

The following schedule summarizes the special payments that would be required to liquidate the unfunded liabilities and solvency deficiencies as at December 31, 2015. The payments to amortize the unfunded liability must be made regardless of the solvency exemption. Payments to amortize the solvency deficiency are not required.

Present Value of Payments on December 31, 2015 for purposes of*

	<i>5</i> _ 1 _ 2 _ 2 _ 2 _ 2 _ 2 _ 2 _ 2 _ 2 _ 2 _ 		nnual Special	End of		
Hective.	(navahla	Liquidation	Salvanov	Concern		
Date	monthly.	Portod	Valuatio	in Valuatio	DM	· · · · · · · · · · · · · · · · · · ·
	Untunded Liabili	<u>ty</u>				
and the first standard security of the contract of the contrac	01.01.2011	endered regionalistic and district and the	\$1 194 000	12 31 2025	<u>\$5,563,000</u>	¢0 ኃ/ፍ_ሰስስ
นี้กับวังกักร์	VIOLEN IN THE	mm	/~\$CZE46CT	ዹጚ፞፞፞ቜፙጚ፧<u>፞</u>ዸፙ፟፫ ፚ	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	
<u> </u>	01.01.2016		\$856,000	12 31 2030	\$3 989 000	<u>_</u>
	- And the second	**************************************				
	Solvency Deficie	псу			<u> </u>	
LIUNEVILE LIBE	/0.00 0040 /0.00	Dagethen A	MC, 272,233 3ee	<u>XQXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX</u>	<u> </u>	
	Total Including So	lvency ===	\$13,288,000		\$61,911,000	
- Walanti gangan kan ang			•	•	xt five years of payr	•
11 11 A 1 114 - 2 M 1 24 14 2 A 2 2 21 21 21					รองเทียช นี้ เกีย yon	

interest rate of 5.45% per year.

CANGE T ELICIPIE CONTRIBUTIONE

<u> ได้มีได้เดิมโด้เดิม COMTRIBUTIONS ---</u>

The University is required to make:

Regular University Contributions at the rate of 9.0% of earnings up to the VRF 7.2% of

up to the year's Maximum Contributory Earnings (YMCE) in the Plan, plus

- the member contribution on behalf of £75 members, plus-
 - - Themperand university regular connounces, plus
- the annual allowance for administration expenses, plus

Based on estimated capped pensionable earnings of \$10,547,000 including the deemed earnings

Denefits Act of Manitoba and Solvency Exemption are as follows:

- was the contract of the cont		F	stimated Dollar	Contribution
7800-				
Regular Oniversity Commount	ກ່ອງໄດ້ເປັນເປັນການ ໄດ້ເກົ <i>າກ</i>	E SEC UTORS	Φ0/0,000	Ö.3%
contributions for LTD member	S			
Current service shortfall for he	nofite	ZZVV V V V V V V V V V V V V V V V V V	<u> </u>	2 VOV
Annual allowance for administ	ration <u>avnancae</u> ration ampenede	nn na naisean Bearlain a	\$160,000	4 E0/.
Special payments:				
- Unfunded actuarial liability			\$2,672,000	\$2,672,000
- Solvency deficiency			-	-
Total required contributions			\$3,960,000	

Pension Plan earnings. -

MAXIMUM CONTRIBUTIONS

i า กิชางที่แชสุโรแซารี ซิซาที่มีเซ็น เขานกับรูสุรสุภาษายา ซิซซาหละ เ เหต กับมีกับนัก รับมีมาบานสามารถสมาชาสมาห

The maximum permitted contribution the University could make is equal to the sum of:

- A lump sum equal to \$61,911,000 the greater of the unfunded actuarial liability of \$23,252,000 and the windup deficiency of \$61,911,000 as of December 31, 2015; PLUS
- 2. The current service contributions of 12.2% of capped earnings representing:
 -(i) Regular University contributions and;
 - (ii) Additional contributions for the current service shortfall and expenses.

ງ ວາວວາວ ສາຄອນກອງ ປ່ອດຮັດກັກ ສຸຄິກຄານຮ້ອຍໃນການທີ່ສາຄໃດຄວາມສຳເດັນການທີ່ກາວກັນຂັດເກັດສະຕັ້ນສຸກ ກັນເຂົ້າຂອງ ການເຂ ກາງການເພື່ອ: "Nearmoen ຂຶ້ງຜ່າວກຳເນັຍແລ້ວ ບວກກຳເນັດແຕ່ເຮັ້າ ຂອງ ເດືອນ ທາງເກັດວາ ບັນຊີ້ຈະ ເດືອນທີ່ການ ເກືອງ ອາຄ month to which they apply.

Seaton's All CAARAS LEVANUS

report on a valuation of the plan at December 31, 2015, I hereby certify that:

- a. The ournose of this report is to provide actuarial estimates of the fundion navments required

 Of the next valuation. The effective date of the next valuation must be no later than
- b. Based on the projected unit credit actuarial funding method, the plan has an unfunded liability of \$23,252,000.

Anorder to satisficitie turding requirements as the Popision Residue (let The House in Music amorite the unitalitied hability according to the rollowing schedule.

End of Amortization	Annual Special Pavment			
ร ากัสเรียนกลเล	- Parint	<u>ក្រុសសម្ព័ធិត្តប្រគិញប៉ុន្តែ</u>		الماعدر مرمد محمد الماء الم
Francisco (Francisco)	OHOHODHI.	DESTING.	TENTROPPOL	
Tofundad Lichility	01,01,2012.	10.21.2026.	\$622.000	
		01 01 2016	12,31 2030	\$856,000
	Total			\$2,672,000
				\$2. <u>672.000</u>

d. Based on the projected unit credit actuarial funding method, the University is required to contribute 12.2% of capped pensionable earnings in order to satisfy their funding requirements. This is comprised at University Beautier Contributions of announced to 8.3% of the contributions of the contribut

adien earnings und z.4% of earnings of the current service dist solution date t.4% of the current service distributions t.4% of the current service distributions are the current services.

Billowannet (ar exactistic 15/2016) is 5.1 Ves 1600 for White 57 of 1500 Will be delig the time — Therribers and 51, 288,000 Will be baild by the University.

er The value of the east was a subject of the east of

f. After taking into account the present value of the next five years special payments to amortize และ อเนอกของ และแนง เนอ เชือง และ ซองให้เกิดใช้ ของโดยใช้ เกิดใช้ เกิดใช้

Notwithstanding the foregoing enjoing emerging eventioned differing frage the assumptions will be to require the foregoing experience will be the foregoing experience will be to require the foregoin

result in dains of tosses which will be revealed to tuture valuations:

Fellow of the Canadian Institute of Actuaring

August 31, 2016
Date

nandais a 4346662455 CFT 2-26-26-26-06-36-36-36-3

The defined benefit provisions of the Plan have not been amended since the date of the previous valuation.

The following is a summery of the main provisions of the Plan in offset at December 31, 2015. It is not intended to be a complete description of the Plan.

ELIGIBILITY

ie demieu penelijood konstit nortian of the Plan is aleged to no:

MEMBER CONTRIBUTIONS

Massbarg are required to contribute at the rate of 0.000 of colors up to the Veeda Dasia Familia.

Will under the Consels Dasia. Plan & 00/ habitan the VOE and the Veeda Madimism.

Pensionable Earnings (YMPE) and 8.0% in excess of the YMPE. Wembers contribute only on the amount earned up to the Year's Maximum Contributory Famings (YMCF)

The YMCE is the sum of \$86,111 and 30% of the YMPE for the year, or \$102,581 for 2016.

Members receiving benefits from the long term disability (LTD) plan are not required to contribute to the plan while disabled.

UNIVERSITY CONTRIBUTIONS

The University is required to contribute at the rate of 9.0% up to the YBE, 7.2% between the YBE and the YMPE and 9.0% in excess of the YMPE. The University only contributes on the amount earned up to the YMCE, plus any additional payments required under the Pension Benefits Act of Manitoba.

For mambors, resolution handite from the LTD along the University selection that the amount

inutiouse of results presented in this report, this amount is included in Regular University

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NODEL PETPERSON

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*APTY PETTERMENT

ratirement data. If the member is see 61 or over and his see plus veers of service equals 95 or



LATE RETIREMENT

A member who continues in employment after his normal retirement date continues to make contributions to the Plop and his passion date not commence with his actual actual

receives the greater of the pension account to the date of retirement and the actuarial equivalent

har narmal rationment data

PENSION

At retirement, the member is entitled to an annual pension equal to 2% of his final everage earnings multiplied by his years of credited service less 0.6% of his CPP average earnings

inining in the the control of the co

FORMS OF PENSION

The normal form of pension at retirement is payable for life with a guarantee of 5 years' payments.

Mamber with acacusa and tologion relieved in not in the form of a print and acc

I JIMPE NOTING ATA AWAII AMA AN AN ANTIONALIN ANTIWATAN NACIO

anting ware given the choice of three works to receive their leitiel Currier Chore on fellow

- a) Alump sum payment,
- b). As partial lump sum payment and an improvement in the normal form of pension in

ar arrang reep on or products recomber 200 Combined to his proposition and a com-

 No lump sum payment and an improvement in the normal form of pension in respect of credited service accrued prior to December 31, 1999 from life guaranteed 5 years to life guaranteed 13 years.

Where applicable, the enhanced form of nepsion is reflected in our valuation

PENSION INCREASES

average annual investment return on the fund net of investment and administration expenses in the previous four cure ligar years exceeds one, subject to a maximum riferease or the community year. If the increase in any year is limited by the CPI increase and there was a previous year, or when the increase was less than the CPI, the Poord of Trustees may are side a higher

increase to make up some, or all of, the shortfall.



DEATH BENEFITS PRIOR TO RETIREMENT

The death benefit is the commuted value of the pension earned to the date of death.

BENEFITS ON TERMINATION OF EMPLOYMENT

A member who terminates employment is entitled to a deferred pension payable from normal retirement date.

56% of the defence panels กล่างของของค่อค่อเพียงนี้เล่า อัลเดลารู ว่า 1565 must be paid for by University contributions.

Mambare not all pille to commence en immediate nencion unon territorio et continuo et cont

rfansier ine commuter. Value in inelr'accilled hension to a locked in retirement account

BENEFITS ON DISABILITY

accrue credited service but is not required to make contributions. For pension calculation purposes, the salary (and YMPE) are deemed to be equal to that paid to the member immediately prior to the commencement of the LTD benefit.

SUPERINTENDENT'S ORDER FOR SURPLUS DISTRIBUTION:

On December 8, 2006, the Superintendent of Pensions of Manitoba issued an Order requiring the University to pay a lump sum amount of \$6,454,000, plus interest in respect to the distribution of a surplus during plant to Court of Section plan members. The oniversity appeals the order of the Manitoba Pension Commission, and further to the Manitoba Court of Appeal. As a result of the appeal to the Manitoba Pension Commission, the Superintendent issued a revised Order on June 6, 2008, leaving the Order with respect to surplus distribution unchanged. The Manitoba Court of Appeal delivered its decision in support of the Superintendent's Order on January 23, 2009.

indin the Superintencent with respect to several insiters with respect to the Order, and requested Canada Revenue Δdency approval for the necessary contribution by the University and the

received aner December 37, 2009. The Oniversity infinediately contributed จือ.775.627 into the fund in January 2010, and payments to members entitled to a share of this amount commenced in February 2010.

A small portion of this amount remains undistributed and is treated as a liability of the Plan for the purpose of our valuation as at December 31, 2015

Annandiy R_ACTUAPIA! ASSUMPTIONS

ับบาเทย ออกเออกการสามนักเอกา

These assumptions are the same as those used at the previous valuation, except where noted.

Discount rate:

determined evenetal lang term continued market returns abandord deviations and correlations for dispersional evenetal lang term continued market returns abandord deviations and correlations for

vestitiesis eesee park tiskat is aquaensas is bundie tiseudsaan volgene. Yis naganes eest ov

production of the contract of

ਾਣ simulated doing congent discount rate was the return at the median of sadir asset class weighted by the Plan's target asset mix taking into account changes in the asset mix that are

scheduled to be triggered after the valuation data (i.e. under a glide-path). To arrive at the

TO CHILL CHILLIAN IN THE TRANSPORT OF CHILD CHOCKED CHOCKED CHOCKED CHILLIAN IN SECURIO CHILLIAN CHILLIAN CHIL

THIN CENTICE CHIRK VERBRURCIN CHI CHIVOLERI CHISTI CHINDERICH VITTERI BUSHISTI CHIRITERI INTEGNI BENTATE VITT

management fees.

.... Board on the methodology described shows the gaing energy discount rate ecomotion was

Expected Return

Classical and an incoming

- temperatural de la companya del companya del companya de la comp

ปภายเล่นขับ gross กรรจากยาการณีการออกจากลารูกใช้เก็น	0,0070
expenses	
Assumed active management value added	0.35%
Provision for investment management expenses	(0.45%)
Provision for adverse deviations	(0.50%)
Going concern discount rate	5.45%

Trustees of the Plan.

For the previous valuation, an interest rate of 5.9% per year was used.

interest rate credited on member required contribution accounts:

If was appumed that mambars? appumulated required contribution accounts would increase at the

rate of 1.75% per year. This rate was developed based on the five-year average of the CANSIM Series V122515 rates and is consistent with the rate provided by the Plan.

Expenses:

We have assumed that annual administration expenses will be \$160,000 per year. This allowance was developed based on recent administration expenses incurred by the Plan and an expense



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

For the previous valuation administration expenses were assumed to be \$175,000 per year...

Salary Increases:

Salaries are assumed to increase from the valuation date as follows:

i General increases of 3.0% per year. This rate is based on an allowance for market molied inflation at December 31, 2015 of 2.0% per year based on the difference between increased in the difference between inc

was and the second of the control of the second of the second of the control of

Age /	Average Annual Increase	Average Annual Increase
	over next 5 years	to age 65
40	2.4%	2.0%
45	2.2%	1.9%
En	0.00/	<u> </u>
55	1.8%	1.7%
60	1.6%	1.6%

Negotiated scheduled rate increases, as provided by the University, have been reflected in place of the salary increase assumption. A summary of the scheduled rate increases is provided below.

For academic members, the academic rate increases include a component for petromance.

	Support Members	Academic Members
	Support members	Academic Members
2016	1.0%	3.5%
2017	1.5%	3.0%
2018	2.0%	3.5%
2019	Increases in accordance with salary	4.0%
	assumption described above	
CONTROL SERVICE SERVICES SERVICES SERVICES SERVICES	Liver and the contract of the	aesannae <u>da ingereteran with anter (</u> Maillean
	assumption described above	assumption described above

Mortality:

The RPP 2014 Public Sector Mortality Table from the CIA report without size adjustments

voo ก็มีเขียกค่าสิบเกรียวกับกังโคเทยกระวัดวากนักสิบเราเรียกเติดสามากขอดเพียกความระเลเษ

B (CFM-B) was assumed for this variation to estimate the incidence of death before and after



retirement. The assumption is based the Canadian Institute of Actuaries' (CIA) final report on the results of a study performed on the mortality of pension plan members in Canada.

Termination:

Considering the age and length of employment of current members (the DB part of the Plan was closed to new entrants January 1, 2001) and the very low number of terminations occurring, we have made no allowance for the incidence of termination of employment prior to becoming eligible to retire.

Retirement:

The retirement age of members has a financial impact on the Plan. We have developed the following table based on 6 years of retirement experience of the Plan from 2005 to 2010. We will be a financial with the control of the Plan from 2005 to 2010. We will be a financial to the plan from 2005 to 2010. We will be a financial to the plan from 2005 to 2010. We

۸۸۸	Drahahilitu_af	
	Retirement	
61 – 68	20%	
69	30%	
70	40%	
71÷	100%	

<u> Actuarial Faminalance on Best----d Betterment</u>

The current administrative practice of the Plan is to determine actuarial equivalent pension increases in a manner consistent with the actuarial assumptions used for determining commuted values. We have assumed an average commuted value interest rate of 4.0% and mortality rates

n accordance with the RHP 2014 Complined Mortality Lable from the CIA report Without size and accordance with the CIA report Without size

the following:

a thur and the principle of the state of the principle of the principle of the state of the stat

1 THE BIT 14 WEIGHT ALL STORES THAT THE WALL STORE STA PURCHANA

decrement dates.

 The Canadian Institute of Actuaries' (CIA's) Standard of Practice for determining Pension Commuted Values currently provides for non-indexed select interest rates equal to the

interest rates equal to the Government of Canada Long Term Bond yield plus half the spread between the long bond rate and the seven year rate plus 0.9%.

 We assumed future long term Government of Canada bond yields equal to 3% and future average commuted value rates of 4.0% per vear.

Previously, mortality used in determining the actuarial equivalent pension on postnoned getirement was in accordance with the UP1994 Table projected with full generational improvements.



Year's Maximum	ı Pension able E arnings:
----------------	--------------------------------------

We have assumed that the CPP Year's Maximum Pensionable Earnings (YMPE) will increase annually based on average general increases in wages in Canada. For this valuation we have assumed that the YMPE will increase from its 2016 level of \$54,900 by 3.6% per year. This is consistent with the general salary increase assumption.

Future Pension Increases:

Ponsions in pay are increased annually by an amount equal to the excess ratem of the fund, not

we have continued to assume that pensions will increase by 0.75% per year on average.

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ast lintas relevativiti es sau les elles sules de estate l'un estación est el llique es es el l'

Actuarial value of accete-

For this valuation we have used the market value of assets.

GOING-CONCERN VALUATION METHOD

We have used a projected unit credit actuarial cost method. This values the benefits for accrued service up to the valuation date by projecting salaries to retirement, determining the pension at

liabilities in respect of service after 1984 to the contributions plus interest in respect of the same period to determine if the 50% test is applicable. If it is we make the appropriate adjustment to the liability. Ancillary benefits on death or termination of employment are valued in a similar mapper.

The University's current service cost under this method is the excess of the cost of henefits which will arise in the year following the valuation over the members' contributions in that year...

NOWSDERV SUBTRIBUTION WATER AND STATEMENT OF THE PROPERTY OF T

The following summerizes the estuarial essentians used for the California and Wind .

2.1% ner year for 10 years and 3.7% ner year thereafter for lump of

Τυτινή incréases in Pensionable
Earnings: None

ម៉ាក្រុស្តី (ស្រែប្រាស់ក្រុស្ត្រា

ត មក ១ភូមិ ប្រេស្តិ៍

CPM2014 (Combined) Mortality Table with mortality improvement

into interest and a contraint with Scale CDM.R.

Proportion electing annuity

TOUW OF TETTIFEES and TOUW OF active and deferred members age 55 and Tourises alock a lump sum transfor of the commuted value

Incremental Cost

The uncremental cosmon to the hypothetical wind-un or solvenov liability between the valuation date and the next valuation date. It also reflects expected benefit payments between the valuation date and the calculation date.

In our report we have determined the incremental cost under the wind up basis. The incremental cost was determined as the sum of (a) and (b) minus (c)

Lat the projected wind un liability of the next valuation data for these manhans at the aver

valuation date allowing for expected decrements and change in membership status

continuous linerana in agricus and next retirement --

no adjustment was made for new entrants between the two valuation dates. The resultingprojected winds in liability was then discounted to the current valuation date:

- (b) the present value of the benefit payments expected to be paid between current valuation date and the next valuation date, discounted to the current valuation date;
- (c) the wind-up liability as at the current valuation date.

For purposes of calculating the wind-up incremental cost, the expected decrements, as well as the expected benefit asymptotic between the current valuation date and the next water date mine

Annendix. In narticular, we have assumed that the interest rates will remain the same throughout

the valuation date will remain unchanged, as will the current guidance on the estimation of annuity purchase costs.



AMOS MEMBEDOUID DATA

valuation and are estimated that the date are sufficient and reliable for the numbers of the valuation.

noning non-identification in incomplication and describe in a final and in a final incomplication in the complete in a final and in a f

seed Suregrees and .	Active Members	19-31-2815	49-34-204 <u>4</u>
	Number of Members	151	160
	Average Pensionable Earnings	\$89,738	\$87,806
ga i ga gaya di 2000 tili qiri soto birlinda	Average Credited Service	24.3	23.8
Maringer and		स्टार्टिंग के क्षेत्रकार के किया है के किया है कि किया किया है कि किया है कि किया है कि किया है कि किया	
	Total Required Contributions With Interest	\$18,675,008	\$19,424,370
-TBGTTERCETERC	(micesnimmes 22222	12252005	
- Fotal Nümber of L	Deterriéd Members - 1 42	45	
This ship and the sea	NAME OF THE OWNER OWNER OF THE OWNER OWNE		
	Lifetime Pension	39	43
	Average Age	56.8	56.4
	Average Annual Deferred Pension		
J. Discourse of States of the Control of the Contro	Davable at 65	<u>\$2.047</u>	ይን ድስሳ
	Number of Members with Lump Sum		
	Benefit Payable	23	26
	Total Lump Sum Benefits Payable	\$399,558	\$425,981
	Pensioners and Survivors	12.31.2015	12.31.2014
	Number of Lifetime Pensions	270	267
	Average Age	74.7	74.4
	Average Annual Lifetime Pension	\$30,234	\$29,786
	Number of Certain Only Pensions	5	3
	Average Annual Certain Only Pension	\$38,815	\$29,711



Benefit			
		12.31.2014	
*	·		
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The following table summarizes the distribution of active membership by age and credited

Craditad Sarvice

Market Cassan						-		<u> </u>		
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			1	1	1				3	
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				12		1			13	
	50 - 54		*	\$76,155	\$69,860	\$48,802			\$66,361	-
			2	11	3	7			23	
			_							
	55 - 50	* *			\$84 0 22	\$102 11 <u>8</u>	\$59.669	. *	\$ 88 በፍጹ	
	55 <u>-</u> 50		* १४१,म इन्यामीके इस्स्मार्थी				\$88.869		¢ ጸጸ በ ቪ ጸ	
11*†			* १४१,म इन्यामीके इस्स्मार्थी	\$02 13 <u>8</u>			\$97,538	* \$66,536	\$91,883	-
	ांस ्		* We are the properties	\$02 138 5	<u>†</u> • -	45				
	ांस ्		* We are the properties	\$105,782	\$87,958	\$94,834	\$97,538	\$66,536	\$91,883	
	60 - 64		* We are the properties	\$02.138 5 \$105,782 8	\$87,958 7	\$94,834 14	\$97,538 10	\$66,536 6	\$91,883 46	
.1 1 T	60 - 64		* We are the properties	\$105,782 8 \$94,593	\$87,958 7 *	\$94,834 14 \$141,147	\$97,538 10 \$132,895	\$66,536 6 \$145,621	\$91,883 46 \$129,137	
i îrr	60 - 64		* We are the properties	\$105,782 8 \$94,593	\$87,958 7 *	\$94,834 14 \$141,147 4	\$97,538 10 \$132,895	\$66,536 6 \$145,621 4	\$91,883 46 \$129,137 19	
î î î	60 - 64		* We are the properties	\$105,782 8 \$94,593	\$87,958 7 *	\$94,834 14 \$141,147 4 *	\$97,538 10 \$132,895 6	\$66,536 6 \$145,621 4 * 1	\$91,883 46 \$129,137 19 *	



The following tobies commercial the distribution of ratios through an analysis of the distribution of ratios through a second of the distribution of the distribution

Male Retired Members

ere e	Lifetin	ne Pensions	Tempora	ry Pensions
	. L. Sanesae	Avorano		Avorono
Δπο	Count	Danelon	Count	Daneion -
55 - 59	2	*		_
60 - 64	10	\$27,249	2	*
65 - 69	25	\$35,618	1	*
70 - 74	33	\$46,692	1	*
75 - 79	30	\$37,698		
80 - 84	26	\$34,003		
85 - 89	11	\$31,278····		
90 - 94	3	\$34,237		
95+				
<i>აგ</i> ე;6≨ს.	4 40	4 . 602 F 44 340.0U	j 4	

^{*}Pensions in cells with fewer than three members have been suppressed.

Female Retired Members

4.5	Lifetim	e Pensions	Temporar	y Pensions
Age	Count	Average Annual Pension	Count	Average Annual Pension
55 - 59	2	*		
60 - 64	13	\$19,713	1	*
65 - 69	38	\$22,368		
70 - 74	19	\$19,696		
75 - 79	24	\$24,480		
80 - 84	19	\$25,026		
85 - 89	8	\$23,250		
90 - 94	5	\$20,179		
95+	2	*		
-Total-	130	\$22,410		*.

^{*}Pensions in cells with fewer than three members have been suppressed.



Reconciliation c	it Membership						
		Maria Zaya kasaran .		<u></u>		·	
				THE SECTION OF THE SE			·
a. Acantonesis	- 1864 - 1864 - 1864 - 1864 - 1864 - 1864 - 1864 - 1864 - 1864 - 1864 - 1864 - 1864 - 1864 - 1864 - 1864 - 186		Warry 12			:: :::: ::::::::::::::::::::::::::::::	
					- · · · · · · · · · · · · · · · · · · ·		
	Retirements						
	- Pension	(6)	(3)	10	(1)		-
	- Paid out						.
	Deferred paid out				(2)		(2)
	Outstanding paid out				` '	(1)	(1)
	Pensioner Death			(8)			(8)
	Survivor Benefits			3			



Appendix D. PLAN ASSETS

by the audited financial statements consisted of the following:

Actual Asset Mix at December 31, 2015 ----

	Market Values	Proportion
Fixed Income	\$43.751.118	34.96%
Canadian Equities	\$18,338,418	14.66%
ILS Fauities	\$18 477 470	14 77%
International Equities	\$30,035,713	24.00%
Real Estate	\$14,525,130	11.61%
Short-term	\$76	0%
Total Invested Assets	\$125,127,925	100.00%

The invested assets are adjusted by the following emounts to arrive at the market value of assets (\$126.585.959) as at December 31, 2015:....

- Cash neid was equal to \$1,269,955, plus
- Contributions receivable equal to \$388,649, minus
- Amounts payable equal to \$200,570



FINANCIAL STATEMENTS

A summary of the change in assets since the previous valuation is summarized below:

	2015	
Balance at January 1	128,501,479	
Member Contributions	830,921	
University Contributions	3,173,885	
Investment Income	16,040,765	
Realized Gains + Losses	944,251	
Change in Market Values	(12,119,212)	
Pensions Paid	(8.111.698)	
Lump Sum Payments	(1,977,876)	
ที่พระเทางหน้าที่สกลผู้อากอากับสออกจอ	(070,817)	
Administration Expenses	(117,639)	
Balance at December 31	126,585,050	

INVESTMENT POLICY

rne rension i rusiees acconecia reviseo sia demendo invesimente o invesimente alto erocentifesi in

- 2013 (the "Policy"). The provisions of the Policy have been reflected in this valuation as they were in the previous valuation as at December 31, 2014.

The Policy is intended to provide guidelines to the investment managers as to the level of

Liability Matching Portfolio. As the going-concern funded ratio improves, a portion of the Growth.

The transition is divided into six stages, as shown below. The trigger for each stage is pased on the going concern funded ratio of the Plan.

De-risking Glidepath

Going Concern Funding Ratio		. 50000-0000-0	AA7 AEA2	95% - 100%		. ::::::
Growth Portfolio	75	65	55	50	45	40
Liability Matchina Portfolio		2£	AE	<u>د</u>	ee	en



Accot	Milv	Danci	smarl.

	Total Fund	100%	100%	100%	100%	100%	100%
orat i iabiliti Matifelad	25.6% 35.6%		50.0%	EE 00/			
	High yield honds	5.0%	_5.0% 	5.0%	# NO/	NO. A.	£ 00/ -
	Universe/Long bonds	20.0%	30.0%	40.0%	45.0%	50.0%	55.0%
	Total Growth Portfolio	75.0%	65.0%	55.0%	50.0%	45.0%	40.0%
	The second secon	acerta, de Estados Acerta, de Estados			Tarana a di Tarangan	······································	
. In the way of the second				1122	managalah di dalah		
No constitution of a particular section of the	Clohal aquities	.25.09Lz.~	3V 0013 500 WW	0E VOI 32 534000	19_E0/22	A7 E0/	4E 00/
- This was allowed -		-CANAGES			uli-Timbinistric	: 47 TT41: :::::	
	Galory Consern Funding Police		F0/_069/9	000 0000 - 1000	100%		- 100/0

The constraints on the asset mix are as follows:

Asset Mix Constraints

<u>Linerullu market eu</u>

_ Asset Class	Range in Relation to the Fund Renchmark %	
Canadian equities	Retween 5% helow and 10% above	
The later was a series of the	was single to the sound of the second	russinistis uses en
unies perveet awith and	Natural Control of the second	
Datengam daliki kinde Datengam daliki kinde	resignation	==
- Committee of the comm	ができないが、からできないない。 ひっしゃし・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・・	
High vield bonds	Between 5% below and 5% above	

ACTUARIAL VALUE OF ASSETS----

For this valuation, we have used the market value of assets.

INVESTIMENT RETURNS

Assuming that all cash flows occurred in the middle of the year, in 2015 the pension fund earned:

- a gross rate of return equal to 3.89%,
- a net rate of return equal to 3.42% after adjusting for investment management expenses,
- a net rate of return equal to 3.32% after adjusting for investment management and administration expenses.

Appendix E. CERTIFICATE OF TRUSTEES

	-University of Winnipeg Trusteed Pension Plan, we he knowledge and belief:	· · · · · · · · · · · · · · · · · · ·
<u> </u>	A copy of the official Plan document and all ame provided to the actuary:	ndments made to December 31, 2015, were
-	 The membership data provided to the actuary inc 	cludes a complete and accurate description
o: 3/6/ cersen ve.c. December 31, 2015:	o entined to condino under the terms or the Fighton se and	The wolv
	All events subsequent to December 31, 2015 that December 30, 2015 that	at mav have an impact on the valuation have
	Trustee Signature	Trustee Signature
Turk in the included in the in	Charr, Board of Tuders	SECRETARY DOARD OF TRUSTEES.
.	Date Saph. 12/16	Mys. 12/16 Date