BANK OF MONTREAL /CAN/ Form FWP October 03, 2018

Registration Statement No. 333-217200

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Subject to Completion, dated October 2, 2018

Pricing Supplement to the Prospectus dated April 27, 2017, the Prospectus Supplement

dated September 23, 2018 and the Product Supplement dated May 1, 2017

Senior Medium-Term Notes, Series E

Bullish Digital Return Notes with Barrier due April 30, 2020

# Linked to the Lesser Performing of the Russell 2000® Index and the NASDAQ 100® Index

The notes are designed for investors who seek a fixed positive return equal to the Digital Return (as defined below) if a Barrier Event (as defined below) does not occur as to either the Russell 2000® Index or the NASDAQ 100® Index ·(each an "Underlying Asset"). Investors should be willing to forgo periodic interest, and if a Barrier Event occurs, be willing to lose 1% of their principal amount for each 1% that the value of the Lesser Performing Underlying Asset decreases.

A "Barrier Event" will occur if the closing level of either Underlying Asset on any trading day from the Pricing Date to the Valuation Date is less than its Barrier Level.

Investors in the notes may lose up to 100% of their principal amount at maturity.

The Digital Return is expected to be 12.50%. Accordingly, the maximum amount payable on the notes is expected to be \$1,125.00 for each \$1,000 in principal amount. The actual Digital Return will be determined on the Pricing Date.

Any payment at maturity is subject to the credit risk of Bank of Montreal.

The notes will not be listed on any securities exchange.

The notes will be issued in minimum denominations of \$1,000 and integral multiples of \$1,000.

The offering is expected to price on or about October 26, 2018, and the notes are expected to settle through the facilities of The Depository Trust Company on or about October 31, 2018.

The notes are scheduled to mature on or about April 30, 2020.

Our subsidiary, BMO Capital Markets Corp. ("BMOCM"), is the agent for this offering. See "Supplemental Plan of Distribution (Conflicts of Interest)" below.

The notes will not be subject to conversion into our common shares or the common shares of any of our affiliates under subsection 39.2(2.3) of the Canada Deposit Insurance Corporation Act (the "CDIC Act").

Investing in the notes involves risks, including those described in the "Selected Risk Considerations" section beginning on page P-5 of this pricing supplement, the "Additional Risk Factors Relating to the Notes" section beginning on page PS-5 of the product supplement, and the "Risk Factors" section beginning on page S-1 of the prospectus supplement and on page 8 of the prospectus.

Neither the Securities and Exchange Commission nor any state securities commission has approved or disapproved of these notes or passed upon the accuracy of this pricing supplement, the product supplement, the prospectus supplement or the prospectus. Any representation to the contrary is a criminal offense.

The notes will be our unsecured obligations and will not be savings accounts or deposits that are insured by the United States Federal Deposit Insurance Corporation, the Deposit Insurance Fund, the Canada Deposit Insurance Corporation or any other governmental agency or instrumentality or other entity.

On the date of this preliminary pricing supplement, based on the terms set forth above, the estimated initial value of the notes is \$975.90 per \$1,000 in principal amount. The estimated initial value of the notes on the Pricing Date may differ from this value but will not be less than \$960.00 per \$1,000 in principal amount. However, as discussed in more detail in this pricing supplement, the actual value of the notes at any time will reflect many factors and cannot be predicted with accuracy.

	Price to Public(1)	Agent's Commission(1)	Proceeds to Bank of Montreal
Per Note	US\$1,000	US\$6.00	US\$994.00
Total	US\$	US\$	US\$

<sup>(1)</sup> Certain dealers who purchase the notes for sale to certain fee-based advisory accounts may forego some or all of their selling concessions, fees or commissions. The public offering price for investors purchasing the notes in these accounts may be between \$994.00 and \$1,000 per \$1,000 in principal amount.

# **BMO CAPITAL MARKETS**

#### **Key Terms of the Notes:**

Underlying Assets:

The Russell 2000® Index or the "RTY" (ticker symbol: RTY) and the NASDAQ 160Index (Bloomberg symbol: NDX). See the section below entitled "The Underlying Assets" for additional information about the Underlying Assets.

(i) If a Barrier Event does not occur, then the amount that the investors will receive at maturity for each \$1,000 in principal amount of the notes will equal:

Payment at Maturity:

Principal Amount + (Principal Amount x Digital Return)

(ii) If a Barrier Event occurs, but the Final Level of the Lesser Performing Underlying Asset is greater than or equal to its Initial Level, then investors will receive the principal amount of the notes.

(iii) If a Barrier Event occurs, and the Percentage Change of either Underlying Asset is negative, then the payment at maturity will equal:

Principal Amount + (Principal Amount × Percentage Change of the Lesser Performing Underlying Asset)

*In this case, investors will lose all or a portion of the principal of the notes.* 

Digital Return: 12.50%

Initial Level: The respective closing level of each of the Underlying Assets on the Pricing Date.

Final Level: The respective closing level of each of the Underlying Assets on the Valuation Date.

Barrier Level: 70.00% of the respective Initial Level for each of the Underlying Assets.

Barrier Event: A Barrier Event will be deemed to occur with respect to an Underlying Asset if its closing level is less than its Barrier Level on any trading day during the Monitoring Period.

Monitoring Period:

The period from the Pricing Date to the Valuation Date.

Lesser Performing Underlying

The Underlying Asset that has the lowest Percentage Change.

Asset:

<u>Final Level – Initial Leve</u>l, expressed as a percentage. Initial Level Percentage

Change:

Pricing Date: On or about October 26, 2018.

Settlement Date:	On or about October 31, 2018, as determined on the Pricing Date.
Valuation Date:	On or about April 27, 2020, as determined on the Pricing Date.
Maturity Date:	On or about April 30, 2020, as determined on the Pricing Date.
Automatic Redemption	n: Not applicable
Calculation Agent:	BMOCM
Selling Agent:	BMOCM
CUSIP:	06367WDL4
Payoff Example	
Percentage Changes of	now the hypothetical payout profile of an investment in the notes based on hypothetical the Lesser Performing Underlying Asset, reflecting the Barrier Level of 70.00% and a Digital asse see the hypothetical returns section below for more detailed examples.
If a Barrier Event does	not occur:

If a Barrier Event <i>do</i>	es occur:			
* Your return on th Underlying Asset	ne notes will be determind	ed solely by the Percer	ntage Change of the Le	sser Performing
P-4				

#### **Additional Terms of the Notes**

You should read this pricing supplement together with the product supplement dated May 1, 2017, the prospectus supplement dated September 23, 2018 and the prospectus dated April 27, 2017. This pricing supplement, together with the documents listed below, contains the terms of the notes and supersedes all other prior or contemporaneous oral statements as well as any other written materials including preliminary or indicative pricing terms, correspondence, trade ideas, structures for implementation, sample structures, fact sheets, brochures or other educational materials of ours or the agent. You should carefully consider, among other things, the matters set forth in "Additional Risk Factors Relating to the Notes" in the product supplement, as the notes involve risks not associated with conventional debt securities. We urge you to consult your investment, legal, tax, accounting and other advisers before you invest in the notes.

You may access these documents on the SEC website at <u>www.sec.gov</u> as follows (or if such address has changed, by reviewing our filings for the relevant date on the SEC website):

- Product supplement dated May 1, 2017:
  - https://www.sec.gov/Archives/edgar/data/927971/000121465917002863/p427170424b5.htm
- Prospectus supplement dated September 23, 2018:
  - https://www.sec.gov/Archives/edgar/data/927971/000119312518280416/d624491d424b5.htm
- Prospectus dated April 27, 2017:
  - https://www.sec.gov/Archives/edgar/data/927971/000119312517142728/d254784d424b2.htm

Our Central Index Key, or CIK, on the SEC website is 927971. As used in this pricing supplement, "we," "us" or "our" refers to Bank of Montreal.

Please note that references in the product supplement to the prospectus supplement will be deemed to refer to the prospectus supplement dated September 23, 2018.

We have filed a registration statement (including a prospectus) with the SEC for the offering to which this document relates. Before you invest, you should read the prospectus in that registration statement and the other documents that we have filed with the SEC for more complete information about us and this offering. You may obtain these documents free of charge by visiting the SEC's website at http://www.sec.gov. Alternatively, we will arrange to send to you the prospectus (as supplemented by the prospectus supplement and product supplement) if you request it by

calling our agent toll-free at 1-877-369-5412.

#### **Selected Risk Considerations**

An investment in the notes involves significant risks. Investing in the notes is not equivalent to investing directly in the Underlying Assets. These risks are explained in more detail in the "Additional Risk Factors Relating to the Notes" section of the product supplement.

Your investment in the notes may result in a loss. — You may lose some or all of your investment in the notes. The payment at maturity will be based on the Final Level of each Underlying Asset, whether a Barrier Event has occurred, and whether the Final Level of the Lesser Performing Underlying Asset is less than its Initial Level. If a Barrier Event occurs during the Monitoring Period and the Final Level of either Underlying Asset is less than its Initial Level, you will lose 1% of the principal amount of your notes for each 1% that the Final Level of the Lesser Performing Underlying Asset is less than its Initial Level. Accordingly, you could lose up to 100% of the principal amount of the notes.

The protection provided by the Barrier Level may terminate on any day during the Monitoring Period. — If the closing level of either Underlying Asset on any trading day during the Monitoring Period is less than its Barrier Level, you will be fully exposed at maturity to any decrease in the value of the Lesser Performing Underlying Asset. Under these circumstances, if the Percentage Change of either Underlying Asset is negative, you will lose 1% (or a fraction thereof) of the principal amount of your investment for every 1% (or a fraction thereof) that the Percentage Change of the Lesser Performing Underlying Asset is less than its Initial Level. You will be subject to this potential loss of principal even if, after the Barrier Event, the value of the relevant Underlying Asset increases above its Barrier Level.

Your return on the notes is limited to the Digital Return, regardless of any appreciation in the level of the Underlying Assets. — The return on your notes will not be greater than the Digital Return. This will be the case even if the Percentage Change of the Lesser Performing Underlying Asset exceeds the Digital Return.

Your investment is subject to the credit risk of Bank of Montreal. — Our credit ratings and credit spreads may adversely affect the market value of the notes. Investors are dependent on our ability to pay the amount due at maturity, and therefore investors are subject to our credit risk and to changes in the market's view of our creditworthiness. Any decline in our credit ratings or increase in the credit spreads charged by the market for taking our credit risk is likely to adversely affect the value of the notes.

Your return on the notes may be determined solely by reference to the Lesser Performing Underlying Asset, even if the other Underlying Asset performs better. — Your payment at maturity may only be determined by reference to the performance of the Lesser Performing Underlying Asset. Even if the other Underlying Asset has appreciated in value compared to its Initial Level, or has experienced a decline that is less than that of the Lesser Performing Underlying Asset, your return at maturity will only be determined by reference to the performance of the Lesser Performing Underlying Asset if a Barrier Event has occurred.

Your return on the notes will be determined by reference to each Underlying Asset individually, not to a basket, and the payments on the notes will be based on the performance of the Lesser Performing Underlying Asset. — The notes are not linked to a weighted basket, in which the risk may be mitigated and diversified among each of the basket components. For example, in the case of notes linked to a weighted basket, the return would depend on the weighted aggregate performance of the basket components reflected as the basket return. As a result, the depreciation of one basket component could be mitigated by the appreciation of the other basket component, as scaled by the weighting of that basket component. However, in the case of the notes, the individual performance of each Underlying Asset would not be combined, and the depreciation of an Underlying Asset would not be mitigated by any appreciation of the other Underlying Asset. Instead, your return at maturity will depend solely on the Final Level of the Lesser Performing Underlying Asset.

**Potential conflicts.** — We and our affiliates play a variety of roles in connection with the issuance of the notes, including acting as calculation agent. In performing these duties, the economic interests of the calculation agent and other affiliates of ours are potentially adverse to your interests as an investor in the notes. We or one or more of our affiliates may also engage in trading of securities represented by the Underlying Assets on a regular basis as part of our general broker-dealer and other businesses, for proprietary accounts, for other accounts under management or to facilitate transactions for our customers. Any of these activities could adversely affect the level of an Underlying Asset and, therefore, the market value of, and the payments on, the notes. We or one or more of our affiliates may also issue or underwrite other securities or financial or derivative instruments with returns linked or related to changes in the performance of the Underlying Assets. By introducing competing products into the marketplace in this manner, we or one or more of our affiliates could adversely affect the market value of the notes.

Our initial estimated value of the notes will be lower than the price to public. — Our initial estimated value of the notes is only an estimate, and is based on a number of factors. The price to public of the notes will exceed our initial estimated value, because costs associated with offering, structuring and hedging the notes are included in the price to public, but are not included in the estimated value. These costs include the underwriting discount and selling concessions, the profits that we and our affiliates expect to realize for assuming the risks in hedging our obligations under the notes and the estimated cost of hedging these obligations. The initial estimated value of the notes may be as low as the amount indicated on the cover page of this pricing supplement.

Our initial estimated value does not represent any future value of the notes, and may also differ from the estimated value of any other party. — Our initial estimated value of the notes as of the date of this preliminary pricing supplement is, and our estimated value as determined on the Pricing Date will be, derived using our internal pricing models. This value is based on market conditions and other relevant factors, which include volatility of the Underlying Assets, dividend rates and interest rates. Different pricing models and assumptions could provide values for the notes that are greater than or less than our initial estimated value. In addition, market conditions and other relevant factors after the Pricing Date are expected to change, possibly rapidly, and our assumptions may prove to be incorrect. After the Pricing Date, the value of the notes could change dramatically due to changes in market conditions, our creditworthiness, and the other factors set forth in this pricing supplement and the product supplement. These changes are likely to impact the price, if any, at which we or BMOCM would be willing to purchase the notes from you in any secondary market transactions. Our initial estimated value does not represent a minimum price at which we or our affiliates would be willing to buy your notes in any secondary market at any time.

The terms of the notes are not determined by reference to the credit spreads for our conventional fixed-rate debt. — To determine the terms of the notes, we will use an internal funding rate that represents a discount from the credit spreads for our conventional fixed-rate debt. As a result, the terms of the notes are less favorable to you than if we had used a higher funding rate.

Certain costs are likely to adversely affect the value of the notes. — Absent any changes in market conditions, any secondary market prices of the notes will likely be lower than the price to public. This is because any secondary market prices will likely take into account our then-current market credit spreads, and because any secondary market prices are likely to exclude all or a portion of the underwriting discount and selling concessions and the hedging profits and estimated hedging costs that are included in the price to public of the notes and that may be reflected on your account statements. In addition, any such price is also likely to reflect a discount to account for costs associated with establishing or unwinding any related hedge transaction, such as dealer discounts, mark-ups and other transaction costs. As a result, the price, if any, at which BMOCM or any other party may be willing to purchase the notes from you in secondary market transactions, if at all, will likely be lower than the price to public. Any sale that you make prior to the maturity date could result in a substantial loss to you.

You will not have any shareholder rights and will have no right to receive any securities represented by the Underlying Assets at maturity. — Investing in your notes will not make you a holder of any securities represented by the Underlying Assets. Neither you nor any other holder or owner of the notes will have any voting rights, any right to receive dividends or other distributions or any other rights with respect to these securities.

An investment in the notes is subject to risks associated in investing in stocks with a small market capitalization. — The RTY consists of stocks issued by companies with relatively small market capitalizations. These companies often have greater stock price volatility, lower trading volume and less liquidity than large-capitalization companies. As a result, the level of the RTY may be more volatile than that of a market measure that does not track solely small-capitalization stocks. Stock prices of small-capitalization companies are also generally more vulnerable than those of large-capitalization companies to adverse business and economic developments, and the stocks of small-capitalization companies may be thinly traded, and be less attractive to many investors if they do not pay dividends. In addition, small capitalization companies are typically less well-established and less stable financially than large-capitalization companies and may depend on a small number of key personnel, making them more vulnerable to loss of those individuals. Small capitalization companies tend to have lower revenues, less diverse product lines, smaller shares of their target markets, fewer financial resources and fewer competitive strengths than large-capitalization companies. These companies may also be more susceptible to adverse developments related to their products or services.

Changes that affect an Underlying Asset may adversely affect the market value of the notes and the amount you will receive at maturity. — The policies of FTSE Russell, the sponsor of the RTY, and NASDAQ OMX Group, Inc. ("NASDAQ"), the sponsor of the NDX (each, an "Index Sponsor"), concerning the calculation of the applicable Underlying Asset, additions, deletions or substitutions of the components of the applicable Underlying Asset and the manner in which changes affecting those components, such as stock dividends, reorganizations or mergers, may be reflected in the applicable Underlying Asset and, therefore, could affect the level of the applicable Underlying Asset, the amount payable on the notes at maturity and the market value of the notes prior to maturity. The amount payable on the notes and their market value could also be affected if either Index Sponsor changes these policies, for example, by changing the manner in which it calculates the applicable Underlying Asset, or if either Index Sponsor discontinues or suspends the calculation or publication of the applicable Underlying Asset.

We have no affiliation with either Index Sponsor and will not be responsible for any actions taken by either Index Sponsor. — Neither Index Sponsor is an affiliate of ours or will be involved in the offering of the notes in any way. Consequently, we have no control over the actions of either Index Sponsor, including any actions of the type that would require the calculation agent to adjust the payments on the notes. Neither Index Sponsor has any obligation of any sort with respect to the notes. Thus, neither Index Sponsor has any obligation to take your interests into consideration for any reason, including in taking any actions that might affect the value of the notes. None of our proceeds from the issuance of the notes will be delivered to either Index Sponsor.

An investment in the notes is subject to risks associated with foreign securities markets. — The NDX tracks the value of certain foreign equity securities. You should be aware that investments in securities linked to the value of foreign equity securities involve particular risks. The foreign securities markets comprising the NDX may have less liquidity and may be more volatile than U.S. or other securities markets and market developments may affect foreign markets differently from U.S. or other securities markets. Direct or indirect government intervention to stabilize these foreign securities markets, as well as cross-shareholdings in foreign companies, may affect trading prices and volumes in these markets. Also, there is generally less publicly available information about foreign companies than about those U.S. companies that are subject to the reporting requirements of the U.S. Securities and Exchange Commission, and foreign companies are subject to accounting, auditing and financial reporting standards and requirements that differ from those applicable to U.S. reporting companies.

Prices of securities in foreign countries are subject to political, economic, financial and social factors that apply in those geographical regions. These factors, which could negatively affect those securities markets, include the possibility of recent or future changes in a foreign government's economic and fiscal policies, the possible imposition of, or changes in, currency exchange laws or other laws or restrictions applicable to foreign companies or investments in foreign equity securities and the possibility of fluctuations in the rate of exchange between currencies, the possibility of outbreaks of hostility and political instability and the possibility of natural disaster or adverse public health developments in the region. Moreover, foreign economies may differ favorably or unfavorably from the U.S. economy in important respects such as growth of gross national product, rate of inflation, capital reinvestment, resources and self-sufficiency.

Lack of liquidity. — The notes will not be listed on any securities exchange. BMOCM may offer to purchase the notes in the secondary market, but is not required to do so. Even if there is a secondary market, it may not provide enough ·liquidity to allow you to trade or sell the notes easily. Because other dealers are not likely to make a secondary market for the notes, the price at which you may be able to trade the notes is likely to depend on the price, if any, at which BMOCM is willing to buy the notes.

**Hedging and trading activities.** — We or any of our affiliates may carry out hedging activities related to the notes, including purchasing or selling securities included in the Underlying Assets, or futures or options relating to the Underlying Assets, or other derivative instruments with returns linked or related to changes in the performance of the Underlying Assets. We or our affiliates may also engage in trading relating to the Underlying Assets from time to time. Any of these hedging or trading activities on or prior to the Pricing Date and during the term of the notes could adversely affect our payment to you at maturity.

•Many economic and market factors will influence the value of the notes. — In addition to the levels of the Underlying Assets and interest rates on any trading day, the value of the notes will be affected by a number of

economic and market factors that may either offset or magnify each other, and which are described in more detail in the product supplement.

You must rely on your own evaluation of the merits of an investment linked to the Underlying Assets. — In the ordinary course of their businesses, our affiliates from time to time may express views on expected movements in the level of the Underlying Assets or the prices of the securities included in the Underlying Assets. One or more of our affiliates have published, and in the future may publish, research reports that express views on the Underlying Assets or these securities. However, these views are subject to change from time to time. Moreover, other professionals who deal in the markets relating to the Underlying Assets at any time may have significantly different views from those of our affiliates. You are encouraged to derive information concerning each of the Underlying Assets from multiple sources, and you should not rely on the views expressed by our affiliates.

Neither the offering of the notes nor any views which our affiliates from time to time may express in the ordinary course of their businesses constitutes a recommendation as to the merits of an investment in the notes.

Significant aspects of the tax treatment of the notes are uncertain. — The tax treatment of the notes is uncertain. We do not plan to request a ruling from the Internal Revenue Service or from any Canadian authorities regarding the tax treatment of the notes, and the Internal Revenue Service or a court may not agree with the tax treatment described in this pricing supplement.

The Internal Revenue Service has issued a notice indicating that it and the Treasury Department are actively considering whether, among other issues, a holder should be required to accrue interest over the term of an instrument such as the notes even though that holder will not receive any payments with respect to the notes until maturity and whether all or part of the gain a holder may recognize upon sale or maturity of an instrument such as the notes could be treated as ordinary income. The outcome of this process is uncertain and could apply on a retroactive basis.

Please read carefully the section entitled "U.S. Federal Tax Information" in this pricing supplement, the section entitled "Supplemental Tax Considerations—Supplemental U.S. Federal Income Tax Considerations" in the accompanying product supplement, the section entitled "United States Federal Income Taxation" in the accompanying prospectus and the section entitled "Certain Income Tax Consequences" in the accompanying prospectus supplement. You should consult your tax advisor about your own tax situation.

# Hypothetical Return on the Notes at Maturity

The following table and examples illustrate the hypothetical returns at maturity on a \$1,000 investment in the notes based on hypothetical Percentage Changes of the Lesser Performing Underlying Asset. The "return," as used in this section is the number, expressed as a percentage, which results from comparing the payment at maturity per \$1,000 in principal amount of the notes to \$1,000. The hypothetical total returns set forth below are based on a hypothetical Initial Level of 1,000, a hypothetical Barrier Level of 70% of each Initial Level and the Digital Return of 12.50%. The hypothetical returns set forth below are for illustrative purposes only and may not be the actual returns applicable to investors in the notes. The numbers appearing in the following table and in the examples below have been rounded for ease of analysis. We make no representation or warranty as to which Underlying Asset will be the Lesser Performing Underlying Asset. It is possible that the Final Level of each Underlying Asset will be less than its Initial Level.

The hypothetical examples shown below are intended to help you understand the terms of the notes. The actual cash amount that you will receive at maturity will depend upon whether the closing level of either Underlying Asset is below its Barrier Level on any trading day during the Monitoring Period and whether the Final Level of the Lesser Performing Underlying Asset is below its Initial Level.

#### **Hypothetical**

Hypothetical Final Hypothetical Percentage Payment at Maturity Change of the Lesser

**Performing Underlying** 

**Underlying Asset** Asset

		(i) if a Barrier Event does not occur during the	(ii) if a Barrier Event does occur during the
		<b>Monitoring Period</b>	<b>Monitoring Period</b>
2,000.00	100.00%	\$1,125.00	\$1,000.00
1,500.00	50.00%	\$1,125.00	\$1,000.00
1,200.00	20.00%	\$1,125.00	\$1,000.00
1,125.00	12.50%	\$1,125.00	\$1,000.00
1,100.00	10.00%	\$1,125.00	\$1,000.00
1,050.00	5.00%	\$1,125.00	\$1,000.00
1,030.00	3.00%	\$1,125.00	\$1,000.00
1,020.00	2.00%	\$1,125.00	\$1,000.00
1,000.00	0.00%	\$1,125.00	\$1,000.00
950.00	-5.00%	\$1,125.00	\$950.00
900.00	-10.00%	\$1,125.00	\$900.00
800.00	-20.00%	\$1,125.00	\$800.00
700.00	-30.00%	\$1,125.00	\$700.00
650.00	-35.00%	N/A	\$650.00
600.00	-40.00%	N/A	\$600.00

500.00	-50.00%	N/A	\$500.00
400.00	-60.00%	N/A	\$400.00
200.00	-80.00%	N/A	\$200.00
0.00	-100.00%	N/A	\$0.00

# **Hypothetical Examples of Amounts Payable at Maturity**

The following examples illustrate how the returns set forth in the table above are calculated.

#### If a Barrier Event Occurs:

Example 1: A Barrier Event occurs and the hypothetical Final Level of the Lesser Performing Underlying Asset decreases from the hypothetical Initial Level of 1,000.00 to a hypothetical Final Level of 500.00, representing a Percentage Change of -50%. Because a Barrier Event occurs and the hypothetical Final Level of the Lesser Performing Underlying Asset is less than its hypothetical Initial Level, the investor receives a payment at maturity of \$500 per \$1,000 in principal amount of the notes, calculated as follows:

$$$1,000 + ($1,000 \times -50\%) = $500$$

Example 2: A Barrier Event occurs and the hypothetical Final Level of the Lesser Performing Underlying Asset decreases from the hypothetical Initial Level of 1,000.00 to a hypothetical Final Level of 900.00, representing a Percentage Change of -10%. Because a Barrier Event occurs, the investor receives a payment at maturity of \$900 per \$1,000 in principal amount of the notes, calculated as follows:

 $1,000 + (1,000 \times -10\%) = 900$ 

Example 3: A Barrier Event occurs and the hypothetical Final Level of the Lesser Performing Underlying Asset increases from the hypothetical Initial Level of 1,000.00 to a hypothetical Final Level of 1,100.00, representing a Percentage Change of 10%. Because a Barrier Event occurs, but the Percentage Change of the Lesser Performing Underlying Asset is positive, the investor receives the principal amount.

#### If a Barrier Event Does Not Occur:

Example 4: A Barrier Event does not occur and the hypothetical Final Level of the Lesser Performing Underlying Asset decreases from its hypothetical Initial Level of 1,000.00 to a hypothetical Final Level of 900.00, representing a Percentage Change of -10%. Because a Barrier Event does not occur, the investor receives at maturity a payment of \$1,125.00 per \$1,000 in principal amount of the notes, representing the Digital Return, even though the value of the Lesser Performing Underlying Asset has decreased.

Example 5: The level of the Lesser Performing Underlying Asset increases from the hypothetical Initial Level of 1,000 to a hypothetical Final Level of 1,100, representing a Percentage Change of 10%. Because a Barrier Event has not occurred, the investor receives a payment at maturity of \$1,125.00 per \$1,000 in principal amount of the notes, representing the Digital Return. This payment reflects a return that is less than the return represented by the Percentage Change.

#### **U.S. Federal Tax Information**

By purchasing the notes, each holder agrees (in the absence of a change in law, an administrative determination or a judicial ruling to the contrary) to treat each note as a pre-paid cash-settled derivative contract for U.S. federal income tax purposes. However, the U.S. federal income tax consequences of your investment in the notes are uncertain and the Internal Revenue Service could assert that the notes should be taxed in a manner that is different from that described in the preceding sentence. Please see the discussion (including the opinion of our counsel Morrison & Foerster LLP) in the product supplement under "Supplemental Tax Considerations—Supplemental U.S. Federal Income Tax Considerations," which applies to the notes, except that the following disclosure supplements, and to the extent inconsistent supersedes, the discussion in the product supplement. The discussions below and in the accompanying product supplement do not apply to holders subject to special rules including holders subject to Section 451(b) of the Code.

Under current Internal Revenue Service guidance, withholding on "dividend equivalent" payments (as discussed in the product supplement), if any, will not apply to notes that are issued as of the date of this pricing supplement unless such notes are "delta-one" instruments. Based on our determination that the notes are not delta-one instruments, non-U.S. holders should not generally be subject to withholding on dividend equivalent payments, if any, under the notes.

### **Supplemental Plan of Distribution (Conflicts of Interest)**

BMOCM will purchase the notes from us at a purchase price reflecting the commission set forth on the cover page of this pricing supplement. BMOCM has informed us that, as part of its distribution of the notes, it will reoffer the notes to other dealers who will sell them. Each such dealer, or each additional dealer engaged by a dealer to whom BMOCM reoffers the notes, will receive a commission from BMOCM, which will not exceed the commission set forth on the cover page. This commission includes a selling concession of up to 1.60% of the principal amount that we or one of our affiliates will pay to one or more dealers in connection with the distribution of the notes.

Certain dealers who purchase the notes for sale to certain fee-based advisory accounts may forego some or all of their selling concessions, fees or commissions. The public offering price for investors purchasing the notes in these accounts may be less than 100% of the principal amount, as set forth on the cover page of this document. Investors that hold their notes in these accounts may be charged fees by the investment advisor or manager of that account based on the amount of assets held in those accounts, including the notes.

We will deliver the notes on a date that is greater than two business days following the pricing date. Under Rule 15c6-1 of the Securities Exchange Act of 1934, trades in the secondary market generally are required to settle in two

business days, unless the parties to any such trade expressly agree otherwise. Accordingly, purchasers who wish to trade the notes more than two business days prior to the issue date will be required to specify alternative settlement arrangements to prevent a failed settlement.

We own, directly or indirectly, all of the outstanding equity securities of BMOCM, the agent for this offering. In accordance with FINRA Rule 5121, BMOCM may not make sales in this offering to any of its discretionary accounts without the prior written approval of the customer.

We reserve the right to withdraw, cancel or modify the offering of the notes and to reject orders in whole or in part. You may cancel any order for the notes prior to its acceptance.

You should not construe the offering of the notes as a recommendation of the merits of acquiring an investment linked to any Underlying Asset or as to the suitability of an investment in the notes.

BMOCM may, but is not obligated to, make a market in the notes. BMOCM will determine any secondary market prices that it is prepared to offer in its sole discretion.

We may use the final pricing supplement relating to the notes in the initial sale of the notes. In addition, BMOCM or another of our affiliates may use the final pricing supplement in market-making transactions in any notes after their initial sale. Unless BMOCM or we inform you otherwise in the confirmation of sale, the final pricing supplement is being used by BMOCM in a market-making transaction.

For a period of approximately three months following issuance of the notes, the price, if any, at which we or our affiliates would be willing to buy the notes from investors, and the value that BMOCM may also publish for the notes through one or more financial information vendors and which could be indicated for the notes on any brokerage account statements, will reflect a temporary upward adjustment from our estimated value of the notes that would otherwise be determined and applicable at that time. This temporary upward adjustment represents a portion of (a) the hedging profit that we or our affiliates expect to realize over the term of the notes and (b) the underwriting discount and selling concessions paid in connection with this offering. The amount of this temporary upward adjustment will decline to zero on a straight-line basis over the three-month period.

No Prospectus (as defined in Directive 2003/71/EC (as amended, the "Prospectus Directive")) will be prepared in connection with the notes. Accordingly, the notes may not be offered to the public in any member state of the European Economic Area (the "EEA"), and any purchaser of the notes who subsequently sells any of the notes in any EEA member state must do so only in accordance with the requirements of the Prospectus Directive, as implemented in that member state.

The notes are not intended to be offered, sold or otherwise made available to, and should not be offered, sold or otherwise made available to, any retail investor in the EEA. For these purposes, the expression "offer" includes the communication in any form and by any means of sufficient information on the terms of the offer and the notes to be offered so as to enable an investor to decide to purchase or subscribe the notes, and a "retail investor" means a person who is one (or more) of: (a) a retail client, as defined in point (11) of Article 4(1) of Directive 2014/65/EU (as amended, "MiFID II"); or (b) a customer, within the meaning of Insurance Distribution Directive 2016/97/EU, as amended, where that customer would not qualify as a professional client as defined in point (10) of Article 4(1) of MiFID II; or (c) not a qualified investor as defined in the Prospectus Directive. Consequently, no key information document required by Regulation (EU) No 1286/2014 (as amended, the "PRIIPs Regulation") for offering or selling the notes or otherwise making them available to retail investors in the EEA has been prepared, and therefore, offering or selling the notes or otherwise making them available to any retail investor in the EEA may be unlawful under the PRIIPs Regulation.

#### Additional Information Relating to the Estimated Initial Value of the Notes

Our estimated initial value of the notes on the date of this preliminary pricing supplement, and that will be set forth on the cover page of the final pricing supplement relating to the notes, equals the sum of the values of the following hypothetical components:

a fixed-income debt component with the same tenor as the notes, valued using our internal funding rate for structured notes; and

one or more derivative transactions relating to the economic terms of the notes.

The internal funding rate used in the determination of the initial estimated value generally represents a discount from the credit spreads for our conventional fixed-rate debt. The value of these derivative transactions are derived from our internal pricing models. These models are based on factors such as the traded market prices of comparable derivative instruments and on other inputs, which include volatility, dividend rates, interest rates and other factors. As a result, the estimated initial value of the notes on the Pricing Date will be determined based on market conditions at that time.

#### The Underlying Assets

All disclosures contained in this pricing supplement regarding the Underlying Assets, including, without limitation, their make-up, method of calculation, and changes in their components and their historical closing values, have been derived from publicly available information prepared by the applicable sponsors. The information reflects the policies of, and is subject to change by, the sponsors. The sponsors own the copyrights and all rights to the Underlying Assets. The sponsors are under no obligation to continue to publish, and may discontinue publication of, the Underlying Assets. Neither we nor BMO Capital Markets Corp. accepts any responsibility for the calculation, maintenance or publication of any Underlying Asset or any successor index.

#### The Russell 2000® Index

The RTY was developed by Russell Investments ("Russell") before FTSE International Limited ("FTSE") and Russell combined in 2015 to create FTSE Russell, which is wholly owned by London Stock Exchange Group. Russell began dissemination of the RTY (Bloomberg L.P. index symbol "RTY") on January 1, 1984. The RTY was set to 135 as of the close of business on December 31, 1986. FTSE Russell calculates and publishes the RTY. The RTY is designed to track the performance of the small capitalization segment of the U.S. equity market. As a subset of the Russell 3000® Index, the RTY consists of the smallest 2,000 companies included in the Russell 3000® Index. The Russell 3000® Index measures the performance of the largest 3,000 U.S. companies. The RTY is determined, comprised, and calculated by FTSE Russell without regard to the notes.

## **Selection of Stocks Comprising the RTY**

All companies eligible for inclusion in the RTY must be classified as a U.S. company under FTSE Russell's country-assignment methodology. If a company is incorporated, has a stated headquarters location, and trades in the same country (American Depositary Receipts and American Depositary Shares are not eligible), then the company is assigned to its country of incorporation. If any of the three factors are not the same, FTSE Russell defines three Home Country Indicators ("HCIs"): country of incorporation, country of headquarters, and country of the most liquid exchange (as defined by a two-year average daily dollar trading volume) ("ADDTV") from all exchanges within a country. Using the HCIs, FTSE Russell compares the primary location of the company's assets with the three HCIs. If the primary location of its assets matches any of the HCIs, then the company is assigned to the primary location of its assets. If there is insufficient information to determine the country in which the company's assets are primarily located, FTSE Russell will use the primary country from which the company's revenues are primarily derived for the comparison with the three HCIs in a similar manner. FTSE Russell uses the average of two years of assets or revenues data to reduce potential turnover. If conclusive country details cannot be derived from assets or revenues data, FTSE Russell will assign the company to the country of its headquarters, which is defined as the address of the company's principal executive offices, unless that country is a Benefit Driven Incorporation "BDI" country, in which case the company will be assigned to the country of its most liquid stock exchange. BDI countries include: Anguilla, Antigua and Barbuda,

Aruba, Bahamas, Barbados, Belize, Bermuda, Bonaire, British Virgin Islands, Cayman Islands, Channel Islands, Cook Islands, Curacao, Faroe Islands, Gibraltar, Guernsey, Isle of Man, Jersey, Liberia, Marshall Islands, Panama, Saba, Sint Eustatius, Sint Maarten, and Turks and Caicos Islands. For any companies incorporated or headquartered in a U.S. territory, including countries such as Puerto Rico, Guam, and U.S. Virgin Islands, a U.S. HCI is assigned.

All securities eligible for inclusion in the RTY must trade on a major U.S. exchange. Bulletin board, pink sheets, and over-the-counter ("OTC") traded securities are not eligible for inclusion. Stocks must have a closing price at or above \$1.00 on their primary exchange on the last trading day in July to be eligible for inclusion during annual reconstitution. However, in order to reduce unnecessary turnover, if an existing member's closing price is less than \$1.00 on the last day of July, it will be considered eligible if the average of the daily closing prices (from its primary exchange) during the month of July is equal to or greater than \$1.00. Initial public offerings must have a closing price at or above \$1.00 on the last day of their eligibility period in order to qualify for index inclusion. If an existing stock does not trade on the "rank day" (typically the last trading day in July but a confirmed timetable is announced each spring), but does have a closing price at or above \$1.00 on another eligible U.S. exchange, that stock will be eligible for inclusion. Companies with a total market capitalization of less than \$30 million are not eligible for the RTY. Similarly, companies with only 5% or less of their shares available in the marketplace are not eligible for the RTY.

Royalty trusts, limited liability companies, closed-end investment companies (companies that are required to report Acquired Fund Fees and Expenses, as defined by the SEC, including business development companies, are not eligible), blank check companies, special-purpose acquisition companies, exchange traded funds, mutual funds and limited partnerships are ineligible for inclusion. Preferred and convertible preferred stock, redeemable shares, participating preferred stock, warrants, rights, installment receipts and trust receipts are not eligible for inclusion in the RTY.

Annual reconstitution is a process by which the RTY is completely rebuilt. On the rank day of July, all eligible securities are ranked by their total market capitalization. The largest 4,000 become the Russell 3000E Index, and the other

FTSE Russell indexes are determined from that set of securities. Reconstitution of the RTY occurs on the last Friday in June or, when the last Friday in June is the 29th or 30th, reconstitution occurs on the prior Friday. In addition, FTSE Russell adds initial public offerings to the RTY on a quarterly basis based on total market capitalization ranking within the market-adjusted capitalization breaks established during the most recent reconstitution.

After membership is determined, a security's shares are adjusted to include only those shares available to the public. This is often referred to as "free float." The purpose of the adjustment is to exclude from market calculations the capitalization that is not available for purchase and is not part of the investable opportunity set.

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LIMITING ANY OF THE FOREGOING. IN NO EVENT SHALL FTSE RUSSELL HAVE ANY LIABILITY FOR ANY SPECIAL, PUNITIVE, INDIRECT, OR CONSEQUENTIAL DAMAGES (INCLUDING LOST PROFITS), EVEN IF NOTIFIED OF THE POSSIBILITY OF SUCH DAMAGES.

#### The NASDAO 100® Index ("NDX")

The NASDAQ 100® Index ("NDX") is a modified market capitalization-weighted index of 100 of the largest stocks of both U.S. and non-U.S. non-financial companies listed on The NASDAQ Stock Market based on market capitalization. It does not contain securities of financial companies, including investment companies. The NASDAQ 100® Index, which includes companies across a variety of major industry groups, was launched on January 31, 1985, with a base index value of 250.00. On January 1, 1994, the base index value was reset to 125.00. The NASDAQ OMX Group, Inc. publishes the NDX. Current information regarding the market value of the NDX is available from NASDAQ OMX Group, Inc. ("NASDAQ OMX") as well as numerous market information services.

The share weights of the component securities of the NDX at any time are based upon the total shares outstanding in each of those securities and are additionally subject, in certain cases, to rebalancing. Accordingly, each underlying stock's influence on the level of the NDX is directly proportional to the value of its share weight.

#### **Index Calculation**

At any moment in time, the level of the NDX equals the aggregate value of the then-current share weights of each of the component securities, which are based on the total shares outstanding of each such component security, multiplied by each such security's respective last sale price on The NASDAQ Stock Market (which may be the official closing price published by The NASDAQ Stock Market), and divided by a scaling factor (the "divisor"), which becomes the basis for the reported level of the NDX. The divisor serves the purpose of scaling such aggregate value to a lower order of magnitude, which is more desirable for reporting purposes.

## **Underlying Stock Eligibility Criteria and Annual Ranking Review**

#### **Initial Eligibility Criteria**

To be eligible for initial inclusion in the NDX, a security must be listed on The NASDAQ Stock Market and meet the following criteria:

the security's U.S. listing must be exclusively on the NASDAQ Global Select Market or the NASDAQ Global Market:

the security must be issued by a non-financial company;
the security may not be issued by an issuer currently in bankruptcy proceedings;
the security must generally be a common stock, ordinary share, American Depositary Receipt, or tracking stock (closed-end funds, convertible debentures, exchange traded funds, limited liability companies, limited partnership interests, preferred stocks, rights, shares or units of beneficial interests, warrants, units and other derivative securities are not included in the NDX, nor are the securities of investment companies);
the security must have a three-month average daily trading volume of at least 200,000 shares;
if the security is issued by an issuer organized under the laws of a jurisdiction outside the United States, it must have listed options on a recognized market in the United States or be eligible for listed-options trading on a recognized options market in the United States;
the issuer of the security may not have entered into a definitive agreement or other arrangement which would likely result in the security no longer being eligible;
the issuer of the security may not have annual financial statements with an audit opinion that is currently withdrawn; and
the issuer of the security must have "seasoned" on the NASDAQ Stock Market or another recognized market (generally, a company is considered to be seasoned if it has been listed on a market for at least three full months, excluding the first month of initial listing).
Continued Eligibility Criteria
In addition, to be eligible for continued inclusion in the NDX the following criteria apply:
the security's U.S. listing must be exclusively on the NASDAQ Global Select Market or the NASDAQ Global Market;

the security must be issued by a non-financial company;

the security may not be issued by an issuer currently in bankruptcy proceedings;

the security must have an average daily trading volume of at least 200,000 shares in the previous three-month trading period as measured annually during the ranking review process described below;

if the issuer of the security is organized under the laws of a jurisdiction outside the United States, then such security must have listed options on a recognized market in the United States or be eligible for listed-options trading on a recognized options market in the United States, as measured annually during the ranking review process;

the issuer of the security may not have entered into a definitive agreement or other arrangement that would likely result in the security no longer being eligible;

the security must have an adjusted market capitalization equal to or exceeding 0.10% of the aggregate adjusted market capitalization of the NDX at each month-end. In the event that a company does not meet this criterion for two consecutive month-ends, it will be removed from the NDX effective after the close of trading on the third Friday of the following month; and

•the issuer of the security may not have annual financial statements with an audit opinion that is currently withdrawn.

These eligibility criteria may be revised from time to time by NASDAQ OMX without regard to the Notes.

#### **Annual Ranking Review**

The component securities are evaluated on an annual basis (the "Ranking Review"), except under extraordinary circumstances, which may result in an interim evaluation, as follows. Securities that meet the applicable eligibility criteria are ranked by market value. eligible securities that are already in the NDX and that are ranked in the top 100 eligible securities (based on market capitalization) are retained in the NDX. A security that is ranked 101 to 125 is also retained, provided that such security was ranked in the top 100 eligible securities as of the previous Ranking Review or was added to the NDX subsequent to the previous Ranking Review. Securities not meeting such criteria are replaced. The replacement securities chosen are those eligible securities not currently in the NDX that have the largest market capitalization. The data used in the ranking includes end of October market data and is updated for total shares outstanding submitted in a publicly filed SEC document via EDGAR through the end of November.

Replacements are made effective after the close of trading on the third Friday in December. Moreover, if at any time during the year other than the Ranking Review, a component security is determined by NASDAQ OMX to become ineligible for continued inclusion in the NDX, the security will be replaced with the largest market capitalization security meeting the eligibility criteria listed above and not currently included in the NDX.

#### **Index Maintenance**

In addition to the Ranking Review, the securities in the NDX are monitored every day by NASDAQ OMX with respect to changes in total shares outstanding arising from corporate events, such as stock dividends, stock splits and certain spin-offs and rights issuances. NASDAQ OMX has adopted the following quarterly scheduled weight adjustment procedures with respect to those changes. If the change in total shares outstanding arising from a corporate action is greater than or equal to 10%, that change will be made to the NDX as soon as practical, normally within ten days of such corporate action. Otherwise, if the change in total shares outstanding is less than 10%, then all such changes are accumulated and made effective at one time on a quarterly basis after the close of trading on the third Friday in each of March, June, September and December.

In either case, the share weights for those component securities are adjusted by the same percentage amount by which the total shares outstanding have changed in those securities. Ordinarily, whenever there is a change in the share weights, a change in a component security, or a change to the price of a component security due to spin-off, rights issuances or special cash dividends, NASDAQ OMX adjusts the divisor to ensure that there is no discontinuity in the level of the NDX that might otherwise be caused by any of those changes. All changes will be announced in advance.

#### **Index Rebalancing**

Under the methodology employed, on a quarterly basis coinciding with NASDAQ OMX's quarterly scheduled weight adjustment procedures, the component securities are categorized as either "Large Stocks" or "Small Stocks" depending on whether their current percentage weights (after taking into account scheduled weight adjustments due to stock repurchases, secondary offerings or other corporate actions) are greater than, or less than or equal to, the average percentage weight in the NDX (i.e., as a 100-stock index, the average percentage weight in the NDX is 1%).

This quarterly examination will result in an index rebalancing if it is determined that: (1) the current weight of the single largest market capitalization component security is greater than 24% or (2) the "collective weight" of those component securities, the individual current weights of which are in excess of 4.5%, when added together, exceed 48%. In addition, NASDAQ OMX may conduct a special rebalancing at any time if it is determined to be necessary to maintain the integrity of the NDX.

If either one or both of these weight distribution requirements are met upon quarterly review, or NASDAQ OMX determines that a special rebalancing is required, a weight rebalancing will be performed. First, relating to weight distribution requirement (1) above, if the current weight of the single largest component security exceeds 24%, then the weights of all Large Stocks will be scaled down proportionately towards 1% by enough of an amount for the adjusted weight of the single largest component security to be set to 20%. Second, relating to weight distribution requirement (2) above, for those component securities whose individual current weights or adjusted weights in accordance with the preceding step are in excess of 4.5%, if their "collective weight" exceeds 48%, then the weights of all Large Stocks will be scaled down proportionately towards 1% by just enough amount for the "collective weight," so adjusted, to be set to 40%.

The aggregate weight reduction among the Large Stocks resulting from either or both of the above rescalings will then be redistributed to the Small Stocks in the following iterative manner. In the first iteration, the weight of the largest Small Stock will be scaled upwards by a factor which sets it equal to the average Index weight of 1.0%. The weights of each of the smaller remaining Small Stocks will be scaled up by the same factor, reduced in relation to each stock's relative ranking among the Small Stocks, such that the smaller the component security in the ranking, the less the scale-up of its weight. This is intended to reduce the market impact of the weight rebalancing on the smallest component securities in the NDX.

In the second iteration, the weight of the second largest Small Stock, already adjusted in the first iteration, will be scaled upwards by a factor which sets it equal to the average index weight of 1%. The weights of each of the smaller remaining Small Stocks will be scaled up by this same factor, reduced in relation to each stock's relative ranking among the Small Stocks, such that, once again, the smaller the component stock in the ranking, the less the scale-up of its weight.

Additional iterations will be performed until the accumulated increase in weight among the Small Stocks exactly equals the aggregate weight reduction among the Large Stocks from rebalancing in accordance with weight distribution requirement (1) and/or weight distribution requirement (2).

Then, to complete the rebalancing procedure, once the final percent weights of each of the component securities are set, the share weights will be determined anew based upon the last sale prices and aggregate capitalization of the NDX at the close of trading on the last day in February, May, August and November. Changes to the share weights will be made effective after the close of trading on the third Friday in March, June, September and December, and an adjustment to the divisor will be made to ensure continuity of the NDX.

Ordinarily, new rebalanced weights will be determined by applying the above procedures to the current share weights. However, NASDAQ OMX may from time to time determine rebalanced weights, if necessary, by instead applying the above procedure to the actual current market capitalization of the component securities. In those instances, NASDAQ OMX would announce the different basis for rebalancing prior to its implementation.

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# **Historical Performances of the Underlying Assets**

The following tables set forth the quarter-end high and low closing levels for each Underlying Asset from the first quarter of 2008 through the third quarter of 2018.

The historical levels of the Underlying Assets are provided for informational purposes only. You should not take the historical levels of the applicable Underlying Asset as an indication of its future performance, which may be better or worse than the levels set forth below.

# Closing Levels of the Russell 2000® Index

		High	Low
2008	First Quarter	753.548	643.966
	Second Quarter	763.266	686.073
	Third Quarter	754.377	657.718
	Fourth Quarter	671.590	385.308
	First Quarter	514.710	343.260
	Second Quarter	531.680	429.158
	Third Quarter	620.695	479.267
	Fourth Quarter	634.072	562.395
	First Quarter	690.303	586.491
	Second Quarter		609.486
	Third Quarter	677.642	590.034
	Fourth Quarter	792.347	669.450
2011	F' O	0.42.5.40	772 104
	First Quarter	843.549	773.184
	Second Quarter		777.197
	Third Quarter	858.113	643.421
	Fourth Quarter	765.432	609.490
2012	First Quarter	846.129	747.275
	Second Quarter		737.241
	•	864.697	
	Third Quarter		767.751
	Fourth Quarter	852.495	769.483
2013	First Quarter	953.068	872.605
	Second Quarter		901.513
	Third Quarter	1,078.409	989.535
	Tima Quarter	1,070.707	,0,.555

	Fourth Quarter	1,163.637	1,043.459
2014	First Quarter	1,208.651	1,093.594
	Second Quarter	1,192.964	1,095.986
	Third Quarter	1,208.150	1,101.676
	Fourth Quarter	1,219.109	1,049.303
2015	First Quarter	1,266.373	1,154.709
	Second Quarter	1,295.799	1,215.417
	Third Quarter	1,273.328	1,083.907
	Fourth Quarter	1,204.159	1,097.552
2016	First Quarter	1,114.028	953.715
	Second Quarter	1,188.954	1,089.646
	Third Quarter	1,263.438	1,139.453
	Fourth Quarter	1,388.073	1,156.885
2017	First Quarter	1,413.635	1,345.598
	Second Quarter	1,425.985	1,345.244
	Third Quarter	1,490.861	1,356.905
	Fourth Quarter	1,548.926	1,464.095
2018	First Quarter	1,610.706	1,463.793
	Second Quarter		1,492.531

Third Quarter 1,740.753 1,653.132

# Closing Levels of the NASDAQ 100® Index

	High	Low
2008 First Quarter	2,051.760	1,673.030
Second Quarter	•	1,790.930
Third Quarter		1,496.150
Fourth Quarter		1,036.510
Fourth Quarter	1,303.600	1,030.310
2009 First Quarter	1,281.650	1,043.870
Second Quarter	r 1,501.550	1,252.510
Third Quarter	1,734.090	1,404.780
Fourth Quarter	1,878.180	1,662.490
2010First Quarter	1,967.960	1,732.990
Second Quarter		1,732.330
Third Quarter		1,728.340
		•
Fourth Quarter	2,233.910	1,975.330
2011 First Quarter	2,397.940	2,202.970
Second Quarter	r 2,413.590	2,192.960
Third Quarter	2,429.500	2,038.220
Fourth Quarter		2,085.040
_		
2012 First Quarter		2,321.960
Second Quarter	r 2,784.420	2,458.830
Third Quarter	2,864.033	2,545.300
Fourth Quarter	2,828.599	2,524.356
2013 First Quarter	2,818.690	2,700.967
Second Quarter	•	2,741.949
Third Quarter	•	2,927.346
Fourth Quarter		
1 ourur Quarter	3,371.770	3,172.333
2014First Quarter		
Second Quarter	r 3,849.479	3,446.845
Third Quarter	4,103.083	3,857.938
Fourth Quarter		
2015 First Quarter	4 483 049	4 089 648
Second Quarter		
Third Quarter		
_		
Fourth Quarter	4,/19.033	4,172.703
2016First Quarter	4,497.857	3,947.804
Second Quarter		
Third Quarter		

Fourth Quarter 4,965.808 4,660.457

2017 First Quarter 5,439.742 4,911.333 Second Quarter 5,885.296 5,353.586 Third Quarter 6,004.380 5,596.956

Fourth Quarter 6,513.269 5,981.918

2018First Quarter 7,131.121 6,306.100

Second Quarter 7,280.705 6,390.837

Third Quarter 7,660.180 7,014.554

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