

Condensed Interim Consolidated

Financial Statements of

Canada Pension Plan Investment Board

September 30, 2017

Condensed Interim Consolidated Balance SheetAs at September 30, 2017

(Unaudited)

		As at	As at		As at
(CAD millions)	Septer	mber 30, 2017	March 31, 2017 ¹	Sep	otember 30, 2016 ¹
Assets					
Investments (note 2)	\$	387,709	\$ 377,700	\$	374,074
Amounts receivable from pending trades		5,958	3,234		5,219
Premises and equipment		346	348		351
Other assets		153	131		174
Total assets		394,166	381,413		379,818
Liabilities					
Investment liabilities (note 2)		58,216	60,423		70,078
Amounts payable from pending trades		7,342	3,631		8,701
Accounts payable and accrued liabilities		442	682		491
Total liabilities		66,000	64,736		79,270
Net assets	\$	328,166	\$ 316,677	\$	300,548
Net assets, represented by:					
Share capital	\$	-	\$ -	\$	-
Accumulated net income from operations		186,933	178,875		163,185
Accumulated net transfers from the Canada Pension Plan		141,233	137,802		137,363
Net assets	\$	328,166	\$ 316,677	\$	300,548

¹ Certain comparatives have been updated to be consistent with current period presentation.

Condensed Interim Consolidated Statement of Comprehensive Income For the three and six-month periods ended September 30, 2017 (Unaudited)

	1	For the three-n	nonth	n period ended	For the six-month period ended						
(CAD millions)	Septem	ber 30, 2017		September 30, 2016	Septen	nber 30, 2017	Septer	mber 30, 2016			
Investment income	\$	2,986	\$	14,361	\$	9,526	\$	19,043			
Investment management fees		(382)		(331)		(805)		(610)			
Transaction costs		(66)		(151)		(173)		(243)			
Net investment income (note 6)	\$	2,538	\$	13,879	\$	8,548	\$	18,190			
Personnel costs		158		157		334		306			
General operating expenses		72		60		129		115			
Professional services		16		11		27		20			
Operating expenses		246		228		490		441			
Net income from operations and comprehensive income	\$	2,292	\$	13,651	\$	8,058	\$	17,749			

Condensed Interim Consolidated Statement of Changes in Net Assets

For the three and six-month periods ended September 30, 2017 (Unaudited)

		For the t	hree-month perio	od e	nded	
(CAD millions)	Number of shares outstanding	Share capital	Accumulated net transfers from the Canada Pension Plan		Accumulated net income from operations	Total net
As at July 1, 2016	10	\$ - \$	137,731	\$	149,534	\$ 287,265
Total net income for the period		-	-		13,651	13,651
Canada Pension Plan transfers:						
Transfers from the Canada Pension Plan		-	8,239		-	8,239
Transfers to the Canada Pension Plan		-	(8,607)		-	(8,607)
Balance at September 30, 2016	10	\$ - \$	137,363	\$	163,185	\$ 300,548
As at July 1, 2017	10	\$ - \$	141,907	\$	184,641	\$ 326,548
Total net income for the period		-	-		2,292	2,292
Canada Pension Plan transfers:						
Transfers from the Canada Pension Plan		-	7,394		-	7,394
Transfers to the Canada Pension Plan		-	(8,068)		-	(8,068)
Balance at September 30, 2017	10	\$ - \$	141,233	\$	186,933	\$ 328,166

	For the six-month period ended													
(CAD millions)	Number of shares outstanding		Share capital	Accumulated net transfers from the Canada Pension Plan		Accumulated net income from operations		Total net assets						
As at April 1, 2016	10	\$	- \$	133,505	\$	145,436	\$	278,941						
Total net income for the period			-	-		17,749		17,749						
Canada Pension Plan transfers:														
Transfers from the Canada Pension Plan			-	20,707		-		20,707						
Transfers to the Canada Pension Plan			-	(16,849)		-		(16,849)						
Balance at September 30, 2016	10	\$	- \$	137,363	\$	163,185	\$	300,548						
As at April 1, 2017	10	\$	- \$	137,802	\$	178,875	\$	316,677						
Total net income for the period			-	-		8,058		8,058						
Canada Pension Plan transfers:														
Transfers from the Canada Pension Plan			-	18,906		-		18,906						
Transfers to the Canada Pension Plan			-	(15,475)		-		(15,475)						
Balance at September 30, 2017	10	\$	- \$	141,233	\$	186,933	\$	328,166						

Condensed Interim Consolidated Statement of Cash Flows For the three and six-month periods ended September 30, 2017 (Unaudited)

	For t	he three-mo Septem	-	iod ended	For the six-month period ended September 30					
(CAD millions)		2017		2016		2017		2016		
Cash flows from operating activities										
Net income from operations	\$	2,292	\$	13,651	\$	8,058	\$	17,749		
Adjustments for non-cash items:										
Amortization of premises and equipment		6		8		13		15		
Effect of exchange rate changes on cash and cash		(1)		6		3		(5)		
equivalents		(1)		U		3		(3)		
Unrealized (gains) losses on debt financing liabilities		(15)		114		(538)		704		
Adjustments for net changes in operating assets and										
liabilities:										
(Increase) in investments		(7,299)		(13,293)		(17,210)		(22,813)		
(Increase) in pending trades receivable		(2,760)		(984)		(2,724)		(2,592)		
Decrease (Increase) in other assets		2		(2)		1		(5)		
Increase (Decrease) in investment-related liabilities		2,035		2,665		(5,736)		4,257		
Increase (Decrease) in debt financing liabilities		1,455		1,217		3,955		(434)		
Increase (Decrease) in pending trades payable		2,322		(295)		3,812		5,270		
Increase (Decrease) in accounts payable and accrued		63		86		(228)		(173)		
liabilities										
Net cash flows provided by (used in) operating activities		(1,900)		3,173		(10,594)		1,973		
Cash flows from financing activities										
Transfers from the Canada Pension Plan		7,394		8,239		18,906		20,707		
Transfers to the Canada Pension Plan		(8,068)		(8,607)		(15,475)		(16,849)		
Net cash flows (used in) provided by financing activities		(674)		(368)		3,431		3,858		
Cash flows from investing activities										
Acquisitions of premises and equipment		(2)		(2)		(11)		(9)		
Disposals of premises and equipment		-		-		1		-		
Net cash flows (used in) investing activities		(2)		(2)		(10)		(9)		
Net increase (decrease) Increase in cash and cash equivalents		(2,576)		2,803		(7,173)		5,822		
Effect of exchange rate changes on cash and cash equivalents		1		(6)		(3)		5		
Cash and cash equivalents at the beginning of the period		11,475		8,624		16,076		5,594		
Cash and cash equivalents at the end of the period		8,900		11,421		8,900		11,421		
Cash and cash equivalents at the end of the period are comprised of:				· · · · · · · · · · · · · · · · · · ·		· · · · ·		·		
Cash held for operating purposes ¹		93		117		93		117		
Cash and cash equivalents held for investment purposes ²		8,807		11,304		8,807		11,304		
Total	\$	8,900	\$	11,421	\$	8,900	\$	11,421		

¹ Presented as a component of Other assets on the Condensed Interim Consolidated Balance Sheet.

² Presented as a component of Investments on the Condensed Interim Consolidated Balance Sheet and Money market securities on the Condensed Interim Consolidated Schedule of Investment Portfolio.

Condensed Interim Consolidated Schedule of Investment PortfolioAs at September 30, 2017

(Unaudited)

The schedule below provides information on CPP Investment Board's investment assets and investment liabilities:

(CAD william)	Conton	As at	As at	Cantanala	As at
(CAD millions)	Septer	nber 30, 2017	 March 31, 2017 ¹	Septembe	r 30, 2016 ⁻
Equities (note 2a)					
Canada		6.504	4.536		4 700
Public equities	\$	6,504	\$ 4,576	\$	4,703
Private equities		3,830 10,334	4,048 8,624		3,646 8,349
Foreign developed markets		10,001	0,021		0,3 13
Public equities		105,261	93,905		78,798
Private equities		55,883	54,992		52,640
		161,144	148,897		131,438
Emerging markets					
Public equities		20,045	19,208		15,355
Private equities		7,105	5,781		5,026
		27,150	24,989		20,381
Total equities		198,628	182,510		160,168
Fixed income (note 2b)					
Bonds		59,195	61,240		69,117
Other debt		20,089	19,764		27,163
Money market securities		9,557	19,408		20,972
Total fixed income		88,841	100,412		117,252
Absolute return strategies (note 2c)		20,090	19,371		17,954
Real assets (note 2d)					
Real estate		39,469	38,732		37,164
Infrastructure		27,249	27,899		21,813
Total real assets		66,718	66,631		58,977
Investment receivables					
Securities purchased under reverse repurchase agreements					
(note 2e)		8,981	5,207		15,339
Accrued interest		1,777	1,561		1,459
Derivative receivables (note 2f)		2,111	1,718		2,706
Other		563	290		219
Total investment receivables		13,432	8,776		19,723
Total investments	\$	387,709	\$ 377,700	\$	374,074
Investment liabilities					
Securities sold under repurchase agreements (note 2e)		(19,198)	(14,749)		(21,614)
Securities sold short (note 2a and 2b)		(13,425)	(24,177)		(30,449)
Debt financing liabilities (note 2g)		(23,300)	(19,873)		(15,844)
Derivative liabilities (note 2f)		(1,614)	(1,401)		(2,005)
Other		(679)	(223)		(166)
Total investment liabilities		(58,216)	 (60,423)		(70,078)
Amounts receivable from pending trades		5,958	3,234		5,219
Amounts payable from pending trades		(7,342)	(3,631)		(8,701)
Net investments	\$	328,109	\$ 316,880	\$	300,514

 $^{^{\, 1}}$ Certain comparatives have been updated to be consistent with current period presentation.

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Notes to the Condensed Interim Consolidated Financial Statements

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Corporate information

Canada Pension Plan Investment Board (CPP Investment Board) was established in December 1997 pursuant to the Canada Pension Plan Investment Board Act (the Act). CPP Investment Board is a federal Crown corporation, all of the shares of which are owned by Her Majesty the Queen in right of Canada. CPP Investment Board is responsible for assisting the Canada Pension Plan (the CPP) in meeting its obligations to contributors and beneficiaries under the legislation Canada Pension Plan. It is responsible for managing amounts that are transferred to it under Section 108.1 of the Canada Pension Plan in the best interests of CPP beneficiaries and contributors. CPP Investment Board received its first funds for investing purposes from the CPP in March 1999. CPP Investment Board's assets are to be invested in accordance with the Act, the regulations and the investment policies with a view to achieving a maximum rate of return without undue risk of loss, having regard to the factors that may affect the funding of the CPP and the ability of the CPP to meet its financial obligations on any given business day.

CPP Investment Board is exempt from Part I tax under paragraphs 149(1) (d) and 149(1) (d.2) of the *Income Tax Act (Canada)* on the basis that all of the shares of CPP Investment Board are owned by Her Majesty the Queen in right of Canada or by a corporation whose shares are owned by Her Majesty the Queen in right of Canada, respectively.

The Condensed Interim Consolidated Financial Statements (Consolidated Financial Statements) provide information on the net assets managed by CPP Investment Board and do not include the assets and liabilities of the CPP. CPP Investment Board has a fiscal year end of March 31.

CPP Investment Board's registered office is at One Queen Street East, Toronto, Ontario, Canada.

The Consolidated Financial Statements were approved by the Board of Directors and authorized for issue on November 9, 2017.

1. Summary of significant accounting policies

a) Basis of presentation

These Consolidated Financial Statements have been prepared in compliance with International Accounting Standard 34, *Interim Financial Reporting* (IAS 34) and do not include all of the information and disclosures required in the annual consolidated financial statements. These Consolidated Financial Statements should be read in conjunction with CPP Investment Board's annual Consolidated Financial Statements and the accompanying note disclosures included on pages 97 to 126 in CPP Investment Board's 2017 Annual Report. These Consolidated Financial Statements follow the same accounting policies and methods as the most recent annual Consolidated Financial Statements.

CPP Investment Board qualifies as an investment entity as it meets the following definition of an investment entity outlined in IFRS 10, Consolidated Financial Statements (IFRS 10):

- Obtains funds from one or more investors for the purpose of providing those investor(s) with investment management services. In the case of CPP Investment Board, we have one investor (CPP), but we invest the funds for a wide group of investors being the beneficiaries of the CPP.
- Commits to its investor(s) that its business purpose is to invest funds solely for returns from capital appreciation, investment income, or both.
- Measures and evaluates the performance of substantially all of its investments on a fair value basis.

No significant judgments or assumptions were made in determining that CPP Investment Board meets the definition of an investment entity as defined in IFRS 10.

Notes to the Condensed Interim Consolidated Financial Statements

For the three and six-month periods ended September 30, 2017 (Unaudited)

b) Subsidiaries

CPP Investment Board is required to report the results of operations in accordance with IFRS 10. As a consequence, the Consolidated Financial Statements represent the results of operations of CPP Investment Board and its wholly-owned subsidiaries that were created to provide investment-related services to support its operations. Operating subsidiaries of this nature include those that provide investment advisory services or subsidiaries that were created to provide financing to CPP Investment Board.

Subsidiaries that were created to structure and hold investments are investment holding companies and are not consolidated in these Consolidated Financial Statements but instead are measured and reported at fair value. Fair value for unconsolidated investment holding companies is based on the fair value of the underlying investments and investment liabilities held by the investment holding company together with its accumulated net income from operations. The determination of the fair value of the underlying investments and investment liabilities are based on the valuation techniques and related inputs outlined in note 2a to g.

c) Valuation of investments and investment liabilities

Investments and investment liabilities are stated at fair value. Fair value is the price that would be received to sell an asset or paid to transfer a liability in an orderly transaction between market participants at the measurement date.

In an active market, fair value is best evidenced by an independent quoted market price. In the absence of an active market, fair value is determined by valuation techniques that make maximum use of inputs observed from markets. See note 2a to g for more details about the determination of fair value.

2. Fair value determination

CPP Investment Board manages the following types of investments and investment liabilities and determines fair value as follows:

a) Equities

- (i) Public equity investments are made directly or through funds, including hedge funds. Fair value for publicly traded equities, including equity short positions, is based on quoted market prices. Fair value for fund investments is generally based on the net asset value as reported by the external administrators or managers of the funds.
- (ii) Private equity investments are generally made directly or through ownership in limited partnership funds. The fair value for investments held directly is primarily determined using earnings multiples of comparable publicly traded companies or discounted cash flows. Significant inputs for these valuation methods include company specific earnings before interest, taxes, depreciation and amortization (EBITDA), earnings multiples of comparable publicly traded companies, projected cash flows and discount rates using current market yields of instruments with similar characteristics. Recent market transactions, where available, are also used. In the case of investments held through a limited partnership fund, fair value is generally determined based on relevant information reported by the general partner using similar accepted industry valuation methods.

b) Fixed income

(i) Bonds consist of non-marketable and marketable bonds. Fair value for non-marketable Canadian provincial government bonds is calculated using discounted cash flows based on current market yields of instruments with similar characteristics. In the case of marketable bonds, including bond short positions, fair value is

Notes to the Condensed Interim Consolidated Financial Statements

For the three and six-month periods ended September 30, 2017 (Unaudited)

based on quoted prices or calculated using discounted cash flow based on benchmark yield curves and credit spreads pertaining to the issuer.

(ii) Other debt consists of investments in direct private debt, asset-backed securities, intellectual property, royalties, distressed mortgage funds, private debt funds and hedge funds.

Fair value for direct investments in private debt and asset-backed securities is based on quoted market prices or broker quotes or recent market transactions, if available. Where the market price is not available, fair value is calculated using discounted cash flows based on significant inputs such as projected cash flows and discount rates using current market yields of instruments with similar characteristics.

In the case of intellectual property investments and royalty investments, fair value is primarily determined using discounted cash flows based on projected cash flows and discount rates using current market yields of instruments with similar characteristics.

Fair value for fund investments is generally based on the net asset value as reported by the external administrators or managers of the funds.

(iii) Money market securities consist of cash, term deposits, treasury bills, commercial paper and floating rate notes. Fair value is determined using cost, which, together with accrued interest income, approximates fair value due to the short-term or floating rate nature of these securities.

c) Absolute return strategies

Absolute return strategies consist of investments in hedge funds whose objective is to generate positive returns regardless of market conditions, that is, returns with a low correlation to broad market indices. The underlying securities of the funds could include, but are not limited to, equities, fixed income securities and derivatives. Fair value for fund investments is generally based on the net asset value as reported by the external administrators or managers of the funds.

d) Real assets

(i) CPP Investment Board obtains exposure to real estate through direct investments in privately held real estate and real estate funds. Private real estate investments are managed by investment managers primarily through co-ownership arrangements.

Fair value for private real estate investments is primarily determined using discounted cash flows based on various factors such as net operating income, discount rate and terminal capitalization rate.

Fair value for real estate funds are generally based on the net asset value as reported by the external managers of the funds.

(ii) Infrastructure investments are generally made directly, but can also occur through limited partnership funds.

Fair value for infrastructure investments is primarily determined using discounted cash flows based on significant inputs including projected cash flows and discount rates.

Fair value for investments held through limited partnership funds are generally based on the net asset value as reported by the external managers of the funds.

Notes to the Condensed Interim Consolidated Financial Statements

For the three and six-month periods ended September 30, 2017 (Unaudited)

e) Securities purchased under reverse repurchase agreements and sold under repurchase agreements

Reverse repurchase and repurchase agreements are carried at the amounts at which the securities were initially acquired or sold, which, together with accrued interest income or expense, approximates fair value due to the short-term nature of these securities.

f) Derivative contracts

Fair value for exchange-traded derivatives, which includes futures, options and warrants, is based on quoted market prices. Fair value for over-the-counter derivatives, which includes swaps, options, forward contracts and warrants, is determined based on valuation techniques such as option pricing models, discounted cash flows and consensus pricing from independent brokers and/or third-party vendors. Inputs used in these valuation techniques can include, but are not limited to, spot prices, price volatilities, currency exchange rates, interest rate curves and credit spreads. In determining fair value, consideration is also given to the credit risk of the counterparty.

g) Debt financing liabilities

Debt financing liabilities consist of commercial paper payable and term debt. Commercial paper payable is recorded at the amount originally issued, which, together with accrued interest expense, approximates fair value due to the short-term nature of these liabilities. Fair value for term debt is based on quoted market prices.

Notes to the Condensed Interim Consolidated Financial Statements

For the three and six-month periods ended September 30, 2017 (Unaudited)

3. Derivative instruments

Fair value of derivative contracts

The fair value of derivative contracts was as follows:

Fair value of derivative contracts

	As at Sep	oteml	per 30, 2017	As at M	arch :	31, 2017	As at September 30, 2016				
	Positive		Negative	 Positive	ı	Negative		Positive		Negative	
(CAD millions)	fair value		fair value	fair value	f	air value	fa	air value		fair value	
Equity contracts											
Futures	\$ -	\$	-	\$ -	\$	-	\$	-	\$	-	
Swaps	1,356		(736)	923		(717)		1,099		(456)	
Options:											
Exchange-traded – purchased	-		-	-		-		18		-	
Exchange-traded – written	-		-	-		-		-		-	
Over-the-counter – purchased	-		-	-		-		18		-	
Over-the-counter – written	-		(5)	-		-		-		(1)	
Warrants	1		-	1		-		1		-	
Total equity contracts	1,357		(741)	924		(717)		1,136		(457)	
Foreign exchange contracts											
Forwards	475		(419)	357		(286)		350		(400)	
Options:											
Over-the-counter – purchased	-		-	-		-		19		-	
Over-the-counter – written	-		-	-		-		-		(1)	
Total foreign exchange contracts	475		(419)	357		(286)		369		(401)	
Interest rate contracts											
Futures	-		-	-		-		-		-	
Forwards	-		-	-		-		-		-	
Swaps	28		(212)	148		(117)		472		(414)	
Total interest rate contracts	28		(212)	148		(117)		472		(414)	
Credit contracts											
Purchased credit default swaps	2		(230)	4		(277)		30		(704)	
Written credit default swaps	244		(2)	285		(4)		696		(26)	
Options:											
Over-the-counter – purchased	-		-	-		-		3		-	
Over-the-counter – written	-		-	-		-		-		(2)	
Total credit contracts	246		(232)	289		(281)		729		(732)	
Commodity contracts											
Futures	-		-	-		-		-		(1)	
Options:											
Exchange-traded – purchased	5		-	-		-		-		-	
Exchange-traded – written			(10)	 							
Total commodity contracts	5		(10)	-		-		-		(1)	
Total	\$ 2,111	\$	(1,614)	\$ 1,718	\$	(1,401)	\$	2,706	\$	(2,005)	

Notes to the Condensed Interim Consolidated Financial Statements For the three and six-month periods ended September 30, 2017 (Unaudited)

4. Fair value measurement

Fair value hierarchy

The following shows investments and investment liabilities recognized at fair value, analyzed between those whose fair value is based on:

- Quoted prices in active markets for identical assets or liabilities (Level 1);
- Those involving inputs other than quoted prices included in Level 1 that are observable for the asset or liability, either directly (as prices) or indirectly (derived from prices) (Level 2); and
- Those with inputs for the asset or liability that are not based on observable market data (non-observable inputs) (Level 3).

Notes to the Condensed Interim Consolidated Financial Statements

For the three and six-month periods ended September 30, 2017 (Unaudited)

Fair value hierarchy

Investments Equities Canada Public equities Private equities Foreign developed markets Public equities¹ Private equities Emerging markets Public equities¹ Private equities¹ Total equities Total equities Fixed income Bonds Other debt	\$	6,504 - 6,504 97,355 - 97,355 18,205	\$ 	\$ Level 3 - 3,830 3,830	\$ 6,504 3,830
Equities Canada Public equities Private equities Foreign developed markets Public equities¹ Private equities Emerging markets Public equities¹ Private equities¹ Total equities Fixed income Bonds		97,355 - 97,355 - 18,205	\$ 7,828 1,179	\$ 3,830	\$ 3,830
Canada Public equities Private equities Foreign developed markets Public equities¹ Private equities Emerging markets Public equities¹ Private equities¹ Total equities Fixed income Bonds		97,355 - 97,355 - 18,205	\$ 7,828 1,179	\$ 3,830	\$ 3,830
Canada Public equities Private equities Foreign developed markets Public equities¹ Private equities Emerging markets Public equities¹ Private equities¹ Total equities Fixed income Bonds		97,355 - 97,355 - 18,205	\$ 7,828 1,179	\$ 3,830	\$ 3,830
Private equities Foreign developed markets Public equities¹ Private equities Emerging markets Public equities¹ Private equities¹ Total equities Fixed income Bonds		97,355 - 97,355 - 18,205	\$ 7,828 1,179	\$ 3,830	\$ 3,830
Foreign developed markets Public equities¹ Private equities Emerging markets Public equities¹ Private equities Total equities Fixed income Bonds		97,355 - 97,355 18,205 -	7,828 1,179	3,830	•
Public equities¹ Private equities Emerging markets Public equities¹ Private equities Total equities Fixed income Bonds		97,355 - 97,355 18,205 -	7,828 1,179	<u> </u>	40.00
Public equities¹ Private equities Emerging markets Public equities¹ Private equities Total equities Fixed income Bonds		97,355 18,205	1,179	70	10,334
Private equities Emerging markets Public equities¹ Private equities Total equities Fixed income Bonds		97,355 18,205	1,179	70	
Emerging markets Public equities¹ Private equities Total equities Fixed income Bonds		18,205	•	78	105,261
Public equities¹ Private equities Total equities Fixed income Bonds		18,205	9,007	54,704	55,883
Public equities¹ Private equities Total equities Fixed income Bonds		-		54,782	161,144
Total equities Fixed income Bonds		-			
Total equities Fixed income Bonds		18,205	1,678	162	20,045
Fixed income Bonds		18,205	-	7,105	7,105
Fixed income Bonds	1		1,678	7,267	27,150
Bonds		122,064	10,685	65,879	198,628
Other debt		33,262	25,933	-	59,195
		-	4,157	15,932	20,089
Money market securities		-	9,557	-	9,557
Total fixed income		33,262	39,647	15,932	88,841
Absolute return strategies ¹		-	18,590	1,500	20,090
Real assets					
Real estate		_	-	39,469	39,469
Infrastructure		-	-	27,249	27,249
Total real assets		-	-	66,718	66,718
Investment receivables					
Securities purchased under reverse repurchase agreements		_	8,981	_	8,981
Accrued interest		_	1,777	_	1,777
Derivative receivables		5	2,105	1	2,111
Other		-	563	-	563
Total investment receivables		5	13,426	1	13,432
Total investments	\$ 1	155,331	\$ 82,348	\$ 150,030	\$ 387,709
Investment liabilities					
Securities sold under repurchase agreements		_	(19,198)	_	(19,198)
Securities sold short	((13,425)	-	_	(13,425)
Debt financing liabilities		(11,400)	(11,900)	-	(23,300)
Derivative liabilities		(10)	(1,604)	-	(1,614)
Other		-	(679)	-	(679)
Total investment liabilities	((24,835)	(33,381)	-	(58,216)
Amounts receivable from pending trades		_	5,958	_	 5,958
Amounts payable from pending trades		_			- ,
Net investments		-	(7,342)	-	(7,342)

Notes to the Condensed Interim Consolidated Financial Statements

For the three and six-month periods ended September 30, 2017

(Unaudited)

(CAD millions)		As	at Mai	rch 31, 2017	2		
		Level 1		Level 2		Level 3	Total
Investments							
Equities							
Canada							
Public equities	\$	4,576	\$	-	\$	-	\$ 4,576
Private equities		-		18		4,030	4,048
		4,576		18		4,030	8,624
Foreign developed markets							
Public equities ¹		87,129		6,700		76	93,905
Private equities		- 07.120		1,226		53,766	54,992
- Emarging markets		87,129		7,926		53,842	148,897
Emerging markets Public equities ¹		17,493		1,562		153	19,208
Private equities				1,302		5,781	5,781
Tittate equities		17,493		1,562		5,934	24,989
Total equities		•					
Total equities		109,198		9,506		63,806	182,510
Fixed income		26.00=		24252			64.040
Bonds		36,987		24,253		-	61,240
Other debt ³ Manay market securities		-		4,036		15,728	19,764
Money market securities		-		19,408		-	19,408
Total fixed income		36,987		47,697		15,728	100,412
Absolute return strategies ¹		-		17,835		1,536	19,371
Real assets							
Real estate		-		-		38,732	38,732
Infrastructure		-		-		27,899	27,899
Total real assets		-		-		66,631	66,631
Investment receivables							
Securities purchased under reverse repurchase agreements		-		5,207		-	5,207
Accrued interest		-		1,561		-	1,561
Derivative receivables		-		1,717		1	1,718
Other		-		290		-	290
Total investment receivables		-		8,775		1	8,776
Total investments	\$	146,185	\$	83,813	\$	147,702	\$ 377,700
Investment liabilities							
Securities sold under repurchase agreements		_		(14,749)		_	(14,749)
Securities sold short		(24,177)		-		_	(24,177)
Debt financing liabilities		(8,772)		(11,101)		-	(19,873)
Derivative liabilities		-		(1,401)		-	(1,401)
Other		-		(223)		-	(223)
Total investment liabilities		(32,949)		(27,474)		-	 (60,423)
Amounts receivable from pending trades				3,234			3,234
Amounts payable from pending trades				(3,631)			(3,631)
Net investments	\$	113,236	\$	55,942	\$	147,702	\$ 316,880
	•	•		•		•	 , -

Notes to the Condensed Interim Consolidated Financial Statements

For the three and six-month periods ended September 30, 2017

(Unaudited)

Investments Equities Canada Public equities Private equities Foreign developed markets Public equities¹ Private equities Emerging markets Public equities¹ Private equities¹ Private equities¹	\$ 4,703 - 4,703 71,487 - 71,487	1,	-	Level 3 \$ - 3,646 3,646	\$ Total 4,703 3,646
Equities Canada Public equities Private equities Foreign developed markets Public equities¹ Private equities Emerging markets Public equities¹ Private equities¹	- 4,703 71,487 - 71,487	7, 1,	- - 211	3,646 3,646	\$ •
Canada Public equities Private equities Foreign developed markets Public equities¹ Private equities Emerging markets Public equities¹ Private equities¹	- 4,703 71,487 - 71,487	7, 1,	- - 211	3,646 3,646	\$ •
Public equities Private equities Foreign developed markets Public equities¹ Private equities Emerging markets Public equities¹ Private equities¹	- 4,703 71,487 - 71,487	7, 1,	- - 211	3,646 3,646	\$ •
Private equities Foreign developed markets Public equities¹ Private equities Emerging markets Public equities¹ Private equities¹	- 4,703 71,487 - 71,487	7, 1,	- - 211	3,646 3,646	\$ •
Foreign developed markets Public equities¹ Private equities Emerging markets Public equities¹ Private equities	71,487	1,	211	3,646	 3,646
Public equities ¹ Private equities Emerging markets Public equities ¹ Private equities	71,487	1,	211	•	
Public equities ¹ Private equities Emerging markets Public equities ¹ Private equities	71,487	1,		100	8,349
Private equities Emerging markets Public equities¹ Private equities	71,487	1,		100	
Emerging markets Public equities¹ Private equities	, - <u> </u>		245		78,798
Public equities ¹ Private equities	, - <u> </u>	8.		51,395	 52,640
Public equities ¹ Private equities	13,563	٥,	456	51,495	 131,438
Private equities	13,563				
		1,	592	200	15,355
Total equities	-		1	5,025	 5,026
Total equities	13,563	1,	593	5,225	 20,381
Total equities	89,753	10,	049	60,366	160,168
Fixed income					
Bonds	40,602	28,	515	_	69,117
Other debt ³	-		752	22,411	27,163
Money market securities	-	20,	972	-	20,972
Total fixed income	40,602	54,	239	22,411	117,252
Absolute return strategies ¹	-	16,	548	1,406	17,954
Real assets					
Real estate	-		-	37,164	37,164
Infrastructure	-		-	21,813	21,813
Total real assets	-		-	58,977	 58,977
Investment receivables					
Securities purchased under reverse repurchase agreements	-	15.	339	-	15,339
Accrued interest	-		459	-	1,459
Derivative receivables	19		686	1	2,706
Other	-		219	-	219
Total investment receivables	19	19,	703	1	19,723
Total investments	\$ 130,374	\$ 100,	539	\$ 143,161	\$ 377,074
Investment liabilities					
Securities sold under repurchase agreements	-	(21,	614)	-	(21,614
Securities sold short	(30,449)	` '	-	-	(30,449
Debt financing liabilities	(6,068)	(9,	776)	-	(15,844
Derivative liabilities	(1)		004)	-	(2,005
Other	<u> </u>		-	-	
Total investment liabilities	(36,518)	(33,	394)		(69,912
Amounts receivable from pending trades	-	5,	219	-	5,219
Amounts payable from pending trades	=		701)		 (8,701
Net investments	\$ 93,856	\$ 63,			\$

¹ Includes investments in funds.

² Certain comparatives have been updated to be consistent with current period presentation.

³ Amounts have been revised for an immaterial misclassification from level 2 to level 3 totaling \$4.2 billion as at March 31, 2017 and \$3.7 billion as at September 30, 2016.

Notes to the Condensed Interim Consolidated Financial Statements

For the three and six-month periods ended September 30, 2017 (Unaudited)

a) Transfers between Level 1 and Level 2

During the six-month period ended September 30, 2017, there were \$7 million of transfers from Level 1 to Level 2 (September 30, 2016 - \$128 million) and \$16 million of transfers from Level 2 to Level 1 (September 30, 2016 - \$155 million). Transfers between Level 1 and Level 2 depend on the availability of quoted market prices in active markets and valuations using inputs other than quoted prices that are observable. These transfers are deemed to have occurred at the end of period values.

b) Level 3 reconciliation

The following presents the reconciliations for investments included in Level 3 of the fair value hierarchy:

Reconciliation of changes in fair value for Level 3 investments

			F	or the s	ix-m	onth peri	od e	ended Septe	eml	ber 30, 201	7					
(CAD millions)		air value s at April 1, 2017	Gair included	n (loss) I in net stment		ırchases		Sales ²		Transfers into level 3 ³	Tr	ansfers out of level 3 ³		air value as at ptember 30, 2017	on	Change in unrealized gains (losses) investments still held t September 30, 2017 ^{1,4}
Investments																
Equities																
Canada	\$	4.020		(424)	,	60	,	(4.40)	,		,		,	2.020	_	(4.45)
Private equities	7	4,030	\$	(121)	\$	69	\$	(148)	\$		\$		\$	3,830	\$	(145)
Foreign developed markets		4,030		(121)		69		(148)		-				3,830		(145)
Public Equities		76		4		-		(2)		-		-		78		4
Private equities		53,766		1,283		7,392		(6,337)		-		(1,400)		54,704		(260)
		53,842		1,287		7,392		(6,339)		-		(1,400)		54,782		(256)
Emerging markets																
Public equities		153		24		-		(15)		-		-		162		24
Private equities		5,781		172		1,669		(522)		9		(4)		7,105		(111)
		5,934		196		1,669		(537)		9		(4)		7,267		(87)
Total equities		63,806		1,362		9,130		(7,024)		9		(1,404)		65,879		(488)
Fixed income		-		-		•										•
Other debt ⁵		15,728		(641)		4,203		(3,358)		_		_		15,932		(779)
Total fixed income		15,728		(641)		4,203		(3,358)		-		-		15,932		(779)
Absolute return				(- /		,		(=,===,								\
strategies		1,536		(51)		15		-		-		-		1,500		(51)
Real assets																
Real estate		38,732		(345)		1,976		(894)		-		-		39,469		(626)
Infrastructure		27,899		(550)		69		(169)		-		-		27,249		(488)
Total real assets		66,631		(895)		2,045		(1,063)		-		-		66,718		(1,114)
Investment																
receivables																
Derivative																
receivables Total investment		1		-		-		-		-		-		1		-
receivables		1		_		_		_		_		_		1		_
Total	\$	147,702	Ġ	(225)	\$	15,393	\$	(11,445)	\$	9	\$	(1,404)	\$	150,030	\$	(2,432)
Iotal	Ą	147,702	ب	(443)	Ą	13,333	Ą	(11,443)	ڔ	9	Ą	(1,404)	Ą	130,030	ڔ	(2,432)

Notes to the Condensed Interim Consolidated Financial Statements

For the three and six-month periods ended September 30, 2017 (Unaudited)

			Fo	r the si	x-mc	nth perio	od ei	nded Septe	emb	er 30, 201	6					
(CAD millions)		value as April 1, 2016	included	tment	Pu	ırchases		Sales ²		Transfers o level 3 ³	Т	ransfers out of level 3 ³		Fair value as at eptember 30, 2016	on i	Change in unrealized ains (losses) nvestments still held September 30, 2016 ^{1,4}
Investments																
Equities																
Canada	.	2.607	<u> </u>	422	,	007	,	(64)	4		,		,	2.646		440
Private equities	\$	2,687	\$	133	\$	887	\$	(61)	\$	-	\$	-	\$	3,646	\$	118
Foreign developed markets		2,687		133		887		(61)		-		-		3,646		118
Public equities		-		2		98		-		-		-		100		2
Private equities		49,019	2	2,674		5,552		(4,637)		22		(1,235)		51,395		315
		49,019	2	2,676		5,650		(4,637)		22		(1,235)		51,495		317
Emerging markets																
Public equities		170		30		-		-		-		-		200		30
Private equities		5,341		413		532		(597)		1		(665)		5,025		191
		5,511		443		532		(597)		1		(665)		5,225		221
Total equities		57,217	3	3,252		7,069		(5,295)		23		(1,900)		60,366		656
Fixed income																
Other debt ⁶		21,827		863		5,392		(5,415)		-		(256)		22,411		596
Total fixed income		21,827		863		5,392		(5,415)		-		(256)		22,411		596
Absolute return strategies		1,314		92		-		-		-		-		1,406		92
Real assets																
Real estate		35,857		660		2,205		(1,558)		-		-		37,164		384
Infrastructure		20,373		(183)		58		(123)		1,688		-		21,813		120
Total real assets		56,230		477		2,263		(1,681)		1,688		-		58,977		504
Investment receivables Derivative																
receivables		2		(1)		-		_		_		_		1		(1)
Total investment receivables		2		(1)		-		-		-		_		1		(1)
Total	\$ 1	136,590	\$ 4	4,683	\$	14,724	\$	(12,391)	\$	1,711	\$	(2,156)	\$	143,161	\$	1,847

¹ Included in Investment income.

During the six-month periods ended September 30, 2017 and September 30, 2016, transfers into and out of Level 3 were primarily due to changes in the availability of market observable inputs used to determine fair value.

² Includes return of capital.

³ Transfers into and out of Level 3 are deemed to have occurred at the end of period values.

⁴ Includes the entire change in fair value for the period for those investments that were transferred into Level 3 during the period, and excludes the entire change in fair value for the period for those investments that were transferred out of Level 3 during the period.

⁵ Opening balance has been revised for an immaterial misclassification from level 2 to level 3.

 $^{^{\}rm 6}$ Amounts have been revised for an immaterial misclassification from level 2 to level 3.

Notes to the Condensed Interim Consolidated Financial Statements

For the three and six-month periods ended September 30, 2017 (Unaudited)

c) Level 3 – Significant unobservable inputs

The following presents fair values of the investments categorized within Level 3 of the fair value hierarchy, valuation techniques used to determine their fair values, ranges and weighted averages of unobservable inputs:

Valuation techniques and inputs used in the fair value measurement of Level 3 investments

		As at Septembe	r 30, 2017		
(CAD millions)	Fair value	Primary valuation techniques used	Significant unobservable inputs	Range of input values ³	Weighted average ³
Public equities					
Fund investments ²	\$ 240	Net asset value provided by Investment Manager	-	-	-
Private equities					
Direct ^{1,2}	28,628	Earnings multiples of comparable companies	EBITDA multiple	8.0x-15.4x	11.3x
		Discounted cash flow	Discount rate	12.0%-12.9%	12.1%
		Value provided by Investment Manager	-	-	-
Fund investments ²	37,011	Net asset value provided by Investment Manager	-	-	-
Other debt					
Direct private debt1	9,819	Discounted cash flow	Discount rate	5.0%-22.6%	10.3%
Direct private real estate debt	4,042	Discounted cash flow	Discount rate	4.7%-9.6%	6.7%
Asset-backed securities ²	4	Valuation model by third- party pricing vendor	-	-	-
Fund investments ²	2,067	Net asset value provided by Investment Manager	-	-	-
Absolute return strategies					
Fund investments ²	1,500	Net asset value provided by Investment Manager	-	-	-
Real estate					
Direct ^{1,2}	20,987	Discounted cash flow	Discount rate	5.0%-15.0%	6.4%
			Terminal capitalization rate	3.5%-9.5%	5.2%
	15,411	Net asset value provided by Investment Manager	-	-	-
Fund investments ²	3,071	Net asset value provided by Investment Manager	-	-	-
Infrastructure					
Direct ¹	27,203	Discounted cash flow	Discount rate	7.4%-12.2%	9.6%
Fund investments ²	46	Net asset value provided by Investment Manager	-	-	-
Derivative receivables					
Warrants	1	Option model	Market volatility	30.0%	30.0%
Total	\$ 150,030				

Notes to the Condensed Interim Consolidated Financial Statements

For the three and six-month periods ended September 30, 2017

(Unaudited)

		As at March	n 31, 2017		
		Primary valuation	Significant	Range of input	Weighted
(CAD millions)	Fair value	techniques used	unobservable inputs	values ³	average ³
Public equities					
Fund investments ²	\$ 229	Net asset value provided by Investment Manager	-	-	-
Private equities					
Direct ^{1,2}	28,721	Earnings multiples of comparable companies	EBITDA multiple	8.0X-15.4X	11.2X
		Discounted cash flow	Discount rate	12.0%	12.0%
		Value provided by Investment Manager	-	-	-
Fund investments ²	34,856	Net asset value provided by Investment Manager	-	-	-
Other debt					
Direct private debt1	9,485	Discounted cash flow	Discount rate	4.8%-19.6%	10.7%
Direct private real estate debt ⁴	3,937	Discounted cash flow	Discount rate	5.0%-10.0%	7.1%
Asset-backed securities ²	10	Valuation model by third- party pricing vendor	-	-	-
Fund investments ^{2,4}	2,296	Net asset value provided by Investment Manager	-	-	-
Absolute return strategies					
Fund investments ²	1,536	Net asset value provided by Investment Manager	-	-	-
Real estate					
Direct ^{1,2}	21,010	Discounted cash flow	Discount rate	4.4%-14.3%	6.4%
			Terminal capitalization rate	3.5%-9.5%	5.3%
	14,440	Net asset value provided by Investment Manager	-	-	-
Fund investments ²	3,282	Net asset value provided by Investment Manager	-	-	-
Infrastructure					
Direct ¹	27,860	Discounted cash flow	Discount rate	7.4%-15.8%	9.8%
Fund investments ²	39	Net asset value provided by Investment Manager	-	-	-
Derivative receivables					
Warrants	1	Option model	Market volatility	30.0%	30.0%
Total	\$ 147,702				

Notes to the Condensed Interim Consolidated Financial Statements

For the three and six-month periods ended September 30, 2017 (Unaudited)

			As at Septem		- · · ·	
(CAD millions)	Fair	value	Primary valuation techniques used	Significant unobservable inputs	Range of input values ³	Weighted average ³
(CAD IIIIIIIOIIS)	ı alı	value	teciniques useu	unobservable inputs	values	average
Public equities						
Fund investments ²	\$	300	Net asset value provided by Investment Manager	-	-	-
Private equities						
Direct ^{1,2}	2	7,822	Earnings multiples of comparable companies	EBITDA multiple	6.8X-13.2X	11.1X
			Discounted cash flow	Discount rate	9.5%-27.6%	12.5%
			Value provided by Investment Manager	-	-	-
Fund investments ²	32	2,244	Net asset value provided by Investment Manager	-	-	-
Other debt						
Direct private debt1	10	0,436	Discounted cash flow	Discount rate	4.4%-30.9%	10.0%
Direct private real estate debt ⁴	:	3,412	Discounted cash flow	Discount rate	4.7%-9.2%	6.9%
Asset-backed securities ²	(6,281	Valuation model by third- party pricing vendor	-	-	-
Fund investments ^{2,4}	:	2,282	Net asset value provided by Investment Manager	-	-	-
Absolute return strategies						
Fund investments ²	:	1,406	Net asset value provided by Investment Manager	-	-	-
Real estate						
Direct ^{1,2}	23	3,432	Discounted cash flow	Discount rate	3.3%-14.8%	6.3%
				Terminal capitalization rate	3.5%-14.6%	5.2%
	10	0,202	Net asset value provided by Investment Manager	-	-	-
Fund investments ²	:	3,530	Net asset value provided by Investment Manager	-	-	-
Infrastructure						
Direct ¹	2:	1,774	Discounted cash flow	Discount rate	7.5%-15.8%	10.1%
Fund investments ²		39	Net asset value provided by Investment Manager	-	-	-
Derivative receivables						
Warrants		1	Option model	Market volatility	30.0%	30.0%
Total	\$ 143	3,161				

 $^{^{\, 1}}$ May include certain recently acquired investments held at cost, which approximates fair value.

² In certain cases, external valuations are prepared by a third-party and hence, valuation information is not available.

³ The range of input values represents the highest and lowest inputs used to value the investments in a particular asset class. The weighted average of the input values is calculated based on the relative fair values of the investments within the asset class. The diversity of investments reported within each asset class, such as the geographic location and industry sector of the investments, may result in certain ranges of inputs being wide and unevenly distributed across the range.

⁴ Amounts have been revised for an immaterial misclassification from level 2 to level 3.

Notes to the Condensed Interim Consolidated Financial Statements

For the three and six-month periods ended September 30, 2017 (Unaudited)

Significant increases (decreases) in any of the above unobservable inputs would result in a significantly higher or lower fair value measurement. The interrelationship of significant unobservable inputs and fair value measurement for the most significant key inputs identified in the table above are as follows:

- An increase (decrease) in the EBITDA multiple will result in a higher (lower) fair value.
- An increase (decrease) in the discount rate and terminal capitalization rate will result in a lower (higher) fair value.

The fair value of these direct investments classified within Level 3 of the fair value hierarchy above are based on accepted industry valuation methods that may include the use of estimates made by management, appraisers or both where significant judgment is required. By using valuation methods based on reasonable alternative assumptions, different fair values could result. With all other variables held constant the use of reasonable alternative assumptions would result in a decrease of \$3,200 million (March 31, 2017 - \$3,400 million, September 30, 2016 - \$3,300 million) or increase of \$3,800 million (March 31, 2017 - \$3,800 million, September 30, 2016 - \$3,700 million) in net assets. This sensitivity analysis excludes investments where fair values are provided by Investment Managers as the underlying assumptions used are not available to CPP Investment Board.

5. Investment risk management

CPP Investment Board and its unconsolidated investment holding companies manage the investment portfolio on behalf of the Canada Pension Plan (CPP Investment Portfolio). The CPP Investment Portfolio is exposed to a variety of financial risks. These risks include market risk, credit risk and liquidity risk. CPP Investment Board utilizes a total portfolio approach to risk management which considers all of the investment activities taken together, including those made through its unconsolidated investment holding companies. In the discussion that follows, any references to the investment activities and exposures to risk of CPP Investment Board also include those of its unconsolidated investment holding companies.

CPP Investment Board manages and mitigates financial risks through the Risk Policy approved by the Board of Directors at least once every fiscal year. This policy contains risk limits and risk management provisions that govern investment decisions. It has been designed to achieve the mandate of CPP Investment Board, which is to invest its assets with a view to achieving a maximum rate of return, without undue risk of loss, having regard to the factors that may affect the funding of the CPP and the ability of the CPP to meet its financial obligations on any given business day.

Upper and Lower Absolute Risk Limits and the Absolute Risk Operating Range (AROR) are included within the Risk Policy, and these govern the amount of total investment risk that CPP Investment Board can take in the long term CPP Investment Portfolio. CPP Investment Board monitors the absolute risk, the possible loss of value expressed in absolute dollar and percentage terms, in the CPP Investment Portfolio daily and reports risk exposures to the Board of Directors on at least a quarterly basis. Risk targeting for the Investment Portfolio, and compliance with the Upper/Lower Risk Limits and AROR is assessed using an equity/debt risk equivalence ratio. Financial risk management, as well as the latest broader Risk/Return Accountability Framework, is discussed in greater detail on page 31 of the 2017 Annual Report.

a) Market risk

Market risk is the risk that the fair value or future cash flows of an investment or investment liability will fluctuate because of changes in market prices and rates. As discussed previously, CPP Investment Board manages market risk through the Risk/Return Accountability Framework. This includes investing across a wide spectrum of asset classes and investment strategies to earn a diversified set of risk premiums at the

Notes to the Condensed Interim Consolidated Financial Statements

For the three and six-month periods ended September 30, 2017 (Unaudited)

total fund level, based on risk limits established in the risk policies. In addition, derivatives are used, where appropriate, to manage certain risk exposures.

Market risk comprises the following:

Equity risk

The CPP Investment Portfolio invests in both publicly traded and private equities. Equity risk, which is the risk that the fair value or future cash flows will fluctuate because of changes in equity prices, is a significant source of risk of the investment portfolio.

After taking into account derivative positions and with all other variables held constant, a 1% decrease/increase in the S&P 500 Index would result in a loss/profit of \$1,100 million (March 31, 2017 - \$1,000 million, September 30, 2016 - \$869 million) on public equity investments. This calculation assumes that equities other than the S&P 500 Index would move in accordance with their historical behaviour conditional on a 1% decrease/increase in the S&P 500 Index.

Currency risk

The CPP Investment Portfolio is exposed to currency risk through holdings of investments or investment liabilities in various currencies. Fluctuations in the relative value of foreign currencies against the Canadian dollar can result in a positive or negative effect on the fair value or future cash flows of these investments and investment liabilities.

In Canadian dollars, the net currency exposures, after allocating foreign currency derivatives are as follows:

Currency risk exposures

(CAD millions)	As at	September 30), 2017		As at March 3	31, 2017		As	at September 3	30, 2016	
		Net	% of		Net	% of			Net	% of	
Currency		exposure	total		exposure	total			exposure	total	
United States dollar	\$	129,222	39	%	\$ 122,750	39	%	\$	116,656	39	%
Euro		37,377	12		34,003	11			32,867	11	
British pound sterling		19,820	6		18,839	6			17,005	6	
Japanese yen		17,533	5		20,788	7			20,986	7	
Australian dollar		10,260	3		10,790	3			8,981	3	
Hong Kong dollar		5,598	2		4,423	1			3,562	1	
Chinese yuan		4,371	1		3,434	1			3,079	1	
Indian rupee		4,225	1		3,586	1			3,031	1	
Swiss franc		3,635	1		4,381	1			2,770	1	
South Korean won		3,605	1		2,857	1			1,976	1	
Brazilian real		2,441	1		3,425	1			3,460	1	
Chilean peso		2,340	1		2,387	1			2,677	1	
Other		10,360	3		8,424	3			8,282	3	
Total foreign exposure		250,787	76		 240,087	76			225,332	76	
Canadian dollar		77,322	24		76,793	24			75,182	24	
Total	\$	328,109	100	%	\$ 316,880	100	%	\$	300,514	100	%

Notes to the Condensed Interim Consolidated Financial Statements

For the three and six-month periods ended September 30, 2017 (Unaudited)

With all other variables and underlying values held constant, a 1% appreciation/depreciation of the Canadian dollar against all other currencies would result in a decrease/increase in net investments as follows:

Currency risk sensitivity

(CAD millions)	As at Sept	ember 30, 2017	As at March 31, 2017	As	at September 30, 2016
	Decre	ase/Increase in	Decrease/Increase in		Decrease/Increase in
Currency		Net Assets	Net Assets		Net Assets
United States dollar	\$	1,292	\$ 1,228	\$	1,167
Euro		374	340		329
British pound sterling		198	188		170
Japanese yen		175	208		210
Other		469	437		377
Total	\$	2,508	\$ 2,401	\$	2,253

Interest rate risk

Interest rate risk is the risk that the fair value or future cash flows of an investment or investment-related liability will fluctuate because of changes in market interest rates. The CPP Investment Portfolio is exposed to interest rate risk primarily through holdings of fixed income securities, certain investment liabilities and interest rate derivative instruments.

With all other variables held constant, a 1 basis point increase/decrease in nominal risk free rates would result in a decrease/increase in the value of investments directly impacted by interest rate changes as follows:

Interest rate risk sensitivity¹

(CAD millions)	As at September 30, 2017	As at March 31, 2017	As at September 30, 2016
Maturity	Decrease/Increase in Net Assets	Decrease/Increase in Net Assets	Decrease/Increase in Net Assets
Within 1 year	\$ -	\$ 1	\$ -
1 to 5 years	8	8	9
6 to 10 years	11	12	5
Over 10 years	35	31	32
Total	\$ 54	\$ 52	\$ 46

¹ This sensitivity only applies to small yield curve changes, more substantial (stress) shocks would impact the value of assets such as real estate and infrastructure but for 1 basis point moves their values remain unchanged.

The CPP Investment Portfolio's exposure to various country's risk free rates are concentrated in North America with 52% (March 31, 2017 – 56%, September 30, 2016 – 68%) in Canada and 49% (March 31, 2017 – 43%, September 30, 2016 - 31%) in the United States, and minor exposures to Europe, United Kingdom and Japan in both years.

Notes to the Condensed Interim Consolidated Financial Statements

For the three and six-month periods ended September 30, 2017 (Unaudited)

Credit spread risk

Credit spread is the difference in yield on certain securities compared to a comparable risk free security (i.e. government issued) with the same maturity date. Credit spread risk is the risk that the fair value of these securities will fluctuate because of changes in credit spread. As at September 30, 2017, 83% (March 31, 2017 - 84%, September 30, 2016 - 89%) of credit spread risk was in A or better rated debt, primarily in Canadian provincial bonds.

With all other variables held constant, a 1 basis point widening of the credit spreads would result in a decrease in net assets by \$31 million (March 31, 2017 – \$33 million, September 30, 2016 - \$39 million).

Other price risk

Other price risk is the risk that the fair value or future cash flows of an investment will fluctuate because of changes in market prices arising from other risk factors such as commodity price risk, basis risk and volatility.

b) Credit risk

Credit risk is the risk of financial loss due to a counterparty failing to meet its contractual obligations, or a reduction in the value of the assets due to a decline in the credit quality of the borrower, counterparty, guarantor or the assets (collateral) supporting the credit exposure. The CPP Investment Portfolio's credit risk exposure arises primarily through its investment in debt securities and over-the-counter derivatives. The carrying amounts of these investments as presented in the Condensed Interim Consolidated Schedule of Investment Portfolio represent the maximum direct credit risk exposure at the Balance Sheet date.

The fair value of debt securities and over-the-counter derivatives exposed to credit risk, by credit rating category and without taking account of any collateral held or other credit enhancements was as follows:

Credit risk exposures

						As	at					As at		As at
					Sept	embe	er 30, 2017				Ma	rch 31, 2017	Septen	nber 30, 2016
(CAD mil	lions)													
				Money	Reverse		Over-							
Credit				market	repurchase	the	e-counter			% of				
rating		Bonds ¹	se	curities1	agreements1	de	erivatives	Other ^{1,2}	Total	total		Total		Total
AAA	\$	10,538	\$	13	\$ -	\$	-	\$ -	\$ 10,551	12 %	\$	13,156	\$	17,965
AA		25,079		4,082	812		138	-	30,111	33		36,791		39,336
Α		22,875		4,663	7,267		1,662	453	36,920	40		33,831		41,879
BBB		1,031		-	902		290	1,624	3,847	4		3,826		10,818
ВВ		187		-	-		-	3,156	3,343	4		3,047		3,808
В		-		-	-		-	5,577	5,577	6		5,718		6,143
CCC/D		-		-	-		-	847	847	1		1,061		2,541
Total	\$	59,710	\$	8,758	\$ 8,981	\$	2,090	\$ 11,657	\$ 91,196	100 %	\$	97,430	\$	122,490

Includes accrued interest.

² Includes direct investments in private debt and asset-backed securities.

Notes to the Condensed Interim Consolidated Financial Statements

For the three and six-month periods ended September 30, 2017 (Unaudited)

In addition to the above, the CPP Investment Portfolio is indirectly exposed to credit risk on the underlying securities of fund investments.

Credit risk exposure is mitigated on certain financial assets and financial liabilities, which have conditional offset rights in the event of default, insolvency or bankruptcy. For securities purchased under reverse repurchase agreements, securities sold under repurchase agreements and over-the-counter derivatives, collateral is collected from or pledged to counterparties to manage credit exposure (see note 7). In addition, in the event of default, amounts with a specific counterparty are settled on a net basis under master netting or similar arrangements, such as the Global Master Repurchase Agreement and the International Swaps and Derivatives Association Netting Agreements.

Credit Risk for the CPP Investment portfolio is estimated using a Monte Carlo simulation that incorporates likelihood of default, credit rating migration and recovery in the event of default for underlying credit instruments. The primary risk measure used to monitor credit risk at the total portfolio level is Value at Risk (VaR) over a one year period at a 99% level of confidence. As at September 30, 2017, Credit VaR was \$3.7 billion (March 31, 2017 - \$4.0 billion, September 30, 2016 - \$4.5 billion) which implies there is a 1% chance that the CPPIB portfolio of credit instruments will lose more than this amount in any given year due to default and credit migration risk.

c) Absolute risk

CPP Investment Board adopted a new risk model to estimate Absolute Risk within the CPP Investment Portfolio to better align with its long term investment mandate. The revised methodology was adopted for the second quarter of fiscal year 2018 as the main risk governance model. Notable changes included a longer historical period for calibration of model inputs, a longer future horizon over which risk is assessed, and a more conservative total portfolio risk measure used for governance.

CPP Investment Board uses a simulation methodology to derive a distribution of potential portfolio outcomes at a future point in time. These distributions are used to estimate a variety of risk measures to monitor the absolute risk of the CPP Investment Portfolio across various time periods. The primary risk governance measure within the Risk/Return Accountability Framework is expressed using an Equity/Debt risk equivalency Ratio (EDR). It is the proportion of equity versus debt in a simple two-asset-portfolio (Global Equity and Canadian Government Bonds) that would give the same measured absolute risk as that of the CPP Investment Portfolio. Absolute Risk for this purpose is defined as the Conditional Value at Risk (CVaR), after inflation, at the 90th percentile expressed over a five-year horizon and encompasses both market and credit risks.

The Absolute Risk measure, CVaR, is based on the average of the worst ten percent outcomes in the simulated return distribution over a five-year period. It captures the impact of extreme market events that would lead to large losses within the CPP Investment Portfolio.

The methodology employed to calculate CVaR assumes that historical market data is a sound basis for estimating potential future losses but it allows for the incorporation of forward-looking return expectations. If future market conditions and interrelationships of equity markets, interest rates, foreign exchange rates and other market prices differ significantly from those of the past, then the actual losses could materially differ from those estimated. To ensure a variety of business cycles and market conditions are captured within the risk model, a long historical data period (1971-current) is used in simulating the distribution of potential outcomes. The CVaR measure provides an estimate of the average value in this distribution of potential losses that CPP Investment Portfolio could experience. It is not an estimate of the worst-case scenario.

Notes to the Condensed Interim Consolidated Financial Statements

For the three and six-month periods ended September 30, 2017 (Unaudited)

As at September 30, 2017 the CVaR of the CPP Investment Portfolio was \$69.4 billion (March 31, 2017 - \$64.6 billion, September 30, 2016 - \$58.7 billion) with an associated EDR of 85% (March 31, 2017- 83%, September 30, 2016 – 79%). Note that the CVaR measure necessitates an estimate of mean expected returns on the CPP Investment Portfolio over the upcoming five years. The above CVaR estimate is strongly influenced by equity returns realized throughout the historical data period used within the risk model. As forward-looking expectations are further considered within the modeling process the CVaR value may move materially as the mean return estimates change through time. Changes in EDR will also occur, but likely smaller in magnitude.

Stress testing

To complement the suite of risk measures used to monitor CPP Investment Portfolio risk, CPP Investment Board further examines the potential impact of exceptional but plausible adverse market events. Stress scenarios are based upon either forward-looking predictive views on events of imminent concern, such as the Brexit, or designed to mimic market moves from periods of historical distress, such as the Global Financial Crisis. A committee with representatives from each investment department meets regularly to identify probable market disruptions and to review underlying assumptions adopted in quantifying the impact of the specific stress scenario. Results are used to detect vulnerabilities in the portfolio and presented to senior management and the Board to affirm overall risk appetite.

d) Liquidity risk

Liquidity risk is the risk of being unable to generate sufficient cash or its equivalent in a timely and costeffective manner to meet investment commitments and investment liabilities as they come due. CPP Investment Board supplements its management of liquidity risk through its ability to raise funds through the issuance of commercial paper and term debt and transacting in securities sold under repurchase agreements.

CPP Investment Board also maintained \$5.9 billion (March 31, 2017 - \$6.2 billion, September 30, 2016 - \$1.5 billion) of unsecured credit facilities to meet potential liquidity requirements. There were no credit facilities drawn as at September 30, 2017 (March 31, 2017 - \$nil, September 30, 2016 - \$nil).

Refer to note 5e for investment liabilities terms to maturity.

Notes to the Condensed Interim Consolidated Financial Statements

For the three and six-month periods ended September 30, 2017 (Unaudited)

e) Terms to maturity

The tables below present the contractual maturities of investments and investment liabilities:

Investments

									Terms to ma	aturi	ity					
				Septer	As nbei	at · 30, 2017						Marc	As at ch 31, 2017		Septen	As at onber 30, 2016
(CAD millions)	Within 1 year		1 to 5 years	6 to 1 yea		Over 10 years	T	otal¹	Average effective yield			Total ¹	Average effective yield		Total ¹	Average effective yield
Non-marketable bonds Canadian provincial government	\$ 81	\$	5,775	\$ 5,62	9 \$	11,818	\$ 23	,303	3.1	%	\$	23,887	2.9	% \$	25,262	2.4 %
Marketable bonds																
Government of Canada Canadian provincial	-		2,742	54	8	1,092	4	,382	2.2			5,872	1.6		4,522	1.0
government Canadian government	-		1,461	1,65		2,633		,746	3.1			6,856	2.8		6,543	2.3
corporations	-		792	48	6	379	1	,657	2.7			1,543	2.4		2,072	2.1
Foreign government	245		14,312	3,33	2	4,480	22	,369	2.5			22,718	2.3		27,465	1.6
Corporate bonds	-		-		-	1,738	1	,738	3.1			364	2.6		3,253	1.8
Other debt																
Private debt ¹	104		3,766	3,51	6	685	8	,071	9.1			8,214	9.7		9,581	10.0
Private real estate debt ²	302		1,952	1,78	8	-	4	,042	6.8			3,937	7.2		3,412	6.6
Asset-backed securities Securities purchased under reverse repurchase	-		3		-	5		8	4.3			10	4.4		6,281	1.7
agreements	8,981		-		-	-	8	,981	0.9			5,207	0.6		15,339	0.5
Total	\$ 9,713	Ś	30,803	\$ 16,95	1 9	22,830	\$ 80	.297	3.3	%	\$	78,608	3.1	% \$	103,730	2.4 %

Represents fair value.

Investment liabilities

							Terms	to maturity					
			As at Se	eptember 3	30, 2017			As	at March	31, 2017	As at	Septembe	er 30, 2016
						1	Neighted		,	Weighted			Weighted
							average			average			average
	Within	1 to 5	6 to 10	Over 10		Fair	interest		Fair	interest		Fair	interest
(CAD millions)	1 year	years	years	years	Total ¹	value	rate	Total ¹	value	rate	Total ¹	value	rate
Securities sold under repurchase													
agreements Securities sold	\$ 19,264 \$	\$ - \$	- 5	- :	\$ 19,264	\$ 19,198	1.4 9	6 \$ 14,753 \$	14,749	0.8 % \$	21,606 \$	21,614	0.7 %
short ^{2,3} Debt financing liabilities Commercial	13,425	-	-	-	13,425	13,425	n/a	24,177	24,177	n/a	30,449	30,449	n/a
paper payable	11,927	-	-	-	11,927	11,900	1.3	11,120	11,101	0.9	9,786	9,775	0.7
Term debt Total	\$ 44,616	\$,486 \$ 8,486	2,957 \$ 2,957	-	\$ 56,059	\$ 55,923	1.2 n/a 9	8,783 6 \$ 58,833 \$	8,772 58,799	1.8 n/a % \$	6,037 67,878 \$	6,069 67,907	1.1 n/a %

¹ Represents contractual amounts.

² Represents direct investments.

² Considered repayable within one year based on the earliest period in which the counterparty could request payment under certain conditions.

³ Includes equities sold short for which the average interest rate is not applicable.

Notes to the Condensed Interim Consolidated Financial Statements

For the three and six-month periods ended September 30, 2017 (Unaudited)

6. Net investment income

Net investment income is reported net of transaction costs and investment management fees, and is grouped based on the Strategic Portfolio asset class categories as discussed on page 28 of the 2017 Annual Report.

Net investment income

	For the three-month period ended September 30, 2017											
(CAD millions)	Investment income (loss) ¹		Investment management fees ²		Transaction costs		Net investment income (loss)					
Equities	\$ 3,128	\$	(97)	\$	(18)	\$	3,013					
Fixed Income	(954)		(255)		(29)		(1,238)					
Real assets	382		(30)		(19)		333					
Debt financing liabilities	430		-		-		430					
Total	\$ 2,986	\$	(382)	\$	(66)	\$	2,538					

		For	the three-month period en	ded	September 30, 2016 ⁴	
(CAD millions)	Investment income (loss) ¹		Investment management fees²		Transaction costs	Net investment income (loss)
Equities	\$ 10,344	\$	(141)	\$	(76)	\$ 10,127
Fixed income	2,090		(150)		(37)	1,903
Real assets	2,079		(40)		(35)	2,004
Debt financing liabilities	(152)		-		(3)	(155)
Total	\$ 14,361	\$	(331)	\$	(151)	\$ 13,879

(CAD millions)	For the six-month period ended September 30, 2017										
	Investment income (loss) ¹		Investment management fees ³		Transaction costs		Net investment income (loss)				
Equities	\$ 7,709	\$	(328)	\$	(77)	\$	7,304				
Fixed Income	1,143		(414)		(65)		664				
Real assets	(38)		(63)		(31)		(132)				
Debt financing liabilities	712		-		-		712				
Total	\$ 9,526	\$	(805)	\$	(173)	\$	8,548				

	For the six-month period ended September 30, 2016 ⁴									
(CAD millions)	Investment income (loss) ¹		Investment management fees ³		Transaction costs		Net investment income (loss)			
Equities	\$ 12,273	\$	(263)	\$	(98)	\$	11,912			
Fixed income	4,753		(275)		(75)		4,403			
Real assets	2,247		(72)		(64)		2,111			
Debt financing liabilities	(230)		-		(6)		(236)			
Total	\$ 19,043	\$	(610)	\$	(243)	\$	18,190			

¹ Includes realized gains and losses from investments, changes in unrealized gains and losses on investments, interest income, dividends, private real estate operating income (net of interest expense), interest expense on the debt financing liabilities and other investment-related income and expenses

² Includes performance fees of \$108 million (September 30, 2016 - \$62 million).

³ Includes performance fees of \$297 million (September 30, 2016 - \$150 million).

⁴ Certain comparative figures have been updated to be consistent with current period presentation.

Notes to the Condensed Interim Consolidated Financial Statements

For the three and six-month periods ended September 30, 2017 (Unaudited)

7. Collateral

Collateral transactions are conducted to support investment activities under terms and conditions that are common and customary to collateral arrangements. The net fair value of collateral held and pledged was as follows:

Collateral held and pledged

		As at	As at	As at
(CAD millions)		September 30, 2017	March 31, 2017	September 30, 2016
Assets held as collateral on:				
Reverse repurchase agreements ¹	\$	8,987	\$ 5,196	\$ 15,189
Over-the-counter derivative transactions ¹		648	493	454
Other debt ¹		681	726	1,095
Assets pledged as collateral on:				
Repurchase agreements		(19,192)	(14,785)	(21,564)
Securities sold short		(12,665)	(27,575)	(26,497)
Over-the-counter derivative transactions		(313)	-	-
Private equities		(5,194)	(5,291)	(5,988)
Other debt		(3,923)	(3,957)	(3,843)
Total	\$	(30,971)	\$ (45,193)	\$ (41,154)

¹ The fair value of the collateral held that may be sold or repledged as at September 30, 2017 was \$9,792 million (March 31, 2017 - \$6,192 million, September 30, 2016 - \$16,571 million). The fair value of collateral sold or repledged as at September 30, 2017 was \$3,710 million (March 31, 2017 - \$2,677 million, September 30, 2016 - \$6,810 million).

8. Commitments

CPP Investment Board has entered into commitments related to the funding of investments. These commitments are generally payable on demand based on the funding needs of the investment subject to the terms and conditions of each agreement. As at September 30, 2017, the commitments totalled \$39.4 billion (March 31, 2017 - \$38.9 billion, September 30, 2016 - \$38.5 billion).

CPP Investment Board made lease and other commitments, which require future annual payments as follows:

Lease and other commitments

		As at	As at		As at
(CAD millions)	September 30, 2017		March 31, 2017	September 30, 2016	
Within one year	\$	31	\$ 37	\$	30
After one year but not more than five years		118	123		97
More than five years		35	46		48
Total	\$	184	\$ 206	\$	175

Notes to the Condensed Interim Consolidated Financial Statements For the three and six-month periods ended September 30, 2017

(Unaudited)

9. Related party transactions

Related parties of CPP Investment Board include unconsolidated subsidiaries, joint ventures and associates and all related party investments are measured at fair value. Investments in joint ventures are those arrangements where CPP Investment Board has joint control. An associate is an entity which CPP Investment Board has the ability to exercise significant influence over decision making.

Related party transactions consist of investments and investment income primarily in private equities, debt, real estate and infrastructure and are presented in detail in the Condensed Interim Consolidated Schedule of Investment Portfolio. Related party transactions are measured at fair value and will therefore have the same impact on net assets and net investment income as those investment transactions with unrelated parties.

Related party transactions with consolidated subsidiaries are eliminated upon consolidation.

10. Guarantees

As part of certain investment transactions, CPP Investment Board agreed to guarantee, as at September 30, 2017, up to \$2.6 billion (March 31, 2017 - \$3.1 billion, September 30, 2016 - \$2.3 billion) to other counterparties in the event certain investee entities default under the terms of loan and other related agreements.