

Journal of Human, Earth, and Future

Journal of Human, Earth, and Future

Vol. 2, No. 1, March, 2021

COVID-19: A Game-changer to Equity Markets?

Saeed Golmohammadi ^{1, 2*}, Babak Fazelabdolabadi ³

¹ Helmholtz Center for Environmental Research, Theodor-Lieser-Straße 4, 06120 Halle, Germany

² Technical University Bergakademie Freiberg, Agricolastraße 22, 09599 Freiberg, Germany

³ Research Institute of Petroleum Industry, Tehran, 14856-13111, Iran

Received 09 December 2020; Revised 16 February 2021; Accepted 25 February 2021; Published 01 March 2021

Abstract

This article applies the effective transfer entropy methodology to quantify the information flow between equities in major global equity markets in Australia, Brazil, Canada, China, Germany, Iran, Japan, Qatar, Saudi Arabia, South Africa, South Korea, United Kingdom, and the United States—a pool of 2200 companies is included. To account for COVID-19 impacts, the period of the study was extended over two years. The results show changes to the information flow pattern after COVID-19, with the largest changes being encountered in Australia, Brazil, Canada, Japan, and the United States for their largest market participants (by market capitalization). In comparison, the Asian markets' information flow patterns show less noticeable changes following COVID-19. On a sector level, most of the markets studied have seen substantial changes in the functionality of their sectors—in terms of being a transmitter or receiver of information—after COVID-19's appearance. The fraction of sectors with a complete change in their influencing role since COVID-19 has been over 70% in Australia, Canada, South Africa, and the United States. The financial services sector has retained its role as being the most influential sector in 6 out of 13 markets considered after COVID-19. For most of the markets, the basic materials, communications, energy, and utilities sectors have retained an intermediate position in the information flow diagram after COVID-19. The German market has been the only market, in which the main information transmitter and receiver sectors have remained unchanged since COVID-19. The results suggest drastic moves in major global equity markets, which have been concurrent with the virus outbreak.

Keywords: COVID-19, Equity Markets; Effective Transfer Entropy.

1. Introduction

Many of us think of the world in two time periods – before and after the COVID-19 pandemic. This thinking might have been initiated because of the complex elements of the COVID-19 issue involving both known and unknown. Apart from its medical complexities, the COVID-19 crisis has left us with ambiguities about its other impact dimensions as well. Thus far, studies have found that this global disruption has influenced several affairs with respect to the psychological well-being of people [1], the environment [2], education [3], and geopolitics [4], to name a few.

In terms of finance and capital markets, researches have been performed to study the link between the COVID-19 pandemic and financial aspects in the scope of banking [5-9], cryptocurrency [10-16], exchange rates [17, 18], financial

 $[*] Corresponding \ author: saeed.golmohammadi@ufz.de; saeed.Golmohammadi@tbt.tu-freiberg.de\\$



> This is an open access article under the CC-BY license (https://creativecommons.org/licenses/by/4.0/).

[©] Authors retain all copyrights.

system [19], insurance [20], interest rates [21] and equity markets [22-46]. In the case of equity markets, the effects of the COVID-19 outbreak have been investigated on the return [27–28, 41–43, 46] and volatility [26, 32, 42–44] of the market in developed [22, 29] and developing [39, 45] economies. The bulk of these studies have found marked differences in the market behavior before and after the pandemic announcement – an increase in volatility and a decrease in returns after the pandemic outbreak. Nevertheless, this market reaction is found to vary across countries [32, 44]. For example, Harjoto et al. [22] found the stock returns, volatility, and trading volume of equity markets in developed countries to be affected by the news about COVID-19 mortality rates, while in the case of developing economies, both mortality rates and the number of infections were found to be influential. Grouping the COVID-19 deaths and cases into an anxiety index, Yu et al. [27] found a dynamic correlation between stock returns and the anxiety index, which has been decreasing since the introduction of the mRNA-based vaccine. Fry-McKibbin et al. [29] suggest the global equity markets are exposed to pandemic risk factors and find evidence of contagion across multiple channels from the U.S. to G20 equity markets. Bissoondoyal-Bheenick et al. [42] conclude that the stock return and volatility connectedness in G20 markets will increase as the COVID-19 crisis escalates. Benlagha and El Omari [31] report that the linkage between the major global equity markets (China, Germany, Japan, U.K., and U.S.) has increased after the COVID-19 outbreak. In addition, the risk spillovers from equity markets in the American and European regions are found to have increased following the COVID-19 epidemic [33], while Asian markets have been more resilient to the situation [34]—showing a decrease in the risk contagion effects [33]. In this respect, the negative effects of the COVID-19 pandemic on Asian equity markets are reported to be less severe compared to other regions of the world. For example, Salman and Ali [45] studied the equity markets in several Asian countries (Bahrain, Kuwait, Oman, Qatar, Saudi Arabia, and the United Arab Emirates) and found a negative short-term impact on these markets from the COVID-19 crisis. Some studies [30] have also pointed out the weak integration of some Asian markets (China and Saudi Arabia) into the global market reaction that abounds following the COVID-19 appearance.

To further elucidate the equity market response to the COVID-19 issue, some empirical studies have focused on the market performance through its constituents, on a sector level [37, 38, 40]. For example, He et al. [38] reported the manufacturing, information technology, education, and health-care industries in China as being the most resilient sectors within the pandemic timeline, while the transportation, mining, electricity, and environmental industries are found to be the most vulnerable to the COVID-19 crisis in the Chinese market. Alam et al. [40] inspected the sectoral performance of the Australian equity market in the immediate days following the COVID-19 announcement and found good performance for the telecommunications, pharmaceuticals, and healthcare sectors in this period. Buszko et al. [37] analyzed the sector constituents of the Warsaw Stock Exchange during the COVID-19 pandemic and found the construction, information technology, game developers, biotechnology, telecoms, and new technology sectors to exhibit positive relative changes in their average prices in the medium-term period after the crisis began. While some other sectors—automobiles, banking, chemicals, clothes, energy, food, mining, oil & gas, pharmaceuticals, and real estate—were found unprofitable within the same timeline in that market.

The mentioned literature should signal the radical changes undergoing the global equity markets in the aftermath of COVID-19 outbreak. Given the new circumstances, acquiring knowledge of the exact interaction between market constituents should be of utmost importance. Nevertheless, the methods adopted in some of the previous investigations seem to be barely adequate to provide us with a detailed picture of the market activity. For instance, the Granger causality method is unable to measure the nonlinear relations between financial time series and cannot ascertain the direction of information flow between the two sets [47]. In this respect, the methodology of transfer entropy [48] can address both deficiencies — with the added benefits of being invariant to linear transformation and not being restricted to linear dynamics. The output of this new proxy — information flow between market constituents — can be used to determine the information-dominant component(s) in a market. This latter data can be directly used by stakeholders to react appropriately to information transfer dynamics by adjusting their market status based on the interaction hierarchy among the components in their portfolio. In addition, the acquisition of a true map of information flow among equities would enable us to reliably determine the performance of market sectors in a given period by accounting for the net information flow for the companies belonging to the given sectors. Although the concept of (effective) entropy transfer has been expensively applied in financial markets [47, 49-55], its application in analyzing the market status after COVID-19 outbreak seems to be un-attempted.

The present article contributes to the existing literature in this field in different ways. The article reports on the first application of the transfer entropy methodology to analyze the sector performance of several equity markets in the aftermath of COVID-19. In this respect, the article has reached a great milestone of quantifying the information flow between market constituents—comprised of 2200 companies—active in major equity markets worldwide. The number and distribution of companies/markets considered should further weight our results, to be a detailed map of the current market status within the COVID-19 crisis, in a global sense. The results presented and the methods applied herein are the first to be reported for some Asian markets, such as the Tehran Stock Exchange, for which previous studies are minimal.

2. Research Methodology

In this section, we outline the method of transfer entropy which was used as the main processing stream in the present work. Proposed by Schreiber [48], the transfer entropy methodology quantifies the asymmetric dynamics of two processes, using the conditional block entropy [55]. In this context, the entropy is defined as a proxy to measure the uncertainty level inherent in optimally encoding the independent draws of a discrete random variable. The formulation of transfer entropy is then based on the premise of Shannon entropy [47]. Assuming X as being a discrete random variable, with probability distribution function $p(x_t)$, the Shannon entropy, H_X , is defined as:

$$H_X = -\Sigma p(x_t) \log_2(p(x_t)) \tag{1}$$

If the random variable X represents the event space of a time series, the sequence of its state outcomes until time t, with k back steps in time, becomes:

$$x_t^{(k)} = x_t, x_{t-1}, x_{t-2}, \dots, x_{t-k+1}$$
 (2)

If we denote the probability of observing the variable in state x at time t+1 as $p(x_{t+1}|x_t^{(k)}) = p(x_{t+1}|x_t, \dots, x_{t-k+1})$ then the average number of bits needed to encode the output state of the variable in time t+1 with known k backstep values – the entropy of x_{t+1} - can be written as:

$$h_X(k) = -\Sigma p(x_{t+1}, x_t^{(k)}) log_2 p(x_{t+1}|x_t^{(k)}) = H_X(x_{t+1}, x_t^{(k)}) - H_X(x_t^{(k)})$$
(3)

where the summation runs over all the possible values of $(x_{t+1}, x_t^{(k)})$, for a fixed time t [55].

The value of the calculated entropy hence depends on the selection of the block length k- referred to as conditional block entropy – which decreases along the increase in the length of the block, as long as x_{t-k} contains more information to predict x_{t+1} than x_{t-k+1} [55].

For a bi-variate case, the value of transfer entropy can be obtained by accounting the deviation from the generalized Markov property. Considering a time series Y, the sequence of its observations until time t, with l back steps in time, can be taken as:

$$y_t^{(l)} = y_t, y_{t-1}, y_{t-2}, \dots, y_{t-l+1}$$
 (4)

An information flow from process Yto process Xexists, if the information in $y_t^{(l)}$ can be valuable in forecasting x_{t+1} , despite the information collected from $x_t^{(k)}$. The transfer entropy, $T_{Y \to X}(k, l)$, is then formulated by Schreiber [48] as Equation 5, to subtract the information already contained in $x_t^{(k)}$:

$$T_{Y \to X}(k, l) = \sum_{x, y} p(x_{t+1}, x_t^{(k)}, y_t^{(l)}) log_2 p(x_{t+1} | x_t^{(k)}, y_t^{(l)}) - \sum_x p(x_{t+1}, x_t^{(k)}) log_2 p(x_{t+1} | x_t^{(k)})$$

$$(5)$$

$$T_{Y \to X}(k, l) = h_X(k) - h_{X,Y}(k, l) \tag{6}$$

where $h_{X,Y}(k,l)$ denotes the conditional entropy of X, given the information of both $x_t^{(k)}$ and $y_t^{(l)}$ blocks.

The results of the transfer entropy may be subject to bias, due to small-sample effects. To correct for this bias, it is suggested [52] to compute the effective transfer entropy, $ETE_{Y\to X}(k,l)$, between the two processes. The effective transfer entropy is calculated by subtracting the value of transfer entropy obtained from Equation 5 from the value obtained after conducting a shuffling operation on process Y, $T_{Y_{shuffled}\to X}(k,l)$. The shuffling procedure entails taking random draws from the distribution of Y and re-arrangement of the selected set to generate a new time series, in order to destroy statistical dependencies between the two processes as well as the time series dependencies of Y [47]

$$ETE_{Y\to X}(k,l) = T_{Y\to X}(k,l) - T_{Y_{shuffled}\to X}(k,l)$$
(7)

 $T_{Y_{shuffled} \to X}(k, l) \to 0$ as the sample size increases and becomes non-zero in case small-sample effects exist.

The set of probability measures listed above are established over discretized values of the variables; therefore, the variables` data should be grouped into non-overlapping partitions, a priori. For this reason, the symbolic encoding scheme dominantly used would select the size of the bins, according to the 5% and 95% empirical quantiles of the data $-q_{[0.05]}$ and $q_{[0.95]}$. As a result, the symbolically-encoded time series, s_t , takes the following form:

$$s_{t} = \begin{cases} 1 for y_{t} \leq q_{[0.05]} \\ 2 for q_{[0.05]} < y_{t} < q_{[0.95]} \\ 3 for y_{t} \geq q_{[0.95]} \end{cases}$$

$$(8)$$

In order to analyze the susceptibility of results to this choice of bin size, a different discretization scheme has also been tested in the present work, which incorporates more empirical quantiles of the data into its encoding system – Equation 9:

$$s_{t} = \begin{cases} 1fory_{t} \leq q_{[0.1]} \\ 2forq_{[0.1]} < y_{t} \leq q_{[0.2]} \\ 3forq_{[0.2]} < y_{t} \leq q_{[0.3]} \\ 4forq_{[0.3]} < y_{t} \leq q_{[0.4]} \\ 5forq_{[0.4]} < y_{t} \leq q_{[0.5]} \\ 6forq_{[0.5]} < y_{t} \leq q_{[0.6]} \\ 7forq_{[0.6]} < y_{t} \leq q_{[0.7]} \\ 8forq_{[0.7]} < y_{t} \leq q_{[0.8]} \\ 9forq_{[0.8]} < y_{t} \leq q_{[0.9]} \\ 10fory_{t} > q_{[0.9]} \end{cases}$$

$$(9)$$

3. Data Description

The information used as input in the present study, is comprised of the closing daily prices of stocks - belonging to a number of 2200 companies - being traded worldwide. Table 1 lists the names of the companies considered. The choice of the markets/indices was attempted to include the major global equity streams. The set of markets/indices considered is composed of Australian Stock Exchange (S&P ASX), Brazil Stock Exchange (BSE), Frankfurt Stock Exchange (FSE), Johannesburg Stock Exchange (JSE), Korean Stock Exchange (KSE), London Stock Exchange (FTSE), New York Stock Exchange (S&P500), Qatar Stock Exchange (QSE), Saudi Arabia Stock Exchange (SASE), Shanghai Stock Exchange (CSI), Tehran Stock Exchange (TSE), Tokyo Stock Exchange (Nikkei), and Toronto Stock Exchange (S&P TSX). The input data was obtained from Yahoo Finance, with the exception of TSE data, which was downloaded directly from the TSE data repository. The data was acquired for the time span between [2019-Aug-01 and 2021-Aug-01]. This length was later divided into two periods, to account for prior/post-COVID timelines. The date used to set this division was taken to be 30-January-2020, which is date on which the pandemic outbreak was officially declared by the World Health Organization [56].

Table 1. The Yahoo ticker names of the stocks considered.

x Yahoo ticker Market/Index Yahoo tic

Market/Index	Yahoo ticker	Market/Index	Yahoo ticker	Market/Index	Yahoo ticker
BSE	ABEV3.SA	BSE	BEEF3.SA	CSI	600958.SS
BSE	AZUL4.SA	BSE	MRVE3.SA	CSI	601939.SS
BSE	B3SA3.SA	BSE	MULT3.SA	CSI	601009.SS
BSE	BBAS3.SA	BSE	NTCO3.SA	CSI	601390.SS
BSE	BBSE3.SA	BSE	PETR3.SA	CSI	601006.SS
BSE	BBDC3.SA	BSE	PETR4.SA	CSI	601377.SS
BSE	BBDC4.SA	BSE	QUAL3.SA	CSI	600050.SS
BSE	BRAP4.SA	BSE	RADL3.SA	CSI	600795.SS
BSE	BRML3.SA	BSE	RAIL3.SA	CSI	601857.SS
BSE	BRKM5.SA	BSE	SBSP3.SA	CSI	601628.SS
BSE	BRFS3.SA	BSE	SANB11.SA	CSI	601336.SS
BSE	BPAC11.SA	BSE	SULA11.SA	CSI	601899.SS
BSE	CRFB3.SA	BSE	SUZB3.SA	CSI	600547.SS
BSE	CCRO3.SA	BSE	TAEE11.SA	CSI	600690.SS
BSE	CVCB3.SA	BSE	TOTS3.SA	CSI	600585.SS
BSE	CMIG4.SA	BSE	UGPA3.SA	CSI	600011.SS
BSE	HGTX3.SA	BSE	USIM5.SA	CSI	601985.SS
BSE	CIEL3.SA	BSE	VALE3.SA	CSI	600066.SS
BSE	COGN3.SA	BSE	VVAR3.SA	CSI	600637.SS
BSE	CSAN3.SA	BSE	YDUQ3.SA	CSI	601186.SS
BSE	CPFE3.SA	BSE	WEGE3.SA	CSI	600029.SS
BSE	CSNA3.SA	CSI	601318.SS	CSI	601088.SS
BSE	CYRE3.SA	CSI	600016.SS	CSI	601901.SS
BSE	ECOR3.SA	CSI	601166.SS	CSI	600111.SS
BSE	ENBR3.SA	CSI	600036.SS	CSI	601555.SS
BSE	ELET3.SA	CSI	601328.SS	CSI	600010.SS
BSE	ELET6.SA	CSI	600519.SS	CSI	600100.SS
BSE	EMBR3.SA	CSI	600000.SS	CSI	600570.SS
BSE	EGIE3.SA	CSI	600030.SS	CSI	600893.SS
BSE	EQTL3.SA	CSI	600837.SS	CSI	601099.SS
BSE	GGBR4.SA	CSI	601288.SS	CSI	600009.SS
BSE	GOLL4.SA	CSI	600887.SS	CSI	600115.SS
BSE	FLRY3.SA	CSI	601398.SS	CSI	601211.SS
BSE	HAPV3.SA	CSI	601169.SS	CSI	600271.SS

BSE	HYPE3.SA	CSI	600900.SS	CSI	600535.SS
BSE	IGTA3.SA	CSI	601668.SS	CSI	600705.SS
BSE	GNDI3.SA	CSI	601601.SS	CSI	600489.SS
BSE	IRBR3.SA	CSI	601766.SS	CSI	600703.SS
BSE		CSI		CSI	
	ITUB4.SA		600104.SS		600019.SS
BSE	ITSA4.SA	CSI	601988.SS	CSI	600196.SS
BSE	JBSS3.SA	CSI	600048.SS	CSI	600886.SS
BSE	KLBN11.SA	CSI	601818.SS	CSI	601669.SS
BSE	RENT3.SA	CSI	600276.SS	CSI	600089.SS
BSE	LAME4.SA	CSI	601688.SS	CSI	600109.SS
BSE	LREN3.SA	CSI	600015.SS	CSI	601607.SS
BSE	MGLU3.SA	CSI	600028.SS	CSI	601727.SS
BSE	MRFG3.SA	CSI	600518.SS	CSI	600177.SS
BSE	GOAU4.SA	CSI	600999.SS	CSI	600340.SS
Maulant /Indan	V-l +: -l	M	V-l+i-l	Ml+ /Il	V-l +: -l
Market/Index	Yahoo ticker	Market/Index	Yahoo ticker	Market/Index	Yahoo ticker
CSI	600804.SS	CSI	600895.SS	CSI	600578.SS
				CSI	
CSI	601198.SS	CSI	601106.SS		600783.SS
CSI	601888.SS	CSI	601333.SS	CSI	600022.SS
CSI	600023.SS	CSI	600027.SS	CSI	600188.SS
CSI	600352.SS	CSI	600688.SS	CSI	603885.SS
				CSI	
CSI	600383.SS	CSI	601098.SS		600606.SS
CSI	600406.SS	CSI	601633.SS	FSE	DRI.DE
CSI	600649.SS	CSI	601718.SS	FSE	TGT.DE
CSI	600867.SS	CSI	601866.SS	FSE	2INV.DE
CSI	601111.SS	CSI	600170.SS	FSE	UUU.DE
CSI	600369.SS	CSI	600252.SS	FSE	VSC.DE
CSI	600674.SS	CSI	600362.SS	FSE	ARL.DE
CSI	600741.SS	CSI	600373.SS	FSE	A4Y.DE
CSI	601600.SS	CSI	600737.SS	FSE	APM.DE
CSI	600221.SS	CSI	600873.SS	FSE	ADS.DE
CSI	600309.SS	CSI	600875.SS	FSE	ADJ.DE
				FSE	ADD.DE
CSI	601788.SS	CSI	601021.SS		
CSI	601919.SS	CSI	601258.SS	FSE	ADL.DE
CSI	600068.SS	CSI	601991.SS	FSE	ADV.DE
CSI	600118.SS	CSI	600037.SS	FSE	AIR.DE
CSI	600153.SS	CSI	600376.SS	FSE	AIXA.DE
CSI	600739.SS	CSI	601117.SS	FSE	ASL.DE
CSI	601018.SS	CSI	601872.SS	FSE	A1OS.DE
CSI	601933.SS	CSI	603000.SS	FSE	ALV.DE
CSI	600061.SS	CSI	600372.SS	FSE	ACT.DE
CSI	601618.SS	CSI	600704.SS	FSE	AAD.DE
CSI	601998.SS	CSI	601179.SS	FSE	AT1.DE
CSI			601898.SS	FSE	ART.DE
	600018.SS	CSI			
CSI	600016.5S 600085.SS	CSI	601992.SS	FSE	AOF.DE
CSI CSI	600085.SS 600415.SS	CSI CSI	601992.SS 600008.SS	FSE FSE	AOF.DE AAG.DE
CSI CSI	600085.SS 600415.SS 600718.SS	CSI CSI CSI	601992.SS 600008.SS 600021.SS	FSE FSE FSE	AOF.DE AAG.DE NDA.DE
CSI CSI CSI CSI	600085.SS 600415.SS 600718.SS 600583.SS	CSI CSI CSI CSI	601992.SS 600008.SS 600021.SS 600038.SS	FSE FSE FSE FSE	AOE.DE AAG.DE NDA.DE AG1.DE
CSI CSI CSI CSI CSI	600085.SS 600415.SS 600718.SS	CSI CSI CSI CSI CSI	601992.SS 600008.SS 600021.SS	FSE FSE FSE FSE FSE	AOF.DE AAG.DE NDA.DE
CSI CSI CSI CSI CSI	600085.SS 600415.SS 600718.SS 600583.SS 600588.SS	CSI CSI CSI CSI CSI	601992.SS 600008.SS 600021.SS 600038.SS 600827.SS	FSE FSE FSE FSE	AOF.DE AAG.DE NDA.DE AG1.DE AVES.DE
CSI CSI CSI CSI CSI CSI	600085.SS 600415.SS 600718.SS 600583.SS 600588.SS 600663.SS	CSI CSI CSI CSI CSI CSI	601992.SS 600008.SS 600021.SS 600038.SS 600827.SS 601216.SS	FSE FSE FSE FSE FSE FSE	AOF.DE AAG.DE NDA.DE AG1.DE AVES.DE BAS.DE
CSI CSI CSI CSI CSI CSI CSI CSI CSI	600085.SS 600415.SS 600718.SS 600583.SS 600588.SS 600663.SS 600816.SS	CSI CSI CSI CSI CSI CSI CSI CSI	601992.SS 600008.SS 600021.SS 600038.SS 600827.SS 601216.SS 600863.SS	FSE FSE FSE FSE FSE FSE FSE	AOF.DE AAG.DE NDA.DE AG1.DE AVES.DE BAS.DE BSL.DE
CSI CSI CSI CSI CSI CSI CSI CSI	600085.SS 600415.SS 600718.SS 600588.SS 600588.SS 600663.SS 600816.SS 600839.SS	CSI CSI CSI CSI CSI CSI CSI CSI CSI	601992.SS 600008.SS 600021.SS 600038.SS 600827.SS 601216.SS 600863.SS 600582.SS	FSE FSE FSE FSE FSE FSE FSE FSE	AOF.DE AAG.DE NDA.DE AG1.DE AVES.DE BAS.DE BSL.DE BSL.DE
CSI	600085.SS 600415.SS 600718.SS 600583.SS 600588.SS 600663.SS 600816.SS	CSI	601992.SS 600008.SS 600021.SS 600038.SS 600827.SS 601216.SS 600863.SS	FSE FSE FSE FSE FSE FSE FSE FSE	AOF.DE AAG.DE NDA.DE AG1.DE AVES.DE BAS.DE BSL.DE BST.DE BST.DE
CSI CSI CSI CSI CSI CSI CSI CSI	600085.SS 600415.SS 600718.SS 600588.SS 600588.SS 600663.SS 600816.SS 600839.SS	CSI CSI CSI CSI CSI CSI CSI CSI CSI	601992.SS 600008.SS 600021.SS 600038.SS 600827.SS 601216.SS 600863.SS 600582.SS 600600.SS	FSE FSE FSE FSE FSE FSE FSE FSE	AOF.DE AAG.DE NDA.DE AG1.DE AVES.DE BAS.DE BSL.DE BSL.DE
CSI	600085.SS 600415.SS 600718.SS 600588.SS 600588.SS 600663.SS 600816.SS 600839.SS 601800.SS 600150.SS	CSI	601992.SS 600008.SS 600021.SS 600038.SS 600827.SS 601216.SS 600863.SS 600582.SS 600600.SS 600666.SS	FSE FSE FSE FSE FSE FSE FSE FSE FSE FSE	AOF.DE AAG.DE NDA.DE AG1.DE AVES.DE BAS.DE BSL.DE BST.DE B5A.DE BSA.DE BSMW3.DE
CSI	600085.SS 600415.SS 600718.SS 600583.SS 600588.SS 600663.SS 600816.SS 600839.SS 601800.SS 600150.SS 600398.SS	CSI	601992.SS 600008.SS 600021.SS 600038.SS 600827.SS 601216.SS 600863.SS 600582.SS 600600.SS 600666.SS 600959.SS	FSE FSE FSE FSE FSE FSE FSE FSE FSE FSE	AOF.DE AAG.DE NDA.DE AG1.DE AVES.DE BAS.DE BSL.DE BST.DE BSA.DE BMW3.DE BMW.DE
CSI	600085.SS 600415.SS 600718.SS 600583.SS 600588.SS 600663.SS 600816.SS 600839.SS 601800.SS 600150.SS 600398.SS 600446.SS	CSI	601992.SS 600008.SS 600021.SS 600038.SS 600827.SS 601216.SS 600863.SS 600582.SS 600600.SS 600666.SS 600959.SS	FSE FSE FSE FSE FSE FSE FSE FSE FSE FSE	AOF.DE AAG.DE NDA.DE AG1.DE AVES.DE BAS.DE BSL.DE BST.DE BSM.DE BMW3.DE BMW.DE BAYN.DE
CSI	600085.SS 600415.SS 600718.SS 600583.SS 600588.SS 600663.SS 600816.SS 600839.SS 601800.SS 600150.SS 600398.SS	CSI	601992.SS 600008.SS 600021.SS 600038.SS 600827.SS 601216.SS 600863.SS 600582.SS 600600.SS 600666.SS 600959.SS	FSE FSE FSE FSE FSE FSE FSE FSE FSE FSE	AOF.DE AAG.DE NDA.DE AG1.DE AVES.DE BAS.DE BSL.DE BST.DE BSA.DE BMW3.DE BMW.DE
CSI	600085.SS 600415.SS 600718.SS 600583.SS 600588.SS 600663.SS 600816.SS 600839.SS 601800.SS 600150.SS 600398.SS 600446.SS 603993.SS	CSI	601992.SS 600008.SS 600021.SS 600038.SS 600827.SS 601216.SS 600863.SS 600582.SS 600600.SS 600666.SS 600959.SS 601928.SS	FSE FSE FSE FSE FSE FSE FSE FSE FSE FSE	AOF.DE AAG.DE NDA.DE AG1.DE AVES.DE BAS.DE BSL.DE BST.DE BST.DE BMW3.DE BMW.DE BAYN.DE BYW.DE
CSI	600085.SS 600415.SS 600718.SS 600583.SS 600588.SS 600663.SS 600816.SS 600839.SS 601800.SS 600150.SS 600398.SS 600446.SS 603993.SS 600157.SS	CSI	601992.SS 600008.SS 600021.SS 600038.SS 600827.SS 601216.SS 600863.SS 600582.SS 600600.SS 600666.SS 600959.SS 601928.SS 601958.SS 601958.SS	FSE FSE FSE FSE FSE FSE FSE FSE FSE FSE	AOF.DE AAG.DE NDA.DE AG1.DE AVES.DE BAS.DE BSL.DE BST.DE BSA.DE BSMW3.DE BMW.DE BAYN.DE BYW.DE BYW6.DE
CSI	600085.SS 600415.SS 600718.SS 6007583.SS 600588.SS 600663.SS 600816.SS 600839.SS 60150.SS 600150.SS 600398.SS 600446.SS 603993.SS 600157.SS 600208.SS	CSI	601992.SS 600008.SS 600021.SS 600021.SS 600038.SS 600827.SS 601216.SS 600863.SS 600582.SS 600600.SS 600666.SS 600959.SS 601928.SS 601958.SS 600648.SS	FSE FSE FSE FSE FSE FSE FSE FSE FSE FSE	AOF.DE AAG.DE NDA.DE AG1.DE AVES.DE BAS.DE BSL.DE BST.DE BSA.DE BSA.DE BSMW3.DE BMW.DE BAYN.DE BYW.DE BYW.DE BYW6.DE BBZA.DE
CSI	600085.SS 600415.SS 600718.SS 600718.SS 600583.SS 600583.SS 600816.SS 600839.SS 601800.SS 600150.SS 600398.SS 600446.SS 603993.SS 600157.SS 600208.SS 600208.SS	CSI	601992.SS 600008.SS 600021.SS 600021.SS 600038.SS 600827.SS 601216.SS 600582.SS 600582.SS 600600.SS 600666.SS 600959.SS 601928.SS 601928.SS 601958.SS 600648.SS 600685.SS	FSE	AOF.DE AAG.DE NDA.DE AG1.DE AVES.DE BAS.DE BSL.DE BST.DE BSA.DE BSMW.JDE BMW.DE BAYN.DE BYW.DE BYW6.DE BBZA.DE BBZA.DE BBZA.DE BBZA.DE
CSI	600085.SS 600415.SS 600718.SS 6007583.SS 600588.SS 600663.SS 600816.SS 600839.SS 60150.SS 600150.SS 600398.SS 600446.SS 603993.SS 600157.SS 600208.SS	CSI	601992.SS 600008.SS 600021.SS 600038.SS 600827.SS 601216.SS 600582.SS 600582.SS 600600.SS 600666.SS 600959.SS 601928.SS 601928.SS 601958.SS 600648.SS 600685.SS 600871.SS	FSE	AOF.DE AAG.DE NDA.DE AG1.DE AVES.DE BAS.DE BSL.DE BST.DE BST.DE BMW3.DE BMW.DE BAYN.DE BYW.DE BYW6.DE BBZA.DE BC8.DE BC8.DE
CSI	600085.SS 600415.SS 600718.SS 600718.SS 600583.SS 600583.SS 600816.SS 600839.SS 601800.SS 600150.SS 600398.SS 600446.SS 603993.SS 600157.SS 600208.SS 600208.SS	CSI	601992.SS 600008.SS 600021.SS 600021.SS 600038.SS 600827.SS 601216.SS 600582.SS 600582.SS 600600.SS 600666.SS 600959.SS 601928.SS 601928.SS 601958.SS 600648.SS 600685.SS	FSE	AOF.DE AAG.DE NDA.DE AG1.DE AVES.DE BAS.DE BSL.DE BST.DE BSA.DE BSMW.JDE BMW.DE BAYN.DE BYW.DE BYW6.DE BBZA.DE BBZA.DE BBZA.DE BBZA.DE
CSI	600085.SS 600415.SS 600718.SS 600583.SS 600583.SS 600663.SS 600816.SS 600839.SS 601800.SS 600150.SS 600398.SS 600446.SS 603993.SS 600157.SS 600208.SS 600208.SS 600208.SS 600060.SS 600060.SS	CSI	601992.SS 600008.SS 600021.SS 600021.SS 600038.SS 600827.SS 601216.SS 600582.SS 600600.SS 600666.SS 600959.SS 601928.SS 601928.SS 600648.SS 600685.SS 6006871.SS 600998.SS 601908.SS	FSE	AOF.DE AAG.DE NDA.DE AG1.DE AVES.DE BAS.DE BSL.DE BST.DE BST.DE BSMW.DE BMW.DE BAYN.DE BYW.DE BYW.DE BYW.DE BESA.DE BESA.DE BESA.DE BESA.DE BESA.DE
CSI	600085.SS 600415.SS 600718.SS 6007583.SS 600588.SS 600663.SS 600816.SS 600839.SS 60150.SS 600398.SS 600446.SS 603993.SS 600157.SS 600208.SS 600820.SS 600820.SS 600060.SS 600256.SS 600332.SS	CSI	601992.SS 600008.SS 600021.SS 600021.SS 600038.SS 600827.SS 601216.SS 600863.SS 600582.SS 600666.SS 600959.SS 601928.SS 601958.SS 600648.SS 600685.SS 600998.SS 600998.SS	FSE	AOF.DE AAG.DE NDA.DE AG1.DE AVES.DE BAS.DE BSL.DE BST.DE BST.DE BSMW.DE BMW.DE BAYN.DE BYW.DE BYW.DE BYW.DE BEZA.DE BFSA.DE BFSA.DE BFSA.DE BFSA.DE
CSI	600085.SS 600415.SS 600718.SS 600583.SS 600583.SS 600663.SS 600816.SS 600839.SS 601800.SS 600150.SS 600398.SS 600446.SS 603993.SS 600157.SS 600208.SS 600208.SS 600208.SS 600060.SS 600060.SS	CSI	601992.SS 600008.SS 600021.SS 600021.SS 600038.SS 600827.SS 601216.SS 600582.SS 600600.SS 600666.SS 600959.SS 601928.SS 601928.SS 600648.SS 600685.SS 6006871.SS 600998.SS 601908.SS	FSE	AOF.DE AAG.DE NDA.DE AG1.DE AVES.DE BAS.DE BSL.DE BST.DE BST.DE BSMW.DE BMW.DE BAYN.DE BYW.DE BYW.DE BYW.DE BESA.DE BESA.DE BESA.DE BESA.DE BESA.DE
CSI	600085.SS 600415.SS 600718.SS 6007583.SS 600588.SS 600663.SS 600816.SS 600839.SS 60150.SS 600398.SS 600446.SS 603993.SS 600157.SS 600208.SS 600820.SS 600820.SS 600060.SS 600256.SS 600332.SS	CSI	601992.SS 600008.SS 600021.SS 600021.SS 600038.SS 600827.SS 601216.SS 600582.SS 600600.SS 600666.SS 600959.SS 601928.SS 601928.SS 601958.SS 600648.SS 600685.SS 600871.SS 600998.SS 601808.SS 601808.SS	FSE FSE	AOF.DE AAG.DE NDA.DE AG1.DE AVES.DE BAS.DE BSL.DE BST.DE BST.DE BSMW.DE BMW.DE BAYN.DE BYW.DE BYW.DE BBZA.DE BBCA.DE BCA.DE BFSA.DE BCA.DE BCA.DE BCA.DE
CSI	600085.SS 600415.SS 600718.SS 600583.SS 600583.SS 600663.SS 600839.SS 601800.SS 600150.SS 600398.SS 600446.SS 603993.SS 600157.SS 600208.SS 600208.SS 600060.SS 600256.SS 600332.SS 600642.SS	CSI	601992.SS 600008.SS 600021.SS 600021.SS 600038.SS 600827.SS 601216.SS 600582.SS 600600.SS 600666.SS 600959.SS 601928.SS 601928.SS 601958.SS 600648.SS 600685.SS 60098.SS 601608.SS 601608.SS	FSE	AOF.DE AAG.DE NDA.DE AG1.DE AVES.DE BAS.DE BSL.DE BST.DE BSA.DE BMW.JDE BAYN.DE BYW.DE BYW.OE BBZA.DE BBZA.DE BBSA.DE BBSA.DE BBSA.DE BBL.DE BBL.DE BAYN.DE BYW.ODE BYW.ODE BYW.ODE BYW.ODE BYW.ODE BYW.ODE BYW.ODE BYW.ODE
CSI	600085.SS 600415.SS 600718.SS 600583.SS 600583.SS 600663.SS 600816.SS 600839.SS 60150.SS 600150.SS 600398.SS 600446.SS 603993.SS 600157.SS 600208.SS 600056.SS 600820.SS 600060.SS 600060.SS 600060.SS 600060.SS 600060.SS	CSI	601992.SS 600008.SS 600021.SS 600021.SS 600038.SS 600827.SS 601216.SS 600582.SS 600600.SS 600666.SS 600959.SS 601928.SS 601928.SS 601958.SS 600648.SS 600685.SS 600871.SS 600998.SS 601808.SS 601808.SS 601808.SS	FSE	AOF.DE AAG.DE NDA.DE AG1.DE AVES.DE BAS.DE BSL.DE BST.DE BST.DE BSA.DE BMW.JDE BAYN.DE BYW.DE BYW.DE BYW.DE BEZA.DE BESA.DE BESA.DE BCS.DE BFSA.DE BCS.DE BFSA.DE BFSA.DE BFSA.DE BEI.DE BOT.DE ACX.DE Yahoo ticker
CSI	600085.SS 600415.SS 600718.SS 600583.SS 600583.SS 600663.SS 600839.SS 601800.SS 600150.SS 600398.SS 600446.SS 603993.SS 600157.SS 600208.SS 600208.SS 600060.SS 600256.SS 600332.SS 600642.SS	CSI	601992.SS 600008.SS 600021.SS 600021.SS 600038.SS 600827.SS 601216.SS 600582.SS 600600.SS 600666.SS 600959.SS 601928.SS 601928.SS 601958.SS 600648.SS 600685.SS 60098.SS 601608.SS 601608.SS	FSE	AOF.DE AAG.DE NDA.DE AG1.DE AVES.DE BAS.DE BSL.DE BST.DE BSA.DE BMW.JDE BAYN.DE BYW.DE BYW.OE BBZA.DE BBZA.DE BBSA.DE BBSA.DE BBSA.DE BBL.DE BBL.DE BAYN.DE BYW.ODE BYW.ODE BYW.ODE BYW.ODE BYW.ODE BYW.ODE BYW.ODE BYW.ODE
CSI	600085.SS 600415.SS 600718.SS 600718.SS 600583.SS 600663.SS 600816.SS 600839.SS 60150.SS 600398.SS 600446.SS 60393.SS 600446.SS 600208.SS 600208.SS 600060.SS 600256.SS 600332.SS 600642.SS Yahoo ticker	CSI	601992.SS 600008.SS 600021.SS 600021.SS 600038.SS 600827.SS 601216.SS 600863.SS 600582.SS 600666.SS 600959.SS 601928.SS 601928.SS 601958.SS 600685.SS 600685.SS 600685.SS 601608.SS 601608.SS 601608.SS 601608.SS 601608.SS 601608.SS	FSE	AOF.DE AAG.DE NDA.DE AG1.DE AVES.DE BAS.DE BSL.DE BST.DE BSA.DE BST.DE BSMW.DE BMW.DE BAYN.DE BYW.DE BYW.6.DE BBZA.DE BESA.DE BESA.DE BESA.DE BCS.DE BFSA.DE BCS.DE BFSA.DE BHOS.DE
CSI	600085.SS 600415.SS 600718.SS 600718.SS 600583.SS 600588.SS 600663.SS 600816.SS 600839.SS 600150.SS 600398.SS 600446.SS 603993.SS 600157.SS 600208.SS 600208.SS 600060.SS 600256.SS 600332.SS 600642.SS Yahoo ticker	CSI	601992.SS 600008.SS 600021.SS 600021.SS 600038.SS 600827.SS 601216.SS 600582.SS 600582.SS 600666.SS 600959.SS 601928.SS 601958.SS 600648.SS 600685.SS 600685.SS 601608.SS 601608.SS 601608.SS 601608.SS 601608.SS 601608.SS	FSE	AOF.DE AAG.DE NDA.DE AG1.DE AG1.DE AVES.DE BAS.DE BSL.DE BST.DE BSA.DE BSMW.DE BMW.DE BAYN.DE BYW.DE BYW6.DE BEZ.DE BFSA.DE BFSA.DE BEL.DE BFSA.DE BFSA.DE BHOT.DE ACX.DE Yahoo ticker HEN.DE HUG.DE HOT.DE
CSI	600085.SS 600415.SS 600718.SS 600583.SS 600583.SS 600663.SS 600839.SS 601800.SS 600150.SS 600398.SS 600446.SS 600298.SS 600208.SS 600256.SS 600256.SS 600256.SS 600256.SS 600642.SS Yahoo ticker	CSI	601992.SS 600008.SS 600021.SS 600021.SS 600038.SS 600827.SS 601216.SS 600582.SS 600600.SS 600666.SS 600959.SS 601928.SS 601958.SS 601958.SS 600648.SS 600685.SS 600685.SS 601608.SS 601608.SS 601608.SS 601608.SS 601608.SS 601608.SS 601608.SS	FSE	AOF.DE AAG.DE NDA.DE AG1.DE AVES.DE BAS.DE BSL.DE BST.DE BST.DE BSMW.DE BMW.DE BAYN.DE BYW.DE BOT.DE BOT.DE ACX.DE Yahoo ticker HEN.DE HLG.DE HOT.DE HOT.DE
CSI	600085.SS 600415.SS 600718.SS 600718.SS 600583.SS 600588.SS 600663.SS 600816.SS 600839.SS 600150.SS 600398.SS 600446.SS 603993.SS 600157.SS 600208.SS 600208.SS 600060.SS 600256.SS 600332.SS 600642.SS Yahoo ticker	CSI	601992.SS 600008.SS 600021.SS 600021.SS 600038.SS 600827.SS 601216.SS 600582.SS 600582.SS 600666.SS 600959.SS 601928.SS 601928.SS 601958.SS 600648.SS 600648.SS 600685.SS 60098.SS 601808.SS 601808.SS 601808.SS 601808.SS 611808.SS 611808.SS 611808.SS 611808.SS 611808.SS 611808.SS 611808.SS 611808.SS 611808.SS	FSE	AOF.DE AAG.DE NDA.DE AG1.DE AG1.DE AVES.DE BAS.DE BSL.DE BST.DE BSA.DE BSMW.DE BMW.DE BAYN.DE BYW.DE BYW6.DE BEZ.DE BFSA.DE BFSA.DE BEL.DE BFSA.DE BFSA.DE BHOT.DE ACX.DE Yahoo ticker HEN.DE HUG.DE HOT.DE
CSI	600085.SS 600415.SS 600718.SS 600583.SS 600583.SS 600663.SS 600839.SS 600150.SS 600150.SS 600446.SS 600398.SS 600457.SS 600208.SS 600208.SS 600208.SS 600208.SS 600208.SS 600208.SS 600208.SS 600208.SS 600208.SS 600208.SS 600208.SS 600208.SS 600208.SS 600332.SS 600642.SS Yahoo ticker GBF.DE BBF.DE BIO.DE BIO.DE BIO3.DE BVB.DE	CSI	601992.SS 600008.SS 600021.SS 600021.SS 600038.SS 600827.SS 601216.SS 600582.SS 600582.SS 600666.SS 600959.SS 601928.SS 601928.SS 601958.SS 600648.SS 600648.SS 600685.SS 60098.SS 601808.SS 601808.SS 601808.SS 601808.SS 611808.SS 611808.SS 611808.SS 611808.SS 611808.SS 611808.SS 611808.SS 611808.SS 611808.SS	FSE	AOF.DE AAG.DE NDA.DE AG1.DE AVES.DE BAS.DE BSL.DE BST.DE BST.DE BST.DE BMW.3.DE BMW.DE BAYN.DE BYW.DE BYR.DE
CSI	600085.SS 600415.SS 600718.SS 600718.SS 600588.SS 600588.SS 600663.SS 600816.SS 600839.SS 600150.SS 600398.SS 600446.SS 603993.SS 600157.SS 600208.SS 600060.SS	CSI	601992.SS 600008.SS 600021.SS 600021.SS 600021.SS 600827.SS 601216.SS 600863.SS 600582.SS 600666.SS 600959.SS 601928.SS 601928.SS 600648.SS 600685.SS 600871.SS 600998.SS 601808.SS 601808.SS 601808.SS 601808.SS 601808.SS 601808.SS 601808.SS 601808.SS 601808.SS 601808.SS 601808.SS 601808.SS 601808.SS 601808.SS 601808.SS	FSE	AOF.DE AAG.DE NDA.DE AG1.DE AG1.DE AVES.DE BAS.DE BSL.DE BST.DE BSA.DE BSMW.DE BMW.DE BAYN.DE BYW.DE BYW.DE BYD.DE BYD.DE BYD.DE BYW.DE BYA.DE
CSI	600085.SS 600415.SS 600718.SS 600718.SS 600588.SS 600663.SS 600816.SS 600839.SS 60150.SS 600398.SS 600446.SS 600939.SS 600208.SS 600208.SS 600208.SS 600256.SS 600256.SS 600325.SS 600642.SS Yahoo ticker GBF.DE BBF.DE BIO.DE BIO.DE BNR.DE BNR.DE	CSI	601992.SS 600008.SS 600021.SS 600021.SS 600038.SS 600827.SS 601216.SS 600863.SS 600582.SS 600666.SS 600959.SS 601928.SS 601928.SS 601958.SS 600685.SS 600685.SS 600685.SS 601608.SS 601608.SS 601608.SS 601608.SS 611808.SS	FSE	AOF.DE AAG.DE NDA.DE AG1.DE AVES.DE BAS.DE BSL.DE BST.DE BSA.DE BSMW.DE BMW.DE BAYN.DE BYW.DE BYW.DE BEZA.DE BEZA.DE BEZA.DE BEZA.DE BEZA.DE BEL.DE BOT.DE ACX.DE Yahoo ticker HEN.DE HUG.DE
CSI	600085.SS 600415.SS 600718.SS 600718.SS 600583.SS 600663.SS 600816.SS 600839.SS 600150.SS 600150.SS 600398.SS 600446.SS 600208.SS 600208.SS 600208.SS 600256.SS 600256.SS 600332.SS 600642.SS Yahoo ticker GBF.DE BBF.DE BIO.DE BIO.DE BIO3.DE BNN.DE BNN.DE BNR.DE COK.DE	CSI	601992.SS 600008.SS 600021.SS 600021.SS 600038.SS 600827.SS 601216.SS 600582.SS 600582.SS 600666.SS 600959.SS 601928.SS 601958.SS 600648.SS 600685.SS 600685.SS 60168.SS 60168.SS 60168.SS 60168.SS 60168.SS 60168.SS 60168.SS 601808.SS	FSE	AOF.DE AAG.DE NDA.DE AG1.DE AVES.DE BAS.DE BSL.DE BST.DE BSA.DE BSMW.DE BMW.DE BAYN.DE BYW.DE BYW.DE BYE.DE BFSA.DE BFSA.DE BFSA.DE BEL.DE BFSA.DE BH.DE BOT.DE ACX.DE Yahoo ticker HEN.DE HLG.DE HOT.DE HOC.DE HBM.DE HBH.DE BOSS.DE
CSI	600085.SS 600415.SS 600718.SS 600718.SS 600588.SS 600663.SS 600816.SS 600839.SS 60150.SS 600398.SS 600446.SS 600939.SS 600208.SS 600208.SS 600208.SS 600256.SS 600256.SS 600325.SS 600642.SS Yahoo ticker GBF.DE BBF.DE BIO.DE BIO.DE BNR.DE BNR.DE	CSI	601992.SS 600008.SS 600021.SS 600021.SS 600038.SS 600827.SS 601216.SS 600863.SS 600582.SS 600666.SS 600959.SS 601928.SS 601928.SS 601958.SS 600685.SS 600685.SS 600685.SS 601608.SS 601608.SS 601608.SS 601608.SS 611808.SS	FSE	AOF.DE AAG.DE NDA.DE AG1.DE AVES.DE BAS.DE BSL.DE BST.DE BSA.DE BSMW.DE BMW.DE BAYN.DE BYW.DE BYW.DE BEZA.DE BEZA.DE BEZA.DE BEZA.DE BEZA.DE BEL.DE BOT.DE ACX.DE Yahoo ticker HEN.DE HUG.DE
CSI	600085.SS 600415.SS 600718.SS 600583.SS 600583.SS 600663.SS 600839.SS 601800.SS 600150.SS 600398.SS 600446.SS 600298.SS 600256.SS 600256.SS 600256.SS 600256.SS 600256.SS 600256.SS 600642.SS Yahoo ticker GBF.DE BBF.DE BIO.DE BIO.DE BIO.DE BNN.DE BNN.DE BNN.DE COK.DE CPX.DE	CSI	601992.SS 600008.SS 600021.SS 600021.SS 600038.SS 600827.SS 601216.SS 600582.SS 600600.SS 600666.SS 600959.SS 601928.SS 601958.SS 601958.SS 601958.SS 601958.SS 601958.SS 601958.SS 601958.SS 601958.SS 601958.SS 601958.SS 601608.SS 601608.SS 601608.SS 601608.SS 601608.SS 601108.SS	FSE	AOF.DE AAG.DE NDA.DE AG1.DE AVES.DE BAS.DE BSL.DE BST.DE BST.DE BSMW.DE BMW.DE BAYN.DE BYW.DE BYW.DE BYW.DE BYW.DE BYW.DE BFSA.DE BFSA.DE BFSA.DE BFSA.DE BFSA.DE BFL.DE BDT.DE ACX.DE Yahoo ticker HEN.DE HLG.DE HOT.DE HOC.DE H24.DE HBM.DE HBH.DE HBH.DE BOSS.DE HYQ.DE
CSI	600085.SS 600415.SS 600718.SS 600718.SS 600583.SS 600583.SS 600663.SS 600839.SS 600150.SS 600398.SS 600446.SS 600298.SS 600208.SS 600256.SS 600256.SS 600256.SS 600256.SS 600332.SS 600642.SS Yahoo ticker GBF.DE BBF.DE BIO.DE BIO.DE BIO.DE BIO.DE BIO.DE BIN.DE BNR.DE COK.DE CPX.DE AFX.DE	CSI	601992.SS 600008.SS 600021.SS 600021.SS 600038.SS 600827.SS 601216.SS 600582.SS 600682.SS 6006959.SS 600666.SS 600959.SS 601928.SS 601928.SS 601958.SS 600648.SS 600685.SS 600685.SS 600098.SS 601808.SS 601808.SS 601808.SS 601808.SS 61180	FSE	AOF.DE AAG.DE NDA.DE AG1.DE AVES.DE BAS.DE BSL.DE BST.DE BST.DE BST.DE BMW.3.DE BMW.DE BAYN.DE BYW.DE BYW.DE BYW.DE BYW.ODE BFSA.DE BEL.DE BFSA.DE BCS.DE BFSA.DE BL.DE BOT.DE ACX.DE Yahoo ticker HEN.DE HUG.DE HOT.DE
CSI	600085.SS 600415.SS 600718.SS 600718.SS 600718.SS 600588.SS 600663.SS 600816.SS 600810.SS 600150.SS 600398.SS 600446.SS 600398.SS 600446.SS 600398.SS 60040060.SS 600208.SS 600060.SS 6000	CSI	601992.SS 600008.SS 600021.SS 600021.SS 600021.SS 600038.SS 600827.SS 601216.SS 600863.SS 600666.SS 600666.SS 600959.SS 601928.SS 6011928.SS 601192	FSE	AOF.DE AAG.DE NDA.DE AG1.DE AG1.DE AVES.DE BAS.DE BSL.DE BST.DE BSA.DE BSMW.DE BMW.DE BAYN.DE BYW.DE BYW.ODE B
CSI	600085.SS 600415.SS 600718.SS 600718.SS 600718.SS 600588.SS 600663.SS 600816.SS 600839.SS 601800.SS 600150.SS 600398.SS 600446.SS 603993.SS 600157.SS 600208.SS 600208.SS 600060.SS 600256.SS 6000642.SS Yahoo ticker GBF.DE BBF.DE BIO.DE BIO3.DE BVB.DE BNN.DE BNN.DE COK.DE CPX.DE AFX.DE CEC1.DE CWC.DE	CSI	601992.SS 600008.SS 600021.SS 600021.SS 600021.SS 600038.SS 600827.SS 601216.SS 600863.SS 600582.SS 600666.SS 600959.SS 601928.SS 601928.SS 601958.SS 601958.SS 600685.SS 600685.SS 600685.SS 600685.SS 601608.SS 601608.SS 601608.SS 601108.SS 601608.SS 601098.SS ELG.DE ELG.DE ELG.DE ELG.DE ELG.DE ELG.DE ELG.DE ELG.DE ELS.DE ECX.DE ECX.DE ECX.DE EVY.DE EXC.DE EXC.DE FAA.DE	FSE	AOF.DE AAG.DE NDA.DE AG1.DE AVES.DE BAS.DE BSL.DE BSL.DE BSA.DE BSA.DE BSA.DE BSW.DE BMW.DE BAYN.DE BYW.DE BOS.DE HEN.DE HBM.DE HBM.DE HBM.DE HBM.DE BOSS.DE HYQ.DE INH.DE IFX.DE IXX.DE
CSI	600085.SS 600415.SS 600718.SS 600718.SS 600718.SS 600588.SS 600663.SS 600816.SS 600810.SS 600150.SS 600398.SS 600446.SS 600398.SS 600446.SS 600398.SS 60040060.SS 600208.SS 600060.SS 6000	CSI	601992.SS 600008.SS 600021.SS 600021.SS 600021.SS 600038.SS 600827.SS 601216.SS 600863.SS 600666.SS 600666.SS 600959.SS 601928.SS 6011928.SS 601192	FSE	AOF.DE AAG.DE NDA.DE AG1.DE AG1.DE AVES.DE BAS.DE BSL.DE BST.DE BSA.DE BSMW.DE BMW.DE BAYN.DE BYW.DE BYW.ODE B
CSI	600085.SS 600415.SS 600718.SS 600718.SS 600583.SS 600663.SS 600816.SS 600839.SS 601800.SS 600150.SS 600398.SS 600446.SS 600256.SS 600256.SS 60032.SS 600642.SS Yahoo ticker GBF.DE BIO.DE BIO.DE BIO3.DE BNN.DE BNN.DE BNN.DE COK.DE CPX.DE AFX.DE CEC1.DE CWC.DE COM.DE	CSI	601992.SS 600008.SS 600021.SS 600021.SS 600021.SS 600038.SS 600827.SS 601216.SS 600863.SS 600582.SS 600666.SS 600959.SS 601928.SS 601958.SS 600648.SS 600685.SS 600685.SS 600685.SS 601608.SS 601608.SS 601608.SS 601108.SS 601108	FSE	AOF.DE AAG.DE NDA.DE AG1.DE AVES.DE BAS.DE BSL.DE BST.DE BSA.DE BST.DE BSA.DE BMW.DE BAYN.DE BYW.DE BYW.DE BYW.DE BYW6.DE BFSA.DE BEL.DE BFSA.DE BEL.DE BOT.DE ACX.DE Yahoo ticker HEN.DE HLG.DE HOT.DE HOC.DE HLG.DE HBM.DE HBM.DE HBM.DE HBM.DE HBM.DE HBM.DE HBM.DE HBM.DE HBM.DE HSS.DE HYQ.DE INH.DE IXX.DE IXX.DE IXX.DE IXX.DE
CSI	600085.SS 600415.SS 600718.SS 600583.SS 600583.SS 600663.SS 600816.SS 600839.SS 600150.SS 600398.SS 600446.SS 600256.SS 600256.SS 600320.SS 600256.SS 600256.SS 600332.SS 600642.SS Yahoo ticker GBF.DE BBF.DE BIO.DE BIO3.DE BVB.DE BNN.DE BNN.DE BNN.DE BNN.DE COK.DE COK.DE COK.DE COK.DE COM.DE	CSI	601992.SS 600008.SS 600021.SS 600021.SS 600038.SS 600827.SS 601216.SS 600863.SS 600582.SS 600600.SS 600666.SS 600959.SS 601928.SS 601958.SS 601608.SS 601608.SS 601608.SS 601108.SS 601108	FSE	AOF.DE AAG.DE NDA.DE AG1.DE AVES.DE BAS.DE BSL.DE BST.DE BST.DE BST.DE BMW.BE BAYN.DE BYW.DE BOT.DE ACX.DE Yahoo ticker HEN.DE HLG.DE HOT.DE HOC.DE H24.DE HBM.DE HBH.DE BOSS.DE HYQ.DE INH.DE IFX.DE INS.DE IST.DE
CSI	600085.SS 600415.SS 600718.SS 600718.SS 600583.SS 600583.SS 600663.SS 600816.SS 600839.SS 600150.SS 600398.SS 600446.SS 600256.SS 600256.SS 600256.SS 6003232.SS 600642.SS Yahoo ticker GBF.DE BBF.DE BIO.DE BIO.DE BIO3.DE BVB.DE BNN.DE BNN.DE COK.DE CPX.DE AFX.DE CCC1.DE CWC.DE COM.DE	CSI	601992.SS 600008.SS 600021.SS 600021.SS 600038.SS 600827.SS 601216.SS 600863.SS 600582.SS 600600.SS 600666.SS 600959.SS 601928.SS 601958.SS 601808.SS	FSE	AOF.DE AAG.DE NDA.DE AG1.DE AVES.DE BAS.DE BSL.DE BST.DE BST.DE BST.DE BMW.DE BMW.DE BAYN.DE BYW.DE BYW.DE BYW.DE BYW.ODE BFSA.DE BEL.DE BFSA.DE BEL.DE BOT.DE ACX.DE Yahoo ticker HEN.DE HLG.DE HOT.DE HOT.DE HOT.DE HOT.DE HOT.DE HOT.DE HOT.DE HOT.DE HOL.DE HSW.DE HBH.DE HBH.DE HBH.DE BOSS.DE HYQ.DE INH.DE IXX.DE IXX.DE IXX.DE IXS.DE IST.DE IVX.DE
CSI	600085.SS 600415.SS 600718.SS 600583.SS 600583.SS 600663.SS 600816.SS 600839.SS 600150.SS 600398.SS 600446.SS 600256.SS 600256.SS 600320.SS 600256.SS 600332.SS 600642.SS Yahoo ticker GBF.DE BBF.DE BIO.DE BIO.DE BIO3.DE BVB.DE BNN.DE BNN.DE BNN.DE BNN.DE COK.DE COK.DE COK.DE COK.DE COM.DE	CSI	601992.SS 600008.SS 600021.SS 600021.SS 600038.SS 600827.SS 601216.SS 600863.SS 600582.SS 600600.SS 600666.SS 600959.SS 601928.SS 601958.SS 601608.SS 601608.SS 601608.SS 601108.SS 601108	FSE	AOF.DE AAG.DE NDA.DE AG1.DE AVES.DE BAS.DE BSL.DE BST.DE BST.DE BST.DE BMW.BE BAYN.DE BYW.DE BOT.DE ACX.DE Yahoo ticker HEN.DE HLG.DE HOT.DE HOC.DE H24.DE HBM.DE HBH.DE BOSS.DE HYQ.DE INH.DE IFX.DE INS.DE IST.DE
CSI	600085.SS 600415.SS 600718.SS 600718.SS 600718.SS 600588.SS 600663.SS 600816.SS 600816.SS 600150.SS 600398.SS 600446.SS 600398.SS 600446.SS 600398.SS 600406.SS 600208.SS 600208.SS 600060.SS 600256.SS 600322.SS 600642.SS Yahoo ticker GBF.DE BBF.DE BIO.DE BIO3.DE BVB.DE BIO.DE BNN.DE BNN.DE BNN.DE BNN.DE COK.DE CCY.DE CWC.DE CWC.DE COM.DE CCM.DE CCM.DE COM.DE	CSI	601992.SS 600008.SS 600021.SS 600021.SS 600021.SS 600038.SS 600827.SS 601216.SS 600863.SS 600666.SS 600666.SS 600959.SS 601928.SS 601928	FSE	AOF.DE AAG.DE NDA.DE AG1.DE AG1.DE AVES.DE BAS.DE BSL.DE BST.DE BSA.DE BST.DE BSA.DE BSW.DE BMW.DE BAYN.DE BYW.DE BYW.6.DE BBZA.DE BESA.DE BESA.DE BESA.DE BESA.DE BOT.DE ACX.DE Yahoo ticker HEN.DE HLG.DE HOT.DE HOC.DE H24.DE HBM.DE HBH.DE BOSS.DE HYQ.DE INH.DE IFX.DE IXX.DE IVX.DE IVX.DE IVX.DE
CSI	600085.SS 600415.SS 600718.SS 600718.SS 600718.SS 600588.SS 600663.SS 600816.SS 600839.SS 601800.SS 600150.SS 600398.SS 600446.SS 600398.SS 600446.SS 600208.SS 600208.SS 600266.SS 600256.SS 600060.SS 600256.SS 600642.SS Yahoo ticker GBF.DE BBF.DE BIO.DE BIO3.DE BVB.DE BNN.DE BNN.DE BNN.DE COK.DE COX.DE COX.DE COX.DE COX.DE COX.DE COY.DE COM.DE COY.DE CON.DE CON.DE CON.DE CON.DE CON.DE COX.DE	CSI	601992.SS 600008.SS 600021.SS 600021.SS 600021.SS 600038.SS 600827.SS 601216.SS 600863.SS 600582.SS 600600.SS 600666.SS 600959.SS 601928.SS 601928	FSE	AOF.DE AAG.DE NDA.DE AG1.DE AVES.DE BAS.DE BSL.DE BSL.DE BSA.DE BSA.DE BSA.DE BSW.DE BMW.DE BAYN.DE BYW.DE BYW.DE BYW.DE BYW.DE BYW.DE BYW.DE BYW.DE BOR.DE BEL.DE BOR.DE
CSI	600085.SS 600415.SS 600718.SS 600718.SS 600583.SS 600863.SS 600816.SS 600839.SS 601800.SS 600150.SS 600398.SS 600446.SS 600256.SS 600256.SS 60032.SS 600642.SS Yahoo ticker GBF.DE BBO.DE BIO.DE BIO.DE BIO.DE BIO.DE BIO.DE BNN.DE BNN.DE COK.DE COK.DE COK.DE COK.DE COM.DE	CSI	601992.SS 600008.SS 600021.SS 600021.SS 600038.SS 600827.SS 601216.SS 600863.SS 600582.SS 600666.SS 600959.SS 601928.SS 601958.SS 601958.SS 600648.SS 600685.SS 600685.SS 600871.SS 60098.SS 601608.SS 601608.SS 6011008.SS	FSE	AOF.DE AAG.DE NDA.DE AG1.DE AVES.DE BAS.DE BSL.DE BST.DE BSA.DE BST.DE BSA.DE BMW.DE BAYN.DE BYW.DE BYW.DE BYW.DE BYW6.DE BFSA.DE BFSA.DE BFSA.DE BFSA.DE BC3.DE BFSA.DE BHT.DE ACX.DE Yahoo ticker HEN.DE HLG.DE HOC.DE H24.DE HBM.DE HBH.DE BOSS.DE HYQ.DE INH.DE IST.DE IXX.DE IVX.DE IVX.DE IVV.DE JEN.DE JST.DE
CSI	600085.SS 600415.SS 600718.SS 600583.SS 600583.SS 600863.SS 600816.SS 600839.SS 601800.SS 600150.SS 600398.SS 600446.SS 600256.SS 600256.SS 600320.SS 600256.SS 600332.SS 600642.SS Yahoo ticker GBF.DE BBF.DE BIO.DE BIO3.DE BVB.DE BNN.DE BNN.DE BNN.DE BNN.DE COK.DE	CSI	601992.SS 600008.SS 600021.SS 600021.SS 600021.SS 600038.SS 600827.SS 601216.SS 600863.SS 600582.SS 600600.SS 600666.SS 600959.SS 601928.SS 601928.SS 601958.SS 601958	FSE	AOF.DE AAG.DE NDA.DE AG1.DE AVES.DE BAS.DE BSL.DE BST.DE BST.DE BST.DE BMW.DE BMW.DE BAYN.DE BYW.DE BYW.DE BYW.OE BFSA.DE BFSA.DE BFSA.DE BCB.DE BFSA.DE BCB.DE BOT.DE ACX.DE Yahoo ticker HEN.DE HLG.DE HOC.DE H24.DE HBM.DE HBH.DE HBH.DE HBH.DE IFX.DE IXX.DE IXX.DE IXS.DE IVV.DE IST.DE IVV.DE JEN.DE JEN.DE JUN3.DE
CSI	600085.SS 600415.SS 600718.SS 600718.SS 600583.SS 600863.SS 600816.SS 600839.SS 601800.SS 600150.SS 600398.SS 600446.SS 600256.SS 600256.SS 60032.SS 600642.SS Yahoo ticker GBF.DE BBO.DE BIO.DE BIO.DE BIO.DE BIO.DE BIO.DE BNN.DE BNN.DE COK.DE COK.DE COK.DE COK.DE COM.DE	CSI	601992.SS 600008.SS 600021.SS 600021.SS 600038.SS 600827.SS 601216.SS 600863.SS 600582.SS 600666.SS 600959.SS 601928.SS 601958.SS 601958.SS 600648.SS 600685.SS 600685.SS 600871.SS 60098.SS 601608.SS 601608.SS 6011008.SS	FSE	AOF.DE AAG.DE NDA.DE AG1.DE AVES.DE BAS.DE BSL.DE BST.DE BSA.DE BST.DE BSA.DE BMW.DE BAYN.DE BYW.DE BYW.DE BYW.DE BYW6.DE BFSA.DE BFSA.DE BFSA.DE BFSA.DE BC3.DE BFSA.DE BHT.DE ACX.DE Yahoo ticker HEN.DE HLG.DE HOC.DE H24.DE HBM.DE HBH.DE BOSS.DE HYQ.DE INH.DE IST.DE IXX.DE IVX.DE IVX.DE IVV.DE JEN.DE JST.DE
CSI	600085.SS 600415.SS 600718.SS 600718.SS 600718.SS 600588.SS 600663.SS 600816.SS 600816.SS 600150.SS 600398.SS 600446.SS 600398.SS 600446.SS 600398.SS 60040060.SS 600208.SS 600060.SS 600256.SS 600322.SS 600642.SS Yahoo ticker GBF.DE BBF.DE BIO.DE BIO3.DE BNR.DE BNR.DE BNR.DE COK.DE CPX.DE CPX.DE CPX.DE CCY.DE COM.DE	CSI	601992.SS 600008.SS 600021.SS 600021.SS 600021.SS 600021.SS 600038.SS 600827.SS 601216.SS 600863.SS 600666.SS 600959.SS 601928.SS 601928.SS 601958.SS 600648.SS 600685.SS 600871.SS 600998.SS 601608.SS 601808.SS 601808	FSE	AOF.DE AAG.DE NDA.DE AG1.DE AVES.DE BAS.DE BSL.DE BST.DE BSA.DE BST.DE BSA.DE BSW.DE BMW.DE BAYN.DE BYW.DE BYW.G.DE BST.DE BST.DE BST.DE BST.DE BYW.DE BOS.DE HOT.DE HOC.DE HOT.DE HOC.DE HOT.DE HOW.DE INH.DE IFX.DE INS.DE INS.DE INS.DE IVX.DE IVV.DE IVV.DE JST.DE JUN3.DE SDE.DE
CSI	600085.SS 600415.SS 600718.SS 600583.SS 600583.SS 600863.SS 600816.SS 600839.SS 601800.SS 600150.SS 600398.SS 600446.SS 600256.SS 600256.SS 600320.SS 600256.SS 600332.SS 600642.SS Yahoo ticker GBF.DE BBF.DE BIO.DE BIO3.DE BVB.DE BNN.DE BNN.DE BNN.DE BNN.DE COK.DE	CSI	601992.SS 600008.SS 600021.SS 600021.SS 600021.SS 600038.SS 600827.SS 601216.SS 600863.SS 600582.SS 600600.SS 600666.SS 600959.SS 601928.SS 601928.SS 601958.SS 601958	FSE	AOF.DE AAG.DE NDA.DE AG1.DE AVES.DE BAS.DE BSL.DE BST.DE BST.DE BST.DE BMW.DE BMW.DE BAYN.DE BYW.DE BYW.DE BYW.OE BFSA.DE BFSA.DE BFSA.DE BCB.DE BFSA.DE BCB.DE BOT.DE ACX.DE Yahoo ticker HEN.DE HLG.DE HOC.DE H24.DE HBM.DE HBH.DE HBH.DE HBH.DE IFX.DE IXX.DE IXX.DE IXS.DE IVV.DE IST.DE IVV.DE JEN.DE JEN.DE JUN3.DE

FSE	DAM.DE	FSE	VH2.DE	FSE	KCO.DE
FSE	DHER.DE	FSE	FPE3.DE	FSE	KTA.DE
FSE	DEX.DE	FSE	FPE.DE	FSE	KBX.DE
FSE	DMRE.DE	FSE	FBEN.DE	FSE	SKB.DE
FSE	DMP.DE	FSE	GTY.DE	FSE	KSC.DE
FSE	DBK.DE	FSE	G1A.DE	FSE	KRN.DE
FSE	DB1.DE	FSE	GME.DE	FSE	KU2.DE
FSE	DEQ.DE	FSE	GXI.DE	FSE	KWS.DE
FSE	DPW.DE	FSE	GSC1.DE	FSE	LXS.DE
FSE	DWNI.DE	FSE	GFT.DE	FSE	LEG.DE
FSE	DEZ.DE	FSE	GGS.DE	FSE	LEI.DE
FSE	DFV.DE	FSE	GKS.DE	FSE	LEO.DE
FSE	DLG.DE	FSE	GFG.DE	FSE	LIN.DE
FSE	DIC.DE	FSE	GMM.DE	FSE	TGHN.DE
FSE	DBD.DE	FSE	GYC.DE	FSE	LPK.DE
FSE	GIL.DE	FSE	GLJ.DE	FSE	ECK.DE
FSE	HNL.DE	FSE	2HRA.DE	FSE	LHA.DE
FSE	DRW8.DE	FSE	690D.DE	FSE	M5Z.DE
FSE	DRW3.DE	FSE	HHFA.DE	FSE	MZX.DE
FSE	DBAN.DE	FSE	HNR1.DE	FSE	MXHN.DE
FSE	PBB.DE	FSE	HLAG.DE	FSE	MBB.DE
FSE	DTE.DE	FSE	HAW.DE	FSE	MED.DE
FSE	DUE.DE	FSE	HEI.DE	FSE	MDG1.DE
FSE	DWS.DE	FSE	HDD.DE	FSE	ILM1.DE
FSE	EOAN.DE	FSE	HLE.DE	FSE	MRK.DE
FSE	EUZ.DE	FSE	HFG.DE	FSE	B4B.DE
		M 1 . // 1			
Market/Index	Yahoo ticker	Market/Index	Yahoo ticker	Market/Index	Yahoo ticker
FSE	B4B3.DE	FSE	F3C.DE	FSE	V3V.DE
FSE	MLP.DE	FSE	SGL.DE	FSE	VOW.DE
FSE	MOR.DE	FSE	SAE.DE	FSE	VOW3.DE
FSE	MTX.DE	FSE	SIE.DE	FSE	VBX.DE
FSE	MUV2.DE	FSE	ENR.DE	FSE	VNA.DE
FSE	MVV1.DE	FSE	SHL.DE	FSE	VOS.DE
FSE		FSE	WAF.DE	FSE	
	NA9.DE				WCH.DE
FSE	NEM.DE	FSE	SNG.DE	FSE	WAC.DE
FSE	NWO.DE	FSE	LNSX.DE	FSE	WSU.DE
FSE	NXU.DE	FSE	SIX2.DE	FSE	WEW.DE
FSE	NFN.DE	FSE	SIX3.DE	FSE	WDL.DE
FSE	NDX1.DE	FSE	AM3D.DE	FSE	WUW.DE
FSE	NOEJ.DE	FSE	S92.DE	FSE	YOC.DE
FSE	OHB.DE	FSE	SHF.DE	FSE	ZAL.DE
FSE	OSR.DE	FSE	SYT.DE	FSE	TIMA.DE
FSE	O4B.DE	FSE	SOW.DE	FSE	ZO1.DE
FSE	PA8.DE	FSE	STM.DE	FTSE	III.L
FSE	PGN.DE	FSE	SNH.DE	FTSE	ABDN.L
FSE	PAT.DE	FSE	S9I.DE	FTSE	ADM.L
FSE	O2C.DE	FSE	SBS.DE	FTSE	AAL.L
FSE	PFV.DE	FSE	SAX.DE	FTSE	ANTO.L
FSE	PSG.DE	FSE	SZU.DE	FTSE	AHT.L
FSE	PNE3.DE	FSE	SMHN.DE	FTSE	ABF.L
FSE	PCZ.DE	FSE	SUR.DE	FTSE	AZN.L
FSE	PWO.DE	FSE	SY1.DE	FTSE	AUTO.L
FSE	PSM.DE	FSE	SYAB.DE	FTSE	AVST.L
FSE	PSAN.DE	FSE	SYAB.DE	FTSE	AVV.L
FSE	PUM.DE	FSE	SYZ.DE	FTSE	AV.L
FSE	TPE.DE	FSE	TEG.DE	FTSE	BME.L
FSE	QIA.DE	FSE	TTK.DE	FTSE	BA.L
FSE	RSL2.DE	FSE	TLX.DE	FTSE	BARC.L
FSE	RAA.DE	FSE	TMV.DE	FTSE	BDEV.L
FSE	RHM.DE	FSE	TTR1.DE	FTSE	BKG.L
FSE	RHK.DE	FSE	TC1.DE	FTSE	BHP.L
FSE	RY8.DE	FSE	O2D.DE	FTSE	BP.L
FSE	RRTL.DE	FSE	TLIK.DE	FTSE	BATS.L
FSE	RWE.DE	FSE	TKA.DE	FTSE	BLND.L
FSE	SANT.DE	FSE	8TRA.DE	FTSE	BNZL.L
FSE	SFQ.DE	FSE	UN01.DE	FTSE	BRBY.L
FSE	SZG.DE	FSE	ULC.DE	FTSE	CCH.L
			OSP2.DE		
FSE	CADDE			FTSE	CPG.L
FSE	SAP.DE	FSE			CRH.L
	SRT.DE	FSE	UTDI.DE	FTSE	
FSE				FTSE FTSE	CRDA.L
FSE	SRT.DE SRT3.DE	FSE FSE	UTDI.DE VTWR.DE	FTSE	CRDA.L
FSE FSE	SRT.DE SRT3.DE SHA.DE	FSE FSE FSE	UTDI.DE VTWR.DE VQT.DE	FTSE FTSE	CRDA.L DCC.L
FSE FSE FSE	SRT.DE SRT3.DE SHA.DE SLT.DE	FSE FSE FSE FSE	UTDI.DE VTWR.DE VQT.DE VAR1.DE	FTSE FTSE FTSE	CRDA.L DCC.L DGE.L
FSE FSE FSE FSE	SRT.DE SRT3.DE SHA.DE SLT.DE G24.DE	FSE FSE FSE FSE FSE	UTDI.DE VTWR.DE VQT.DE VAR1.DE VBK.DE	FTSE FTSE FTSE FTSE	CRDA.L DCC.L DGE.L ENT.L
FSE FSE FSE	SRT.DE SRT3.DE SHA.DE SLT.DE	FSE FSE FSE FSE	UTDI.DE VTWR.DE VQT.DE VAR1.DE	FTSE FTSE FTSE	CRDA.L DCC.L DGE.L
FSE FSE FSE FSE	SRT.DE SRT3.DE SHA.DE SLT.DE G24.DE	FSE FSE FSE FSE FSE	UTDI.DE VTWR.DE VQT.DE VAR1.DE VBK.DE	FTSE FTSE FTSE FTSE	CRDA.L DCC.L DGE.L ENT.L
FSE FSE FSE FSE FSE FSE	SRT.DE SRT3.DE SHA.DE SLT.DE G24.DE YSN.DE SJJ.DE	FSE FSE FSE FSE FSE FSE FSE	UTDI.DE VTWR.DE VQT.DE VAR1.DE VBK.DE VIB3.DE V6C.DE	FTSE FTSE FTSE FTSE FTSE FTSE	CRDA.L DCC.L DGE.L ENT.L EVR.L EXPN.L
FSE FSE FSE FSE FSE	SRT.DE SRT3.DE SHA.DE SLT.DE G24.DE YSN.DE	FSE FSE FSE FSE FSE FSE	UTDI.DE VTWR.DE VQT.DE VAT1.DE VBK.DE VIB3.DE	FTSE FTSE FTSE FTSE FTSE	CRDA.L DCC.L DGE.L ENT.L EVR.L
FSE FSE FSE FSE FSE FSE	SRT.DE SRT3.DE SHA.DE SLT.DE G24.DE YSN.DE SJJ.DE	FSE FSE FSE FSE FSE FSE FSE	UTDI.DE VTWR.DE VQT.DE VAR1.DE VBK.DE VIB3.DE V6C.DE	FTSE FTSE FTSE FTSE FTSE FTSE	CRDA.L DCC.L DGE.L ENT.L EVR.L EXPN.L
FSE FSE FSE FSE FSE FSE Market/Index	SRT.DE SRT3.DE SHA.DE SLT.DE G24.DE YSN.DE SJJ.DE Yahoo ticker FERG.L	FSE FSE FSE FSE FSE FSE Market/Index	UTDI.DE VTWR.DE VQT.DE VAR1.DE VBK.DE VIB3.DE V6C.DE Yahoo ticker	FTSE FTSE FTSE FTSE FTSE FTSE Market/Index JSE	CRDA.L DCC.L DGE.L ENT.L EVR.L EXPN.L Yahoo ticker BTI.JO
FSE FSE FSE FSE FSE FSE FSE Market/Index FTSE FTSE	SRT.DE SRT3.DE SHA.DE SLT.DE G24.DE YSN.DE SJJ.DE Yahoo ticker FERG.L FLTR.L	FSE FSE FSE FSE FSE FSE FSE FSE FSE Market/Index FTSE FTSE	UTDI.DE VTWR.DE VQT.DE VAR1.DE VBK.DE VIB3.DE V6C.DE Yahoo ticker SMT.L SGRO.L	FTSE FTSE FTSE FTSE FTSE FTSE Market/Index JSE JSE	CRDA.L DCC.L DGE.L ENT.L EVR.L EXPN.L Yahoo ticker BTI.JO CCO.JO
FSE FSE FSE FSE FSE FSE FSE Market/Index FTSE FTSE FTSE	SRT.DE SRT3.DE SHA.DE SHA.DE G24.DE YSN.DE SJJ.DE Yahoo ticker FERG.L FLTR.L FRES.L	FSE FSE FSE FSE FSE FSE FSE FSE Market/Index FTSE FTSE FTSE FTSE	UTDI.DE VTWR.DE VQT.DE VAR1.DE VBK.DE VIB3.DE V6C.DE Yahoo ticker SMT.L SGRO.L SVT.L	FTSE FTSE FTSE FTSE FTSE FTSE Market/Index JSE JSE JSE	CRDA.L DCC.L DGE.L ENT.L EVR.L EXPN.L Yahoo ticker BTI.JO CCO.JO CPI.JO
FSE FSE FSE FSE FSE FSE Market/Index FTSE FTSE FTSE FTSE FTSE	SRT.DE SRT3.DE SHA.DE SHA.DE G24.DE YSN.DE SJJ.DE Yahoo ticker FERG.L FITR.L FRES.L GSK.L	FSE FSE FSE FSE FSE FSE Market/Index FTSE FTSE FTSE FTSE FTSE	UTDI.DE VTWR.DE VQT.DE VAR1.DE VBK.DE VIB3.DE V6C.DE Yahoo ticker SMT.L SGRO.L SVT.L SMDS.L	FTSE FTSE FTSE FTSE FTSE FTSE Market/Index JSE JSE JSE JSE	CRDA.L DCC.L DGE.L ENT.L EVR.L EXPN.L Yahoo ticker BTI.JO CCO.JO CPI.JO CSB.JO
FSE FSE FSE FSE FSE FSE FSE Market/Index FTSE FTSE FTSE	SRT.DE SRT3.DE SHA.DE SHA.DE G24.DE YSN.DE SJJ.DE Yahoo ticker FERG.L FLTR.L FRES.L	FSE FSE FSE FSE FSE FSE FSE FSE Market/Index FTSE FTSE FTSE FTSE	UTDI.DE VTWR.DE VQT.DE VAR1.DE VBK.DE VIB3.DE V6C.DE Yahoo ticker SMT.L SGRO.L SVT.L	FTSE FTSE FTSE FTSE FTSE FTSE Market/Index JSE JSE JSE	CRDA.L DCC.L DGE.L ENT.L EVR.L EXPN.L Yahoo ticker BTI.JO CCO.JO CPI.JO
FSE FSE FSE FSE FSE FSE Market/Index FTSE FTSE FTSE FTSE FTSE FTSE FTSE	SRT.DE SRT3.DE SRT3.DE SHA.DE SLT.DE G24.DE YSN.DE SJJ.DE Yahoo ticker FERG.L FLTR.L FRES.L GSK.L GLEN.L	FSE FSE FSE FSE FSE FSE FSE FSE FSE FTSE FT	UTDI.DE VTWR.DE VQT.DE VAR1.DE VBK.DE VIB3.DE V6C.DE Yahoo ticker SMT.L SGRO.L SVT.L SMDS.L SMIN.L	FTSE FTSE FTSE FTSE FTSE FTSE Market/Index JSE JSE JSE JSE JSE JSE	CRDA.L DCC.L DGE.L ENT.L EVR.L EXPN.L Yahoo ticker BTI.JO CCO.JO CPI.JO CSB.JO CAT.JO
FSE FSE FSE FSE FSE FSE Market/Index FTSE FTSE FTSE FTSE FTSE FTSE FTSE FTSE	SRT.DE SRT3.DE SHA.DE SLT.DE G24.DE YSN.DE SJJ.DE Yahoo ticker FERG.L FLTR.L FRES.L GSK.L GLEN.L HLMA.L	FSE FSE FSE FSE FSE FSE Market/Index FTSE FTSE FTSE FTSE FTSE FTSE FTSE FTSE	UTDI.DE VTWR.DE VQT.DE VAR1.DE VBK.DE VIB3.DE V6C.DE Yahoo ticker SMT.L SGRO.L SVT.L SMDS.L SMIN.L SMIN.L SN.L	FTSE FTSE FTSE FTSE FTSE Market/Index JSE JSE JSE JSE JSE JSE JSE JSE JSE	CRDA.L DCC.L DGE.L ENTL EVR.L EXPN.L Yahoo ticker BTI.JO CCO.JO CPI.JO CSB.JO CAT.JO CKS.JO
FSE FSE FSE FSE FSE FSE Market/Index FTSE FTSE FTSE FTSE FTSE FTSE FTSE FTSE	SRT.DE SRT3.DE SHA.DE SLT.DE G24.DE YSN.DE SJJ.DE Yahoo ticker FERG.L FLTR.L FRES.L GSK.L GLEN.L HLMA.L HL.L	FSE FSE FSE FSE FSE FSE FSE Market/Index FTSE FTSE FTSE FTSE FTSE FTSE FTSE FTSE	UTDI.DE VTWR.DE VQT.DE VAR1.DE VBK.DE VIB3.DE V6C.DE Yahoo ticker SMT.L SGRO.L SVT.L SMDS.L SMIN.L SMIN.L SN.L SKG.L	FTSE FTSE FTSE FTSE FTSE FTSE Market/Index JSE	CRDA.L DCC.L DGE.L ENT.L EVR.L EXPN.L Yahoo ticker BTI.JO CCO.JO CPI.JO CSB.JO CAT.JO CKS.JO DTC.JO
FSE FSE FSE FSE FSE FSE Market/Index FTSE FTSE FTSE FTSE FTSE FTSE FTSE FTS	SRT.DE SRT3.DE SHA.DE SHA.DE G24.DE YSN.DE SJJ.DE Yahoo ticker FERG.L FLTR.L FRES.L GSK.L GLEN.L HLMA.L HLLL HIK.L	FSE FSE FSE FSE FSE FSE FSE Market/Index FTSE FTSE FTSE FTSE FTSE FTSE FTSE FTSE	UTDI.DE VTWR.DE VQT.DE VAR1.DE VBK.DE VIB3.DE V6C.DE Yahoo ticker SMT.L SGRO.L SVT.L SMDS.L SMIN.L SMIN.L SKG.L SKG.L SPX.L	FTSE FTSE FTSE FTSE FTSE FTSE Market/Index JSE JSE JSE JSE JSE JSE JSE JSE JSE JS	CRDA.L DCC.L DGE.L ENT.L EVR.L EXPN.L Yahoo ticker BTI.JO CCO.JO CPI.JO CSB.JO CAT.JO CKS.JO DTC.JO EMI.JO
FSE FSE FSE FSE FSE FSE Market/Index FTSE FTSE FTSE FTSE FTSE FTSE FTSE FTS	SRT.DE SRT3.DE SHA.DE SLT.DE G24.DE YSN.DE SJJ.DE Yahoo ticker FERG.L FLTR.L FRES.L GSK.L GLEN.L HLMA.L HL.L	FSE FSE FSE FSE FSE FSE FSE FSE Market/Index FTSE FTSE FTSE FTSE FTSE FTSE FTSE FTSE	UTDI.DE VTWR.DE VQT.DE VAR1.DE VBK.DE VIB3.DE V6C.DE Yahoo ticker SMT.L SGRO.L SVT.L SMDS.L SMIN.L SNIL SKG.L SPX.L SPX.L SPX.L SSE.L	FTSE FTSE FTSE FTSE FTSE FTSE Market/Index JSE JSE JSE JSE JSE JSE JSE JSE JSE JS	CRDA.L DCC.L DGE.L ENT.L EVR.L EXPN.L Yahoo ticker BTI.JO CCO.JO CPI.JO CSB.JO CAT.JO CKS.JO DTC.JO
FSE FSE FSE FSE FSE FSE Market/Index FTSE FTSE FTSE FTSE FTSE FTSE FTSE FTS	SRT.DE SRT3.DE SHA.DE SHA.DE G24.DE YSN.DE SJJ.DE Yahoo ticker FERG.L FLTR.L FRES.L GSK.L GLEN.L HLMA.L HLLL HIK.L	FSE FSE FSE FSE FSE FSE FSE Market/Index FTSE FTSE FTSE FTSE FTSE FTSE FTSE FTSE	UTDI.DE VTWR.DE VQT.DE VAR1.DE VBK.DE VIB3.DE V6C.DE Yahoo ticker SMT.L SGRO.L SVT.L SMDS.L SMIN.L SMIN.L SKG.L SKG.L SPX.L	FTSE FTSE FTSE FTSE FTSE FTSE Market/Index JSE JSE JSE JSE JSE JSE JSE JSE JSE JS	CRDA.L DCC.L DGE.L ENT.L EVR.L EXPN.L Yahoo ticker BTI.JO CCO.JO CPI.JO CSB.JO CAT.JO CKS.JO DTC.JO EMI.JO

FTSE FTSE	13.475.1				
FTSE	IMB.L	FTSE	STJ.L	JSE	EXX.JO
			DIA.L.		
PERCE	INF.L	FTSE	TW.L	JSE	FVT.JO
FTSE	ICP.L	FTSE	TSCO.L	JSE	FBR.JO
FTSE	IAG.L	FTSE	ULVR.L	JSE	FSR.JO
FTSE	ITRK.L	FTSE	UU.L	JSE	TFG.JO
FTSE	ITV.L	FTSE	VOD.L	JSE	GND.JO
FTSE	JD.L	FTSE	WEIR.L	JSE	HCI.JO
FTSE	JMAT.L	FTSE	WTB.L	JSE	HDC.JO
FTSE	JET.L	FTSE	WPP.L	JSE	INL.JO
FTSE	KGF.L	JSE	ACS.JO	JSE	INP.JO
FTSE	LAND.L	JSE	ADI.JO	ĴSE	IVT.JO
FTSE	LGEN.L	JSE	AIP.JO	JSE	ISA.JO
FTSE	LLOY.L	JSE	ADR.JO	JSE	ITE.JO
FTSE	LSEG.L	JSE	ADH.JO	JSE	JSC.JO
FTSE	MNG.L	JSE	AFE.JO	JSE	JSE.JO
FTSE	MRO.L	JSE	AOO.JO	JSE	KAP.JO
FTSE	MNDI.L	JSE	ADW.JO	JSE	KIO.JO
FTSE	NG.L	JSE	AME.JO	ĴSE	LAB.JO
FTSE	NWG.L	JSE	ARI.JO	JSE	LEW.JO
FTSE	NXT.L	JSE	AFT.JO	JSE	LBH.JO
FTSE	OCDO.L	JSE	ACT.JO	JSE	LHC.JO
FTSE	PSON.L	JSE	AFH.JO	JSE	OCT.JO
FTSE	PSH.L	JSE	ARH.JO	JSE	OMN.JO
FTSE	PSN.L	JSE	ACL.JO	JSE	OLG.JO
FTSE	PHNX.L	JSE	ART.JO	JSE	RACP.JO
FTSE	POLY.L	JSE	APN.JO	JSE	RBX.JO
FTSE	PRU.L	JSE	ARL.JO	JSE	RDF.JO
FTSE	RKT.L	JSE	AEG.JO	JSE	REM.JO
FTSE	REL.L	JSE	AVI.JO	JSE	RES.JO
FTSE	RTO.L	JSE	BAW.JO	JSE	RSG.JO
FTSE	RMV.L	JSE	BAU.JO	JSE	RLO.JO
FTSE	RIO.L	JSE	BEL.JO	JSE	RMH.JO
FTSE	RR.L	JSE	BVT.JO	JSE	RBP.JO
FTSE	RDSA.L	JSE	BLU.JO	JSE	SLM.JO
FTSE	RMG.L	JSE	BCF.JO	ĴSE	SNT.JO
FTSE	SGE.L	JSE	BAT.JO	JSE	SNV.JO
FTSE	SBRY.L	ISE	BIK.JO	JSE	SAP.JO
FTSE	SDR.L	JSE	BRT.JO	JSE	SFN.JO
Market/Index	Yahoo ticker	Market/Index	Vahoo tialran	Market/Index	Vahoo tialran
Market/illuex	rando ticker	Market/Illuex	Yahoo ticker	Market/index	Yahoo ticker
JSE	SOL.JO	KSE	161390.KS	KSE	214330.KS
KSE	244920.KS	KSE	123690.KS	KSE	339770.KS
KSE	140910.KS	KSE	128940.KS	KSE	214390.KS
KSE		KSE		KSE	
	298690.KS		105630.KS		267290.KS
KSE	161000.KS	KSE	213500.KS	KSE	115390.KS
KSE	183190.KS	KSE	272210.KS	KSE	108670.KS
IXJL					

KSE	267850.KS	KSE	294870.KS	KSE	280360.KS
KSE	155900.KS	KSE	322000.KS	KSE	286940.KS
KSE KSE	155900.KS 282330.KS	KSE KSE	322000.KS 172580.KS	KSE KSE	286940.KS 330590.KS
KSE	155900.KS	KSE	322000.KS	KSE	286940.KS
KSE KSE KSE	155900.KS 282330.KS 352820.KS	KSE KSE KSE	322000.KS 172580.KS 153360.KS	KSE KSE KSE	286940.KS 330590.KS 229640.KS
KSE KSE KSE KSE	155900.KS 282330.KS 352820.KS 138930.KS	KSE KSE KSE KSE	322000.KS 172580.KS 153360.KS 111110.KS	KSE KSE KSE KSE	286940.KS 330590.KS 229640.KS 900140.KS
KSE KSE KSE	155900.KS 282330.KS 352820.KS	KSE KSE KSE	322000.KS 172580.KS 153360.KS	KSE KSE KSE	286940.KS 330590.KS 229640.KS
KSE KSE KSE KSE KSE	155900.KS 282330.KS 352820.KS 138930.KS 308170.KS	KSE KSE KSE KSE KSE	322000.KS 172580.KS 153360.KS 111110.KS 298050.KS	KSE KSE KSE KSE KSE	286940.KS 330590.KS 229640.KS 900140.KS 204320.KS
KSE KSE KSE KSE KSE KSE	155900.KS 282330.KS 352820.KS 138930.KS 308170.KS 100250.KS	KSE KSE KSE KSE KSE KSE	322000.KS 172580.KS 153360.KS 111110.KS 298050.KS 298000.KS	KSE KSE KSE KSE KSE KSE	286940.KS 330590.KS 229640.KS 900140.KS 204320.KS 357250.KS
KSE KSE KSE KSE KSE KSE KSE	155900.KS 282330.KS 352820.KS 138930.KS 308170.KS 100250.KS 185750.KS	KSE KSE KSE KSE KSE KSE KSE	322000.KS 172580.KS 153360.KS 111110.KS 298050.KS 298000.KS 298040.KS	KSE KSE KSE KSE KSE KSE	286940.KS 330590.KS 229640.KS 900140.KS 204320.KS 357250.KS 134380.KS
KSE KSE KSE KSE KSE KSE	155900.KS 282330.KS 352820.KS 138930.KS 308170.KS 100250.KS	KSE KSE KSE KSE KSE KSE	322000.KS 172580.KS 153360.KS 111110.KS 298050.KS 298000.KS	KSE KSE KSE KSE KSE KSE	286940.KS 330590.KS 229640.KS 900140.KS 204320.KS 357250.KS
KSE KSE KSE KSE KSE KSE KSE	155900.KS 282330.KS 352820.KS 138930.KS 308170.KS 100250.KS 185750.KS 120030.KS	KSE KSE KSE KSE KSE KSE KSE	322000.KS 172580.KS 153360.KS 111110.KS 298050.KS 298000.KS 298040.KS 298020.KS	KSE KSE KSE KSE KSE KSE KSE	286940.KS 330590.KS 229640.KS 900140.KS 204320.KS 357250.KS 134380.KS 138040.KS
KSE KSE KSE KSE KSE KSE KSE KSE	155900.KS 282330.KS 352820.KS 138930.KS 308170.KS 100250.KS 185750.KS 120030.KS	KSE KSE KSE KSE KSE KSE KSE KSE	322000.KS 172580.KS 153360.KS 111110.KS 298050.KS 298000.KS 298040.KS 298020.KS 267270.KS	KSE KSE KSE KSE KSE KSE KSE	286940.KS 330590.KS 229640.KS 900140.KS 204320.KS 357250.KS 134380.KS 138040.KS 268280.KS
KSE KSE KSE KSE KSE KSE KSE KSE KSE	155900.KS 282330.KS 352820.KS 138930.KS 308170.KS 100250.KS 185750.KS 120030.KS 109070.KS	KSE KSE KSE KSE KSE KSE KSE KSE KSE	322000.KS 172580.KS 153360.KS 111110.KS 298050.KS 298000.KS 298040.KS 298020.KS 267270.KS 227840.KS	KSE KSE KSE KSE KSE KSE KSE KSE	286940.KS 330590.KS 229640.KS 900140.KS 204320.KS 357250.KS 134380.KS 138040.KS 268280.KS 204210.KS
KSE KSE KSE KSE KSE KSE KSE KSE	155900.KS 282330.KS 352820.KS 138930.KS 308170.KS 100250.KS 185750.KS 120030.KS	KSE KSE KSE KSE KSE KSE KSE KSE	322000.KS 172580.KS 153360.KS 111110.KS 298050.KS 298000.KS 298040.KS 298020.KS 267270.KS	KSE KSE KSE KSE KSE KSE KSE	286940.KS 330590.KS 229640.KS 900140.KS 204320.KS 357250.KS 134380.KS 138040.KS 268280.KS
KSE KSE KSE KSE KSE KSE KSE KSE KSE	155900.KS 282330.KS 352820.KS 138930.KS 308170.KS 100250.KS 185750.KS 120030.KS 109070.KS 192820.KS 264900.KS	KSE KSE KSE KSE KSE KSE KSE KSE KSE KSE	322000.KS 172580.KS 153360.KS 111110.KS 298050.KS 298000.KS 298040.KS 298020.KS 267270.KS 227840.KS	KSE KSE KSE KSE KSE KSE KSE KSE KSE	286940.KS 330590.KS 229640.KS 900140.KS 204320.KS 357250.KS 134380.KS 138040.KS 268280.KS 204210.KS
KSE KSE KSE KSE KSE KSE KSE KSE KSE KSE	155900.KS 282330.KS 352820.KS 138930.KS 308170.KS 100250.KS 185750.KS 120030.KS 109070.KS 192820.KS 264900.KS	KSE	322000.KS 172580.KS 153360.KS 111110.KS 298050.KS 298000.KS 298040.KS 298020.KS 267270.KS 227840.KS 267260.KS 126560.KS	KSE	286940.KS 330590.KS 229640.KS 900140.KS 204320.KS 357250.KS 134380.KS 138040.KS 268280.KS 204210.KS 107590.KS
KSE KSE KSE KSE KSE KSE KSE KSE KSE KSE	155900.KS 282330.KS 352820.KS 138930.KS 308170.KS 100250.KS 185750.KS 120030.KS 109070.KS 192820.KS 264900.KS 112610.KS	KSE	322000.KS 172580.KS 153360.KS 111110.KS 298050.KS 298000.KS 298040.KS 298020.KS 267270.KS 227840.KS 267260.KS 126560.KS 267250.KS	KSE	286940.KS 330590.KS 229640.KS 900140.KS 204320.KS 357250.KS 134380.KS 138040.KS 268280.KS 204210.KS 107590.KS 251270.KS
KSE KSE KSE KSE KSE KSE KSE KSE KSE KSE	155900.KS 282330.KS 352820.KS 138930.KS 308170.KS 100250.KS 185750.KS 120030.KS 109070.KS 192820.KS 264900.KS	KSE	322000.KS 172580.KS 153360.KS 111110.KS 298050.KS 298000.KS 298040.KS 298020.KS 267270.KS 227840.KS 267260.KS 126560.KS 267250.KS	KSE	286940.KS 330590.KS 229640.KS 900140.KS 204320.KS 357250.KS 134380.KS 138040.KS 268280.KS 204210.KS 107590.KS
KSE	155900.KS 282330.KS 352820.KS 138930.KS 308170.KS 100250.KS 185750.KS 120030.KS 109070.KS 192820.KS 264900.KS 112610.KS 192400.KS	KSE	322000.KS 172580.KS 153360.KS 111110.KS 298050.KS 298000.KS 298040.KS 298020.KS 267270.KS 227840.KS 267260.KS 126560.KS 267250.KS	KSE	286940.KS 330590.KS 229640.KS 900140.KS 204320.KS 357250.KS 134380.KS 138040.KS 268280.KS 204210.KS 107590.KS 251270.KS 181710.KS
KSE KSE KSE KSE KSE KSE KSE KSE KSE KSE	155900.KS 282330.KS 352820.KS 138930.KS 308170.KS 100250.KS 185750.KS 120030.KS 109070.KS 192820.KS 264900.KS 112610.KS 192400.KS 284740.KS 353200.KS	KSE	322000.KS 172580.KS 153360.KS 111110.KS 298050.KS 298000.KS 298040.KS 298020.KS 267270.KS 227840.KS 267260.KS 126560.KS 126550.KS 307950.KS	KSE	286940.KS 330590.KS 229640.KS 900140.KS 204320.KS 357250.KS 134380.KS 138040.KS 268280.KS 204210.KS 107590.KS 251270.KS 181710.KS 138250.KS 271560.KS
KSE	155900.KS 282330.KS 352820.KS 138930.KS 308170.KS 100250.KS 185750.KS 120030.KS 109070.KS 192820.KS 264900.KS 112610.KS 192400.KS	KSE	322000.KS 172580.KS 153360.KS 111110.KS 298050.KS 298000.KS 298020.KS 267270.KS 267270.KS 267260.KS 126560.KS 126560.KS 307950.KS 350520.KS	KSE	286940.KS 330590.KS 229640.KS 900140.KS 204320.KS 357250.KS 134380.KS 138040.KS 268280.KS 204210.KS 107590.KS 251270.KS 181710.KS 138250.KS 271560.KS
KSE	155900.KS 282330.KS 352820.KS 138930.KS 308170.KS 100250.KS 185750.KS 120030.KS 109070.KS 192820.KS 264900.KS 112610.KS 192400.KS 284740.KS 353200.KS	KSE	322000.KS 172580.KS 153360.KS 111110.KS 298050.KS 298000.KS 298020.KS 267270.KS 267270.KS 267260.KS 126560.KS 126560.KS 307950.KS 350520.KS	KSE	286940.KS 330590.KS 229640.KS 900140.KS 204320.KS 357250.KS 134380.KS 138040.KS 268280.KS 204210.KS 107590.KS 251270.KS 181710.KS 138250.KS 271560.KS
KSE	155900.KS 282330.KS 352820.KS 138930.KS 308170.KS 100250.KS 185750.KS 120030.KS 109070.KS 192820.KS 264900.KS 112610.KS 192400.KS 284740.KS 353200.KS 117580.KS	KSE	322000.KS 172580.KS 153360.KS 111110.KS 298050.KS 298000.KS 298040.KS 298020.KS 267270.KS 267270.KS 267260.KS 126560.KS 126560.KS 307950.KS 350520.KS 334890.KS	KSE	286940.KS 330590.KS 229640.KS 900140.KS 204320.KS 357250.KS 134380.KS 138040.KS 268280.KS 204210.KS 107590.KS 251270.KS 181710.KS 138250.KS 271560.KS 950210.KS
KSE	155900.KS 282330.KS 352820.KS 138930.KS 308170.KS 100250.KS 185750.KS 120030.KS 109070.KS 192820.KS 264900.KS 112610.KS 192400.KS 284740.KS 353200.KS 117580.KS 128820.KS	KSE	322000.KS 172580.KS 153360.KS 111110.KS 298050.KS 298000.KS 298040.KS 298020.KS 267270.KS 227840.KS 267260.KS 126560.KS 126560.KS 307950.KS 350520.KS 334890.KS 249420.KS	KSE	286940.KS 330590.KS 229640.KS 900140.KS 204320.KS 357250.KS 134380.KS 138040.KS 268280.KS 204210.KS 107590.KS 251270.KS 181710.KS 138250.KS 271560.KS 950210.KS 103140.KS
KSE	155900.KS 282330.KS 352820.KS 138930.KS 308170.KS 100250.KS 185750.KS 120030.KS 109070.KS 192820.KS 264900.KS 112610.KS 192400.KS 284740.KS 353200.KS 117580.KS	KSE	322000.KS 172580.KS 153360.KS 111110.KS 298050.KS 298000.KS 298040.KS 298020.KS 267270.KS 267270.KS 267260.KS 126560.KS 126560.KS 307950.KS 350520.KS 334890.KS	KSE	286940.KS 330590.KS 229640.KS 900140.KS 204320.KS 357250.KS 134380.KS 138040.KS 268280.KS 204210.KS 107590.KS 251270.KS 181710.KS 138250.KS 271560.KS 950210.KS
KSE	155900.KS 282330.KS 352820.KS 138930.KS 308170.KS 100250.KS 185750.KS 120030.KS 109070.KS 192820.KS 264900.KS 112610.KS 192400.KS 284740.KS 353200.KS 117580.KS 128820.KS 145720.KS	KSE	322000.KS 172580.KS 153360.KS 111110.KS 298050.KS 298000.KS 298040.KS 298020.KS 267270.KS 227840.KS 267260.KS 126560.KS 126560.KS 307950.KS 334890.KS 249420.KS 103590.KS	KSE	286940.KS 330590.KS 229640.KS 900140.KS 204320.KS 357250.KS 134380.KS 138040.KS 268280.KS 204210.KS 107590.KS 251270.KS 181710.KS 138250.KS 271560.KS 950210.KS 103140.KS 102460.KS
KSE	155900.KS 282330.KS 352820.KS 138930.KS 308170.KS 100250.KS 185750.KS 120030.KS 109070.KS 192820.KS 264900.KS 112610.KS 192400.KS 284740.KS 353200.KS 117580.KS 128820.KS 145720.KS 139130.KS	KSE	322000.KS 172580.KS 172580.KS 153360.KS 111110.KS 298050.KS 298040.KS 298020.KS 267270.KS 227840.KS 267260.KS 126560.KS 267250.KS 307950.KS 350520.KS 334890.KS 249420.KS 103590.KS 122900.KS	KSE	286940.KS 330590.KS 229640.KS 900140.KS 204320.KS 357250.KS 134380.KS 138040.KS 268280.KS 204210.KS 107590.KS 251270.KS 181710.KS 138250.KS 271560.KS 950210.KS 103140.KS 103440.KS
KSE	155900.KS 282330.KS 352820.KS 138930.KS 308170.KS 100250.KS 185750.KS 120030.KS 109070.KS 192820.KS 264900.KS 112610.KS 192400.KS 284740.KS 353200.KS 117580.KS 128820.KS 145720.KS	KSE	322000.KS 172580.KS 153360.KS 111110.KS 298050.KS 298000.KS 298040.KS 298020.KS 267270.KS 267270.KS 267260.KS 126560.KS 267250.KS 307950.KS 350520.KS 334890.KS 249420.KS 103590.KS 122900.KS	KSE	286940.KS 330590.KS 229640.KS 900140.KS 204320.KS 357250.KS 134380.KS 138040.KS 268280.KS 204210.KS 107590.KS 251270.KS 181710.KS 138250.KS 271560.KS 950210.KS 103140.KS 102460.KS
KSE	155900.KS 282330.KS 352820.KS 138930.KS 308170.KS 100250.KS 185750.KS 120030.KS 109070.KS 192820.KS 264900.KS 112610.KS 192400.KS 284740.KS 353200.KS 117580.KS 128820.KS 145720.KS 139130.KS 375500.KS	KSE	322000.KS 172580.KS 153360.KS 111110.KS 298050.KS 298000.KS 298040.KS 298020.KS 267270.KS 267270.KS 267260.KS 126560.KS 267250.KS 307950.KS 350520.KS 334890.KS 249420.KS 103590.KS 122900.KS	KSE	286940.KS 330590.KS 229640.KS 900140.KS 204320.KS 357250.KS 134380.KS 13804.KS 268280.KS 204210.KS 107590.KS 251270.KS 181710.KS 138250.KS 271560.KS 950210.KS 103140.KS 102460.KS 100840.KS
KSE	155900.KS 282330.KS 352820.KS 138930.KS 308170.KS 100250.KS 185750.KS 120030.KS 109070.KS 192820.KS 264900.KS 112610.KS 192400.KS 284740.KS 353200.KS 117580.KS 128820.KS 145720.KS 139130.KS 375500.KS 282690.KS	KSE	322000.KS 172580.KS 153360.KS 111110.KS 298050.KS 298000.KS 298040.KS 298020.KS 267270.KS 267270.KS 267260.KS 126560.KS 267250.KS 307950.KS 350520.KS 334890.KS 249420.KS 103590.KS 122900.KS 101140.KS 214320.KS	KSE	286940.KS 330590.KS 229640.KS 900140.KS 204320.KS 357250.KS 134380.KS 138040.KS 268280.KS 204210.KS 107590.KS 251270.KS 181710.KS 138250.KS 271560.KS 950210.KS 103140.KS 102460.KS 100840.KS
KSE	155900.KS 282330.KS 352820.KS 138930.KS 308170.KS 100250.KS 185750.KS 120030.KS 109070.KS 192820.KS 264900.KS 112610.KS 192400.KS 284740.KS 353200.KS 117580.KS 128820.KS 145720.KS 139130.KS 375500.KS 282690.KS 170900.KS	KSE	322000.KS 172580.KS 153360.KS 111110.KS 298050.KS 298000.KS 298040.KS 298020.KS 267270.KS 267270.KS 267260.KS 126560.KS 126560.KS 307950.KS 350520.KS 350520.KS 334890.KS 249420.KS 103590.KS 122900.KS 1214320.KS 129260.KS	KSE	286940.KS 330590.KS 229640.KS 900140.KS 204320.KS 357250.KS 134380.KS 138040.KS 268280.KS 204210.KS 107590.KS 251270.KS 181710.KS 138250.KS 271560.KS 950210.KS 103140.KS 102460.KS 100840.KS 145210.KS 207940.KS
KSE	155900.KS 282330.KS 352820.KS 138930.KS 308170.KS 100250.KS 185750.KS 120030.KS 109070.KS 192820.KS 264900.KS 112610.KS 192400.KS 284740.KS 353200.KS 117580.KS 128820.KS 145720.KS 139130.KS 375500.KS 282690.KS	KSE	322000.KS 172580.KS 153360.KS 111110.KS 298050.KS 298000.KS 298040.KS 298020.KS 267270.KS 267270.KS 267260.KS 126560.KS 267250.KS 307950.KS 350520.KS 334890.KS 249420.KS 103590.KS 122900.KS 101140.KS 214320.KS	KSE	286940.KS 330590.KS 229640.KS 900140.KS 204320.KS 357250.KS 134380.KS 138040.KS 268280.KS 204210.KS 107590.KS 251270.KS 181710.KS 138250.KS 271560.KS 950210.KS 103140.KS 102460.KS 100840.KS
KSE	155900.KS 282330.KS 352820.KS 138930.KS 308170.KS 100250.KS 185750.KS 120030.KS 109070.KS 192820.KS 264900.KS 112610.KS 192400.KS 284740.KS 353200.KS 117580.KS 128820.KS 145720.KS 139130.KS 375500.KS 282690.KS 170900.KS	KSE	322000.KS 172580.KS 172580.KS 153360.KS 111110.KS 298050.KS 298040.KS 298020.KS 267270.KS 267270.KS 267260.KS 126560.KS 267250.KS 307950.KS 350520.KS 334890.KS 249420.KS 103590.KS 122900.KS 101140.KS 214320.KS 129260.KS	KSE	286940.KS 330590.KS 229640.KS 900140.KS 204320.KS 357250.KS 134380.KS 138040.KS 268280.KS 204210.KS 107590.KS 251270.KS 181710.KS 138250.KS 271560.KS 950210.KS 103140.KS 102460.KS 10940.KS 105940.KS
KSE	155900.KS 282330.KS 352820.KS 138930.KS 308170.KS 100250.KS 185750.KS 120030.KS 109070.KS 192820.KS 264900.KS 112610.KS 192400.KS 284740.KS 353200.KS 117580.KS 128820.KS 145720.KS 139130.KS 375500.KS 282690.KS 170900.KS 282690.KS 170900.KS	KSE	322000.KS 172580.KS 172580.KS 153360.KS 111110.KS 298050.KS 298040.KS 298020.KS 267270.KS 267270.KS 267260.KS 126560.KS 126560.KS 350520.KS 350520.KS 334890.KS 249420.KS 103590.KS 1029260.KS 101140.KS 214320.KS 129260.KS 226320.KS	KSE	286940.KS 330590.KS 229640.KS 900140.KS 204320.KS 357250.KS 134380.KS 138040.KS 268280.KS 204210.KS 107590.KS 251270.KS 181710.KS 138250.KS 271560.KS 950210.KS 103140.KS 103440.KS 10460.KS 105940.KS 105940.KS 272550.KS 101060.KS 101280.KS
KSE	155900.KS 282330.KS 352820.KS 138930.KS 308170.KS 100250.KS 185750.KS 120030.KS 109070.KS 192820.KS 264900.KS 112610.KS 192400.KS 284740.KS 353200.KS 117580.KS 128820.KS 145720.KS 139130.KS 375500.KS 282690.KS 170900.KS	KSE	322000.KS 172580.KS 172580.KS 153360.KS 111110.KS 298050.KS 298040.KS 298020.KS 267270.KS 267270.KS 267260.KS 126560.KS 267250.KS 307950.KS 350520.KS 334890.KS 249420.KS 103590.KS 122900.KS 101140.KS 214320.KS 175330.KS 271980.KS	KSE	286940.KS 330590.KS 229640.KS 900140.KS 204320.KS 357250.KS 134380.KS 138040.KS 268280.KS 204210.KS 107590.KS 251270.KS 181710.KS 138250.KS 271560.KS 950210.KS 103140.KS 102460.KS 102460.KS
KSE	155900.KS 282330.KS 352820.KS 138930.KS 308170.KS 100250.KS 185750.KS 120030.KS 109070.KS 192820.KS 264900.KS 112610.KS 192400.KS 284740.KS 353200.KS 117580.KS 128820.KS 145720.KS 139130.KS 375500.KS 282690.KS 170900.KS 102260.KS 241560.KS 336260.KS	KSE	322000.KS 172580.KS 172580.KS 153360.KS 111110.KS 298050.KS 298040.KS 298020.KS 267270.KS 267270.KS 267260.KS 126560.KS 267250.KS 307950.KS 350520.KS 334890.KS 249420.KS 103590.KS 122900.KS 101140.KS 214320.KS 175330.KS 271980.KS	KSE	286940.KS 330590.KS 229640.KS 900140.KS 204320.KS 357250.KS 134380.KS 13804.KS 268280.KS 204210.KS 107590.KS 251270.KS 181710.KS 138250.KS 271560.KS 950210.KS 103140.KS 102460.KS 102460.KS 100840.KS 272550.KS 272550.KS 272550.KS 272550.KS
KSE	155900.KS 282330.KS 352820.KS 138930.KS 308170.KS 100250.KS 185750.KS 120030.KS 109070.KS 192820.KS 264900.KS 112610.KS 192400.KS 284740.KS 353200.KS 117580.KS 128820.KS 145720.KS 139130.KS 375500.KS 282690.KS 170900.KS 102260.KS 241560.KS 336260.KS 192080.KS	KSE	322000.KS 172580.KS 172580.KS 153360.KS 111110.KS 298050.KS 298000.KS 298040.KS 298020.KS 267270.KS 267260.KS 126560.KS 267250.KS 307950.KS 350520.KS 334890.KS 249420.KS 103590.KS 122900.KS 101140.KS 214320.KS 129260.KS 226320.KS 175330.KS 271980.KS 271980.KS	KSE	286940.KS 330590.KS 229640.KS 900140.KS 204320.KS 357250.KS 134380.KS 138040.KS 268280.KS 204210.KS 107590.KS 251270.KS 181710.KS 138250.KS 271560.KS 950210.KS 103140.KS 102460.KS 100840.KS 145210.KS 207940.KS 272550.KS 101060.KS 102280.KS 248170.KS
KSE	155900.KS 282330.KS 352820.KS 138930.KS 308170.KS 100250.KS 185750.KS 120030.KS 109070.KS 192820.KS 264900.KS 112610.KS 192400.KS 284740.KS 353200.KS 117580.KS 128820.KS 145720.KS 139130.KS 375500.KS 282690.KS 170900.KS 102260.KS 241560.KS 336260.KS 192080.KS 192080.KS	KSE	322000.KS 172580.KS 172580.KS 153360.KS 111110.KS 298050.KS 298000.KS 298040.KS 298020.KS 267270.KS 267270.KS 267260.KS 126560.KS 267250.KS 307950.KS 350520.KS 350520.KS 34890.KS 249420.KS 103590.KS 122900.KS 101140.KS 214320.KS 129260.KS 226320.KS 175330.KS 271980.KS 272450.KS	KSE	286940.KS 330590.KS 229640.KS 900140.KS 204320.KS 357250.KS 134380.KS 138040.KS 268280.KS 204210.KS 107590.KS 251270.KS 181710.KS 138250.KS 271560.KS 950210.KS 103140.KS 102460.KS 102460.KS 105460.KS 105460.KS 105460.KS 105460.KS 272550.KS 272550.KS 272550.KS 272550.KS 272550.KS
KSE	155900.KS 282330.KS 352820.KS 138930.KS 308170.KS 100250.KS 185750.KS 120030.KS 109070.KS 192820.KS 264900.KS 112610.KS 192400.KS 284740.KS 353200.KS 117580.KS 128820.KS 145720.KS 139130.KS 375500.KS 282690.KS 170900.KS 102260.KS 241560.KS 336260.KS 192080.KS 192080.KS	KSE	322000.KS 172580.KS 172580.KS 153360.KS 111110.KS 298050.KS 298000.KS 298040.KS 298020.KS 267270.KS 267270.KS 267260.KS 126560.KS 267250.KS 307950.KS 350520.KS 350520.KS 34890.KS 249420.KS 103590.KS 122900.KS 101140.KS 214320.KS 129260.KS 226320.KS 175330.KS 271980.KS 272450.KS	KSE	286940.KS 330590.KS 229640.KS 900140.KS 204320.KS 357250.KS 134380.KS 138040.KS 268280.KS 204210.KS 107590.KS 251270.KS 181710.KS 138250.KS 271560.KS 950210.KS 103140.KS 102460.KS 102460.KS 105460.KS 105460.KS 105460.KS 105460.KS 272550.KS 272550.KS 272550.KS 272550.KS 272550.KS
KSE	155900.KS 282330.KS 352820.KS 138930.KS 308170.KS 100250.KS 185750.KS 120030.KS 109070.KS 192820.KS 264900.KS 112610.KS 192400.KS 284740.KS 353200.KS 117580.KS 128820.KS 145720.KS 139130.KS 375500.KS 282690.KS 170900.KS 282690.KS 170900.KS 102260.KS 241560.KS 336260.KS 192080.KS 192080.KS 192650.KS	KSE	322000.KS 172580.KS 172580.KS 153360.KS 111110.KS 298050.KS 298040.KS 298020.KS 267270.KS 267270.KS 267260.KS 126560.KS 267250.KS 307950.KS 350520.KS 334890.KS 249420.KS 103590.KS 102900.KS 101140.KS 214320.KS 129260.KS 226320.KS 175330.KS 271980.KS 272450.KS	KSE	286940.KS 330590.KS 229640.KS 900140.KS 204320.KS 357250.KS 134380.KS 138040.KS 268280.KS 204210.KS 107590.KS 251270.KS 181710.KS 138250.KS 271560.KS 950210.KS 103140.KS 103440.KS 102460.KS 105460.KS 105460.KS 105460.KS 272550.KS 101060.KS 102280.KS 248170.KS 200880.KS 134790.KS 123700.KS
KSE	155900.KS 282330.KS 352820.KS 138930.KS 308170.KS 100250.KS 185750.KS 120030.KS 109070.KS 192820.KS 264900.KS 112610.KS 192400.KS 284740.KS 353200.KS 117580.KS 128820.KS 145720.KS 139130.KS 375500.KS 282690.KS 170900.KS 102260.KS 241560.KS 192080.KS 192080.KS 192650.KS 192650.KS	KSE	322000.KS 172580.KS 172580.KS 153360.KS 111110.KS 298050.KS 298040.KS 298020.KS 267270.KS 267260.KS 126560.KS 126560.KS 307950.KS 350520.KS 334890.KS 249420.KS 103590.KS 1029260.KS 1140.KS 129900.KS 129900.KS 129900.KS 129900.KS 129900.KS 129900.KS 129900.KS 1294320.KS 1294320.KS 1294320.KS 1294320.KS 1294320.KS 1294370.KS 226320.KS 175330.KS 271980.KS 234080.KS 123890.KS	KSE	286940.KS 330590.KS 229640.KS 900140.KS 204320.KS 357250.KS 134380.KS 138040.KS 268280.KS 204210.KS 107590.KS 251270.KS 181710.KS 138250.KS 271560.KS 950210.KS 103140.KS 103440.KS 10460.KS 100840.KS 272550.KS 272550.KS 101060.KS 272550.KS 272550.KS 272570.KS
KSE	155900.KS 282330.KS 352820.KS 138930.KS 308170.KS 100250.KS 185750.KS 120030.KS 109070.KS 192820.KS 264900.KS 112610.KS 192400.KS 284740.KS 353200.KS 117580.KS 128820.KS 145720.KS 139130.KS 375500.KS 282690.KS 170900.KS 282690.KS 170900.KS 102260.KS 241560.KS 336260.KS 192080.KS 192080.KS 192650.KS	KSE	322000.KS 172580.KS 172580.KS 153360.KS 111110.KS 298050.KS 298040.KS 298020.KS 267270.KS 267270.KS 267260.KS 126560.KS 267250.KS 307950.KS 350520.KS 334890.KS 249420.KS 103590.KS 102900.KS 101140.KS 214320.KS 129260.KS 226320.KS 175330.KS 271980.KS 272450.KS	KSE	286940.KS 330590.KS 229640.KS 900140.KS 204320.KS 357250.KS 134380.KS 138040.KS 268280.KS 204210.KS 107590.KS 251270.KS 181710.KS 138250.KS 271560.KS 950210.KS 103140.KS 103440.KS 102460.KS 105460.KS 105460.KS 105460.KS 272550.KS 101060.KS 102280.KS 248170.KS 200880.KS 134790.KS 123700.KS
KSE	155900.KS 282330.KS 352820.KS 138930.KS 308170.KS 100250.KS 185750.KS 120030.KS 109070.KS 192820.KS 264900.KS 112610.KS 192400.KS 284740.KS 353200.KS 117580.KS 128820.KS 145720.KS 139130.KS 375500.KS 282690.KS 170900.KS 102260.KS 241560.KS 241560.KS 192080.KS 192080.KS 192080.KS 192080.KS	KSE	322000.KS 172580.KS 153360.KS 111110.KS 298050.KS 298000.KS 298040.KS 298020.KS 267270.KS 267270.KS 267250.KS 307950.KS 350520.KS 334890.KS 249420.KS 103590.KS 122900.KS 101140.KS 214320.KS 129260.KS 226320.KS 175330.KS 271980.KS 271980.KS 271980.KS	KSE	286940.KS 330590.KS 229640.KS 900140.KS 900140.KS 204320.KS 357250.KS 134380.KS 138040.KS 268280.KS 204210.KS 107590.KS 251270.KS 181710.KS 138250.KS 271560.KS 950210.KS 103140.KS 102460.KS 100840.KS 1045210.KS 272550.KS 272550.KS 271560.KS 272550.KS 27940.KS 272550.KS 272550.KS 101660.KS 102280.KS 248170.KS 200880.KS 134790.KS 123700.KS 326030.KS 285130.KS 285130.KS
KSE	155900.KS 282330.KS 352820.KS 138930.KS 308170.KS 100250.KS 185750.KS 120030.KS 109070.KS 192820.KS 264900.KS 112610.KS 192400.KS 284740.KS 353200.KS 117580.KS 117580.KS 128820.KS 145720.KS 139130.KS 375500.KS 282690.KS 170900.KS 102260.KS 241560.KS 192080.KS 192080.KS 192080.KS 192080.KS 193080.KS	KSE	322000.KS 172580.KS 153360.KS 111110.KS 298050.KS 298000.KS 298040.KS 298020.KS 267270.KS 267270.KS 267260.KS 126560.KS 126560.KS 307950.KS 350520.KS 334890.KS 122900.KS 101140.KS 214320.KS 122900.KS 175330.KS 226320.KS 175330.KS 271980.KS 271980.KS 234080.KS 123890.KS 123890.KS	KSE	286940.KS 330590.KS 229640.KS 900140.KS 900140.KS 204320.KS 357250.KS 134380.KS 138040.KS 268280.KS 204210.KS 107590.KS 251270.KS 181710.KS 138250.KS 271560.KS 950210.KS 103140.KS 102460.KS 100840.KS 10590.KS 272550.KS 101060.KS 102280.KS 248170.KS 200880.KS 134790.KS 123700.KS 326030.KS 285130.KS 219980.KS 248070.KS
KSE	155900.KS 282330.KS 352820.KS 138930.KS 308170.KS 100250.KS 185750.KS 120030.KS 109070.KS 192820.KS 264900.KS 112610.KS 192400.KS 284740.KS 353200.KS 117580.KS 128820.KS 145720.KS 139130.KS 375500.KS 282690.KS 170900.KS 102260.KS 241560.KS 241560.KS 192080.KS 192650.KS 139480.KS 139480.KS 139480.KS 139480.KS	KSE	322000.KS 172580.KS 172580.KS 153360.KS 111110.KS 298050.KS 298040.KS 298040.KS 298020.KS 267270.KS 267260.KS 126560.KS 267250.KS 350520.KS 334890.KS 249420.KS 103590.KS 122900.KS 101140.KS 214320.KS 129260.KS 272450.KS 175330.KS 271980.KS 272450.KS 1234080.KS 123890.KS 123890.KS	KSE	286940.KS 330590.KS 229640.KS 900140.KS 900140.KS 204320.KS 357250.KS 134380.KS 138040.KS 268280.KS 204210.KS 107590.KS 251270.KS 181710.KS 138250.KS 271560.KS 950210.KS 103140.KS 102460.KS 102460.KS 102460.KS 102550.KS 272550.KS 101060.KS 102280.KS 248170.KS 20880.KS 134790.KS 123700.KS 326030.KS 285130.KS 210980.KS 248070.KS
KSE	155900.KS 282330.KS 352820.KS 138930.KS 308170.KS 100250.KS 185750.KS 120030.KS 109070.KS 192820.KS 264900.KS 112610.KS 192400.KS 284740.KS 353200.KS 117580.KS 128820.KS 145720.KS 139130.KS 375500.KS 282690.KS 170900.KS 102260.KS 241560.KS 241560.KS 192080.KS 192650.KS 139480.KS 139480.KS 139480.KS 139480.KS	KSE	322000.KS 172580.KS 172580.KS 153360.KS 111110.KS 298050.KS 298040.KS 298040.KS 298020.KS 267270.KS 267260.KS 126560.KS 267250.KS 350520.KS 334890.KS 249420.KS 103590.KS 122900.KS 101140.KS 214320.KS 129260.KS 272450.KS 175330.KS 271980.KS 272450.KS 194370.KS 234080.KS 123890.KS	KSE	286940.KS 330590.KS 229640.KS 900140.KS 900140.KS 204320.KS 357250.KS 134380.KS 138040.KS 268280.KS 204210.KS 107590.KS 251270.KS 181710.KS 138250.KS 271560.KS 950210.KS 103140.KS 102460.KS 102460.KS 102460.KS 102550.KS 272550.KS 101060.KS 102280.KS 248170.KS 20880.KS 134790.KS 123700.KS 326030.KS 285130.KS 210980.KS 248070.KS
KSE	155900.KS 282330.KS 352820.KS 138930.KS 308170.KS 100250.KS 185750.KS 120030.KS 109070.KS 192820.KS 264900.KS 112610.KS 192400.KS 284740.KS 353200.KS 117580.KS 128820.KS 145720.KS 139130.KS 375500.KS 282690.KS 170900.KS 282690.KS 170900.KS 282690.KS 170900.KS 282690.KS 170900.KS 282690.KS 170900.KS 282690.KS 281560.KS 281560.KS 281560.KS 2815560.KS 192080.KS 1139480.KS 139480.KS 139480.KS 133820.KS 114090.KS	KSE	322000.KS 172580.KS 172580.KS 153360.KS 111110.KS 298050.KS 298040.KS 298040.KS 298020.KS 267270.KS 267260.KS 126560.KS 267250.KS 307950.KS 350520.KS 334890.KS 249420.KS 103590.KS 102900.KS 101140.KS 214320.KS 12960.KS 226320.KS 175330.KS 272450.KS 194370.KS 234080.KS 194370.KS 234080.KS 123890.KS 119650.KS 119650.KS	KSE	286940.KS 330590.KS 229640.KS 900140.KS 204320.KS 357250.KS 134380.KS 138040.KS 268280.KS 204210.KS 107590.KS 251270.KS 181710.KS 138250.KS 271560.KS 950210.KS 103140.KS 103440.KS 102460.KS 105940.KS 272550.KS 101060.KS 272550.KS 101060.KS 102280.KS 248170.KS 200880.KS 134790.KS 123700.KS 123700.KS 123700.KS 326030.KS 248070.KS 336370.KS 336370.KS
KSE	155900.KS 282330.KS 352820.KS 138930.KS 308170.KS 100250.KS 185750.KS 120030.KS 109070.KS 192820.KS 264900.KS 112610.KS 192400.KS 284740.KS 353200.KS 117580.KS 128820.KS 145720.KS 139130.KS 375500.KS 282690.KS 170900.KS 102260.KS 241560.KS 241560.KS 192650.KS 192650.KS 133480.KS 133480.KS 133480.KS 133480.KS 133480.KS 13480.KS 13480.KS	KSE	322000.KS 172580.KS 153360.KS 111110.KS 298050.KS 298040.KS 298020.KS 298020.KS 267270.KS 267260.KS 126560.KS 126560.KS 350520.KS 334890.KS 249420.KS 103590.KS 1029260.KS 122900.KS 101140.KS 214320.KS 129260.KS 226320.KS 175330.KS 271980.KS 271980.KS 234080.KS 194370.KS 234080.KS 123890.KS 123890.KS 105560.KS 119650.KS	KSE	286940.KS 330590.KS 229640.KS 900140.KS 900140.KS 204320.KS 357250.KS 134380.KS 138040.KS 268280.KS 204210.KS 107590.KS 251270.KS 181710.KS 138250.KS 271560.KS 950210.KS 103140.KS 102460.KS 102460.KS 100840.KS 272550.KS 101060.KS 1012280.KS 248170.KS 20880.KS 134790.KS 123700.KS 326030.KS 285130.KS 210980.KS 248070.KS 336370.KS 336370.KS 336370.KS 3366200.KS
KSE	155900.KS 282330.KS 352820.KS 138930.KS 308170.KS 100250.KS 185750.KS 120030.KS 109070.KS 192820.KS 264900.KS 112610.KS 192400.KS 284740.KS 353200.KS 117580.KS 128820.KS 145720.KS 139130.KS 375500.KS 282690.KS 170900.KS 282690.KS 170900.KS 282690.KS 170900.KS 282690.KS 170900.KS 282690.KS 170900.KS 282690.KS 281560.KS 281560.KS 281560.KS 2815560.KS 192080.KS 1139480.KS 139480.KS 139480.KS 133820.KS 114090.KS	KSE	322000.KS 172580.KS 172580.KS 153360.KS 111110.KS 298050.KS 298040.KS 298040.KS 298020.KS 267270.KS 267260.KS 126560.KS 267250.KS 307950.KS 350520.KS 334890.KS 249420.KS 103590.KS 102900.KS 101140.KS 214320.KS 12960.KS 226320.KS 175330.KS 272450.KS 194370.KS 234080.KS 194370.KS 234080.KS 123890.KS 119650.KS 119650.KS	KSE	286940.KS 330590.KS 229640.KS 900140.KS 204320.KS 357250.KS 134380.KS 138040.KS 268280.KS 204210.KS 107590.KS 251270.KS 181710.KS 138250.KS 271560.KS 950210.KS 103140.KS 103440.KS 102460.KS 105940.KS 272550.KS 101060.KS 272550.KS 101060.KS 102280.KS 248170.KS 200880.KS 134790.KS 123700.KS 123700.KS 123700.KS 326030.KS 248070.KS 336370.KS 336370.KS
KSE	155900.KS 282330.KS 352820.KS 138930.KS 308170.KS 100250.KS 185750.KS 120030.KS 109070.KS 192820.KS 264900.KS 112610.KS 192400.KS 284740.KS 353200.KS 117580.KS 128820.KS 145720.KS 139130.KS 375500.KS 282690.KS 170900.KS 102260.KS 241560.KS 241560.KS 192080.KS 192080.KS 192080.KS 193080.KS 194080.KS 194080.KS 134090.KS 134090.KS 134090.KS 134590.KS	KSE	322000.KS 172580.KS 172580.KS 153360.KS 111110.KS 298050.KS 298000.KS 298040.KS 298020.KS 267270.KS 267270.KS 267250.KS 307950.KS 350520.KS 334890.KS 249420.KS 103590.KS 122900.KS 101140.KS 214320.KS 129260.KS 226320.KS 175330.KS 271980.KS 271980.KS 12380.KS 175330.KS 271980.KS 12380.KS	KSE	286940.KS 330590.KS 229640.KS 900140.KS 900140.KS 204320.KS 357250.KS 134380.KS 138040.KS 268280.KS 204210.KS 107590.KS 251270.KS 181710.KS 138250.KS 271560.KS 950210.KS 103140.KS 102460.KS 100840.KS 272550.KS 272550.KS 27940.KS 27950.KS 27950.KS 27950.KS 27950.KS 27950.KS 27960.KS 27970.KS
KSE	155900.KS 282330.KS 352820.KS 138930.KS 308170.KS 100250.KS 185750.KS 120030.KS 109070.KS 192820.KS 264900.KS 112610.KS 192400.KS 284740.KS 353200.KS 117580.KS 128820.KS 145720.KS 139130.KS 375500.KS 282690.KS 170900.KS 102260.KS 241560.KS 36260.KS 192080.KS 192080.KS 193080.KS 194080.KS 195650.KS 139480.KS 139480.KS 139480.KS 139480.KS 139480.KS 139480.KS 114090.KS 241590.KS 195870.KS	KSE	322000.KS 172580.KS 172580.KS 153360.KS 111110.KS 298050.KS 298000.KS 298040.KS 267270.KS 267270.KS 267260.KS 126560.KS 126560.KS 307950.KS 350520.KS 334890.KS 249420.KS 103590.KS 122900.KS 1103590.KS 122900.KS 121930.KS 121930.KS 121930.KS 121930.KS 121930.KS 175330.KS 271980.KS 271980.KS 271980.KS 175330.KS 271980.KS 194370.KS 234080.KS 105560.KS 105560.KS 119650.KS 119650.KS 119650.KS 119650.KS 119650.KS 119650.KS 119650.KS	KSE	286940.KS 330590.KS 229640.KS 900140.KS 900140.KS 204320.KS 357250.KS 134380.KS 138040.KS 268280.KS 204210.KS 107590.KS 251270.KS 181710.KS 138250.KS 271560.KS 950210.KS 103140.KS 102460.KS 100840.KS 10460.KS 100840.KS 272550.KS 271560.KS 272550.KS 101060.KS 102280.KS 248170.KS 236300.KS 248170.KS 236300.KS 248070.KS 336370.KS 336370.KS 336370.KS 336490.KS 145990.KS
KSE	155900.KS 282330.KS 352820.KS 138930.KS 308170.KS 100250.KS 185750.KS 120030.KS 109070.KS 192820.KS 264900.KS 112610.KS 192400.KS 284740.KS 353200.KS 117580.KS 128820.KS 145720.KS 139130.KS 375500.KS 282690.KS 170900.KS 102260.KS 241560.KS 241560.KS 192080.KS 192080.KS 192080.KS 193080.KS 194080.KS 194080.KS 134090.KS 134090.KS 134090.KS 134590.KS	KSE	322000.KS 172580.KS 172580.KS 153360.KS 111110.KS 298050.KS 298000.KS 298040.KS 298020.KS 267270.KS 267270.KS 267250.KS 307950.KS 350520.KS 334890.KS 249420.KS 103590.KS 122900.KS 101140.KS 214320.KS 129260.KS 226320.KS 175330.KS 271980.KS 271980.KS 12380.KS 175330.KS 271980.KS 12380.KS	KSE	286940.KS 330590.KS 229640.KS 900140.KS 900140.KS 204320.KS 357250.KS 134380.KS 138040.KS 268280.KS 204210.KS 107590.KS 251270.KS 181710.KS 138250.KS 271560.KS 950210.KS 103140.KS 102460.KS 100840.KS 272550.KS 272550.KS 27940.KS 27950.KS 27950.KS 27950.KS 27950.KS 27950.KS 27960.KS 27970.KS
KSE	155900.KS 282330.KS 352820.KS 138930.KS 308170.KS 100250.KS 185750.KS 120030.KS 109070.KS 192820.KS 264900.KS 112610.KS 192400.KS 284740.KS 353200.KS 117580.KS 128820.KS 145720.KS 139130.KS 375500.KS 282690.KS 170900.KS 102260.KS 241560.KS 241560.KS 336260.KS 192080.KS 163560.KS 192080.KS 163560.KS 192080.KS 1139480.KS 139480.KS 139480.KS 139480.KS 139480.KS	KSE	322000.KS 172580.KS 172580.KS 153360.KS 111110.KS 298050.KS 298040.KS 298040.KS 298020.KS 267270.KS 227840.KS 267260.KS 126560.KS 267250.KS 3307950.KS 350520.KS 334890.KS 249420.KS 103590.KS 122900.KS 101140.KS 214320.KS 129260.KS 226320.KS 175330.KS 271980.KS 272450.KS 194370.KS 234080.KS 123890.KS 123890.KS 119650.KS 119650.KS 344820.KS 130660.KS 104700.KS 161890.KS 161890.KS 120110.KS	KSE	286940.KS 330590.KS 229640.KS 900140.KS 900140.KS 204320.KS 357250.KS 134380.KS 138040.KS 268280.KS 204210.KS 107590.KS 251270.KS 181710.KS 138250.KS 271560.KS 950210.KS 103140.KS 102460.KS 102460.KS 100840.KS 145210.KS 272550.KS 101060.KS 272550.KS 101060.KS 102280.KS 248170.KS 20880.KS 248170.KS 20880.KS 134790.KS 123700.KS 326030.KS 285130.KS 210980.KS 248070.KS 336370.KS 336370.KS 336490.KS 1344990.KS 1344990.KS 1344990.KS 134490.KS
KSE	155900.KS 282330.KS 352820.KS 138930.KS 308170.KS 100250.KS 185750.KS 120030.KS 109070.KS 192820.KS 264900.KS 112610.KS 192400.KS 284740.KS 353200.KS 117580.KS 128820.KS 145720.KS 139130.KS 375500.KS 282690.KS 170900.KS 102260.KS 241560.KS 241560.KS 192080.KS 192080.KS 1163560.KS 192080.KS 1163560.KS 192080.KS 1163560.KS 192080.KS 1163560.KS 192080.KS 1163560.KS 192650.KS 139480.KS 139480.KS 139480.KS 114090.KS 241590.KS 195870.KS 11530.KS 293480.KS	KSE	322000.KS 172580.KS 172580.KS 153360.KS 111110.KS 298050.KS 298040.KS 298040.KS 298020.KS 267270.KS 267260.KS 126560.KS 126560.KS 337950.KS 350520.KS 334890.KS 249420.KS 103590.KS 101140.KS 214320.KS 101140.KS 214320.KS 129900.KS 129900.KS 1214320.KS 129450.KS 129450.KS 129450.KS 12950.KS 12950.KS 119650.KS 12960.KS 12960.KS 12980.KS 12980.KS 12980.KS 12980.KS 12980.KS 12980.KS 12980.KS 12980.KS 12980.KS 12880.KS 194370.KS 234080.KS 1344820.KS 13660.KS 119650.KS 144620.KS 130660.KS 104700.KS 161890.KS 120110.KS 144620.KS 138490.KS	KSE	286940.KS 330590.KS 229640.KS 900140.KS 204320.KS 357250.KS 134380.KS 138040.KS 268280.KS 204210.KS 107590.KS 251270.KS 181710.KS 138250.KS 271560.KS 950210.KS 103140.KS 102460.KS 102460.KS 105940.KS 272550.KS 101060.KS 102280.KS 248170.KS 200880.KS 134790.KS 123700.KS 123700.KS 136490.KS 248070.KS 336370.KS 306200.KS 136490.KS 145290.KS 145290.KS 244420.KS 3663280.KS
KSE	155900.KS 282330.KS 352820.KS 138930.KS 308170.KS 100250.KS 185750.KS 120030.KS 109070.KS 192820.KS 264900.KS 112610.KS 192400.KS 284740.KS 353200.KS 117580.KS 128820.KS 145720.KS 139130.KS 375500.KS 282690.KS 170900.KS 102260.KS 241560.KS 241560.KS 192650.KS 192650.KS 192650.KS 133480.KS 139480.KS 114090.KS 241590.KS 195870.KS	KSE	322000.KS 172580.KS 172580.KS 153360.KS 111110.KS 298050.KS 298040.KS 298040.KS 298020.KS 267270.KS 267260.KS 126560.KS 126560.KS 307950.KS 3307950.KS 334890.KS 249420.KS 103590.KS 101140.KS 214320.KS 122900.KS 122900.KS 1214320.KS 129260.KS 226320.KS 175330.KS 271980.KS 271980.KS 234080.KS 123890.KS 123890.KS 105560.KS 119650.KS	KSE	286940.KS 330590.KS 229640.KS 900140.KS 900140.KS 204320.KS 357250.KS 134380.KS 138040.KS 268280.KS 204210.KS 107590.KS 251270.KS 181710.KS 138250.KS 271560.KS 950210.KS 103140.KS 102460.KS 102460.KS 100840.KS 272550.KS 101060.KS 102280.KS 248170.KS 20880.KS 134790.KS 123700.KS 326030.KS 285130.KS 210980.KS 248070.KS 3366370.KS 3366370.KS 3366200.KS 136490.KS 145990.KS 14420.KS 363280.KS 100220.KS 100220.KS 100220.KS
KSE	155900.KS 282330.KS 352820.KS 138930.KS 308170.KS 100250.KS 185750.KS 120030.KS 109070.KS 192820.KS 264900.KS 112610.KS 192400.KS 284740.KS 353200.KS 117580.KS 128820.KS 145720.KS 139130.KS 375500.KS 282690.KS 170900.KS 102260.KS 241560.KS 241560.KS 192080.KS 192080.KS 1163560.KS 192080.KS 1163560.KS 192080.KS 1163560.KS 192080.KS 1163560.KS 192080.KS 1163560.KS 192650.KS 139480.KS 139480.KS 139480.KS 114090.KS 241590.KS 195870.KS 11530.KS 293480.KS	KSE	322000.KS 172580.KS 172580.KS 153360.KS 111110.KS 298050.KS 298040.KS 298040.KS 298020.KS 267270.KS 267260.KS 126560.KS 126560.KS 337950.KS 350520.KS 334890.KS 249420.KS 103590.KS 101140.KS 214320.KS 101140.KS 214320.KS 129900.KS 129900.KS 1214320.KS 129450.KS 129450.KS 129450.KS 12950.KS 12950.KS 119650.KS 12960.KS 12960.KS 12980.KS 12980.KS 12980.KS 12980.KS 12980.KS 12980.KS 12980.KS 12980.KS 12980.KS 12880.KS 194370.KS 234080.KS 1344820.KS 13660.KS 119650.KS 144620.KS 130660.KS 104700.KS 161890.KS 120110.KS 144620.KS 138490.KS	KSE	286940.KS 330590.KS 229640.KS 900140.KS 204320.KS 357250.KS 134380.KS 138040.KS 268280.KS 204210.KS 107590.KS 251270.KS 181710.KS 138250.KS 271560.KS 950210.KS 103140.KS 102460.KS 102460.KS 105940.KS 272550.KS 101060.KS 102280.KS 248170.KS 200880.KS 134790.KS 123700.KS 123700.KS 136490.KS 248070.KS 336370.KS 306200.KS 136490.KS 145290.KS 145290.KS 244420.KS 3663280.KS

	Yahoo ticker	Market/Index	Yahoo ticker	Market/Index	Yahoo ticker
KSE	316140.KS	Nikkei	4503.T	Nikkei	6103.T
KSE	317400.KS	Nikkei	4519.T	Nikkei	6302.T
KSE	111770.KS	Nikkei	4568.T	Nikkei	6857.T
Nikkei	1332.T	Nikkei	4506.T	Nikkei	6770.T
Nikkei	1333.T	Nikkei	4523.T	Nikkei	7751.T
Nikkei	1605.T	Nikkei	4151.T	Nikkei	6952.T
Nikkei	1721.T	Nikkei	4578.T	Nikkei	7735.T
Nikkei	1808.T	Nikkei	4507.T	Nikkei	6902.T
Nikkei	1963.T	Nikkei	4502.T	Nikkei	6954.T
Nikkei	1812.T	Nikkei	5020.T	Nikkei	6504.T
Nikkei	1802.T	Nikkei	5019.T	Nikkei	6702.T
Nikkei	1928.T	Nikkei	5108.T	Nikkei	6674.T
Nikkei	1803.T	Nikkei	5101.T	Nikkei	6501.T
Nikkei	1801.T	Nikkei	5201.T	Nikkei	6971.T
Nikkei	2802.T	Nikkei	5333.T	Nikkei	6479.T
Nikkei	2502.T	Nikkei	5214.T	Nikkei	6503.T
Nikkei	2914.T	Nikkei	5202.T	Nikkei	6701.T
Nikkei	2801.T	Nikkei	5232.T	Nikkei	3105.T
Nikkei	2503.T	Nikkei	5233.T	Nikkei	6645.T
Nikkei	2269.T	Nikkei	5301.T	Nikkei	6752.T
Nikkei	2871.T	Nikkei	5332.T	Nikkei	7752.T
Nikkei	2282.T	Nikkei	5411.T	Nikkei	6724.T
Nikkei	2002.T	Nikkei	5406.T	Nikkei	6753.T
Nikkei	2501.T	Nikkei	5401.T	Nikkei	6758.T
Nikkei	2531.T	Nikkei	5541.T	Nikkei	6976.T
Nikkei	3401.T	Nikkei	5714.T	Nikkei	6762.T
Nikkei	3402.T	Nikkei	5803.T	Nikkei	8035.T
	3101.T	Nikkei	5801.T	Nikkei	6506.T
Nikkei					
Nikkei	3103.T	Nikkei	5711.T	Nikkei	6841.T
Nikkei	3863.T	Nikkei	5706.T	Nikkei	7012.T
Nikkei	3861.T	Nikkei	5703.T	Nikkei	7003.T
Nikkei	3407.T	Nikkei	3436.T	Nikkei	7205.T
Nikkei	4061.T	Nikkei	5802.T	Nikkei	7267.T
Nikkei	4631.T	Nikkei	5713.T	Nikkei	7202.T
Nikkei	4901.T	Nikkei	5707.T	Nikkei	7261.T
Nikkei	4452.T	Nikkei	5901.T	Nikkei	7211.T
Nikkei	3405.T	Nikkei	6113.T	Nikkei	7201.T
Nikkei	4188.T	Nikkei	6367.T	Nikkei	7270.T
Nikkei	4183.T	Nikkei	6361.T	Nikkei	7269.T
Nikkei	4021.T	Nikkei	6305.T	Nikkei	7203.T
Nikkei	6988.T	Nikkei	7004.T	Nikkei	7272.T
Nikkei	4063.T	Nikkei	5631.T	Nikkei	7762.T
Nikkei	4911.T	Nikkei	6473.T	Nikkei	4902.T
Nikkei	4004.T	Nikkei	6301.T	Nikkei	7731.T
Nikkei	4005.T	Nikkei	6326.T	Nikkei	7733.T
Nikkei	4043.T	Nikkei	7011.T	Nikkei	4543.T
Nikkei	4042.T	Nikkei	6471.T	Nikkei	8001.T
Nikkei	4208.T	Nikkei	6472.T	Nikkei	8002.T
Market/Index	Yahoo ticker	Market/Index	Yahoo ticker	Market/Index	Yahoo ticker
Nikkei	00.00	Nikkei	9005.T	QSE	GWCS.QA
		MIKKEI	9003.1		
	8058.T	**** .	0004 m	QSE	
Nikkei	8031.T	Nikkei	9021.T	QSE	QIMD.QA
Nikkei Nikkei		Nikkei Nikkei	9021.T 9062.T	QSE QSE	
Nikkei	8031.T 2768.T	Nikkei	9062.T	QSE QSE	QIMD.QA IQCD.QA
Nikkei Nikkei	8031.T 2768.T 8053.T	Nikkei Nikkei	9062.T 9064.T	QSE QSE QSE	QIMD.QA IQCD.QA QIIK.QA
Nikkei Nikkei Nikkei	8031.T 2768.T 8053.T 8015.T	Nikkei Nikkei Nikkei	9062.T 9064.T 9107.T	QSE QSE QSE QSE	QIMD.QA IQCD.QA QIIK.QA IGRD.QA
Nikkei Nikkei Nikkei Nikkei	8031.T 2768.T 8053.T 8015.T 7832.T	Nikkei Nikkei Nikkei Nikkei	9062.T 9064.T 9107.T 9104.T	QSE QSE QSE QSE QSE	QIMD.QA IQCD.QA QIIK.QA IGRD.QA QIGD.QA
Nikkei Nikkei Nikkei	8031.T 2768.T 8053.T 8015.T	Nikkei Nikkei Nikkei	9062.T 9064.T 9107.T	QSE QSE QSE QSE	QIMD.QA IQCD.QA QIIK.QA IGRD.QA
Nikkei Nikkei Nikkei Nikkei Nikkei	8031.T 2768.T 8053.T 8015.T 7832.T 7912.T	Nikkei Nikkei Nikkei Nikkei Nikkei	9062.T 9064.T 9107.T 9104.T 9101.T	QSE QSE QSE QSE QSE QSE	QIMD.QA IQCD.QA QIIK.QA IGRD.QA QIGD.QA IHGS.QA
Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei	8031.T 2768.T 8053.T 8015.T 7832.T 7912.T 7911.T	Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei	9062.T 9064.T 9107.T 9104.T 9101.T 9202.T	QSE QSE QSE QSE QSE QSE QSE	QIMD.QA IQCD.QA QIIK.QA IGRD.QA QIGD.QA IHGS.QA QISI.QA
Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei	8031.T 2768.T 8053.T 8015.T 7832.T 7912.T 7911.T 7951.T	Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei	9062.T 9064.T 9107.T 9104.T 9101.T 9202.T 9301.T	QSE	QIMD.QA IQCD.QA QIIK.QA IGRD.QA QIGD.QA IHGS.QA QISI.QA MCCS.QA
Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei	8031.T 2768.T 8053.T 8015.T 7832.T 7912.T 7911.T 7951.T 8267.T	Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei	9062.T 9064.T 9107.T 9104.T 9101.T 9202.T 9301.T 9433.T	QSE	QIMD.QA IQCD.QA QIIK.QA IGRD.QA QIGD.QA IHGS.QA QISI.QA MCCS.QA MRDS.QA
Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei	8031.T 2768.T 8053.T 8015.T 7832.T 7912.T 7911.T 7951.T	Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei	9062.T 9064.T 9107.T 9104.T 9101.T 9202.T 9301.T	QSE	QIMD.QA IQCD.QA QIIK.QA IGRD.QA QIGD.QA IHGS.QA QISI.QA MCCS.QA
Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei	8031.T 2768.T 8053.T 8015.T 7832.T 7912.T 7911.T 7951.T 8267.T 9983.T	Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei	9062.T 9064.T 9107.T 9104.T 9101.T 9202.T 9301.T 9433.T 9432.T	QSE	QIMD.QA IQCD.QA QIIK.QA IGRD.QA QIGD.QA IHGS.QA QISI.QA MCCS.QA MRDS.QA MCGS.QA
Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei	8031.T 2768.T 8053.T 8015.T 7832.T 7912.T 7911.T 7951.T 8267.T 9983.T 3099.T	Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei	9062.T 9064.T 9107.T 9104.T 9101.T 9202.T 9301.T 9433.T 9432.T 9613.T	QSE	QIMD.QA IQCD.QA QIIK.QA IGRD.QA QIGD.QA IHGS.QA QISI.QA MCCS.QA MRDS.QA MCGS.QA MPHC.QA
Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei	8031.T 2768.T 8053.T 8015.T 7832.T 7912.T 7911.T 7951.T 8267.T 9983.T 3099.T 3086.T	Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei	9062.T 9064.T 9107.T 9104.T 9101.T 9202.T 9301.T 9433.T 9432.T 9613.T 9412.T	QSE	QIMD.QA IQCD.QA QIIK.QA IGRD.QA QIGD.QA IHGS.QA QISI.QA MCCS.QA MRDS.QA MCGS.QA MPHC.QA QGTS.QA
Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei	8031.T 2768.T 8053.T 8015.T 7832.T 7912.T 7911.T 7951.T 8267.T 9983.T 3099.T 3086.T 8252.T	Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei	9062.T 9064.T 9107.T 9104.T 9101.T 9202.T 9301.T 9433.T 9432.T 9613.T 9412.T 9434.T	QSE	QIMD.QA IQCD.QA QIIK.QA IGRD.QA QIGD.QA IHGS.QA QISI.QA MCCS.QA MRDS.QA MCGS.QA MPHC.QA QGTS.QA QNCD.QA
Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei	8031.T 2768.T 8053.T 8015.T 7832.T 7912.T 7911.T 7951.T 8267.T 9983.T 3099.T 3086.T	Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei	9062.T 9064.T 9107.T 9104.T 9101.T 9202.T 9301.T 9433.T 9432.T 9613.T 9412.T	QSE	QIMD.QA IQCD.QA QIIK.QA IGRD.QA QIGD.QA IHGS.QA QISI.QA MCCS.QA MRDS.QA MCGS.QA MPHC.QA QGTS.QA
Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei	8031.T 2768.T 8053.T 8015.T 7832.T 7912.T 7911.T 7951.T 8267.T 9983.T 3099.T 3086.T 8252.T 3382.T	Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei	9062.T 9064.T 9107.T 9104.T 9101.T 9202.T 9301.T 9433.T 9432.T 9613.T 9412.T 9434.T	QSE	QIMD.QA IQCD.QA QIIK.QA IGRD.QA QIGD.QA IHGS.QA QISI.QA MCCS.QA MRDS.QA MCGS.QA MPHC.QA QGTS.QA QNCD.QA NLCS.QA
Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei	8031.T 2768.T 8053.T 8015.T 7832.T 7912.T 7911.T 7951.T 8267.T 9983.T 3099.T 3086.T 8252.T 3382.T 8233.T	Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei	9062.T 9064.T 9107.T 9104.T 9101.T 9202.T 9301.T 9433.T 9432.T 9613.T 9412.T 9434.T 9984.T	QSE	QIMD.QA IQCD.QA QIIK.QA IGRD.QA QIGD.QA IHGS.QA QISI.QA MCCS.QA MRDS.QA MCGS.QA MCGS.QA MCGS.QA MCGS.QA MCGS.QA MPHC.QA QGTS.QA QNCD.QA NLCS.QA
Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei	8031.T 2768.T 8053.T 8015.T 7832.T 7912.T 7911.T 7951.T 8267.T 9983.T 3099.T 3086.T 8252.T 3382.T 8233.T 8304.T	Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei	9062.T 9064.T 9107.T 9104.T 9101.T 9202.T 9301.T 9433.T 9432.T 9613.T 9412.T 9434.T 9984.T 9502.T	QSE	QIMD.QA IQCD.QA QIIK.QA IGRD.QA IGRD.QA IHGS.QA QISI.QA MCCS.QA MRDS.QA MCGS.QA MPHC.QA QGTS.QA QNCD.QA NLCS.QA ORDS.QA
Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei	8031.T 2768.T 8053.T 8015.T 7832.T 7912.T 7911.T 7951.T 8267.T 9983.T 3099.T 3086.T 8252.T 3382.T 8233.T 8304.T 8331.T	Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei	9062.T 9064.T 9107.T 9104.T 9101.T 9202.T 9301.T 9433.T 9432.T 9613.T 9412.T 9434.T 9984.T 9502.T 9503.T	QSE	QIMD.QA IQCD.QA QIIK.QA IGRD.QA IGRD.QA IHGS.QA QISI.QA MCCS.QA MRDS.QA MCGS.QA MPHC.QA QGTS.QA QNCD.QA NLCS.QA ORDS.QA QFBQ.QA
Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei	8031.T 2768.T 8053.T 8015.T 7832.T 7912.T 7911.T 7951.T 8267.T 9983.T 3099.T 3086.T 8252.T 3382.T 8233.T 8304.T	Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei	9062.T 9064.T 9107.T 9104.T 9101.T 9202.T 9301.T 9433.T 9432.T 9613.T 9412.T 9434.T 9984.T 9502.T	QSE	QIMD.QA IQCD.QA QIIK.QA IGRD.QA IGRD.QA IHGS.QA QISI.QA MCCS.QA MRDS.QA MCGS.QA MPHC.QA QGTS.QA QNCD.QA NLCS.QA ORDS.QA
Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei	8031.T 2768.T 8053.T 8015.T 7832.T 7912.T 7911.T 7951.T 8267.T 9983.T 3099.T 3086.T 8252.T 3382.T 8233.T 8304.T 8331.T 7186.T	Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei Nikkei	9062.T 9064.T 9107.T 9104.T 9101.T 9202.T 9301.T 9432.T 9613.T 9412.T 9434.T 9984.T 9502.T 9503.T 9501.T	QSE	QIMD.QA IQCD.QA QIIK.QA IGRD.QA IHGS.QA QISI.QA MCCS.QA MRDS.QA MCGS.QA MPHC.QA QGTS.QA QNCD.QA NLCS.QA ORDS.QA QFBQ.QA
Nikkei	8031.T 2768.T 8053.T 8015.T 7832.T 7912.T 7911.T 7951.T 8267.T 9983.T 3099.T 3086.T 8252.T 3382.T 8233.T 8234.T 8334.T 8331.T 7186.T 8309.T	Nikkei	9062.T 9064.T 9107.T 9104.T 9101.T 9202.T 9301.T 9433.T 9432.T 9613.T 9412.T 9434.T 9984.T 9502.T 9503.T 9501.T 9532.T	QSE	QIMD.QA IQCD.QA QIIK.QA IGRD.QA IGRD.QA IHGS.QA QISI.QA MCCS.QA MRDS.QA MCGS.QA MPHC.QA QGTS.QA QNCD.QA ORDS.QA QFBQ.QA QFBQ.QA QGMD.QA
Nikkei	8031.T 2768.T 8053.T 8015.T 7832.T 7912.T 7911.T 7951.T 8267.T 9983.T 3099.T 3086.T 8252.T 3382.T 8233.T 8304.T 8331.T 7186.T 8309.T 8399.T	Nikkei	9062.T 9064.T 9107.T 9104.T 9101.T 9202.T 9301.T 9432.T 9613.T 9412.T 9434.T 9984.T 9502.T 9503.T 9501.T 9532.T 9531.T 4751.T	QSE	QIMD.QA IQCD.QA QIIK.QA IGRD.QA IGRD.QA IHGS.QA QISI.QA MCCS.QA MRDS.QA MCGS.QA MPHC.QA QGTS.QA QNCD.QA NLCS.QA ORDS.QA QFBQ.QA QFBQ.QA QGMD.QA QGTI.QA
Nikkei	8031.T 2768.T 8053.T 8015.T 7832.T 7912.T 7911.T 7951.T 8267.T 9983.T 3099.T 3086.T 8252.T 3382.T 8233.T 8234.T 8334.T 8331.T 7186.T 8309.T	Nikkei	9062.T 9064.T 9107.T 9104.T 9101.T 9202.T 9301.T 9433.T 9432.T 9613.T 9412.T 9434.T 9984.T 9502.T 9503.T 9501.T 9532.T	QSE	QIMD.QA IQCD.QA QIIK.QA IGRD.QA IGRD.QA IHGS.QA QISI.QA MCCS.QA MRDS.QA MCGS.QA MPHC.QA QGTS.QA QNCD.QA ORDS.QA QFBQ.QA QFBQ.QA QGMD.QA
Nikkei	8031.T 2768.T 8053.T 8015.T 7832.T 7912.T 7911.T 7951.T 8267.T 9983.T 3099.T 3086.T 8252.T 3382.T 8233.T 8304.T 8331.T 7186.T 8309.T 8309.T	Nikkei	9062.T 9064.T 9107.T 9104.T 9101.T 9202.T 9301.T 9433.T 9432.T 9613.T 9412.T 9434.T 9984.T 9502.T 9503.T 9501.T 9532.T 9531.T 4751.T 2432.T	QSE	QIMD.QA IQCD.QA QIIK.QA IGRD.QA IGRD.QA IHGS.QA QISI.QA MCCS.QA MRDS.QA MCGS.QA MPHC.QA QGTS.QA QNCD.QA NLCS.QA ORDS.QA QFBQ.QA QFLS.QA QGMD.QA QGMD.QA QGMD.QA QGMD.QA
Nikkei	8031.T 2768.T 8053.T 8015.T 7832.T 7912.T 7911.T 7951.T 8267.T 9983.T 3099.T 3086.T 8252.T 3382.T 8233.T 8304.T 8304.T 8309.T 8306.T 8354.T 8306.T	Nikkei	9062.T 9064.T 9107.T 9104.T 9101.T 9202.T 9301.T 9433.T 9432.T 9613.T 9412.T 9434.T 9984.T 9502.T 9503.T 9501.T 9532.T 9531.T 4751.T 2432.T	QSE	QIMD.QA IQCD.QA QIIK.QA IGRD.QA IGRD.QA IHGS.QA QISI.QA MCCS.QA MRDS.QA MCGS.QA MPHC.QA QGTS.QA QNCD.QA NLCS.QA ORDS.QA QFBQ.QA QGMD.QA QGMD.QA QGMD.QA QIBK.QA QNNS.QA
Nikkei	8031.T 2768.T 8053.T 8015.T 7832.T 7912.T 7911.T 7951.T 8267.T 9983.T 3099.T 3086.T 8252.T 3382.T 8233.T 8304.T 8331.T 7186.T 8309.T 8354.T 8306.T	Nikkei	9062.T 9064.T 9107.T 9104.T 9101.T 9202.T 9301.T 9433.T 9432.T 9613.T 9412.T 9434.T 9502.T 9503.T 9501.T 9532.T 9531.T 4751.T 2432.T 4324.T 6178.T	QSE	QIMD.QA IQCD.QA QIIK.QA IGRD.QA IGRD.QA IHGS.QA QISI.QA MCCS.QA MRDS.QA MCGS.QA MPHC.QA QGTS.QA QNCD.QA NLCS.QA ORDS.QA QFBQ.QA QFLS.QA QFBQ.QA QGMD.QA QATI.QA QIBK.QA QNNS.QA
Nikkei	8031.T 2768.T 8053.T 8015.T 7832.T 7912.T 7911.T 7951.T 8267.T 9983.T 3099.T 3086.T 8252.T 3382.T 8233.T 8304.T 8304.T 8309.T 8306.T 8354.T 8306.T	Nikkei	9062.T 9064.T 9107.T 9104.T 9101.T 9202.T 9301.T 9433.T 9432.T 9613.T 9412.T 9434.T 9984.T 9502.T 9503.T 9501.T 9532.T 9531.T 4751.T 2432.T	QSE	QIMD.QA IQCD.QA QIIK.QA IGRD.QA IGRD.QA IHGS.QA QISI.QA MCCS.QA MRDS.QA MCGS.QA MPHC.QA QGTS.QA QNCD.QA NLCS.QA ORDS.QA QFBQ.QA QGMD.QA QGMD.QA QGMD.QA QIBK.QA QNNS.QA
Nikkei	8031.T 2768.T 8053.T 8015.T 7832.T 7912.T 7911.T 7951.T 8267.T 9983.T 3099.T 3086.T 8252.T 3382.T 8233.T 8304.T 8331.T 7186.T 8309.T 8309.T 8309.T	Nikkei	9062.T 9064.T 9107.T 9104.T 9101.T 9202.T 9301.T 9432.T 9613.T 9412.T 9434.T 9502.T 9503.T 9501.T 9532.T 9531.T 4751.T 2432.T 4324.T 6178.T 9766.T	QSE	QIMD.QA IQCD.QA QIIK.QA IGRD.QA IGRD.QA IHGS.QA QISI.QA MCCS.QA MRDS.QA MCGS.QA MPHC.QA QGTS.QA QNCD.QA ORDS.QA QFBQ.QA QFLS.QA QGMD.QA QGMD.QA QGMD.QA QATI.QA QIBK.QA QNNS.QA QOIS.QA
Nikkei	8031.T 2768.T 8053.T 8015.T 7832.T 7912.T 7911.T 7951.T 8267.T 9983.T 3099.T 3086.T 8252.T 3382.T 8233.T 8304.T 8331.T 7186.T 8309.T 8354.T 8306.T 8411.T 8308.T 8308.T 8308.T	Nikkei	9062.T 9064.T 9107.T 9104.T 9101.T 9202.T 9301.T 9432.T 9613.T 9412.T 9434.T 9984.T 9502.T 9503.T 9501.T 9532.T 9531.T 4751.T 2432.T 4324.T 6178.T 9766.T 2413.T	QSE	QIMD.QA IQCD.QA QIIK.QA IGRD.QA IGRD.QA IHGS.QA QISI.QA MCCS.QA MRDS.QA MCGS.QA MPHC.QA QGTS.QA QNCD.QA NLCS.QA ORDS.QA QFBQ.QA QFBQ.QA QGMD.QA QGTS.QA QGMD.QA QATI.QA QIBK.QA QNNS.QA
Nikkei	8031.T 2768.T 8053.T 8015.T 7832.T 7912.T 7911.T 7951.T 8267.T 9983.T 3099.T 3086.T 8252.T 3382.T 8233.T 8304.T 8331.T 7186.T 8309.T 8309.T 8309.T	Nikkei	9062.T 9064.T 9107.T 9104.T 9101.T 9202.T 9301.T 9433.T 9432.T 9613.T 9412.T 9434.T 9502.T 9503.T 9501.T 9532.T 9531.T 4751.T 2432.T 4324.T 6178.T 9766.T 2413.T 3659.T	QSE	QIMD.QA IQCD.QA QIIK.QA IGRD.QA QIGD.QA IHGS.QA QISI.QA MCCS.QA MRDS.QA MCGS.QA MPHC.QA QGTS.QA QNCD.QA NLCS.QA QFBQ.QA QFBQ.QA QFBQ.QA QATI.QA QATI.QA QIBK.QA QNNS.QA QNNS.QA QNNS.QA QNBK.QA MARK.QA SIIS.QA
Nikkei	8031.T 2768.T 8053.T 8015.T 7832.T 7912.T 7911.T 7951.T 8267.T 9983.T 3099.T 3086.T 8252.T 3382.T 8233.T 8304.T 8331.T 7186.T 8309.T 8309.T 8354.T 8308.T 8308.T 8411.T 8308.T 8308.T 8308.T 8316.T 8361.T	Nikkei	9062.T 9064.T 9107.T 9104.T 9101.T 9202.T 9301.T 9433.T 9432.T 9613.T 9412.T 9434.T 9502.T 9502.T 9501.T 9532.T 9531.T 4751.T 2432.T 4324.T 6178.T 9766.T 2413.T 3659.T 4755.T	QSE	QIMD.QA IQCD.QA QIIK.QA IGRD.QA IGRD.QA IHGS.QA QISI.QA MCCS.QA MRDS.QA MCGS.QA MPHC.QA QGTS.QA QNCD.QA NLCS.QA ORDS.QA QFBQ.QA QFBQ.QA QFBQ.QA QATI.QA QIBK.QA QNBK.QA QNBK.QA MARK.QA SIIS.QA UDCD.QA
Nikkei	8031.T 2768.T 8053.T 8015.T 7832.T 7912.T 7911.T 7951.T 8267.T 9983.T 3099.T 3086.T 8252.T 3382.T 8233.T 8304.T 8331.T 7186.T 8309.T 8309.T 8309.T	Nikkei	9062.T 9064.T 9107.T 9104.T 9101.T 9202.T 9301.T 9433.T 9432.T 9613.T 9412.T 9434.T 9502.T 9503.T 9501.T 9532.T 9531.T 4751.T 2432.T 4324.T 6178.T 9766.T 2413.T 3659.T	QSE	QIMD.QA IQCD.QA QIIK.QA IGRD.QA IGRD.QA IHGS.QA QISI.QA MCCS.QA MRDS.QA MCGS.QA MPHC.QA QGTS.QA QNCD.QA NLCS.QA ORDS.QA QFBQ.QA QFBQ.QA QFBQ.QA QATI.QA QIBK.QA QNBK.QA QNBK.QA MARK.QA SIIS.QA UDCD.QA
Nikkei	8031.T 2768.T 8053.T 8015.T 7832.T 7912.T 7911.T 7951.T 8267.T 9983.T 3099.T 3086.T 8252.T 3382.T 8233.T 8304.T 8331.T 7186.T 8309.T 8354.T 8306.T 8411.T 8308.T 8316.T 8411.T 8308.T 8355.T 8316.T	Nikkei	9062.T 9064.T 9107.T 9104.T 9101.T 9202.T 9301.T 9433.T 9432.T 9613.T 9412.T 9434.T 9502.T 9502.T 9503.T 9531.T 4751.T 2432.T 4324.T 6178.T 9766.T 2413.T 3659.T 4755.T 6098.T	QSE	QIMD.QA IQCD.QA QIIK.QA IGRD.QA IGRD.QA IHGS.QA QISI.QA MCCS.QA MRDS.QA MCGS.QA MPHC.QA QGTS.QA QNCD.QA QRDS.QA QFLS.QA QFBQ.QA QFBQ.QA QFBQ.QA QFMD.QA QGMD.QA QGMD.QA QGMD.QA QGMD.QA QGMD.QA QIBK.QA QUIS.QA QUIS.QA QUIS.QA QUIS.QA QNNS.QA QOIS.QA QNNS.QA QUIS.QA QNBK.QA MARK.QA SIIS.QA UDCD.QA VFQS.QA
Nikkei	8031.T 2768.T 8053.T 8015.T 7832.T 7912.T 7911.T 7951.T 8267.T 9983.T 3099.T 3086.T 8252.T 3382.T 8334.T 8331.T 7186.T 8309.T 8354.T 8306.T 8411.T 8308.T 8308.T 8411.T 8308.T 8411.T 8308.T 8411.T 8308.T 8411.T	Nikkei	9062.T 9064.T 9107.T 9104.T 9101.T 9202.T 9301.T 9433.T 9432.T 9613.T 9412.T 9434.T 9502.T 9503.T 9501.T 9532.T 9531.T 4751.T 2432.T 4324.T 6178.T 9766.T 2413.T 3659.T 4755.T 6098.T 9735.T	QSE	QIMD.QA IQCD.QA QIIK.QA IGRD.QA IGRD.QA IHGS.QA QISI.QA MCCS.QA MRDS.QA MCGS.QA MPHC.QA QGTS.QA QNCD.QA NLCS.QA ORDS.QA QFBQ.QA QFBQ.QA QFBQ.QA QGMD.QA QGMD.QA QGMS.QA QONS.QA
Nikkei	8031.T 2768.T 8053.T 8015.T 7832.T 7912.T 7911.T 7951.T 8267.T 9983.T 3099.T 3086.T 8252.T 3382.T 8331.T 7186.T 8309.T 8354.T 8306.T 8411.T 8308.T 8308.T 8308.T 8316.T 8401.T 8601.T 8604.T 8750.T	Nikkei	9062.T 9064.T 9107.T 9104.T 9101.T 9202.T 9301.T 9433.T 9432.T 9613.T 9412.T 9434.T 9984.T 9502.T 9503.T 9501.T 9531.T 4751.T 2432.T 4324.T 6178.T 9766.T 2413.T 3659.T 4755.T 6098.T 9735.T 9602.T	QSE	QIMD.QA IQCD.QA QIIK.QA IGRD.QA IGRD.QA IHGS.QA QISI.QA MCCS.QA MRDS.QA MCGS.QA MPHC.QA QGTS.QA QNCD.QA NLCS.QA QRDS.QA QFBQ.QA QFBQ.QA QFBV.QA QATI.QA QISI.QA QOIS.QA QMB.QA QATI.QA QISI.QA QNBS.QA QHBV.QA QATI.QA QISI.QA QNBS.QA AMARK.QA SIIS.QA UDCD.QA VFQS.QA WDAM.QA ZHCD.QA
Nikkei	8031.T 2768.T 8053.T 8015.T 7832.T 7912.T 7911.T 7951.T 8267.T 9983.T 3099.T 3086.T 8252.T 3382.T 8334.T 8331.T 7186.T 8309.T 8354.T 8306.T 8411.T 8308.T 8308.T 8411.T 8308.T 8411.T 8308.T 8411.T 8308.T 8411.T	Nikkei	9062.T 9064.T 9107.T 9104.T 9101.T 9202.T 9301.T 9433.T 9432.T 9613.T 9412.T 9434.T 9502.T 9503.T 9501.T 9532.T 9531.T 4751.T 2432.T 4324.T 6178.T 9766.T 2413.T 3659.T 4755.T 6098.T 9735.T	QSE	QIMD.QA IQCD.QA QIIK.QA IGRD.QA IGRD.QA IHGS.QA QISI.QA MCCS.QA MRDS.QA MCGS.QA MPHC.QA QGTS.QA QNCD.QA NLCS.QA ORDS.QA QFBQ.QA QFBQ.QA QFBQ.QA QGMD.QA QGMD.QA QGMS.QA QONS.QA
Nikkei	8031.T 2768.T 8053.T 8015.T 7832.T 7912.T 7911.T 7951.T 8267.T 9983.T 3099.T 3086.T 8252.T 3382.T 8233.T 8304.T 8331.T 7186.T 8309.T 8306.T 8411.T 8308.T 8306.T 8411.T 8308.T 8306.T 8411.T 8308.T	Nikkei	9062.T 9064.T 9107.T 9104.T 9101.T 9202.T 9301.T 9433.T 9432.T 9613.T 9412.T 9434.T 9502.T 9503.T 9501.T 9532.T 9531.T 4751.T 2432.T 4324.T 6178.T 9766.T 2413.T 3659.T 4755.T 6098.T 9735.T 9602.T 9602.T 4704.T	QSE	QIMD.QA IQCD.QA QIIK.QA IGRD.QA IGRD.QA IHGS.QA QISI.QA MCCS.QA MRDS.QA MCGS.QA MPHC.QA QGTS.QA QNCD.QA NLCS.QA QFBQ.QA QFBQ.QA QFBQ.QA QFBQ.QA QFBQ.QA QBBC.QA QNBK.QA MARK.QA SIIS.QA UDCD.QA VFQS.QA WDAM.QA ZHCD.QA 4001.SR
Nikkei	8031.T 2768.T 8053.T 8015.T 7832.T 7912.T 7911.T 7951.T 8267.T 9983.T 3099.T 3086.T 8252.T 3382.T 8331.T 7186.T 8304.T 8309.T 8309.T 831.T 7186.T 8309.T 831.T 7186.T 8309.T 831.T 7186.T 8309.T 8309.T 8309.T 8309.T 8309.T 8309.T 8309.T 8309.T 8309.T 8309.T 8309.T	Nikkei	9062.T 9064.T 9107.T 9104.T 9101.T 9202.T 9301.T 9433.T 9432.T 9613.T 9412.T 9434.T 9502.T 9503.T 9501.T 9532.T 9531.T 4751.T 2432.T 4324.T 6178.T 9766.T 2413.T 3659.T 4755.T 6098.T 9735.T 9602.T 4704.T 4689.T	QSE QSE	QIMD.QA IQCD.QA QIIK.QA IGRD.QA IGRD.QA IGRD.QA IHGS.QA QISI.QA MCCS.QA MRDS.QA MCGS.QA MPHC.QA QGTS.QA QNCD.QA NLCS.QA ORDS.QA QFBQ.QA QFBQ.QA QFLS.QA QMBK.QA QNS.QA QNBK.QA MARK.QA SIIS.QA UDCD.QA VFQS.QA WDAM.QA ZHCD.QA 4001.SR 4191.SR
Nikkei	8031.T 2768.T 8053.T 8015.T 7832.T 7912.T 7911.T 7951.T 8267.T 9983.T 3099.T 3086.T 8252.T 3382.T 8233.T 8304.T 8331.T 7186.T 8309.T 8306.T 8411.T 8308.T 8306.T 8411.T 8308.T 8306.T 8411.T 8308.T	Nikkei	9062.T 9064.T 9107.T 9104.T 9101.T 9202.T 9301.T 9433.T 9432.T 9613.T 9412.T 9434.T 9502.T 9503.T 9501.T 9532.T 9531.T 4751.T 2432.T 4324.T 6178.T 9766.T 2413.T 3659.T 4755.T 6098.T 9735.T 9602.T 9602.T 4704.T	QSE	QIMD.QA IQCD.QA QIIK.QA IGRD.QA IGRD.QA IHGS.QA QISI.QA MCCS.QA MRDS.QA MCGS.QA MPHC.QA QGTS.QA QNCD.QA NLCS.QA QFBQ.QA QFBQ.QA QFBQ.QA QFBQ.QA QFBQ.QA QBBC.QA QNBK.QA MARK.QA SIIS.QA UDCD.QA VFQS.QA WDAM.QA ZHCD.QA 4001.SR

Nikkei					
	8697.T	QSE	KCBK.QA	SASE	4130.SR
Nikkei	8802.T	QSE	MERS.QA	SASE	6020.SR
Nikkei	8801.T	QSE	BRES.QA	SASE	4007.SR
Nikkei	8830.T	QSE	QCFS.QA	SASE	1214.SR
Nikkei	8804.T	QSE	CBQK.QA	SASE	6070.SR
Nikkei	3289.T	QSE	DBIS.QA	SASE	3091.SR
Nikkei	9022.T	QSE	DHBK.QA	SASE	3008.SR
Nikkei	9020.T	QSE	DOHI.QA	SASE	4290.SR
Nikkei	9008.T	QSE	QEWS.QA	SASE	4141.SR
Nikkei	9009.T	QSE	ERES.QA	SASE	1120.SR
Nikkei	9007.T	QSE	QGRI.QA	SASE	8230.SR
Nikkei	9001.T	QSE	GISS.QA	SASE	8180.SR
		· ·	•		
Market/Index	Yahoo ticker	Market/Index	Yahoo ticker	Market/Index	Yahoo ticker
SASE	1304.SR	SASE	3080.SR	SASE	4230.SR
SASE	8130.SR	SASE	1303.SR	SASE	1010.SR
SASE	4320.SR	SASE	4220.SR	SASE	4330.SR
SASE	2320.SR	SASE	7040.SR	SASE	9512.SR
SASE	4200.SR	SASE	7020.SR	SASE	8080.SR
SASE	8170.SR	SASE	4240.SR	SASE	2020.SR
SASE	1150.SR	SASE	2180.SR	SASE	1832.SR
SASE	8312.SR	SASE	4180.SR	SASE	2310.SR
SASE	4331.SR	SASE	8260.SR	SASE	8050.SR
SASE	8012.SR	SASE	8120.SR	SASE	2120.SR
SASE	2081.SR	SASE	3001.SR	SASE	6004.SR
SASE	8040.SR	SASE	6001.SR	SASE	2030.SR
SASE	8150.SR	SASE	6002.SR	SASE	2160.SR
SASE	2280.SR	SASE	4250.SR	SASE	8100.SR
SASE	2170.SR	SASE	4190.SR	SASE	1211.SR
SASE	8310.SR	SASE	6090.SR	SASE	2222.SR
SASE	1182.SR	SASE	4280.SR	SASE	4050.SR
SASE	4061.SR	SASE	4310.SR	SASE	2010.SR
SASE	1080.SR	SASE	4011.SR	SASE	1060.SR
SASE					
	7201.SR	SASE	1830.SR	SASE	3030.SR
SASE	8160.SR	SASE	4100.SR	SASE	2040.SR
SASE	3010.SR	SASE	8020.SR	SASE	2230.SR
SASE	2200.SR	SASE	8030.SR	SASE	4008.SR
SASE	8070.SR	SASE	2001.SR	SASE	5110.SR
SASE	4150.SR	SASE	4009.SR	SASE	8311.SR
SASE		SASE	1202.SR	SASE	6050.SR
	4080.SR				
SASE	6060.SR	SASE	2370.SR	SASE	4031.SR
SASE	1212.SR	SASE	7030.SR	SASE	2130.SR
SASE	8250.SR	SASE	4002.SR	SASE	4140.SR
SASE	2140.SR	SASE	4336.SR	SASE	2250.SR
SASE	4051.SR	SASE	3002.SR	SASE	2190.SR
SASE	1140.SR	SASE	2210.SR	SASE	1030.SR
SASE	1020.SR	SASE	1213.SR	SASE	2350.SR
SASE	1050.SR	SASE	6010.SR	SASE	4006.SR
SASE	1210.SR	SASE	9510.SR	SASE	1180.SR
SASE	4110.SR	SASE	2150.SR	SASE	2300.SR
SASE	1302.SR	SASE	4291.SR	SASE	2070.SR
SASE		SASE	2080.SR	SASE	
	4161.SR				4270.SR
SASE	8210.SR	SASE	2090.SR	SASE	4040.SR
SASE	8270.SR	SASE	2060.SR	SASE	4020.SR
		CACE			
SASE	8240.SR	SASE	4005.SR	SASE	8200.SR
SASE SASE		SASE SASE	4005.SR 2220.SR	SASE SASE	
SASE	8240.SR 3003.SR	SASE	2220.SR	SASE	8200.SR 4210.SR
SASE SASE	8240.SR 3003.SR 8010.SR	SASE SASE	2220.SR 2002.SR	SASE SASE	8200.SR 4210.SR 1320.SR
SASE SASE SASE	8240.SR 3003.SR 8010.SR 4004.SR	SASE SASE SASE	2220.SR 2002.SR 4030.SR	SASE SASE SASE	8200.SR 4210.SR 1320.SR 7010.SR
SASE SASE SASE SASE	8240.SR 3003.SR 8010.SR 4004.SR 4300.SR	SASE SASE SASE SASE	2220.SR 2002.SR 4030.SR 3004.SR	SASE SASE SASE SASE	8200.SR 4210.SR 1320.SR 7010.SR 2360.SR
SASE SASE SASE SASE SASE	8240.SR 3003.SR 8010.SR 4004.SR 4300.SR 9501.SR	SASE SASE SASE SASE SASE	2220.SR 2002.SR 4030.SR 3004.SR 3040.SR	SASE SASE SASE SASE SASE	8200.SR 4210.SR 1320.SR 7010.SR 2360.SR 2270.SR
SASE SASE SASE SASE SASE SASE	8240.SR 3003.SR 8010.SR 4004.SR 4300.SR 9501.SR 4013.SR	SASE SASE SASE SASE SASE SASE	2220.SR 2002.SR 4030.SR 3004.SR 3040.SR 2380.SR	SASE SASE SASE SASE SASE SASE	8200.SR 4210.SR 1320.SR 7010.SR 2360.SR 2270.SR 2050.SR
SASE SASE SASE SASE SASE	8240.SR 3003.SR 8010.SR 4004.SR 4300.SR 9501.SR	SASE SASE SASE SASE SASE	2220.SR 2002.SR 4030.SR 3004.SR 3040.SR	SASE SASE SASE SASE SASE	8200.SR 4210.SR 1320.SR 7010.SR 2360.SR 2270.SR
SASE SASE SASE SASE SASE SASE SASE	8240.SR 3003.SR 8010.SR 4004.SR 4300.SR 9501.SR 4013.SR 4010.SR	SASE SASE SASE SASE SASE SASE SASE	2220.SR 2002.SR 4030.SR 3004.SR 3040.SR 2380.SR 6012.SR	SASE SASE SASE SASE SASE SASE SASE	8200.SR 4210.SR 1320.SR 7010.SR 2360.SR 2270.SR 2050.SR 4344.SR
SASE SASE SASE SASE SASE SASE SASE SASE	8240.SR 3003.SR 8010.SR 4004.SR 4300.SR 9501.SR 4013.SR 4010.SR	SASE SASE SASE SASE SASE SASE SASE SASE	2220.SR 2002.SR 4030.SR 3004.SR 3040.SR 2380.SR 6012.SR	SASE SASE SASE SASE SASE SASE SASE Market/Index	8200.SR 4210.SR 1320.SR 7010.SR 2360.SR 2270.SR 2050.SR 4344.SR
SASE SASE SASE SASE SASE SASE SASE SASE	8240.SR 3003.SR 8010.SR 4004.SR 4300.SR 9501.SR 4013.SR 4010.SR Yahoo ticker	SASE SASE SASE SASE SASE SASE SASE SASE	2220.SR 2002.SR 4030.SR 3004.SR 3040.SR 2380.SR 6012.SR Yahoo ticker	SASE SASE SASE SASE SASE SASE SASE SASE	8200.SR 4210.SR 1320.SR 7010.SR 2360.SR 2270.SR 2050.SR 4344.SR Yahoo ticker
SASE SASE SASE SASE SASE SASE SASE SASE	8240.SR 3003.SR 8010.SR 4004.SR 4300.SR 9501.SR 4013.SR 4010.SR	SASE SASE SASE SASE SASE SASE SASE SASE	2220.SR 2002.SR 4030.SR 3004.SR 3040.SR 2380.SR 6012.SR	SASE SASE SASE SASE SASE SASE SASE Market/Index	8200.SR 4210.SR 1320.SR 7010.SR 2360.SR 2270.SR 2050.SR 4344.SR
SASE SASE SASE SASE SASE SASE SASE SASE	8240.SR 3003.SR 8010.SR 4004.SR 4300.SR 9501.SR 4013.SR 4010.SR Yahoo ticker	SASE SASE SASE SASE SASE SASE SASE SASE	2220.SR 2002.SR 4030.SR 3004.SR 3040.SR 2380.SR 6012.SR Yahoo ticker	SASE SASE SASE SASE SASE SASE SASE SASE	8200.SR 4210.SR 1320.SR 7010.SR 2360.SR 2270.SR 2050.SR 4344.SR Yahoo ticker
SASE SASE SASE SASE SASE SASE SASE SASE	8240.SR 3003.SR 8010.SR 4004.SR 4300.SR 9501.SR 4013.SR 4010.SR Yahoo ticker 1810.SR 3050.SR 9511.SR	SASE SASE SASE SASE SASE SASE SASE SASE	2220.SR 2002.SR 4030.SR 3004.SR 3040.SR 2380.SR 6012.SR Yahoo ticker GOOG MO AMZN	SASE SASE SASE SASE SASE SASE SASE SASE	8200.SR 4210.SR 1320.SR 7010.SR 2360.SR 2270.SR 2050.SR 4344.SR Yahoo ticker BSX BMY AVGO
SASE SASE SASE SASE SASE SASE SASE SASE	8240.SR 3003.SR 8010.SR 4004.SR 4300.SR 9501.SR 4013.SR 4010.SR Yahoo ticker 1810.SR 3050.SR 9511.SR 6040.SR	SASE SASE SASE SASE SASE SASE SASE SASE	2220.SR 2002.SR 4030.SR 3004.SR 3040.SR 2380.SR 6012.SR Yahoo ticker GOOG MO AMZN AMCR	SASE SASE SASE SASE SASE SASE SASE SASE	8200.SR 4210.SR 1320.SR 7010.SR 2360.SR 2270.SR 2050.SR 4344.SR Yahoo ticker BSX BMY AVGO BR
SASE SASE SASE SASE SASE SASE SASE SASE	8240.SR 3003.SR 8010.SR 4004.SR 4300.SR 9501.SR 4013.SR 4010.SR Yahoo ticker 1810.SR 3050.SR 9511.SR 6040.SR 3090.SR	SASE SASE SASE SASE SASE SASE SASE SASE	2220.SR 2002.SR 4030.SR 3004.SR 3040.SR 2380.SR 6012.SR Yahoo ticker GOOG MO AMZN AMCR AEE	SASE SASE SASE SASE SASE SASE SASE SASE	8200.SR 4210.SR 1320.SR 7010.SR 2360.SR 2270.SR 2050.SR 4344.SR Yahoo ticker BSX BMY AVGO BR CHRW
SASE SASE SASE SASE SASE SASE SASE SASE	8240.SR 3003.SR 8010.SR 4004.SR 4300.SR 9501.SR 4013.SR 4010.SR Yahoo ticker 1810.SR 3050.SR 9511.SR 6040.SR 3090.SR 4090.SR	SASE SASE SASE SASE SASE SASE SASE SASE	2220.SR 2002.SR 4030.SR 3004.SR 3040.SR 2380.SR 6012.SR Yahoo ticker GOOG MO AMZN AMCR AEE	SASE SASE SASE SASE SASE SASE SASE Market/Index S&P500 S&P500 S&P500 S&P500 S&P500 S&P500 S&P500	8200.SR 4210.SR 1320.SR 7010.SR 2360.SR 2270.SR 2050.SR 4344.SR Yahoo ticker BSX BMY AVGO BR CHRW COG
SASE SASE SASE SASE SASE SASE SASE SASE	8240.SR 3003.SR 8010.SR 4004.SR 4300.SR 9501.SR 4013.SR 4010.SR Yahoo ticker 1810.SR 3050.SR 9511.SR 6040.SR 3090.SR 4090.SR	SASE SASE SASE SASE SASE SASE SASE SASE	2220.SR 2002.SR 4030.SR 3004.SR 3040.SR 2380.SR 6012.SR Yahoo ticker GOOG MO AMZN AMCR AEE AAL	SASE SASE SASE SASE SASE SASE SASE SASE	8200.SR 4210.SR 1320.SR 7010.SR 2360.SR 2270.SR 2050.SR 4344.SR Yahoo ticker BSX BMY AVGO BR CHRW COG
SASE SASE SASE SASE SASE SASE SASE SASE	8240.SR 3003.SR 8010.SR 4004.SR 4300.SR 9501.SR 4013.SR 4010.SR Yahoo ticker 1810.SR 3050.SR 9511.SR 6040.SR 3090.SR 4090.SR 1201.SR	SASE SASE SASE SASE SASE SASE SASE SASE	2220.SR 2002.SR 4030.SR 3004.SR 3040.SR 2380.SR 6012.SR Yahoo ticker GOOG MO AMZN AMCR AEE AAL AEP	SASE SASE SASE SASE SASE SASE SASE SASE	8200.SR 4210.SR 1320.SR 7010.SR 2360.SR 2270.SR 2050.SR 4344.SR Yahoo ticker BSX BMY AVGO BR CHRW COG CDNS CZR
SASE SASE SASE SASE SASE SASE SASE SASE	8240.SR 3003.SR 8010.SR 4004.SR 4300.SR 9501.SR 4013.SR 4010.SR Yahoo ticker 1810.SR 3050.SR 9511.SR 6040.SR 3090.SR 4090.SR	SASE SASE SASE SASE SASE SASE SASE SASE	2220.SR 2002.SR 4030.SR 3004.SR 3040.SR 2380.SR 6012.SR Yahoo ticker GOOG MO AMZN AMCR AEE AAL	SASE SASE SASE SASE SASE SASE SASE SASE	8200.SR 4210.SR 1320.SR 7010.SR 2360.SR 2270.SR 2050.SR 4344.SR Yahoo ticker BSX BMY AVGO BR CHRW COG
SASE SASE SASE SASE SASE SASE SASE SASE	8240.SR 3003.SR 8010.SR 4004.SR 4300.SR 9501.SR 4013.SR 4010.SR Yahoo ticker 1810.SR 3050.SR 9511.SR 6040.SR 3090.SR 4090.SR 1201.SR 4012.SR 4070.SR	SASE SASE SASE SASE SASE SASE SASE SASE	2220.SR 2002.SR 4030.SR 3004.SR 3040.SR 2380.SR 6012.SR Yahoo ticker GOOG MO AMZN AMCR AEE AAL AEP	SASE SASE SASE SASE SASE SASE SASE SASE	8200.SR 4210.SR 1320.SR 7010.SR 2360.SR 2270.SR 2050.SR 4344.SR Yahoo ticker BSX BMY AVGO BR CHRW COG CDNS CZR
SASE SASE SASE SASE SASE SASE SASE SASE	8240.SR 3003.SR 8010.SR 4004.SR 4300.SR 9501.SR 4013.SR 4010.SR Yahoo ticker 1810.SR 3050.SR 9511.SR 6040.SR 3090.SR 4090.SR 1201.SR 4012.SR 4070.SR	SASE SASE SASE SASE SASE SASE SASE SASE	2220.SR 2002.SR 4030.SR 3004.SR 3040.SR 2380.SR 6012.SR Yahoo ticker GOOG MO AMZN AMCR AEE AAL AEP AXP AIG	SASE SASE SASE SASE SASE SASE SASE SASE	8200.SR 4210.SR 1320.SR 7010.SR 2360.SR 2270.SR 2050.SR 4344.SR Yahoo ticker BSX BMY AVGO BR CHRW COG CDNS CZR CPB
SASE SASE SASE SASE SASE SASE SASE SASE	8240.SR 3003.SR 8010.SR 4004.SR 4300.SR 9501.SR 4013.SR 4010.SR Yahoo ticker 1810.SR 3050.SR 9511.SR 6040.SR 3090.SR 4090.SR 1201.SR 4070.SR 4170.SR 3005.SR	SASE SASE SASE SASE SASE SASE SASE SASE	2220.SR 2002.SR 4030.SR 3004.SR 3040.SR 2380.SR 6012.SR Yahoo ticker GOOG MO AMZN AMCR AEE AAL AEP AXP AIG AMT	SASE SASE SASE SASE SASE SASE SASE SASE	8200.SR 4210.SR 1320.SR 7010.SR 2360.SR 2270.SR 2050.SR 4344.SR Yahoo ticker BSX BMY AVGO BR CHRW COG CDNS CZR CPB COF
SASE SASE SASE SASE SASE SASE SASE SASE	8240.SR 3003.SR 8010.SR 4004.SR 4300.SR 9501.SR 4013.SR 4010.SR Yahoo ticker 1810.SR 3050.SR 9511.SR 6040.SR 3090.SR 4090.SR 1201.SR 4070.SR 4170.SR 4170.SR 3095.SR	SASE SASE SASE SASE SASE SASE SASE SASE	2220.SR 2002.SR 4030.SR 3004.SR 3040.SR 2380.SR 6012.SR Yahoo ticker GOOG MO AMZN AMCR AEE AAL AEP AXP AIG AMT AWK AMP	SASE SASE SASE SASE SASE SASE SASE SASE	8200.SR 4210.SR 1320.SR 7010.SR 2360.SR 2270.SR 2050.SR 4344.SR Yahoo ticker BSX BMY AVGO BR CHRW COG CDNS CZR CPB COF CAH KMX
SASE SASE SASE SASE SASE SASE SASE SASE	8240.SR 3003.SR 8010.SR 4004.SR 4300.SR 9501.SR 4013.SR 4010.SR Yahoo ticker 1810.SR 3050.SR 9511.SR 6040.SR 3090.SR 4090.SR 1201.SR 4070.SR 4170.SR 3005.SR 8190.SR	SASE SASE SASE SASE SASE SASE SASE SASE	2220.SR 2002.SR 4030.SR 3004.SR 3004.SR 2380.SR 6012.SR Yahoo ticker GOOG MO AMZN AMCR AEE AAL AEP AXP AIG AMT AWK AMP ABC	SASE SASE SASE SASE SASE SASE SASE SASE	8200.SR 4210.SR 1320.SR 7010.SR 2360.SR 2270.SR 2050.SR 4344.SR Yahoo ticker BSX BMY AVGO BR CHRW COG CDNS CZR CPB COF CAH KMX CCL
SASE SASE SASE SASE SASE SASE SASE SASE	8240.SR 3003.SR 8010.SR 4004.SR 4300.SR 9501.SR 4013.SR 4010.SR Yahoo ticker 1810.SR 3050.SR 9511.SR 6040.SR 3090.SR 4090.SR 1201.SR 4070.SR 4170.SR 4170.SR 3005.SR 8190.SR 8190.SR	SASE SASE SASE SASE SASE SASE SASE SASE	2220.SR 2002.SR 4030.SR 3004.SR 3004.SR 2380.SR 6012.SR Yahoo ticker GOOG MO AMZN AMCR AEE AAL AEP AXP AIG AMT AWK AMP ABC AME	SASE SASE SASE SASE SASE SASE SASE SASE	8200.SR 4210.SR 1320.SR 7010.SR 2360.SR 2270.SR 2050.SR 4344.SR Yahoo ticker BSX BMY AVGO BR CHRW COG CDNS CZR CPB COF CAH KMX
SASE SASE SASE SASE SASE SASE SASE SASE	8240.SR 3003.SR 8010.SR 4004.SR 4300.SR 9501.SR 4013.SR 4010.SR Yahoo ticker 1810.SR 3050.SR 9511.SR 6040.SR 3090.SR 4090.SR 1201.SR 4070.SR 4170.SR 3005.SR 8190.SR	SASE SASE SASE SASE SASE SASE SASE SASE	2220.SR 2002.SR 4030.SR 3004.SR 3004.SR 2380.SR 6012.SR Yahoo ticker GOOG MO AMZN AMCR AEE AAL AEP AXP AIG AMT AWK AMP ABC	SASE SASE SASE SASE SASE SASE SASE SASE	8200.SR 4210.SR 1320.SR 7010.SR 2360.SR 2270.SR 2050.SR 4344.SR Yahoo ticker BSX BMY AVGO BR CHRW COG CDNS CZR CPB COF CAH KMX CCL
SASE SASE SASE SASE SASE SASE SASE SASE	8240.SR 3003.SR 8010.SR 4004.SR 4300.SR 9501.SR 4013.SR 4010.SR Yahoo ticker 1810.SR 3050.SR 9511.SR 6040.SR 3090.SR 4090.SR 1201.SR 4070.SR 4170.SR 4170.SR 3005.SR 8190.SR 8190.SR	SASE SASE SASE SASE SASE SASE SASE SASE	2220.SR 2002.SR 4030.SR 3004.SR 3004.SR 2380.SR 6012.SR Yahoo ticker GOOG MO AMZN AMCR AEE AAL AEP AXP AIG AMT AWK AMP ABC AME	SASE SASE SASE SASE SASE SASE SASE SASE	8200.SR 4210.SR 1320.SR 7010.SR 2360.SR 2270.SR 2050.SR 4344.SR Yahoo ticker BSX BMY AVGO BR CHRW COG CDNS CZR CPB COF CAH KMX
SASE SASE SASE SASE SASE SASE SASE SASE	8240.SR 3003.SR 8010.SR 4004.SR 4300.SR 9501.SR 4013.SR 4010.SR Yahoo ticker 1810.SR 3050.SR 9511.SR 6040.SR 3090.SR 4090.SR 4070.SR 4070.SR 4170.SR 3005.SR 8190.SR 4003.SR 4260.SR	SASE SASE SASE SASE SASE SASE SASE SASE	2220.SR 2002.SR 4030.SR 3004.SR 3040.SR 2380.SR 6012.SR Yahoo ticker GOOG MO AMZN AMCR AEE AAL AEP AXP AIG AMT AWK AMP ABC AME AMC AME AMC AME AMC AME AMC AMC AMC AMT AWK AMP ABC AMT AWK AMP ABC AME AMG AMC AME AMG AMC	SASE SASE SASE SASE SASE SASE SASE SASE	8200.SR 4210.SR 1320.SR 7010.SR 2360.SR 2270.SR 2050.SR 4344.SR Yahoo ticker BSX BMY AVGO BR CHRW COG CDNS CZR CPB COF CAH KMX CCL CARR CTLT CAT
SASE SASE SASE SASE SASE SASE SASE SASE	8240.SR 3003.SR 8010.SR 4004.SR 4300.SR 9501.SR 4013.SR 4010.SR Yahoo ticker 1810.SR 3050.SR 9511.SR 6040.SR 3090.SR 4090.SR 1201.SR 4070.SR 4170.SR 4170.SR 3005.SR 8190.SR 4260.SR 1301.SR	SASE SASE SASE SASE SASE SASE SASE SASE	2220.SR 2002.SR 4030.SR 3004.SR 3004.SR 3040.SR 2380.SR 6012.SR Yahoo ticker GOOG MO AMZN AMCR AEE AAL AEP AXP AIG AMT AWK AMP ABC AME AME AME AME AMG AME AME AMG APH ADI	SASE SASE SASE SASE SASE SASE SASE SASE	8200.SR 4210.SR 1320.SR 7010.SR 2360.SR 2270.SR 2050.SR 4344.SR Yahoo ticker BSX BMY AVGO BR CHRW COG CDNS CZR CPB COF CAH KMX CCL CARR CTLT CAT CBOE
SASE SASE SASE SASE SASE SASE SASE SASE	8240.SR 3003.SR 8010.SR 4004.SR 4300.SR 9501.SR 4013.SR 4010.SR 7ahoo ticker 1810.SR 3050.SR 9511.SR 6040.SR 3090.SR 4090.SR 1201.SR 4070.SR 4170.SR 3005.SR 8190.SR 4170.SR 3005.SR 8190.SR 403.SR 403.SR 403.SR 403.SR	SASE SASE SASE SASE SASE SASE SASE SASE	2220.SR 2002.SR 4030.SR 3004.SR 3004.SR 3040.SR 2380.SR 6012.SR Yahoo ticker GOOG MO AMZN AMCR AEE AAL AEP AXP AIG AMT AWK AMP ABC AME AMGN APH ADI ANSS	SASE SASE SASE SASE SASE SASE SASE SASE	8200.SR 4210.SR 1320.SR 1320.SR 7010.SR 2360.SR 2270.SR 2050.SR 4344.SR Yahoo ticker BSX BMY AVGO BR CHRW COG CDNS CZR CPB COF CAH KMX CCL CARR CTLT CAT CBOE CBRE
SASE SASE SASE SASE SASE SASE SASE SASE	8240.SR 3003.SR 8010.SR 4004.SR 4300.SR 9501.SR 4013.SR 4010.SR Yahoo ticker 1810.SR 3050.SR 9511.SR 6040.SR 3090.SR 4090.SR 1201.SR 4012.SR 4070.SR 4170.SR 3005.SR 8190.SR 4170.SR 3005.SR 8190.SR 403.SR 4260.SR 1301.SR 8060.SR	SASE SASE SASE SASE SASE SASE SASE SASE	2220.SR 2002.SR 4030.SR 4030.SR 3004.SR 3040.SR 2380.SR 6012.SR Yahoo ticker GOOG MO AMZN AMCR AEE AAL AEP AXP AIG AMT AWK AMP ABC AME AMGN APH ADI ANSS ANTM	SASE SASE SASE SASE SASE SASE SASE SASE	8200.SR 4210.SR 1320.SR 7010.SR 2360.SR 2270.SR 2050.SR 4344.SR Yahoo ticker BSX BMY AVGO BR CHRW COG CDNS CZR CPB COF CAH KMX CCL CARR CTLT CAT CBOE CBRE CDW
SASE SASE SASE SASE SASE SASE SASE SASE	8240.SR 3003.SR 8010.SR 4004.SR 4300.SR 9501.SR 4013.SR 4010.SR Yahoo ticker 1810.SR 3050.SR 9511.SR 6040.SR 3090.SR 4090.SR 1201.SR 4070.SR 4170.SR 3005.SR 8190.SR 4070.SR 4170.SR 3005.SR 8190.SR 4003.SR 4260.SR 1301.SR 8060.SR 9513.SR 8300.SR	SASE SASE SASE SASE SASE SASE SASE SASE	2220.SR 2002.SR 4030.SR 4030.SR 3004.SR 3040.SR 2380.SR 6012.SR Yahoo ticker GOOG MO AMZN AMCR AEE AAL AEP AXP AIG AMT AWK AMP ABC AME AMGN APH ADI ANSS ANTM AON	SASE SASE SASE SASE SASE SASE SASE SASE	8200.SR 4210.SR 1320.SR 7010.SR 2360.SR 2270.SR 2050.SR 4344.SR Yahoo ticker BSX BMY AVGO BR CHRW COG CDNS CZR CPB COF CAH KMX CCL CARR CTLT CAT CBOE CBRE CDW CE
SASE SASE SASE SASE SASE SASE SASE SASE	8240.SR 3003.SR 8010.SR 4004.SR 4300.SR 9501.SR 4013.SR 4010.SR Yahoo ticker 1810.SR 3050.SR 9511.SR 6040.SR 3090.SR 4090.SR 4070.SR 4070.SR 4170.SR 3005.SR 8190.SR 4070.SR 4170.SR 3005.SR 8190.SR 4070.SR 4170.SR 3005.SR 8190.SR 4003.SR 4260.SR 1301.SR 8060.SR 9513.SR 8300.SR 8300.SR	SASE SASE SASE SASE SASE SASE SASE SASE	2220.SR 2002.SR 4030.SR 3004.SR 3040.SR 2380.SR 6012.SR Yahoo ticker GOOG MO AMZN AMCR AEE AAL AEP AXP AIG AMT AWK AMP ABC AME AMG APH ADI ANSS ANTM AON APA	SASE SASE SASE SASE SASE SASE SASE SASE	8200.SR 4210.SR 1320.SR 7010.SR 2360.SR 2270.SR 2050.SR 4344.SR Yahoo ticker BSX BMY AVGO BR CHRW COG CDNS CZR CPB COF CAH KMX CCL CARR CTLT CAT CBOE CBRE CDW CE CNC
SASE SASE SASE SASE SASE SASE SASE SASE	8240.SR 3003.SR 8010.SR 4004.SR 4300.SR 9501.SR 4013.SR 4010.SR Yahoo ticker 1810.SR 3050.SR 9511.SR 6040.SR 3090.SR 4090.SR 1201.SR 4070.SR 4170.SR 3005.SR 8190.SR 4070.SR 4170.SR 3005.SR 8190.SR 4003.SR 4260.SR 1301.SR 8060.SR 9513.SR 8300.SR	SASE SASE SASE SASE SASE SASE SASE SASE	2220.SR 2002.SR 4030.SR 4030.SR 3004.SR 3040.SR 2380.SR 6012.SR Yahoo ticker GOOG MO AMZN AMCR AEE AAL AEP AXP AIG AMT AWK AMP ABC AME AMGN APH ADI ANSS ANTM AON	SASE SASE SASE SASE SASE SASE SASE SASE	8200.SR 4210.SR 1320.SR 7010.SR 2360.SR 2270.SR 2050.SR 4344.SR Yahoo ticker BSX BMY AVGO BR CHRW COG CDNS CZR CPB COF CAH KMX CCL CARR CTLT CAT CBOE CBRE CDW CE
SASE SASE SASE SASE SASE SASE SASE SASE	8240.SR 3003.SR 8010.SR 4004.SR 4300.SR 9501.SR 4013.SR 4010.SR Yahoo ticker 1810.SR 3050.SR 9511.SR 6040.SR 3090.SR 4090.SR 4070.SR 4070.SR 4170.SR 3005.SR 8190.SR 4070.SR 4170.SR 3005.SR 8190.SR 4070.SR 4170.SR 3005.SR 8190.SR 4003.SR 4260.SR 1301.SR 8060.SR 9513.SR 8300.SR 8300.SR	SASE SASE SASE SASE SASE SASE SASE SASE	2220.SR 2002.SR 4030.SR 3004.SR 3040.SR 2380.SR 6012.SR Yahoo ticker GOOG MO AMZN AMCR AEE AAL AEP AXP AIG AMT AWK AMP ABC AME AMG APH ADI ANSS ANTM AON APA	SASE SASE SASE SASE SASE SASE SASE SASE	8200.SR 4210.SR 1320.SR 7010.SR 2360.SR 2270.SR 2050.SR 4344.SR Yahoo ticker BSX BMY AVGO BR CHRW COG CDNS CZR CPB COF CAH KMX CCL CARR CTLT CAT CBOE CBRE CDW CE CNC
SASE SASE SASE SASE SASE SASE SASE SASE	8240.SR 3003.SR 8010.SR 4004.SR 4300.SR 9501.SR 4013.SR 4010.SR Yahoo ticker 1810.SR 3050.SR 9511.SR 6040.SR 3090.SR 4090.SR 1201.SR 4070.SR 4170.SR 3005.SR 8190.SR 4170.SR 3005.SR 8190.SR 4003.SR 4260.SR 1301.SR 8300.SR 9513.SR 8300.SR 9513.SR 8300.SR	SASE SASE SASE SASE SASE SASE SASE SASE	2220.SR 2002.SR 4030.SR 3004.SR 3004.SR 3040.SR 2380.SR 6012.SR Yahoo ticker GOOG MO AMZN AMCR AEE AAL AEP AXP AIG AMT AWK AMP ABC AME AME AMGN APH ADI ANSS ANTM AON APA AAPL	SASE SASE SASE SASE SASE SASE SASE SASE	8200.SR 4210.SR 1320.SR 7010.SR 2360.SR 2270.SR 2050.SR 4344.SR Yahoo ticker BSX BMY AVGO BR CHRW COG CDNS CZR CPB COF CAH KMX CCL CARR CTLT CAT CBOE CBRE CDW CE CNC

S&P500	AOS	S&P500	ANET	S&P500	CRL
S&P500	ABT	S&P500	AJG	S&P500	SCHW
S&P500	ABBV	S&P500	AIZ	S&P500	CHTR
S&P500	ABMD	S&P500	T	S&P500	CVX
S&P500	ACN	S&P500	ATO	S&P500	CMG
S&P500	ATVI	S&P500	ADSK	S&P500	СВ
S&P500	ADM	S&P500	ADP	S&P500	CHD
S&P500	ADBE	S&P500	AZO	S&P500	CI
S&P500	AAP	S&P500	AVB	S&P500	CINF
S&P500	AMD	S&P500	AVY	S&P500	CTAS
S&P500	AES	S&P500	BKR	S&P500	CSCO
S&P500	AFL	S&P500	BLL	S&P500	C
S&P500	A	S&P500	BAC	S&P500	CFG
S&P500	APD	S&P500	BAX	S&P500	CTXS
S&P500	AKAM	S&P500	BDX	S&P500	CLX
S&P500	ALK	S&P500	BBY	S&P500	CME
S&P500	ALB	S&P500	BIO	S&P500	CMS
S&P500	ARE	S&P500	BIIB	S&P500	КО
	ALXN	S&P500	BLK	S&P500	CTSH
S&P500					
S&P500	ALGN	S&P500	BK	S&P500	CL
S&P500	ALLE	S&P500	BA	S&P500	CMCSA
S&P500	LNT	S&P500	BKNG	S&P500	CMA
S&P500	ALL	S&P500	BWA	S&P500	CAG
S&P500	GOOGL	S&P500	BXP	S&P500	COP
·					
Market/Index	Yahoo ticker	Market/Index	Yahoo ticker	Market/Index	Yahoo ticker
S&P500	ED	S&P500	EFX	S&P500	НВІ
S&P500	STZ	S&P500	EQIX	S&P500	HAS
S&P500	CPRT	S&P500	EQR	S&P500	HCA
S&P500	GLW	S&P500	ESS	S&P500	PEAK
S&P500	CTVA	S&P500	EL	S&P500	HSIC
S&P500	COST	S&P500	ETSY	S&P500	HES
S&P500	CCI	S&P500	RE	S&P500	HPE
S&P500	CSX	S&P500	EVRG	S&P500	HLT
S&P500	CMI	S&P500	ES	S&P500	HOLX
S&P500	CVS	S&P500	EXC	S&P500	HD
S&P500	DHI	S&P500	EXPE	S&P500	HON
S&P500	DHR	S&P500	EXPD	S&P500	HRL
S&P500	DRI	S&P500	EXR	S&P500	HST
S&P500	DVA	S&P500	XOM	S&P500	HWM
S&P500	DE	S&P500	FFIV	S&P500	HPQ
	DAL		FB		
S&P500		S&P500		S&P500	HUM
S&P500	XRAY	S&P500	FAST	S&P500	HBAN
S&P500	DVN	S&P500	FRT	S&P500	HII
S&P500	DXCM	S&P500	FDX	S&P500	IBM
S&P500	FANG	S&P500	FIS	S&P500	IEX
S&P500	DLR	S&P500	FITB	S&P500	IDXX
S&P500	DFS	S&P500	FRC	S&P500	INFO
S&P500	DISCA	S&P500	FE	S&P500	ITW
S&P500	DISCK	S&P500	FISV	S&P500	ILMN
S&P500	DISH	S&P500	FLT	S&P500	INCY
S&P500	DG	S&P500	FMC	S&P500	IR
S&P500	DLTR	S&P500	F	S&P500	INTC
S&P500	D	S&P500	FTNT	S&P500	ICE
S&P500	DPZ	S&P500	FTV	S&P500	IFF
S&P500	DOV	S&P500	FBHS	S&P500	IP
S&P500	DOW	S&P500	FOXA	S&P500	IPG
S&P500	DTE	S&P500	FOX	S&P500	INTU
S&P500	DUK	S&P500	BEN	S&P500	ISRG
S&P500	DRE	S&P500	FCX	S&P500	IVZ
	DD		GPS		
S&P500		S&P500		S&P500	IPGP
S&P500	DXC	S&P500	GRMN	S&P500	IQV
S&P500	EMN	S&P500	IT	S&P500	IRM
S&P500	ETN	S&P500	GNRC	S&P500	JBHT
S&P500	EBAY	S&P500	GD	S&P500	JKHY
S&P500	ECL	S&P500	GE	S&P500	Í
S&P500	EIX	S&P500	GIS	S&P500	SJM
	EW		GM		
S&P500		S&P500		S&P500	JNJ
S&P500	EA	S&P500	GPC	S&P500	JCI
S&P500	LLY	S&P500	GILD	S&P500	JPM
S&P500	EMR	S&P500	GPN	S&P500	JNPR
S&P500	ENPH	S&P500	GL	S&P500	KSU
S&P500	ETR	S&P500	GS	S&P500	K
S&P500		S&P500	HAL	S&P500	KEY
-	EOG				
	EOG Vahaa tiskan		Val +: -1	Ma-1 /1 1	
Market/Index	Yahoo ticker	Market/Index	Yahoo ticker	Market/Index	Yahoo ticker
S&P500	Yahoo ticker KEYS	Market/Index S&P500	TAP	S&P500	PKI
S&P500 S&P500	Yahoo ticker KEYS KMB	Market/Index S&P500 S&P500	TAP MDLZ	S&P500 S&P500	PKI PRGO
S&P500	Yahoo ticker KEYS	Market/Index S&P500	TAP	S&P500	PKI
S&P500 S&P500	Yahoo ticker KEYS KMB	Market/Index S&P500 S&P500	TAP MDLZ	S&P500 S&P500	PKI PRGO
S&P500 S&P500 S&P500 S&P500	Yahoo ticker KEYS KMB KIM KMI	Market/Index	TAP MDLZ MPWR MNST	S&P500 S&P500 S&P500 S&P500	PKI PRGO PFE PM
S&P500 S&P500 S&P500 S&P500 S&P500	Yahoo ticker KEYS KMB KIM KMI KMI	Market/Index S&P500 S&P500 S&P500 S&P500 S&P500 S&P500	TAP MDLZ MPWR MNST MCO	S&P500 S&P500 S&P500 S&P500 S&P500	PKI PRGO PFE PM PSX
S&P500 S&P500 S&P500 S&P500 S&P500 S&P500	Yahoo ticker KEYS KMB KIM KMI KMI KLAC KHC	Market/Index \$\frac{8\text{P}500}{\$\frac{8\text{P}500}{\$\frac{9}{5}00}} \$\frac{8\text{P}500}{\$\frac{8\text{P}500}{\$\frac{8}{5}00}} \$\frac{8\text{P}500}{\$\frac{8\text{P}500}{\$\frac{8}{5}\text{P}500}}	TAP MDLZ MPWR MNST MCO MS	S&P500 S&P500 S&P500 S&P500 S&P500 S&P500	PKI PRGO PFE PM PSX PNW
S&P500 S&P500 S&P500 S&P500 S&P500 S&P500 S&P500 S&P500	Yahoo ticker KEYS KMB KIM KMI KMI KLAC KHC	Market/Index \$\frac{8\text{P}500}{\$\frac{8\text{P}500}{\$\frac{9}{5}00}} \$\frac{8\text{P}500}{\$\frac{9}{5}00} \$\frac{8\text{P}500}{\$\frac{9}{5}\text{P}500} \$\frac{8\text{P}500}{\$\frac{9}{5}\text{P}500} \$\frac{8\text{P}500}{\$\frac{9}{5}\text{P}500}	TAP MDLZ MPWR MNST MCO MS MSI	\$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500	PKI PRGO PFE PM PSX PNW PXD
S&P500 S&P500 S&P500 S&P500 S&P500 S&P500 S&P500 S&P500 S&P500	Yahoo ticker KEYS KMB KIM KMI KLAC KHC KR LB	Market/Index \$\text{S&P500} \\ \$\text{S}S	TAP MDLZ MPWR MNST MCO MS MSI MSI	S&P500 S&P500 S&P500 S&P500 S&P500 S&P500 S&P500 S&P500 S&P500	PKI PRGO PFE PM PSX PNW PXD PNC
S&P500 S&P500 S&P500 S&P500 S&P500 S&P500 S&P500 S&P500 S&P500 S&P500	Yahoo ticker KEYS KMB KIM KMI KKAC KHC KR LB	Market/Index \$&P500	TAP MDLZ MPWR MNST MCO MS MSI MSCI NDAQ	\$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500	PKI PRGO PFE PM PSX PNW PXD PNC
S&P500 S&P500 S&P500 S&P500 S&P500 S&P500 S&P500 S&P500 S&P500	Yahoo ticker KEYS KMB KIM KMI KKAC KHC KR LB LHX	Market/Index \$\text{S&P500} \\ \$\text{S}S	TAP MDLZ MPWR MNST MCO MS MSI MSI	S&P500 S&P500 S&P500 S&P500 S&P500 S&P500 S&P500 S&P500 S&P500	PKI PRGO PFE PM PSX PNW PXD PNC
S&P500 S&P500 S&P500 S&P500 S&P500 S&P500 S&P500 S&P500 S&P500 S&P500	Yahoo ticker KEYS KMB KIM KMI KKAC KHC KR LB	Market/Index \$&P500	TAP MDLZ MPWR MNST MCO MS MSI MSCI NDAQ	\$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500	PKI PRGO PFE PM PSX PNW PXD PNC
S&P500 S&P500 S&P500 S&P500 S&P500 S&P500 S&P500 S&P500 S&P500 S&P500 S&P500	Yahoo ticker KEYS KMB KIM KMI KKAC KHC KR LB LHX	Market/Index \$\text{S&P500} \\ \$\times \text{P500} \\ \$\times \text	TAP MDLZ MPWR MNST MCO MS MSI MSCI NDAQ NTAP	S&P500 S&P500 S&P500 S&P500 S&P500 S&P500 S&P500 S&P500 S&P500 S&P500 S&P500	PKI PRGO PFE PM PSX PNW PXD PNC POOL PPG

S&P500	LVS	S&P500	NEM	S&P500	PG
			NWSA		PGR
S&P500	LEG	S&P500		S&P500	
S&P500	LDOS	S&P500	NWS	S&P500	PLD
S&P500	LEN	S&P500	NEE	S&P500	PRU
S&P500	LNC	S&P500	NLSN	S&P500	PTC
S&P500	LIN	S&P500	NKE	S&P500	PEG
S&P500	LYV	S&P500	NI	S&P500	PSA
S&P500	LKQ	S&P500	NSC	S&P500	PHM
S&P500	LMT	S&P500	NTRS	S&P500	PVH
S&P500	L	S&P500	NOC	S&P500	QRVO
S&P500	LOW	S&P500	NLOK	S&P500	QCOM
	LUMN		NCLH	S&P500	PWR
S&P500		S&P500			
S&P500	LYB	S&P500	NOV	S&P500	DGX
S&P500	MTB	S&P500	NRG	S&P500	RL
S&P500	MRO	S&P500	NUE	S&P500	RJF
S&P500	MPC	S&P500	NVDA	S&P500	RTX
S&P500	MKTX	S&P500	NVR	S&P500	0
S&P500	MAR	S&P500	NXPI	S&P500	REG
S&P500	MMC	S&P500	ORLY	S&P500	REGN
S&P500	MLM	S&P500	OXY	S&P500	RF
S&P500	MAS	S&P500	ODFL	S&P500	RSG
S&P500	MA	S&P500	OMC	S&P500	RMD
S&P500	MXIM	S&P500	OKE	S&P500	RHI
	MKC	S&P500	ORCL	S&P500	ROK
S&P500					
S&P500	MCD	S&P500	OGN	S&P500	ROL
S&P500	MCK	S&P500	OTIS	S&P500	ROP
S&P500	MDT	S&P500	PCAR	S&P500	ROST
S&P500	MRK	S&P500	PKG	S&P500	RCL
S&P500	MET	S&P500	PH	S&P500	SPGI
S&P500	MTD	S&P500	PAYX	S&P500	CRM
S&P500	MGM	S&P500	PAYC	S&P500	SBAC
S&P500	MCHP	S&P500	PYPL	S&P500	SLB
S&P500	MU	S&P500	PENN	S&P500	STX
S&P500	MSFT	S&P500	PNR	S&P500	SEE
S&P500	MAA	S&P500	PBCT	S&P500	SRE
S&P500	MHK	S&P500	PEP	S&P500	NOW
Market/Index	Yahoo ticker	Market/Index	Yahoo ticker	Market/Index	Yahoo ticker
S&P500	SHW	S&P500	UNP	S&P ASX	AGL.AX
S&P500	SPG	S&P500	UAL	S&P ASX	AIA.AX
S&P500	SWKS	S&P500	UPS	S&P ASX	ALD.AX
S&P500	SNA	S&P500	URI	S&P ASX	ALL.AX
S&P500	SO	S&P500	UNH	S&P ASX	ALO.AX
S&P500 S&P500	SO LUV	S&P500 S&P500	UNH UHS	S&P ASX S&P ASX	ALQ.AX ALU.AX
S&P500	LUV	S&P500	UHS	S&P ASX	ALU.AX
S&P500 S&P500	LUV SWK	S&P500 S&P500	UHS UNM	S&P ASX S&P ASX	ALU.AX ALX.AX
S&P500 S&P500 S&P500	LUV SWK SBUX	S&P500 S&P500 S&P500	UHS UNM VLO	S&P ASX S&P ASX S&P ASX	ALU.AX ALX.AX AMC.AX
S&P500 S&P500 S&P500 S&P500	LUV SWK SBUX STT	S&P500 S&P500 S&P500 S&P500	UHS UNM VLO VTR	S&P ASX S&P ASX S&P ASX S&P ASX	ALU.AX ALX.AX AMC.AX AMP.AX
S&P500 S&P500 S&P500 S&P500 S&P500	LUV SWK SBUX STT STE	S&P500 S&P500 S&P500 S&P500 S&P500	UHS UNM VLO VTR VRSN	S&P ASX S&P ASX S&P ASX S&P ASX S&P ASX	ALU.AX ALX.AX AMC.AX AMP.AX ANN.AX
S&P500 S&P500 S&P500 S&P500 S&P500 S&P500	LUV SWK SBUX STT STE SYK	S&P500 S&P500 S&P500 S&P500 S&P500 S&P500	UHS UNM VLO VTR VRSN VRSK	S&P ASX S&P ASX S&P ASX S&P ASX S&P ASX S&P ASX	ALÚ.AX ALX.AX AMC.AX AMP.AX ANN.AX ANZ.AX
S&P500 S&P500 S&P500 S&P500 S&P500 S&P500 S&P500	LUV SWK SBUX STT STE SYK SIVB	\$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500	UHS UNM VLO VTR VRSN VRSK VZ	S&P ASX S&P ASX S&P ASX S&P ASX S&P ASX S&P ASX S&P ASX	ALU.AX ALX.AX AMC.AX AMP.AX ANN.AX ANZ.AX APA.AX
S&P500 S&P500 S&P500 S&P500 S&P500 S&P500 S&P500 S&P500	LUV SWK SBUX STT STE SYK SIVB SYF	\$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500	UHS UNM VLO VTR VRSN VRSK VZ VRTX	S&P ASX	ALU.AX ALX.AX AMC.AX AMP.AX ANN.AX ANZ.AX APA.AX APE.AX
S&P500 S&P500 S&P500 S&P500 S&P500 S&P500 S&P500 S&P500 S&P500 S&P500	LUV SWK SBUX STT STE SYK SIVB SYF SNPS	\$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500	UHS UNM VLO VTR VRSN VRSK VZ VRTX VFC	S&P ASX S&P ASX S&P ASX S&P ASX S&P ASX S&P ASX S&P ASX S&P ASX S&P ASX	ALU.AX ALX.AX AMC.AX AMP.AX ANN.AX ANZ.AX APA.AX APA.AX APE.AX APT.AX
S&P500 S&P500 S&P500 S&P500 S&P500 S&P500 S&P500 S&P500 S&P500 S&P500	LUV SWK SBUX STT STE SYK SIVB SYF SNPS SYY	\$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500	UHS UNM VLO VTR VRSN VRSK VZ VRTX VFC	S&P ASX S&P ASX S&P ASX S&P ASX S&P ASX S&P ASX S&P ASX S&P ASX S&P ASX S&P ASX	ALÚ.AX ALX.AX AMC.AX AMP.AX ANN.AX ANZ.AX APA.AX APA.AX APT.AX APT.AX
\$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500	LUV SWK SBUX STT STE SYK SIVB SYF SNPS SYY TMUS	\$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500	UHS UNM VLO VTR VRSN VRSK VZ VRTX VFC VIAC	S&P ASX S&P ASX	ALÚ.AX ALX.AX AMC.AX AMP.AX ANN.AX ANZ.AX APA.AX APE.AX APT.AX APX.AX APX.AX
S&P500 S&P500 S&P500 S&P500 S&P500 S&P500 S&P500 S&P500 S&P500 S&P500	LUV SWK SBUX STT STE SYK SIVB SYF SNPS SYY TMUS TROW	\$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500	UHS UNM VLO VTR VRSN VRSK VZ VRTX VFC VIAC VTRS	S&P ASX S&P ASX S&P ASX S&P ASX S&P ASX S&P ASX S&P ASX S&P ASX S&P ASX S&P ASX	ALÚ.AX ALX.AX AMC.AX AMP.AX ANN.AX ANZ.AX APA.AX APA.AX APT.AX APT.AX
\$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500	LUV SWK SBUX STT STE SYK SIVB SYF SNPS SYY TMUS TROW TTWO	\$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500	UHS UNM VLO VTR VRSN VRSK VZ VRTX VFC VIAC VTRS V VNO	S&P ASX	ALU.AX ALX.AX AMC.AX AMP.AX ANN.AX ANZ.AX APZ.AX APA.AX APZ.AX APZ.AX APX.AX ARB.AX ARB.AX ASX.AX
\$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500	LUV SWK SBUX STT STE SYK SIVB SYF SNPS SYY TMUS TROW	\$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500	UHS UNM VLO VTR VRSN VRSK VZ VRTX VFC VIAC VTRS	S&P ASX S&P ASX	ALU.AX ALX.AX AMC.AX AMP.AX ANN.AX ANZ.AX APZ.AX APA.AX APT.AX APX.AX ARB.AX ARB.AX AST.AX
\$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500	LUV SWK SBUX STT STE SYK SIVB SYF SNPS SYY TMUS TROW TTWO	\$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500	UHS UNM VLO VTR VRSN VRSK VZ VRTX VFC VIAC VTRS V VNO	S&P ASX	ALU.AX ALX.AX AMC.AX AMP.AX ANN.AX ANZ.AX APZ.AX APA.AX APZ.AX APZ.AX APX.AX ARB.AX ARB.AX ASX.AX
\$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500	LUV SWK SBUX STT STE SYK SIVB SYF SNPS SYY TMUS TROW TTWO TPR TGT TEL	\$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500	UHS UNM VLO VTR VRSN VRSK VZ VRTX VFC VIAC VTRS V VNO	S&P ASX	ALU.AX ALX.AX AMC.AX AMP.AX ANN.AX ANZ.AX APA.AX APA.AX APE.AX APT.AX APX.AX ARB.AX AST.AX ASX.AX AUB.AX
\$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500	LUV SWK SBUX STT STE SYK SIVB SYF SNPS SYY TMUS TROW TTWO TPR TGT	\$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500	UHS UNM VLO VTR VRSN VRSK VZ VRTX VFC VIAC VTRS V VNO VMC WRB	S&P ASX	ALÚ.AX ALX.AX AMC.AX AMP.AX ANN.AX ANZ.AX APA.AX APA.AX APE.AX APT.AX APX.AX ARB.AX AST.AX ASX.AX AUB.AX AWC.AX
\$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500	LUV SWK SBUX STT STE SYK SIVB SYF SNPS SYY TMUS TROW TTWO TPR TGT TEL	\$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500	UHS UNM VLO VTR VRSN VRSK VZ VRTX VFC VIAC VTRS V VNO VMC WRB GWW	S&P ASX	ALU.AX ALX.AX AMC.AX AMP.AX ANN.AX ANZ.AX APA.AX APA.AX APE.AX APT.AX APX.AX ARB.AX AST.AX ASX.AX AUB.AX AWC.AX AZJ.AX
\$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500	LUV SWK SBUX STT STE SYK SIVB SYF SNPS SYY TMUS TROW TTWO TPR TGT TEL TDY	\$\circ{8}\chi \color{9}	UHS UNM VLO VTR VRSN VRSK VZ VRTX VFC VIAC VTRS V VNO VMC WRB GWW WAB	S&P ASX	ALU.AX ALX.AX AMC.AX AMP.AX ANN.AX ANZ.AX APA.AX APA.AX APA.AX APT.AX APX.AX ARB.AX AST.AX ASX.AX AWC.AX AZJ.AX BAP.AX
\$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500 \$&P500	LUV SWK SBUX STT STE SYK SIVB SYF SNPS SYY TMUS TROW TTWO TPR TGT TEL TDY TFX	\$\circ{8}\circ{9}\circ	UHS UNM VLO VTR VRSN VRSK VZ VRTX VFC VIAC VTRS V VNO VMC WRB GWW WAB	S&P ASX	ALU.AX ALX.AX AMC.AX AMP.AX ANN.AX ANN.AX AP.AX APA.AX APA.AX APT.AX APX.AX ARB.AX AST.AX ASX.AX AUB.AX AWC.AX AZJ.AX BAP.AX BAP.AX
\$\text{S&P500}\$	LUV SWK SBUX STT STE SYK SIVB SYF SNPS SYY TMUS TROW TTWO TPR TGT TEL TDY TFX TER TSLA	\$&P500	UHS UNM VLO VTR VRSN VRSK VZ VRTX VFC VIAC VTRS V VNO VMC WRB GWW WAB WBA WMT	S&P ASX	ALU.AX ALX.AX AMC.AX AMP.AX ANN.AX ANN.AX APA.AX APA.AX APE.AX APT.AX APX.AX ARB.AX AST.AX AST.AX ASX.AX AUB.AX AWC.AX AZJ.AX BAP.AX BEN.AX BEN.AX
\$\text{S&P500}\$	LUV SWK SBUX STT STE SYK SIVB SYF SNPS SYY TMUS TROW TTWO TPR TGT TEL TDY TFX TER TSLA TXN	\$\circ{8}\circ{9}\circ{9}\circ{0}{8}\circ{9}\circ{9}\circ{0}{8}\circ{9}\circ{9}\circ{0}{8}\circ{9}\circ{9}\circ{0}{8}\circ{9}\circ{9}\circ{0}{8}\circ{9}\circ{9}\circ{0}{8}\circ{9}\circ{9}\circ{0}{8}\circ{9}\circ{9}\circ{0}{8}\circ{9}\circ{9}\circ{0}{8}\circ{9}\circ{9}\circ{0}{8}\circ{9}\circ{9}\circ{0}{8}\circ{9}\circ{9}\circ{0}{8}\circ{9}\circ{9}\circ{0}{8}\circ{9}\circ{9}\circ{0}{8}\circ{9}\circ{9}\circ{0}{8}\circ{9}\circ{9}\circ{0}{8}\circ{0}{8	UHS UNM VLO VTR VRSN VRSK VZ VRTX VFC VIAC VTRS V WNO VMC WRB GWW WAB WBA WMT WM	S&P ASX	ALU.AX ALX.AX AMC.AX AMC.AX AMP.AX ANN.AX ANZ.AX APA.AX APA.AX APT.AX APT.AX APX.AX AST.AX AST.AX ASX.AX AUB.AX AWC.AX AZJ.AX BAP.AX BEN.AX BGA.AX BHP.AX BKL.AX
\$\text{S&P500}\$	LUV SWK SBUX STT STE SYK SIVB SYF SNPS SYY TMUS TROW TTWO TPR TGT TEL TDY TFX TER TSLA TXN TXT	\$\circ{8}\chi \color{9}	UHS UNM VLO VTR VRSN VRSK VZ VRTX VFC VIAC VTRS V WNO VMC WRB GWW WAB WBA WMT WM WAT	S&P ASX	ALÚ.AX ALX.AX AMC.AX AMC.AX AMP.AX ANN.AX ANZ.AX APA.AX AST.AX AST.AX AST.AX AST.AX AST.AX BAP.AX BAP.AX BAP.AX BEN.AX BHP.AX BKL.AX BKW.AX
\$\text{S&P500}\$	LUV SWK SBUX STT STE SYK SIVB SYF SNPS SYY TMUS TROW TTWO TPR TGT TEL TDY TFX TER TSLA TXN TXT COO	\$\circ{8}\chi \colon \cdots \c	UHS UNM VLO VTR VRSN VRSK VZ VRTX VFC VIAC VTRS V VNO VMC WRB GWW WAB WBA WMT WMT WMT WAT WEC WFC	S&P ASX	ALÚ.AX ALX.AX AMC.AX AMC.AX AMP.AX ANN.AX ANZ.AX APA.AX APA.AX APT.AX APX.AX AST.AX AST.AX AST.AX AST.AX AST.AX BAP.AX BAP.AX BEN.AX
\$\text{S&P500}\$	LUV SWK SBUX STT STE SYK SIVB SYF SNPS SYY TMUS TROW TTWO TPR TGT TEL TDY TFX TER TSLA TXN TXT COO HIG	\$\circ{8}\chi \colon \cdots \chi \chi \cdots \cdots \chi \cdots \chi \cdots \chi \cdots \chi \chi \cdots \chi \chi \chi \chi \chi \chi \chi \chi	UHS UNM VLO VTR VRSN VRSK VZ VRTX VFC VIAC VTRS V VNO VMC WRB GWW WAB WMT WM WAT WEC WFC WELL	S&P ASX	ALU.AX ALY.AX ALX.AX AMC.AX AMP.AX ANN.AX ANZ.AX APA.AX APA.AX APA.AX APT.AX APT.AX APX.AX ARB.AX AST.AX AST.AX AWC.AX AZJ.AX BAPA.X BEN.AX BEN.AX BEN.AX BUB.AX
\$\text{S&P500}\$	LUV SWK SBUX STT STE SYK SIVB SYF SNPS SYY TMUS TROW TTWO TPR TGT TEL TDY TFX TER TSLA TXN TXT COO HIG HSY	\$\circ{8}\chi \colon \cdots \chi \chi \cdots \cdots \chi \cdots \chi \cdots \chi \cdots \chi \chi \cdots \chi \chi \chi \chi \chi \chi \chi \chi	UHS UNM VLO VTR VRSN VRSK VZ VRTX VFC VIAC VTRS V VNO VMC WRB GWW WAB WBA WMT WMT WM WAT WEC WFC WELL WST	S&P ASX	ALÚ.AX ALX.AX AMC.AX AMP.AX ANN.AX ANN.AX APA.AX APA.AX APA.AX APT.AX APT.AX APX.AX AST.AX AST.AX AST.AX AST.AX BAPAX BEN.AX BEN.AX BEN.AX BEN.AX BIL.AX BKW.AX BLD.AX BOQ.AX BOQ.AX BPT.AX
\$\text{S&P500}\$	LUV SWK SBUX STT STE SYK SIVB SYF SNPS SYY TMUS TROW TTWO TPR TGT TEL TDY TFX TER TSLA TXN TXT COO HIG HSY MOS	\$\circ{8}\chi \colon \cdots \c	UHS UNM VLO VTR VRSN VRSK VZ VRTX VFC VIAC VTRS V VNO VMC WRB GWW WAB WMA WMT WMA WMT WM WAT WEC WFC WELL WST	S&P ASX	ALU.AX ALX.AX AMC.AX AMC.AX AMP.AX ANN.AX ANZ.AX APA.AX APA.AX APE.AX APT.AX APT.AX AST.AX AST.AX AST.AX AST.AX AST.AX BEN.AX BEN.AX BEN.AX BEN.AX BHP.AX BKL.AX BKW.AX BOQ.AX BPT.AX BOQ.AX BPT.AX BRG.AX
\$\text{S&P500}\$	LUV SWK SBUX STT STE SYK SIVB SYF SNPS SYY TMUS TROW TTWO TPR TGT TEL TDY TFX TER TSLA TXN TXT COO HIG HSY MOS TRV	\$\circ{8}\chi \chi \chi \chi \chi \chi \chi \chi	UHS UNM VLO VTR VRSN VRSK VZ VRTX VFC VIAC VTRS V VNO VMC WRB GWW WAB WBA WMT WMA WMT WM WAT WEC WFC WELL WST WDC WNO UNM WAC WRB WBA WMT WM WAT WEC WFC WELL WST	S&P ASX	ALU.AX ALX.AX AMC.AX AMP.AX ANN.AX ANZ.AX APA.AX APA.AX APE.AX BEN.AX BEN.AX BEN.AX BEN.AX BEN.AX BEN.AX BHP.AX BKL.AX BKW.AX BLD.AX BOQ.AX BPT.AX BRG.AX BRG.AX BRG.AX BRG.AX BRG.AX BRG.AX BRG.AX
\$\circ{\scrt{8}\chi{\scrt{9}\chi{\scrt{0}}}{\scrt{0}}\$ \$\scrt{8}\chi{\scrt{5}\chi{\scrt{0}}}{\scrt{0}}\$ \$\scrt{8}\chi{\scrt{5}\chi{\scrt{0}}}{\scrt{8}\chi{\scrt{5}\chi{\scrt{0}}}}{\scrt{8}\chi{\scrt{5}\chi{\scrt{0}}}{\scrt{8}\chi{\scrt{5}\chi{\scrt{0}}}{\scrt{8}\chi{\scrt{5}\chi{\scrt{0}}}{\scrt{8}\chi{\scrt{5}\chi{\scrt{0}}}{\scrt{8}\chi{\scrt{5}\chi{\scrt{0}}}{\scrt{8}\chi{\scrt{5}\chi{\scrt{0}}}{\scrt{0}}}{\scrt{8}\chi{\scrt{5}\chi{\scrt{0}}}{\scrt{0}}}{\scrt{8}\chi{\scrt{5}\chi{\scrt{0}}}{\scrt{0}}}{\scrt{8}\chi{\scrt{5}\chi{\scrt{0}}}{\scrt{0}}}{\scrt{0}\scrt{\scrt{0}\scrt{0}\scrt{0}\scrt{0}}{\scrt{0}	LUV SWK SBUX STT STE SYK SIVB SYF SNPS SYY TMUS TROW TTWO TPR TGT TEL TDY TFX TER TSLA TXN TXT COO HIG HSY MOS TRV DIS	\$\circ{8}\chi \chi \chi \chi \chi \chi \chi \chi	UHS UNM VLO VTR VRSN VRSK VZ VRTX VFC VIAC VTRS V VNO VMC WRB GWW WAB WMT WM WAT WEC WFC WELL WST WU WRK	S&P ASX	ALU.AX ALX.AX AMC.AX AMP.AX ANN.AX ANZ.AX APA.AX APA.AX APE.AX APT.AX APX.AX AST.AX AST.AX AST.AX AST.AX BAP.AX BEN.AX
\$\text{S&P500}\$	LUV SWK SBUX STT STE SYK SIVB SYF SNPS SYY TMUS TROW TTWO TPR TGT TEL TDY TFX TER TSLA TXN TXT COO HIG HSY MOS TRV DIS TMO	\$\circ{8}\chi \colon \c	UHS UNM VLO VTR VRSN VRSK VZ VRTX VFC VIAC VTRS V VNO VMC WRB GWW WAB WBA WMT WM WAT WEC WFC WELL WST WU WRK WY	S&P ASX	ALU.AX ALX.AX AMC.AX AMP.AX ANN.AX ANN.AX APA.AX APA.AX APA.AX APA.AX APA.AX APA.AX APA.AX APA.AX APA.AX AST.AX AST.AX AST.AX AST.AX BAPA.X BEN.AX BEN.AX BEN.AX BEN.AX BUB.AX BOQ.AX BHP.AX BKL.AX BKW.AX BLD.AX BOQ.AX BPT.AX BRG.AX BSL.AX BWP.AX BWB.AX BWB.AX BWB.AX
\$\text{S&P500}\$	LUV SWK SBUX STT STE SYK SIVB SYF SNPS SYY TMUS TROW TTWO TPR TGT TEL TDY TFX TER TSLA TXN TXT COO HIG HSY MOS TRV DIS TMO TJX	\$\circ{8}\chi \chi \chi \chi \chi \chi \chi \chi	UHS UNM VLO VTR VRSN VRSK VZ VRTX VFC VIAC VTRS V VNO VMC WRB GWW WAB WAT WAT WAT WAT WEC WFC WFC WFC WFC WFC WFC WFC WFC WFC WF	S&P ASX	ALU.AX ALX.AX AMC.AX AMP.AX ANN.AX ANN.AX ANZ.AX APA.AX APA.AX APA.AX APT.AX APT.AX APX.AX AST.AX AST.AX AST.AX AST.AX BAPA.X BEN.AX BEN.AX BEN.AX BUB.AX BOQ.AX BHP.AX BIL.AX BOQ.AX BOT.AX BOD.AX BOT.AX BOD.AX BO
\$\text{S&P500}\$	LUV SWK SBUX STT STE SYK SIVB SYF SNPS SYY TMUS TROW TTWO TPR TGT TEL TDY TFX TER TSLA TXN TXT COO HIG HSY MOS TRV DIS TMO TJX TTRO TIX TTRO TIX TTRO TIX TTRO TIX TTRO TIX TTRO TTRO TTRO TTRO TTRO TTRO TTRO TTR	\$\circ{8}\chi \chi \chi \chi \chi \chi \chi \chi	UHS UNM VLO VTR VRSN VRSK VZ VRTX VFC VIAC VTRS V VNO VMC WRB GWW WAB WMAT WEC WFC WELL WST WDC WU WRK WY WHR	S&P ASX	ALÚ.AX ALX.AX AMC.AX AMC.AX AMP.AX ANN.AX ANZ.AX APA.AX APA.AX APA.AX APT.AX APT.AX APX.AX AST.AX AST.AX AST.AX AST.AX BEN.AX BEN.AX BEN.AX BHP.AX BHR.AX BH
\$\circ{\scrt{8}\color{\scrt{9}\color	LUV SWK SBUX STT STE SYK SIVB SYF SNPS SYY TMUS TROW TTWO TPR TGT TEL TDY TFX TER TSLA TXN TXT COO HIG HSY MOS TRV DIS TMO TJX TSCO TT	\$\circ{8}\circ{9}\circ{9}\circ{0}{\circ{8}\circ{9}\circ{9}\circ{0}{\circ{8}\circ{9}\ci	UHS UNM VLO VTR VRSN VRSK VZ VRTX VFC VIAC VTRS V VNO VMC WRB GWW WAB WBA WMT WMAT WEC WFC WELL WST WDC WU WRK WY WHR WMB WHR WMB	S&P ASX	ALU.AX ALX.AX AMC.AX AMP.AX ANN.AX ANN.AX ANZ.AX APA.AX APA.AX APE.AX BEN.AX BE
\$\text{S&P500}\$	LUV SWK SBUX STT STE SYK SIVB SYF SNPS SYY TMUS TROW TTWO TPR TGT TEL TDY TFX TER TSLA TXN TXT COO HIG HSY MOS TRV DIS TMO TIX TSCO TIT TDG	\$\circ{8}\circ{9}\circ{9}\circ{0}{\circ{9}\circ{9}\circ{0}{\circ{9}\circ{9}\circ{0}{\circ{9}\circ{9}\circ{9}\circ{0}{\circ{9}\	UHS UNM VLO VTR VRSN VRSK VZ VRTX VFC VIAC VTRS V VNO VMC WRB GWW WAB WMT WEC WFC WELL WST WDC WU WRK WY WHR WMB WHR WMB WHR WWY WHR	S&P ASX	ALU.AX ALY.AX ALX.AX AMC.AX AMP.AX ANN.AX ANZ.AX APA.AX APA.AX APA.AX APA.AX APA.AX APX.AX ARB.AX AST.AX ASX.AX AUB.AX BEN.AX BEN.AX BEN.AX BEN.AX BEN.AX BEN.AX BEN.AX BHP.AX BHP.AX BKL.AX BKW.AX BLD.AX BOQ.AX BPT.AX BRG.AX BR
\$\circ{\scrt{8}\color{\scrt{9}\color	LUV SWK SBUX STT STE SYK SIVB SYF SNPS SYY TMUS TROW TTWO TPR TGT TEL TDY TFX TER TSLA TXN TXT COO HIG HSY MOS TRV DIS TMO TJX TSCO TT	\$\circ{8}\circ{9}\circ{9}\circ{0}{\circ{8}\circ{9}\circ{9}\circ{0}{\circ{8}\circ{9}\ci	UHS UNM VLO VTR VRSN VRSK VZ VRTX VFC VIAC VTRS V VNO VMC WRB GWW WAB WBA WMT WMAT WEC WFC WELL WST WDC WU WRK WY WHR WMB WHR WMB	S&P ASX	ALU.AX ALX.AX AMC.AX AMP.AX ANN.AX ANN.AX ANZ.AX APA.AX APA.AX APE.AX BEN.AX BE
\$\text{S&P500}\$	LUV SWK SBUX STT STE SYK SIVB SYF SNPS SYY TMUS TROW TTWO TPR TGT TEL TDY TFX TER TSLA TXN TXT COO HIG HSY MOS TRV DIS TMO TIX TSCO TIT TDG	\$\circ{8}\circ{9}\circ{9}\circ{0}{\circ{9}\circ{9}\circ{0}{\circ{9}\circ{9}\circ{0}{\circ{9}\circ{9}\circ{9}\circ{0}{\circ{9}\	UHS UNM VLO VTR VRSN VRSK VZ VRTX VFC VIAC VTRS V VNO VMC WRB GWW WAB WMT WEC WFC WELL WST WDC WU WRK WY WHR WMB WHR WMB WHR WWY WHR	S&P ASX	ALÚ.AX ALX.AX AMC.AX AMP.AX ANN.AX ANN.AX APA.AX APA.AX APE.AX APT.AX APX.AX ARB.AX AST.AX ASX.AX AUB.AX BEN.AX BEN.AX BEN.AX BEN.AX BUB.AX CUB.AX CUB.AX CUB.AX CUB.AX CUB.AX
\$\text{S&P500}\$	LUV SWK SBUX STT STE SYK SIVB SYF SNPS SYY TMUS TROW TTWO TPR TGT TEL TDY TFX TER TSLA TXN TXT COO HIG HSY MOS TRV DIS TMO TJX TSCO TT TDG TRMB TFC	\$\circ{8}\circ{9}\circ{9}\circ{0}{\circ{8}\circ{9}\circ{9}\circ{0}{\circ{8}\circ{9}\ci	UHS UNM VLO VTR VRSN VRSK VZ VRTX VFC VIAC VTRS V VNO VMC WRB GWW WAB WAT WEC WFLL WST WDC WU WRK WY WHR WMB WHR WMB WHR WMB WHR WMB WHR WAT WEC WFLL WST WDC WU WRK WY WHR WMB WLTW WYNN XEL XLNX	S&P ASX	ALÚ.AX ALX.AX AMC.AX AMP.AX ANN.AX ANZ.AX APA.AX APA.AX APA.AX APA.AX APT.AX APT.AX APX.AX AST.AX AST.AX AST.AX BAPA.AX BEN.AX BEN.AX BEN.AX BEN.AX BEN.AX BGA.AX BHP.AX BKL.AX BKW.AX BLD.AX BOQ.AX BPT.AX BRG.AX BPT.AX BRG.AX B
\$\circ{\scrt{8}\chick{P}}500\\ \$\scrt{8}\chick{P}}500\\ \$\scrt{8}\chick	LUV SWK SBUX STT STE SYK SIVB SYF SNPS SYY TMUS TROW TTWO TPR TGT TEL TDY TFX TER TSLA TXN TXT COO HIG HSY MOS TRV DIS TMO TJX TSCO TT TDG TRMB TFC TWTR	\$\circ{8}\chi \chi \chi \chi \chi \chi \chi \chi	UHS UNM VLO VTR VRSN VRSK VZ VRTX VFC VIAC VTRS V VNO VMC WRB GWW WAB WBA WMT WAT WEC WFC WELL WST WDC WU WRK WY WHR WMB WHR WMB WLTW WYNN XEL XLNX XYL	S&P ASX	ALU.AX ALX.AX AMC.AX AMP.AX ANN.AX ANN.AX APA.AX APA.AX APA.AX APT.AX APT.AX APT.AX AST.AX AST.AX AST.AX BAPAX BEN.AX BOQ.AX BEN.AX BOQ.AX BOY.AX BOY
\$\text{S&P500}\$	LUV SWK SBUX STT STE SYK SIVB SYF SNPS SYY TMUS TROW TTWO TPR TGT TEL TDY TFX TER TSLA TXN TXT COO HIG HSY MOS TRV DIS TMO TJX TSCO TT TDG TRMB TFC TWTR TYL	\$\circ{8}\circ{9}\circ{9}\circ{0}{\circ{9}\circ{9}\circ{0}{\circ{9}\circ{9}\circ{0}{\circ{9}\circ{9}\circ{0}{\circ{9}\circ{9}\circ{0}{\circ{9}\circ{9}\circ{0}{\circ{9}\circ{9}\circ{0}{\circ{9}\circ{9}\circ{0}{\circ{9}\circ{9}\circ{0}{\circ{9}\circ{9}\circ{0}{\circ{9}\circ{9}\circ{9}\circ{0}{\circ{9}\circ{9}\circ{9}\circ{0}{\circ{9}\circ{9}\circ{9}\circ{0}{\circ{9}\circ{9}\circ{9}\circ{0}{\circ{9}\circ{9}\circ{9}\circ{0}{\circ{9}\circ{9}\circ{0}{\circ{9}\circ{9}\circ{9}\circ{9}\circ{0}{\circ{9}\circ{9}\circ{9}\circ{9}\circ{0}{\circ{9}\ci	UHS UNM VLO VTR VRSN VRSK VZ VRTX VFC VIAC VTRS V VNO VMC WRB GWW WAB WBA WMT WMT WM WAT WEC WFC WFC WFC WFC WFC WFC WFC WFC WFC WF	S&P ASX	ALU.AX ALX.AX AMC.AX AMC.AX AMP.AX ANN.AX ANZ.AX APA.AX APA.AX APA.AX APT.AX APT.AX APX.AX AST.AX AST.AX AST.AX AST.AX BEN.AX BEN.AX BEN.AX BEN.AX BUD.AX BOQ.AX BHP.AX BUD.AX BOQ.AX BOY.AX BO
\$\circ{\scrt{8}\chick{P}}500\\ \$\scrt{8}\chick{P}}500\\ \$\scrt{8}\chick	LUV SWK SBUX STT STE SYK SIVB SYF SNPS SYY TMUS TROW TTWO TPR TGT TEL TDY TFX TER TSLA TXN TXT COO HIG HSY MOS TRV DIS TMO TIX TSCO TT TDG TRMB TFC TWTR TYL TSN	\$\circ{8}\chick{P}500\$ \$\chick{P}500\$ \$\circ{8}\chick{P}500\$ \$\circ{8}\chick{P}500\$ \$\chick{P}500\$	UHS UNM VLO VTR VRSN VRSK VZ VRTX VFC VIAC VTRS V VNO VMC WRB GWW WAB WMAT WEC WFC WELL WST WDC WU WRK WY WHR WMB WLTW WYNN XEL XLNX XYL YUM ZBRA	S&P ASX	ALÚ.AX ALX.AX AMC.AX AMP.AX ANN.AX ANZ.AX APA.AX APA.AX APA.AX APT.AX APT.AX APX.AX AST.AX AST.AX AST.AX AST.AX BEN.AX BOQ.AX BEN.AX BOQ.AX BEN.AX BOQ.AX BOY.AX BO
\$\circ{\scrt{8}\chick{P}}500\\ \$\scrt{8}\chick{P}}500\\ \$\scrt{8}\chick	LUV SWK SBUX STT STE SYK SIVB SYF SNPS SYY TMUS TROW TTWO TPR TGT TEL TDY TFX TER TSLA TXN TXT COO HIG HSY MOS TRV DIS TMO TIX TSCO TT TDG TRMB TFC TWTR TYL TSN USB	\$\circ{8}\chick{P}500\$ \$\chick{P}500\$ \$\circ{8}\chick{P}500\$ \$\circ{8}\chick{P}500\$ \$\chick{P}500\$	UHS UNM VLO VTR VRSN VRSK VZ VRTX VFC VIAC VTRS V VNO VMC WRB GWW WAB WMAT WEC WFC WELL WST WDC WU WRK WY WHR WMB WLTW WYNN XEL XLNX XYL YUM ZBRA ZBH	S&P ASX	ALU.AX ALX.AX AMC.AX AMC.AX AMP.AX ANN.AX ANZ.AX APA.AX APA.AX APA.AX APT.AX APT.AX APX.AX AST.AX AST.AX AST.AX AST.AX BEN.AX BOQ.AX BEN.AX BOQ.AX BOQ.AX BOQ.AX BOD.AX COR.AX CO
\$\circ{\scrt{8}\chick{P}}500\\ \$\scrt{8}\chick{P}}500\\ \$\scrt{8}\chick	LUV SWK SBUX STT STE SYK SIVB SYF SNPS SYY TMUS TROW TTWO TPR TGT TEL TDY TEX TER TSLA TXN TXT COO HIG HSY MOS TRV DIS TRV DIS TMO TJX TSCO TT TDG TRMB TFC TWTR TYL TSN USB UDR	\$\circ{8}\chick{P}500\$ \$\chick{P}500\$ \$\circ{8}\chick{P}500\$ \$\circ{8}\chick{P}500\$ \$\chick{P}500\$	UHS UNM VLO VTR VRSN VRSK VZ VRTX VFC VIAC VTRS V VNO VMC WRB GWW WAB WBA WMT WE WBA WMT WM WAT WE	S&P ASX	ALU.AX ALY.AX AMC.AX AMP.AX ANN.AX ANN.AX ANZ.AX APE.AX APE.AX APT.AX APT.AX APX.AX AST.AX AST.AX BAP.AX BEN.AX BOQ.AX BHP.AX BIL.AX BOQ.AX BOY.AX BO
\$\circ{\scrt{8}\chick{P}}500\\ \$\scrt{8}\chick{P}}500\\ \$\scrt{8}\chick	LUV SWK SBUX STT STE SYK SIVB SYF SNPS SYY TMUS TROW TTWO TPR TGT TEL TDY TFX TER TSLA TXN TXT COO HIG HSY MOS TRV DIS TMO TIX TSCO TT TDG TRMB TFC TWTR TYL TSN USB	\$\circ{8}\chick{P}500\$ \$\chick{P}500\$ \$\circ{8}\chick{P}500\$ \$\circ{8}\chick{P}500\$ \$\chick{P}500\$	UHS UNM VLO VTR VRSN VRSK VZ VRTX VFC VIAC VTRS V VNO VMC WRB GWW WAB WMAT WEC WFC WELL WST WDC WU WRK WY WHR WMB WLTW WYNN XEL XLNX XYL YUM ZBRA ZBH	S&P ASX	ALU.AX ALX.AX AMC.AX AMC.AX AMP.AX ANN.AX ANZ.AX APA.AX APA.AX APA.AX APT.AX APT.AX APX.AX AST.AX AST.AX AST.AX AST.AX BEN.AX BOQ.AX BEN.AX BOQ.AX BOQ.AX BOQ.AX BOD.AX COR.AX CO
\$\circ{\scrt{8}\chick{P}}500\$ \$\scrt{\scrt{8}\chick{P}}500\$	LUV SWK SBUX STT STE SYK SIVB SYF SNPS SYY TMUS TROW TTWO TPR TGT TEL TDY TEX TER TSLA TXN TXT COO HIG HSY MOS TRV DIS TRV DIS TMO TJX TSCO TT TDG TRMB TFC TWTR TYL TSN USB UDR	\$\circ{8}\chick{P}500\$ \$\chick{P}500\$ \$\circ{8}\chick{P}500\$ \$\chick{P}500\$ \$\circ{8}\chick{P}500\$ \$\chick{P}500\$ \$\circ{8}\chick{P}500\$ \$\circ{8}\chick{P}500\$ \$\circ{8}\chick{P}500\$ \$\circ{8}\chick{P}500\$ \$\circ{8}\chick{P}500\$	UHS UNM VLO VTR VRSN VRSK VZ VRTX VFC VIAC VTRS V VNO VMC WRB GWW WAB WBA WMT WE WBA WMT WM WAT WE	S&P ASX	ALU.AX ALX.AX AMC.AX AMP.AX ANN.AX ANN.AX APA.AX APE.AX APE.AX APT.AX APX.AX ARB.AX AST.AX ASX.AX AUB.AX BAP.AX BEN.AX BOQ.AX BEN.AX BOQ.AX BEN.AX BOQ.AX BOY.AX BO
\$\circ{\scrt{8}\color{\scrt{9}\color	LUV SWK SBUX STT STE SYK SIVB SYF SNPS SYF SNPS SYY TMUS TROW TTWO TPR TGT TEL TDY TFX TER TSLA TXN TXT COO HIG HSY MOS TRV DIS TMO TJX TSCO TT TDG TRMB TFC TWTR TYL TSN USB UDR	\$\circ{8}\chick{P}500\$ \$\chick{P}500\$ \$\circ{8}\chick{P}500\$ \$\circ{8}\chick{P}500\$ \$\chick{P}500\$ \$\	UHS UNM VLO VTR VRSN VRSK VZ VRTX VFC VIAC VTRS V VNO VMC WRB GWW WAB WBA WMT WE WBA WMT WM WAT WE	S&P ASX	ALU.AX ALY.AX AMC.AX AMP.AX ANN.AX ANN.AX ANZ.AX APE.AX APE.AX APT.AX APT.AX APX.AX AST.AX AST.AX BEN.AX BOQ.AX BOY.AX BO

SAF AXX	Market/Index	Yahoo ticker	Market/Index	Yahoo ticker	Market/Index	Yahoo ticker
SSP AXX	•		· .		·	
SEP PAX						
SEP AXX						
SSP AXX	S&P ASX	COL.AX	S&P ASX	LNK.AX	S&P ASX	RHC.AX
SSP AXX						
\$6 PAX						
SSP AXX						
\$\$P ASX						
SSP AXX						
SSP ASS						
\$6P ASX						
\$\$P, PAST DOWAY. \$\$P, PAST ANHAY. \$\$P, PAST ANHAY. \$\$P, PAST DOWAY. \$\$P, P	S&P ASX	DHG.AX	S&P ASX	MSB.AX	S&P TSX	AC.TO
\$6P ASX						
\$\$P ASX						
S&P ASX						
S&P ASX						
S&P ASX						
S&P ASX						
S&P ASK FILAX S&P ASK NSTAX S&P TSK FIDOTO						
SSP ASX	S&P ASX					
SEP ASX						
SEP ASX						
SEP ASX						
S&P ASX						
S&P ASK						
S&P ASX						
S&P ASX	S&P ASX	GOZ.AX	S&P ASX	OBL.AX	S&P TSX	BCE.TO
S&P ASK						
S&P ASK						
S&P ASK						
S&P ASX						
S&P ASX						
S&P ASX	S&P ASX		S&P ASX		S&P TSX	CF.TO
S&P ASX IJJAX S&P ASX PMEAX S&P TSX CNR.TO S&P ASX INGAX S&P ASX PMVAX S&P TSX CPTO S&P ASX IPHAX S&P ASX PPTAX S&P TSX CPTO S&P ASX IPHAX S&P ASX PPTAX S&P TSX CUTO S&P ASX IPHAX S&P ASX PPTAX S&P TSX CUBTO S&P ASX IPHAX S&P ASX PPTAX S&P TSX CUBTO S&P ASX IPLAX S&P ASX PPTAX S&P TSX CUBTO S&P ASX IPLAX S&P ASX QANAX S&P TSX CPTO S&P ASX IPLAX S&P ASX QANAX S&P TSX CPTO S&P ASX IPLAX S&P ASX QANAX S&P TSX CPTO S&P ASX IPLAX S&P ASX QBLAX S&P TSX CPTO S&P ASX IPLAX S&P ASX QBLAX S&P TSX CSTO S&P TSX CJTTO S&P TSX I						
S&P ASX INAAX S&P ASX PMVAX S&P TSX CNQTO S&P ASX IPHAX S&P ASX PPTAX S&P TSX CUTO S&P ASX IPLAX S&P ASX PPTAX S&P TSX CUTO S&P ASX IPLAX S&P ASX PPTAX S&P TSX CUTO S&P ASX IPLAX S&P ASX PPTAX S&P TSX CUTO S&P ASX IPLAX S&P ASX PPTAX S&P TSX CPTO S&P ASX IPLAX S&P ASX QBLAX S&P TSX CPCTO S&P ASX JBLAX S&P ASX QBLAX S&P TSX CPCTO S&P ASX JBLAX S&P ASX QBLAX S&P TSX CPCTO Market/Index Yahoo ticker Market/Index Yahoo ticker Market/Index Yahoo ticker Market/Index Yahoo ticker Market/Index Yahoo ticker Market/Index Yahoo ticker S&P TSX CITTO S&P TSX INCTO S&P TSX PSCTO						
S&P ASX ING.AX S&P ASX PNVAX S&P TSX CPTO S&P ASX IPH.AX S&P ASX PPLAX S&P TSX CUTO S&P ASX IPH.AX S&P ASX PPLAX S&P TSX CWB.TO S&P ASX IPH.AX S&P ASX PPLAX S&P TSX CPPTO S&P ASX IPH.AX S&P ASX QAN.AX S&P TSX CPPTO S&P ASX IPH.AX S&P ASX QAN.AX S&P TSX CPPTO S&P ASX IPH.AX S&P ASX QAN.AX S&P TSX CPPTO S&P ASX IPH.AX S&P ASX QUB.AX S&P TSX CPPTO S&P ASX IPH.AX S&P ASX QUB.AX S&P TSX CPPTO S&P ASX IPH.AX S&P ASX QUB.AX S&P TSX CPTTO S&P ASX IPH.AX S&P ASX QUB.AX S&P TSX CCXTO S&P TSX CPTTO S&P TSX IPL.TO S&P TSX PRH.TO S&P TSX CLSTO						
S&P ASX IPHAX S&P ASX PPTAX S&P TSX CUTO S&P ASX IREAX S&P ASX PPMAX S&P TSX CPBTO S&P ASX IVCAX S&P ASX QANAX S&P TSX CPFTO S&P ASX JIBLAX S&P ASX QBEAX S&P TSX CPXTO S&P ASX JIBLAX S&P ASX QBEAX S&P TSX CPXTO Market/Index Yahoo ticker Market/Index Yahoo ticker Market/Index Yahoo ticker Market/Index Yahoo ticker Market/Index Yahoo ticker Market/Index Yahoo ticker S&P TSX CJTTO S&P TSX INOTO S&P TSX PSK.TO S&P TSX CAS.TO S&P TSX INOTO S&P TSX PPK.TO S&P TSX CAS.TO S&P TSX INOTO S&P TSX PPK.TO S&P TSX CLCATO S&P TSX IPLTO S&P TSX PPK.TO S&P TSX CLCATO S&P TSX IPTO S&P TSX RPM.TO <tr< td=""><td></td><td></td><td></td><td></td><td></td><td></td></tr<>						
S&P ASX IPLAX S&P ASX PRUAX S&P TSX CWBTO S&P ASX IREAX S&P ASX PTMAX S&P TSX CPETO S&P ASX IBLAX S&P ASX QBAX S&P TSX CPETO S&P ASX IBLAX S&P ASX QBEAX S&P TSX CPETO S&P ASX IBLAX S&P ASX QBEAX S&P TSX CPETO S&P ASX IBLAX S&P ASX QBEAX S&P TSX CPETO S&P ASX IBLAX S&P ASX QBEAX S&P TSX CPETO S&P ASX IBLAX S&P ASX QBEAX S&P TSX CCS.TO S&P TSX CLATO S&P TSX IMO.TO S&P TSX PSKTO S&P TSX CLASTO S&P TSX IPLTO S&P TSX PPM.TO S&P TSX CCATO S&P TSX IPLTO S&P TSX PRM.TO S&P TSX CCATO S&P TSX IPLTO S&P TSX QBATO S&P TSX CCATO S&P TSX						
S&P ASX IVC.AX S&P ASX QANAX S&P TSX CPXTO S&P ASX JBH.AX S&P ASX QBE.AX S&P TSX CPXTO S&P ASX JHG.AX S&P ASX QUB.AX S&P TSX CPXTO Market/Index Yahoo ticker Market/Index Yahoo ticker Market/Index Yahoo ticker S&P TSX CCTTO S&P TSX IMO.TO S&P TSX PSX PSX.TO S&P TSX CAS.TO S&P TSX IMO.TO S&P TSX PSX.TO			S&P ASX	PRU.AX	S&P TSX	CWB.TO
S&P ASX						
Market/Index						
Market/Index Yahoo ticker Market/Index Yahoo ticker S&P TSX CJTTO S&P TSX IMOTO S&P TSX PSK.TO S&P TSX CASTO S&P TSX INE.TO S&P TSX PSK.TO S&P TSX CLSTO S&P TSX IPLTO S&P TSX PWG.TO S&P TSX CLSTO S&P TSX IPLTO S&P TSX PRMV.TO S&P TSX CCTO S&P TSX IPLTO S&P TSX PRMV.TO S&P TSX CCTO S&P TSX IPLTO S&P TSX QSR.TO S&P TSX CLXTO S&P TSX IPTO S&P TSX QSR.TO S&P TSX CLXTO S&P TSX IPTO S&P TSX RBA.TO S&P TSX CLGITO S&P TSX IPTO S&P TSX RCH.TO S&P TSX CLGITO S&P TSX IPTO S&P TSX RCH.TO S&P TSX CLGITO S&P TSX KEYTO S&P TSX RCTO S&P TSX CCGTO S&P TSX KEYTO <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
S&P TSX CJTTO S&P TSX IMO.TO S&P TSX PSK.TO S&P TSX CAS.TO S&P TSX INE.TO S&P TSX PBH.TO S&P TSX CLS.TO S&P TSX IPE.TO S&P TSX PVG.TO S&P TSX CVE.TO S&P TSX IPE.TO S&P TSX PRMW.TO S&P TSX CVE.TO S&P TSX IPE.TO S&P TSX PRMW.TO S&P TSX CCA.TO S&P TSX IPE.TO S&P TSX REAL.TO S&P TSX CCA.TO S&P TSX IVN.TO S&P TSX RCH.TO S&P TSX CCA.TO S&P TSX IVN.TO S&P TSX RCH.TO S&P TSX CCA.TO S&P TSX IVN.TO S&P TSX RCH.TO S&P TSX CUTO S&P TSX IVN.TO S&P TSX RCH.TO S&P TSX CUTO S&P TSX KX KXTO S&P TSX RRA.TO S&P TSX CUTO S&P TSX KX KXTO S&P TSX RUS.TO <td< th=""><th></th><th></th><th></th><th></th><th></th><th></th></td<>						
S&P TSX CAS.TO S&P TSX INE TO S&P TSX PEH.TO S&P TSX CLS.TO S&P TSX IFCTO S&P TSX PPG.TO S&P TSX CUS.TO S&P TSX IFLTO S&P TSX PRMW.TO S&P TSX CG.TO S&P TSX IFLTO S&P TSX REAL.TO S&P TSX CG.TO S&P TSX IFLTO S&P TSX REAL.TO S&P TSX CCA.TO S&P TSX IVN.TO S&P TSX RCH.TO S&P TSX CCA.TO S&P TSX IVN.TO S&P TSX RCH.TO S&P TSX CGLTO S&P TSX KEYTO S&P TSX RCH.TO S&P TSX CFG.TO S&P TSX KXS.TO S&P TSX RUS.TO S&P TSX CRON.TO S&P TSX KXS.TO S&P TSX RUS.TO S&P TSX DMLTO S&P TSX KLTO S&P TSX SSLTO S&P TSX DMLTO S&P TSX LIFTO S&P TSX SEATO S&P TSX DOLTO					·	
S&P TSX CLS.TO S&P TSX IFC.TO S&P TSX PVG.TO S&P TSX CVE.TO S&P TSX IPL.TO S&P TSX PRMWTO S&P TSX CG.TO S&P TSX IFPTO S&P TSX REAL.TO S&P TSX CLX.TO S&P TSX IVNTO S&P TSX QSR.TO S&P TSX CLG.TO S&P TSX IVNTO S&P TSX RCH.TO S&P TSX CLG.TO S&P TSX IVNTO S&P TSX RCH.TO S&P TSX CLG.TO S&P TSX KEY.TO S&P TSX RPATO S&P TSX CLG.TO S&P TSX KEY.TO S&P TSX RPATO S&P TSX CLG.TO S&P TSX KEY.TO S&P TSX RPATO S&P TSX CRON.TO S&P TSX KEY.TO S&P TSX RUS.TO S&P TSX CRON.TO S&P TSX KLTO S&P TSX SSLTO S&P TSX DOL.TO S&P TSX LLTO S&P TSX SAPTO S&P TSX DOL.TO						
S&P TSX CVE.TO S&P TSX IPL.TO S&P TSX PRMW.TO S&P TSX CG.TO S&P TSX IFPTO S&P TSX REAL TO S&P TSX CIX.TO S&P TSX IVN.TO S&P TSX QSR.TO S&P TSX CCA.TO S&P TSX IVN.TO S&P TSX RCH.TO S&P TSX CCA.TO S&P TSX IVN.TO S&P TSX RCH.TO S&P TSX CGO.TO S&P TSX IVV.TO S&P TSX RCH.TO S&P TSX CO.TO S&P TSX KXS.TO S&P TSX RU.TO S&P TSX CRON.TO S&P TSX KXS.TO S&P TSX RU.STO S&P TSX DML.TO S&P TSX KL.TO S&P TSX SAP.TO S&P TSX DSG.TO S&P TSX LETO S&P TSX SAP.TO S&P TSX DDL.TO S&P TSX LETO S&P TSX SHOPTO S&P TSX DPM.TO S&P TSX LETO S&P TSX SHOPTO S&P TSX DPM.TO						
S&P TSX CIX.TO S&P TSX ITP.TO S&P TSX QSR.TO S&P TSX CCA.TO S&P TSX IVN.TO S&P TSX RCH.TO S&P TSX CCA.TO S&P TSX JWEL.TO S&P TSX RCH.TO S&P TSX CCO.TO S&P TSX KEY.TO S&P TSX RY.TO S&P TSX CPG.TO S&P TSX KXS.TO S&P TSX RUS.TO S&P TSX CPG.TO S&P TSX KXS.TO S&P TSX RUS.TO S&P TSX DOL.TO S&P TSX KLTO S&P TSX SALTO S&P TSX DOL.TO S&P TSX LB.TO S&P TSX SHOPTO S&P TSX DOL.TO S&P TSX LB.TO S&P TSX SHOPTO S&P TSX DOL.TO S&P TSX LWRK.TO S&P TSX SHOPTO S&P TSX DOL.TO S&P TSX LWRK.TO S&P TSX SHOPTO S&P TSX DOL.TO S&P TSX LWRK.TO S&P TSX SM.TO S&P TSX DOL.TO <td></td> <td>CVE.TO</td> <td></td> <td>IPL.TO</td> <td></td> <td></td>		CVE.TO		IPL.TO		
S&P TSX CCA.TO S&P TSX IVN.TO S&P TSX RCH.TO S&P TSX CIGLTO S&P TSX JWELTO S&P TSX RBA.TO S&P TSX CSU.TO S&P TSX KEY.TO S&P TSX RY.TO S&P TSX CRON.TO S&P TSX KS.TO S&P TSX RUS.TO S&P TSX CRON.TO S&P TSX KLTO S&P TSX SLTO S&P TSX DML.TO S&P TSX KLTO S&P TSX SAP.TO S&P TSX DML.TO S&P TSX LIETO S&P TSX SEA.TO S&P TSX DOL.TO S&P TSX LIETO S&P TSX SHOP.TO S&P TSX DPM.TO S&P TSX LB.TO S&P TSX SHOP.TO S&P TSX DPM.TO S&P TSX LB.TO S&P TSX SHOP.TO S&P TSX DND.TO S&P TSX LB.TO S&P TSX SUM.TO S&P TSX ECN.TO S&P TSX LNR.TO S&P TSX SUM.TO S&P TSX ELD.TO						
S&P TSX CIGLTO S&P TSX JWELTO S&P TSX RBATO S&P TSX CSUTO S&P TSX KEYTO S&P TSX RY.TO S&P TSX CPG.TO S&P TSX KXS.TO S&P TSX RUS.TO S&P TSX DML.TO S&P TSX KL.TO S&P TSX SALTO S&P TSX DML.TO S&P TSX KL.TO S&P TSX SALTO S&P TSX DDL.TO S&P TSX LB.TO S&P TSX SHOPTO S&P TSX DOL.TO S&P TSX LB.TO S&P TSX SHOPTO S&P TSX DND.TO S&P TSX LWRK.TO S&P TSX SHOPTO S&P TSX DND.TO S&P TSX LSPD.TO S&P TSX SUA.TO S&P TSX ECN.TO S&P TSX LLTO S&P TSX SUA.TO S&P TSX ELD.TO S&P TSX LACTO S&P TSX SUA.TO S&P TSX ELD.TO S&P TSX LACTO S&P TSX SNC.TO S&P TSX ELD.TO						
S&P TSX CSU.TO S&P TSX KEYTO S&P TSX RY.TO S&P TSX CPG.TO S&P TSX KS.TO S&P TSX RUS.TO S&P TSX CRON.TO S&P TSX K.TO S&P TSX SSL.TO S&P TSX DML.TO S&P TSX LETO S&P TSX SAP.TO S&P TSX DSG.TO S&P TSX LETO S&P TSX SAP.TO S&P TSX DOL.TO S&P TSX LETO S&P TSX SHOPTO S&P TSX DPM.TO S&P TSX LETO S&P TSX SHOPTO S&P TSX DPM.TO S&P TSX LLWRK.TO S&P TSX SHOPTO S&P TSX DND.TO S&P TSX LLWRK.TO S&P TSX SIL.TO S&P TSX ECN.TO S&P TSX LLNR.TO S&P TSX SIL.TO S&P TSX ELD.TO S&P TSX LLNR.TO S&P TSX ZZZ.TO S&P TSX ELD.TO S&P TSX LUN.TO S&P TSX SNC.TO S&P TSX EMATO						
S&P TSX CPG.TO S&P TSX KXS.TO S&P TSX RUS.TO S&P TSX CRON.TO S&P TSX K.TO S&P TSX SSLTO S&P TSX DML.TO S&P TSX KL.TO S&P TSX SAPTO S&P TSX DSG.TO S&P TSX LIFTO S&P TSX SAPTO S&P TSX DOL.TO S&P TSX LB.TO S&P TSX SHOPTO S&P TSX DPM.TO S&P TSX LWRK.TO S&P TSX SHOPTO S&P TSX DND.TO S&P TSX LWRK.TO S&P TSX SILTO S&P TSX DND.TO S&P TSX LWRK.TO S&P TSX SILTO S&P TSX ECN.TO S&P TSX LWRK.TO S&P TSX SILTO S&P TSX ECN.TO S&P TSX LAC.TO S&P TSX SILTO S&P TSX ELD.TO S&P TSX LAC.TO S&P TSX SNC.TO S&P TSX EFN.TO S&P TSX LAC.TO S&P TSX SNC.TO S&P TSX EMATO						
S&P TSX CRON.TO S&P TSX K.TO S&P TSX SSL.TO S&P TSX DML.TO S&P TSX KL.TO S&P TSX SAP.TO S&P TSX DSG.TO S&P TSX LIFTO S&P TSX SEA.TO S&P TSX DOL.TO S&P TSX LIFTO S&P TSX SHOP.TO S&P TSX DPM.TO S&P TSX LWR.TO S&P TSX SHOP.TO S&P TSX DND.TO S&P TSX LWR.TO S&P TSX SVM.TO S&P TSX ECN.TO S&P TSX LWR.TO S&P TSX SVM.TO S&P TSX ELD.TO S&P TSX LAC.TO S&P TSX ZZZ.TO S&P TSX ELD.TO S&P TSX LAC.TO S&P TSX ZZZ.TO S&P TSX EMA.TO S&P TSX LAC.TO S&P TSX SNC.TO S&P TSX EMA.TO S&P TSX LAC.TO S&P TSX SNC.TO S&P TSX EMA.TO S&P TSX MG.TO S&P TSX SNC.TO S&P TSX ENB.TO <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
S&P TSX DSG.TO S&P TSX LIF.TO S&P TSX SEA.TO S&P TSX DOU.TO S&P TSX LB.TO S&P TSX SHOP.TO S&P TSX DPM.TO S&P TSX LWRK.TO S&P TSX SHOP.TO S&P TSX DND.TO S&P TSX LSPD.TO S&P TSX SVM.TO S&P TSX ECN.TO S&P TSX LNR.TO S&P TSX SIL.TO S&P TSX ELD.TO S&P TSX LAC.TO S&P TSX ZZZ.TO S&P TSX ELD.TO S&P TSX LAC.TO S&P TSX ZZZ.TO S&P TSX ELD.TO S&P TSX LAC.TO S&P TSX ZZZ.TO S&P TSX EMA.TO S&P TSX LUN.TO S&P TSX SNC.TO S&P TSX EMA.TO S&P TSX LUN.TO S&P TSX SIL.TO S&P TSX END.TO S&P TSX MG.TO S&P TSX SIL.TO S&P TSX END.TO S&P TSX MG.TO S&P TSX STR.TO S&P TSX END.T	S&P TSX	CRON.TO	S&P TSX	K.TO	S&P TSX	SSL.TO
S&P TSX DOL.TO S&P TSX LB.TO S&P TSX SHOP.TO S&P TSX DPM.TO S&P TSX LWRK.TO S&P TSX SIA.TO S&P TSX DND.TO S&P TSX LSPD.TO S&P TSX SVM.TO S&P TSX ECN.TO S&P TSX LNR.TO S&P TSX SIL.TO S&P TSX ELD.TO S&P TSX LAC.TO S&P TSX ZZZ.TO S&P TSX EFN.TO S&P TSX LON.TO S&P TSX SNC.TO S&P TSX EMA.TO S&P TSX LUN.TO S&P TSX SNC.TO S&P TSX EMA.TO S&P TSX LUN.TO S&P TSX SNC.TO S&P TSX EMA.TO S&P TSX MAG.TO S&P TSX SII.TO S&P TSX EDR.TO S&P TSX MG.TO S&P TSX SSRM.TO S&P TSX EDR.TO S&P TSX MFC.TO S&P TSX STN.TO S&P TSX ENCH.TO S&P TSX MFC.TO S&P TSX STN.TO S&P TSX EQX						
S&P TSX DPM.TO S&P TSX LWRK.TO S&P TSX SIA.TO S&P TSX DND.TO S&P TSX LSPD.TO S&P TSX SVM.TO S&P TSX ECN.TO S&P TSX LNR.TO S&P TSX SIL.TO S&P TSX ELD.TO S&P TSX LAC.TO S&P TSX ZZZ.TO S&P TSX EFN.TO S&P TSX L.TO S&P TSX SNC.TO S&P TSX EMA.TO S&P TSX LUN.TO S&P TSX TOY.TO S&P TSX EMA.TO S&P TSX LUN.TO S&P TSX SIL.TO S&P TSX EMA.TO S&P TSX MG.TO S&P TSX SIL.TO S&P TSX EDR.TO S&P TSX MG.TO S&P TSX SSR.M.TO S&P TSX ERF.TO S&P TSX MFC.TO S&P TSX STN.TO S&P TSX ENGH.TO S&P TSX MFL.TO S&P TSX STL.CTO S&P TSX EQX.TO S&P TSX MFL.TO S&P TSX SJ.TO S&P TSX EQX.T						
S&P TSX DND.TO S&P TSX LSPD.TO S&P TSX SVM.TO S&P TSX ECN.TO S&P TSX LNR.TO S&P TSX SIL.TO S&P TSX ELD.TO S&P TSX LAC.TO S&P TSX ZZZ.TO S&P TSX EFN.TO S&P TSX L.TO S&P TSX SNC.TO S&P TSX EMA.TO S&P TSX LUN.TO S&P TSX SNC.TO S&P TSX EMA.TO S&P TSX LUN.TO S&P TSX SIL.TO S&P TSX EMA.TO S&P TSX MG.TO S&P TSX SIL.TO S&P TSX EDR.TO S&P TSX MG.TO S&P TSX SSRM.TO S&P TSX ERF.TO S&P TSX MFC.TO S&P TSX SSRM.TO S&P TSX ENGH.TO S&P TSX MFC.TO S&P TSX STLC.TO S&P TSX EQX.TO S&P TSX MRE.TO S&P TSX STLC.TO S&P TSX EQX.TO S&P TSX MRE.TO S&P TSX SLF.TO S&P TSX EQX.						
S&P TSX ECN.TO S&P TSX LNR.TO S&P TSX SIL.TO S&P TSX ELD.TO S&P TSX LAC.TO S&P TSX ZZZ.TO S&P TSX EFN.TO S&P TSX L.TO S&P TSX SNC.TO S&P TSX EMA.TO S&P TSX LUN.TO S&P TSX SNC.TO S&P TSX EMB.TO S&P TSX LUN.TO S&P TSX SIL.TO S&P TSX EMB.TO S&P TSX MG.TO S&P TSX SIL.TO S&P TSX EDR.TO S&P TSX MG.TO S&P TSX SSRM.TO S&P TSX ERETO S&P TSX MG.TO S&P TSX SSRM.TO S&P TSX ERETO S&P TSX MFL.TO S&P TSX STN.TO S&P TSX ENGH.TO S&P TSX MR.TO S&P TSX STL.TO S&P TSX EQX.TO S&P TSX MR.TO S&P TSX SLF.TO S&P TSX EQX.TO S&P TSX MC.TO S&P TSX SU.TO S&P TSX ERTO						
S&P TSX EFN.TO S&P TSX L.TO S&P TSX SNC.TO S&P TSX EMA.TO S&P TSX LUN.TO S&P TSX TOY.TO S&P TSX ENB.TO S&P TSX MG.TO S&P TSX SIL.TO S&P TSX EDR.TO S&P TSX MG.TO S&P TSX SSRM.TO S&P TSX EDR.TO S&P TSX MFC.TO S&P TSX STN.TO S&P TSX ENGH.TO S&P TSX MFL.TO S&P TSX STLC.TO S&P TSX EQX.TO S&P TSX MRE.TO S&P TSX SLF.TO S&P TSX EQX.TO S&P TSX MEG.TO S&P TSX SLF.TO S&P TSX EQX.TO S&P TSX MEG.TO S&P TSX SLF.TO S&P TSX EQX.TO S&P TSX MEG.TO S&P TSX SLF.TO S&P TSX ERO.TO S&P TSX MEG.TO S&P TSX SU.TO S&P TSX ERO.TO S&P TSX MRU.TO S&P TSX SU.TO S&P TSX FFH.TO <td>S&P TSX</td> <td></td> <td></td> <td></td> <td></td> <td></td>	S&P TSX					
S&P TSX EMA.TO S&P TSX LUN.TO S&P TSX TOY.TO S&P TSX ENB.TO S&P TSX MAG.TO S&P TSX SILTO S&P TSX EDR.TO S&P TSX MG.TO S&P TSX SSRM.TO S&P TSX EDR.TO S&P TSX MG.TO S&P TSX SSRM.TO S&P TSX ERGH.TO S&P TSX MFC.TO S&P TSX STLC.TO S&P TSX EQX.TO S&P TSX MRE.TO S&P TSX SLF.TO S&P TSX EQB.TO S&P TSX MEG.TO S&P TSX SLF.TO S&P TSX ERO.TO S&P TSX MC.TO S&P TSX SU.TO S&P TSX ERO.TO S&P TSX MRU.TO S&P TSX SU.TO S&P TSX EIF.TO S&P TSX MRU.TO S&P TSX SOY.TO S&P TSX FFH.TO S&P TSX MTL.TO S&P TSX SPB.TO S&P TSX FTT.TO S&P TSX NA.TO S&P TSX TRP.TO S&P TSX FN.TO <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>						
S&P TSX ENB.TO S&P TSX MAG.TO S&P TSX SII.TO S&P TSX EDR.TO S&P TSX MG.TO S&P TSX SSRM.TO S&P TSX EDR.TO S&P TSX MFC.TO S&P TSX STN.TO S&P TSX ENGH.TO S&P TSX MFL.TO S&P TSX STLC.TO S&P TSX EQX.TO S&P TSX MRE.TO S&P TSX SI.TO S&P TSX EQB.TO S&P TSX MEG.TO S&P TSX SLF.TO S&P TSX ERO.TO S&P TSX MV.TO S&P TSX SU.TO S&P TSX EIF.TO S&P TSX MRU.TO S&P TSX SU.TO S&P TSX FFH.TO S&P TSX MTL.TO S&P TSX SPB.TO S&P TSX FFH.TO S&P TSX MTL.TO S&P TSX SPB.TO S&P TSX FFT.TO S&P TSX NA.TO S&P TSX TRP.TO S&P TSX FR.TO S&P TSX NO.TO S&P TSX TFILTO S&P TSX FW.TO						
S&P TSX EDR.TO S&P TSX MG.TO S&P TSX SSRM.TO S&P TSX ERF.TO S&P TSX MFC.TO S&P TSX STN.TO S&P TSX ENGH.TO S&P TSX STLC.TO S&P TSX EQX.TO S&P TSX MFL.TO S&P TSX SI.TO S&P TSX EQB.TO S&P TSX MEG.TO S&P TSX SLF.TO S&P TSX ERO.TO S&P TSX MX.TO S&P TSX SU.TO S&P TSX EIF.TO S&P TSX MRU.TO S&P TSX SOY.TO S&P TSX FFH.TO S&P TSX MTL.TO S&P TSX SPB.TO S&P TSX FTT.TO S&P TSX NA.TO S&P TSX TRP.TO S&P TSX FR.TO S&P TSX NG.TO S&P TSX TFILTO S&P TSX FM.TO S&P TSX NYE.TO S&P TSX TFILTO S&P TSX FM.TO S&P TSX NYE.TO S&P TSX NYE.TO S&P TSX FSV.TO S&P TSX NPI.TO						
S&P TSX ERF.TO S&P TSX MFC.TO S&P TSX STN.TO S&P TSX ENGH.TO S&P TSX MFLTO S&P TSX STLC.TO S&P TSX EQX.TO S&P TSX MRE.TO S&P TSX SJ.TO S&P TSX EQB.TO S&P TSX MEG.TO S&P TSX SLF.TO S&P TSX ERO.TO S&P TSX MX.TO S&P TSX SU.TO S&P TSX EIF.TO S&P TSX MRU.TO S&P TSX SOY.TO S&P TSX FFH.TO S&P TSX MTL.TO S&P TSX SPB.TO S&P TSX FTT.TO S&P TSX NA.TO S&P TSX TRP.TO S&P TSX FR.TO S&P TSX NGD.TO S&P TSX TTO S&P TSX FM.TO S&P TSX NYE.TO S&P TSX TFILTO S&P TSX FSV.TO S&P TSX NFI.TO S&P TSX NWC.TO S&P TSX FYS.TO S&P TSX NPI.TO S&P TSX TRI.TO S&P TSX FVI.TO						
S&P TSX ENGH.TO S&P TSX MFI.TO S&P TSX STLC.TO S&P TSX EQX.TO S&P TSX MRE.TO S&P TSX SJ.TO S&P TSX EQB.TO S&P TSX MEG.TO S&P TSX SLF.TO S&P TSX ERO.TO S&P TSX MX.TO S&P TSX SU.TO S&P TSX EIE.TO S&P TSX MRU.TO S&P TSX SOY.TO S&P TSX FFH.TO S&P TSX MTL.TO S&P TSX SPB.TO S&P TSX FTT.TO S&P TSX NA.TO S&P TSX TRP.TO S&P TSX FR.TO S&P TSX NGD.TO S&P TSX TTO S&P TSX FM.TO S&P TSX NYE.TO S&P TSX TFIL.TO S&P TSX FSV.TO S&P TSX NPI.TO S&P TSX NWC.TO S&P TSX FVI.TO S&P TSX NPI.TO S&P TSX X.TO						
S&P TSX EQB.TO S&P TSX MEG.TO S&P TSX SLF.TO S&P TSX ERO.TO S&P TSX MX.TO S&P TSX SU.TO S&P TSX EIF.TO S&P TSX MRU.TO S&P TSX SOY.TO S&P TSX FFH.TO S&P TSX MTL.TO S&P TSX SPB.TO S&P TSX FTT.TO S&P TSX NA.TO S&P TSX TRP.TO S&P TSX FR.TO S&P TSX NGD.TO S&P TSX TTO S&P TSX FM.TO S&P TSX NXE.TO S&P TSX TFII.TO S&P TSX FSV.TO S&P TSX NFI.TO S&P TSX NWC.TO S&P TSX FYS.TO S&P TSX NPI.TO S&P TSX TRI.TO S&P TSX FVI.TO S&P TSX NG.TO S&P TSX X.TO	S&P TSX	ENGH.TO	S&P TSX	MFI.TO	S&P TSX	STLC.TO
S&P TSX ERO.TO S&P TSX MX.TO S&P TSX SU.TO S&P TSX EIF.TO S&P TSX MRU.TO S&P TSX SOY.TO S&P TSX FFH.TO S&P TSX MTL.TO S&P TSX SPB.TO S&P TSX FTT.TO S&P TSX NA.TO S&P TSX TRP.TO S&P TSX FR.TO S&P TSX NGD.TO S&P TSX TTI.TO S&P TSX FM.TO S&P TSX NYE.TO S&P TSX TFII.TO S&P TSX FSV.TO S&P TSX NFI.TO S&P TSX NWC.TO S&P TSX FTS.TO S&P TSX NPI.TO S&P TSX TRI.TO S&P TSX FVI.TO S&P TSX NG.TO S&P TSX X.TO						
S&P TSX EIF.TO S&P TSX MRU.TO S&P TSX SOY.TO S&P TSX FFH.TO S&P TSX MTL.TO S&P TSX SPB.TO S&P TSX FTT.TO S&P TSX NA.TO S&P TSX TRP.TO S&P TSX FR.TO S&P TSX NGD.TO S&P TSX TTO S&P TSX FM.TO S&P TSX NXE.TO S&P TSX TFII.TO S&P TSX FSV.TO S&P TSX NFI.TO S&P TSX NWC.TO S&P TSX FTS.TO S&P TSX NPI.TO S&P TSX TRI.TO S&P TSX FVI.TO S&P TSX NG.TO S&P TSX X.TO						
S&P TSX FFH.TO S&P TSX MTL.TO S&P TSX SPB.TO S&P TSX FTT.TO S&P TSX NA.TO S&P TSX TRP.TO S&P TSX FR.TO S&P TSX NGD.TO S&P TSX T.TO S&P TSX FM.TO S&P TSX NXE.TO S&P TSX TFII.TO S&P TSX FSV.TO S&P TSX NFI.TO S&P TSX NWC.TO S&P TSX FTS.TO S&P TSX NPI.TO S&P TSX TRI.TO S&P TSX FVI.TO S&P TSX NG.TO S&P TSX X.TO						
S&P TSX FTT.TO S&P TSX NA.TO S&P TSX TRP.TO S&P TSX FR.TO S&P TSX NGD.TO S&P TSX TTO S&P TSX FM.TO S&P TSX NXE.TO S&P TSX TFILTO S&P TSX FSV.TO S&P TSX NFI.TO S&P TSX NWC.TO S&P TSX FTS.TO S&P TSX NPI.TO S&P TSX TRI.TO S&P TSX FVI.TO S&P TSX NG.TO S&P TSX X.TO						
S&P TSX FR.TO S&P TSX NGD.TO S&P TSX T.TO S&P TSX FM.TO S&P TSX NXE.TO S&P TSX TFII.TO S&P TSX FSV.TO S&P TSX NFI.TO S&P TSX NWC.TO S&P TSX FTS.TO S&P TSX NPI.TO S&P TSX TRI.TO S&P TSX FVI.TO S&P TSX NG.TO S&P TSX X.TO						
S&P TSX FSV.TO S&P TSX NFI.TO S&P TSX NWC.TO S&P TSX FTS.TO S&P TSX NPI.TO S&P TSX TRI.TO S&P TSX FVI.TO S&P TSX NG.TO S&P TSX X.TO	S&P TSX	FR.TO	S&P TSX	NGD.TO	S&P TSX	T.TO
S&P TSX FTS.TO S&P TSX NPI.TO S&P TSX TRI.TO S&P TSX FVI.TO S&P TSX NG.TO S&P TSX X.TO						
S&P TSX FVI.TO S&P TSX NG.TO S&P TSX X.TO						

S&P TSX	WN.TO	S&P TSX	NVEI.TO	S&P TSX	TIH.TO
S&P TSX	GFL.TO	S&P TSX	OGC.TO	S&P TSX	TD.TO
S&P TSX	GEI.TO	S&P TSX	ONEX.TO	S&P TSX	TOU.TO
S&P TSX	GIL.TO	S&P TSX	OTEX.TO	S&P TSX	TA.TO
S&P TSX	GSY.TO	S&P TSX	OGI.TO	S&P TSX	RNW.TO
S&P TSX	GWO.TO	S&P TSX	OR.TO	S&P TSX	TCN.TO
S&P TSX	HCG.TO	S&P TSX	OSK.TO	S&P TSX	TRIL.TO
S&P TSX	HBM.TO	S&P TSX	PAAS.TO	S&P TSX	TSU.TO
S&P TSX	H.TO	S&P TSX	PXT.TO	S&P TSX	TRQ.TO
S&P TSX	IAG.TO	S&P TSX	PKI.TO	S&P TSX	VET.TO
S&P TSX	IMG.TO	S&P TSX	PPL.TO	S&P TSX	VFF.TO
S&P TSX	IGM.TO	S&P TSX	POW.TO	S&P TSX	WCN.TO

Market/Index	5&P 15X	IGM.10	5&P 15X	POW.10	5&P 15X	WCN.10
SAP TSX	Market/Index	Yahoo ticker				
SAP TSX	S&P TSX	WDO.TO				
S&P TSX	S&P TSX	WFG.TO				
S&P TSX WPM.TO S&P TSX WCP.TO S&P TSX WSP.TO TSE BM.T TSE BM.T TSE BSD.T TSE FY.E.T TSE HW.E.T TSE HW.E.T TSE HW.E.T TSE MAPNAT TSE MAPNAT TSE MSMIT TSE MSMIT TSE NORIT TSE NORIT TSE PAS* TSE PAS* TSE PSA*	S&P TSX	WPRT.TO				
S&P TSX WCPTO S&P TSX WPK.TO S&P TSX YRI.TO TSE BMIT* TSE BMIT* TSE BPAS* TSE BSDR* TSE BTE!* TSE CHML* TSE FKHZ* TSE FOLD* TSE GOIR* TSE GOIG* TSE HWRZ* TSE HWB* TSE IKCO* TSE KSHX* TSE MADN* TSE MADN* TSE MADN* TSE MOBN* TSE MOBN* TSE MONI* TSE NORI* TSE NORI* TSE PAS* TSE PAS* TSE PAS* TSE PNBA* TSE PNBA* TSE PNBA* TSE PNBA* <	S&P TSX	WTE.TO				
S&P TSX	S&P TSX	WPM.TO				
S&P TSX						
S&P TSX						
TSE						
TSE BADR' TSE BSDR' TSE BTEJ' TSE CHML' TSE FKHZ' TSE FOLD' TSE GOLG' TSE GOLG' TSE GOLG' TSE HWEB' TSE HWEB' TSE HWEB' TSE MADN' TSE MAPNA' TSE MAPNA' TSE MAPNA' TSE MOBN' TSE MOSN' TSE MSMI' TSE MOSN' TSE MSNI' TSE MSNI' TSE MSNI' TSE PARS'						
TSE						
TSE						
TSE						
TSE						
TSE						
TSE						
TSE						
TSE						
TSE						
TSE						
TSE KSHX† TSE MADN† TSE MAPNA† TSE MKBT† TSE MOBN† TSE MSMI† TSE MSMI† TSE NORI† TSE NOVN† TSE OIMC† TSE PARS† TSE PARS† TSE PASN† TSE PASN† TSE PIMZ† TSE PIMZ† TSE PIMZ† TSE PIMS† TSE POBA†						
TSE						
TSE						
TSE MKBT† TSE MOBN† TSE MSMI† TSE NORI† TSE NOVN† TSE OIMC† TSE PARS† TSE PARS† TSE PASN† TSE PASN† TSE PJMZ† TSE PKLJ† TSE PNBA†						
TSE MOBN† TSE MSMI† TSE NORI† TSE NOVN† TSE OIMC† TSE PARS† TSE PARS† TSE PASN† TSE PASN† TSE PHLJ† TSE PKLJ† TSE PNBA†						
TSE						
TSE NORI† TSE NOVN† TSE OIMC† TSE PARS† TSE PASN† TSE PIMZ† TSE PIMZ† TSE PKLJ† TSE PNBA† TSE PNBA† TSE PNBA† TSE PNBA† TSE PNES† TSE PTAP† TSE PTEH†						
TSE NOVN† TSE OIMC† TSE PARS† TSE PASN† TSE PJMZ† TSE PJMZ† TSE PKLJ† TSE PNBA† TSE PNBA† TSE PNBA† TSE PNES† TSE PTAP† TSE PTAP† TSE PTEH†						
TSE OIMC† TSE PARS† TSE PASN† TSE PJMZ† TSE PJMZ† TSE PNBA† TSE PNBA† TSE PNBA† TSE PNES† TSE PTAP† TSE PTEH†						
TSE PARS† TSE PASN† TSE PJMZ† TSE PKLJ† TSE PNBA† TSE PNBS† TSE PNES† TSE PTAP† TSE PTEH†						
TSE PASN† TSE PJMZ† TSE PKLJ† TSE PNBA† TSE PNES† TSE PTAP† TSE PTEH†						
TSE PJMZ† TSE PKLJ† TSE PNBA† TSE PNES† TSE PTAP† TSE PTEH†						
TSE PKLJ† TSE PNBA† TSE PNES† TSE PTAP† TSE PTEH†						
TSE PNBA† TSE PNES† TSE PTAP† TSE PTEH†						
TSE PNES† TSE PTAP† TSE PTEH†						
TSE PTAP† TSE PTEH†						
TSE PTEH [†]						
TSE SIPAT	TSE	SIPA†				

[†] Not available on Yahoo Finance.

4. Results of Discussion

The effective transfer entropy was calculated, for each pair of the stocks in a given market/index, along the both directions - $X \rightarrow Y$ and $Y \rightarrow X$. For each state in a given pair, the calculations were attempted over the periods, before and after the COVID-19 outbreak. The selection for the lag orders - k and l- was taken as unity, which is an appropriate choice when analyzing the financial markets [47]. The number of shuffling operations performed was set to one hundred, to ensure efficient removal of bias from the established results. Figures 1 to 26 depict the computed results for the values of the effective transfer entropy for the largest companies (by market capitalization) in the markets considered. With respect to the color interpretation of the results, a more positive number indicates more information transfer (from stock y to stock x) and zero is the case in which no information transfer has been detected, within the considered time span. The results are provided for the both periods, before and after the virus outbreak. In order to maintain the full integrity of this paper, the whole set of computed results for all the companies considered is also being distributed in the supplementary information to this article – including the effective transfer entropy and its corresponding statistical measures (standard error, p-value).

A quick visual inspection of the results should reveal formation of new paradigms in the studied markets, after COVID-19 appearance. For major market participants (Figures 1 to 26), the newly-formed information flow pattern is seen with different levels of integrity across markets/countries. For example, the information flow between equities has risen sharply in the S&P TSX after COVID-19 (Figure 24). This rise in information flow is also the case in BSE, FTSE, JSE, Nikkei, S&P500, and S&P ASX markets. Therefore, the price action of largest equities in these markets has become more sensitive to each other, after COVID-19. The largest shift in the information flow pattern has occurred in BSE market, where the effective transfer entropy was kept minimal before the virus crisis (Figure 1). In other markets, the change in information flow structure after COVID-19 has not been noticeable. This should be the case for CSI, FSE,

KSE, QSE, SASE, and TSE markets. Because the majority of the Asian markets considered herein - CSI, KSE, QSE, SASE, TSE – rely within this category, it can be further deducted that the Asian markets have been relatively insensitive to COVID-19 crisis, with the exception of Nikkei.

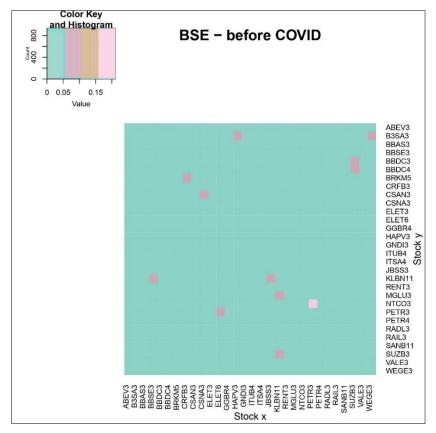


Figure 1. The information flow (effective transfer entropy) from stock y to stock x, for the top companies (by market capitalization) in the BSE market, before the COVID-19 outbreak

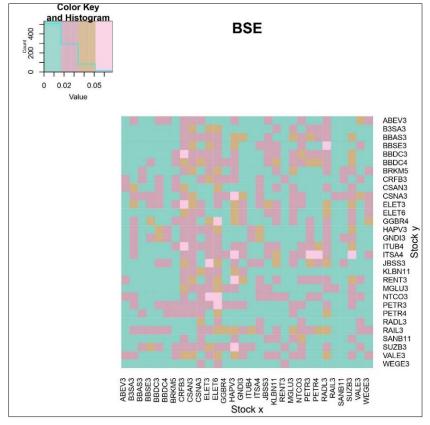


Figure 2. The information flow (effective transfer entropy) from stock y to stock x, for the top companies (by market capitalization) in the BSE market, after the COVID-19 outbreak

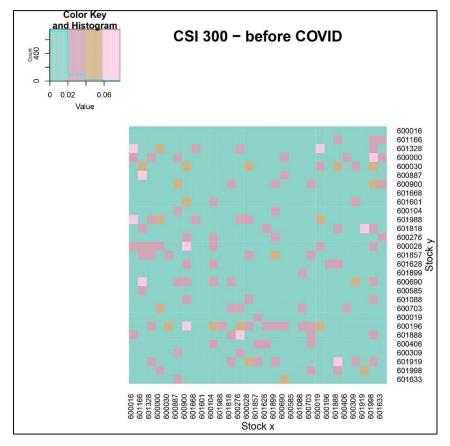


Figure 3. The information flow (effective transfer entropy) from stock y to stock x, for the top companies (by market capitalization) in the CSI market, before the COVID-19 outbreak

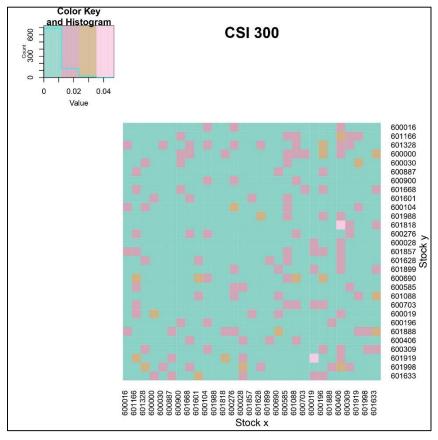


Figure 4. The information flow (effective transfer entropy) from stock y to stock x, for the top companies (by market capitalization) in the CSI market, after the COVID-19 outbreak

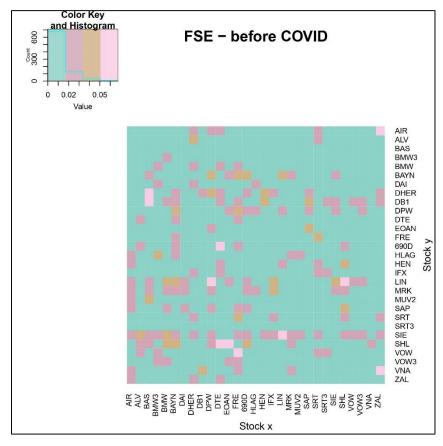


Figure 5. The information flow (effective transfer entropy) from stock y to stock x, for the top companies (by market capitalization) in the FSE market, before the COVID-19 outbreak

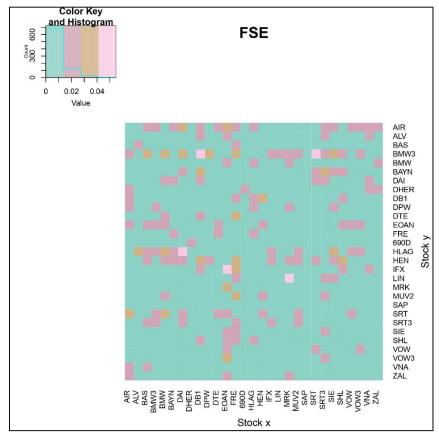


Figure 6. The information flow (effective transfer entropy) from stock y to stock x, for the top companies (by market capitalization) in the FSE market, after the COVID-19 outbreak

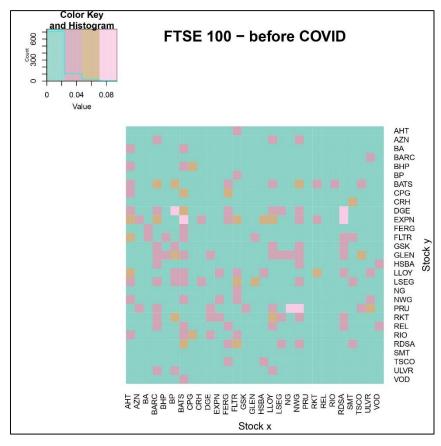


Figure 7. The information flow (effective transfer entropy) from stock y to stock x, for the top companies (by market capitalization) in the FTSE market, before the COVID-19 outbreak

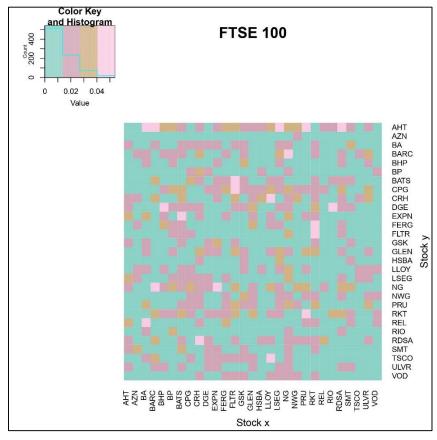


Figure 8. The information flow (effective transfer entropy) from stock y to stock x, for the top companies (by market capitalization) in the FTSE market, after the COVID-19 outbreak

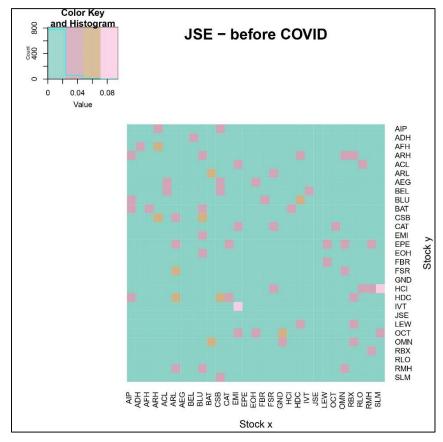


Figure 9. The information flow (effective transfer entropy) from stock y to stock x, for the top companies (by market capitalization) in the JSE market, before the COVID-19 outbreak

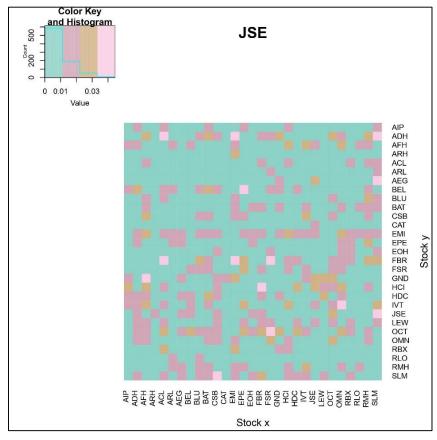


Figure 10. The information flow (effective transfer entropy) from stock y to stock x, for the top companies (by market capitalization) in the JSE market, after the COVID-19 outbreak

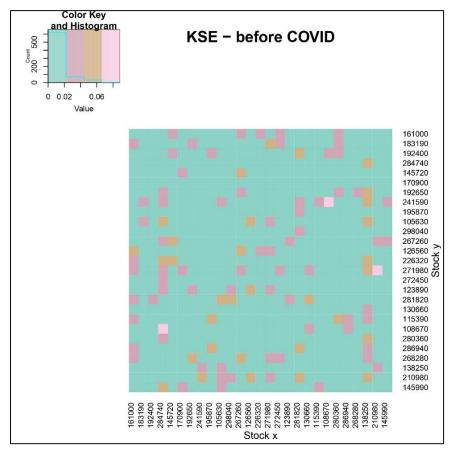


Figure 11. The information flow (effective transfer entropy) from stock y to stock x, for the top companies (by market capitalization) in the KSE market, before the COVID-19 outbreak

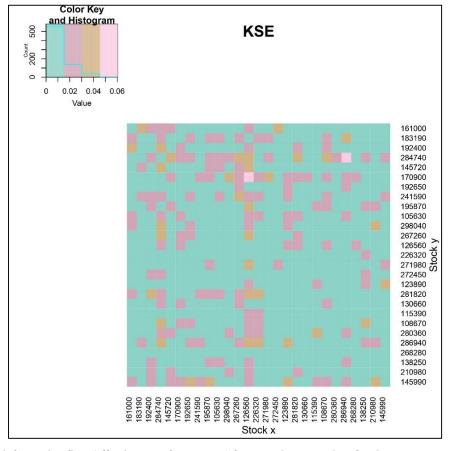


Figure 12. The information flow (effective transfer entropy) from stock y to stock x, for the top companies (by market capitalization) in the KSE market, after the COVID-19 outbreak

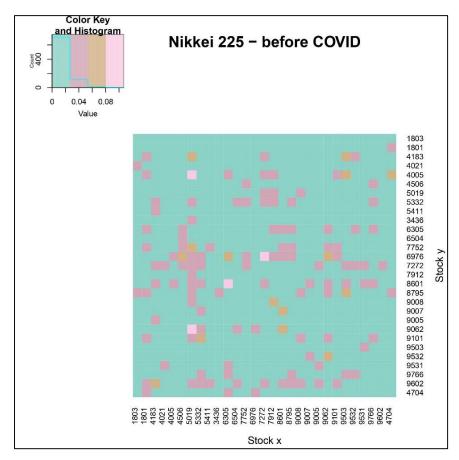


Figure 13. The information flow (effective transfer entropy) from stock y to stock x, for the top companies (by market capitalization) in the Nikkei market, before the COVID-19 outbreak

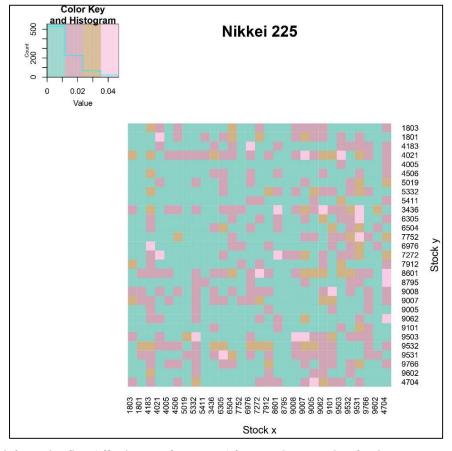


Figure 14. The information flow (effective transfer entropy) from stock y to stock x, for the top companies (by market capitalization) in the Nikkei market, after the COVID-19 outbreak

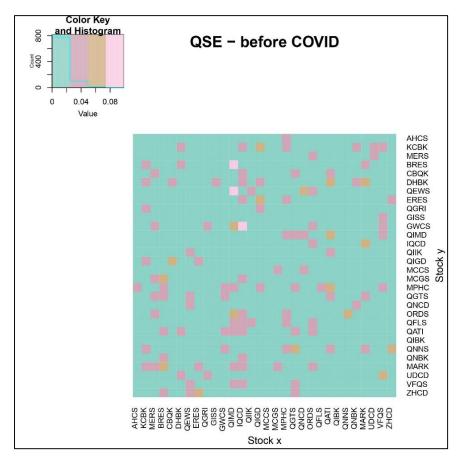


Figure 15. The information flow (effective transfer entropy) from stock y to stock x, for the top companies (by market capitalization) in the QSE market, before the COVID-19 outbreak

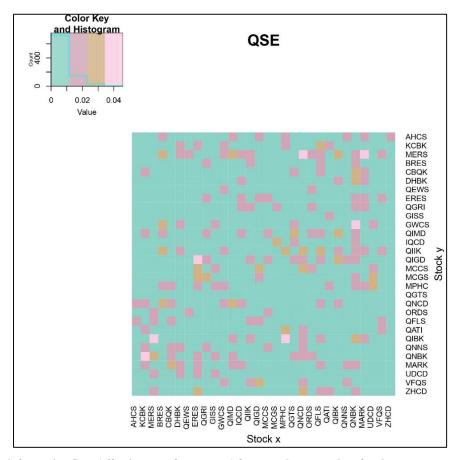


Figure 16. The information flow (effective transfer entropy) from stock y to stock x, for the top companies (by market capitalization) in the QSE market, after the COVID-19 outbreak

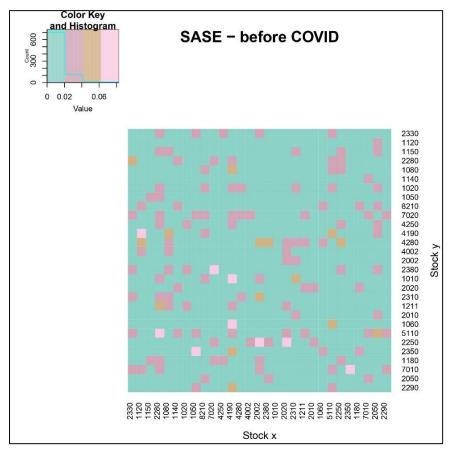


Figure 17. The information flow (effective transfer entropy) from stock y to stock x, for the top companies (by market capitalization) in the SASE market, before the COVID-19 outbreak

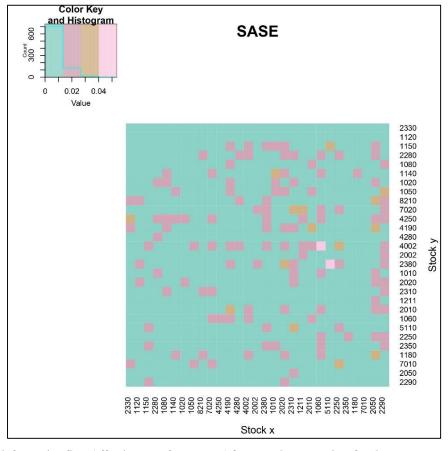


Figure 18. The information flow (effective transfer entropy) from stock y to stock x, for the top companies (by market capitalization) in the SASE market, after the COVID-19 outbreak

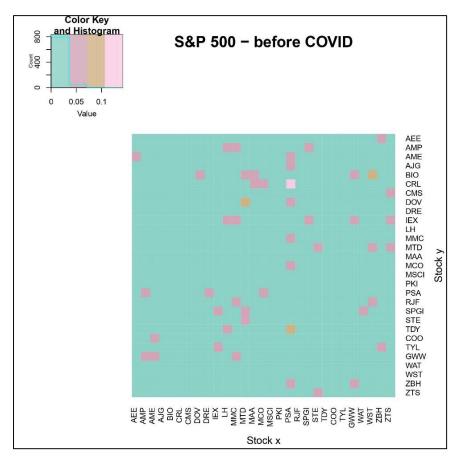


Figure 19. The information flow (effective transfer entropy) from stock y to stock x, for the top companies (by market capitalization) in the S&P500 market, before the COVID-19 outbreak

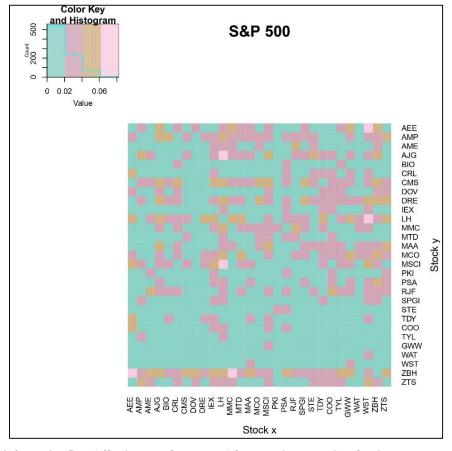


Figure 20. The information flow (effective transfer entropy) from stock y to stock x, for the top companies (by market capitalization) in the S&P500 market, after the COVID-19 outbreak

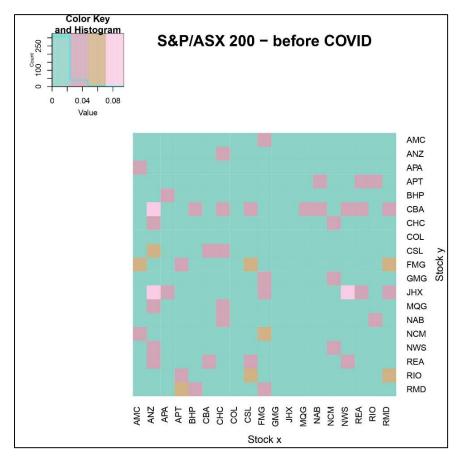


Figure 21. The information flow (effective transfer entropy) from stock y to stock x, for the top companies (by market capitalization) in the S&P ASX market, before the COVID-19 outbreak

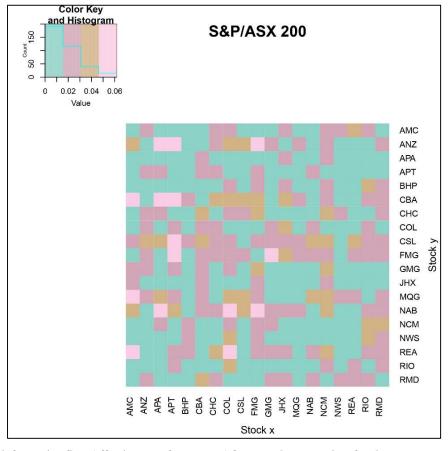


Figure 22. The information flow (effective transfer entropy) from stock y to stock x, for the top companies (by market capitalization) in the S&P ASX market, after the COVID-19 outbreak

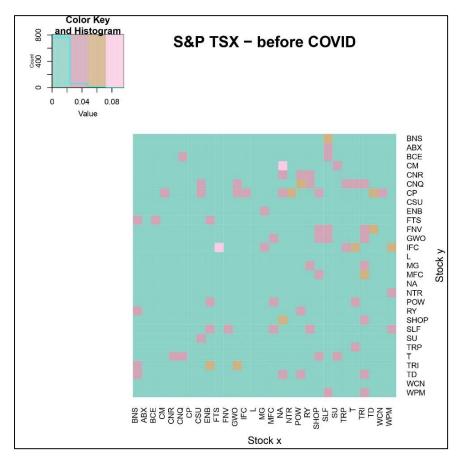


Figure 23. The information flow (effective transfer entropy) from stock y to stock x, for the top companies (by market capitalization) in the S&P TSX market, before the COVID-19 outbreak

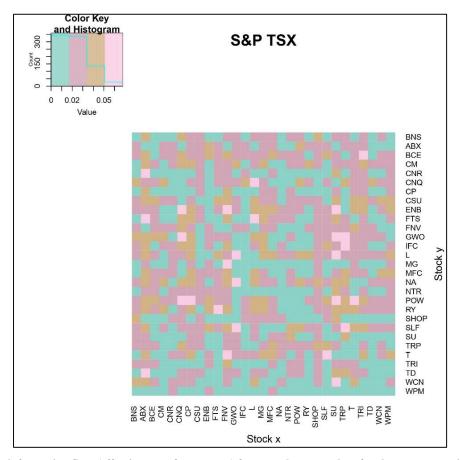


Figure 24. The information flow (effective transfer entropy) from stock y to stock x, for the top companies (by market capitalization) in the S&P SX market, after the COVID-19 outbreak

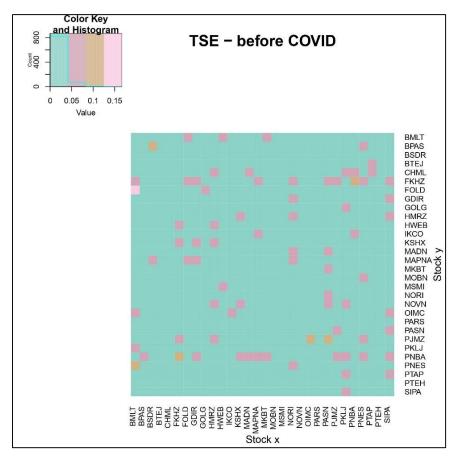


Figure 25. The information flow (effective transfer entropy) from stock y to stock x, for the top companies (by market capitalization) in the TSE market, before the COVID-19 outbreak

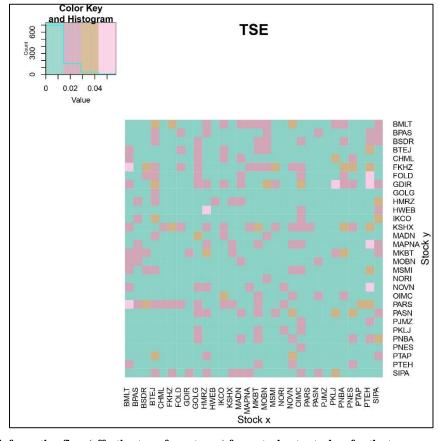


Figure 26. The information flow (effective transfer entropy) from stock y to stock x, for the top companies (by market capitalization) in the TSE market, after the COVID-19 outbreak

As part of our analysis in the present paper, we have also studied the change in market functionality after COVID-19, on a sector level. For a selected sector in a given market, the (average) information inflow/outflow was determined by summing the effective transfer entropy inflow/outflow of the stocks in that sector and dividing the result by the number of stocks involved. The net information outflow, ΔF , was taken as the difference between the average information outflow and the average information inflow. A sector is then interpreted as being an information transmitter (receiver) if the net information outflow is positive (negative). Tables 2 to 15 lists the computed net information outflow for the sectors within the markets considered. For the TSE market, only the top 30 companies by market capitalization were studied. Therefore, the listed sectors in Tables 14 to 15 merely correspond to the sectors of the selected TSE stocks.

Table 2. The net information outflow for the sectors in BSE market, before and after COVID-19 outbreak

Sector	ΔF_{before}	ΔF_{after}
Consumer Defensive	0.0011	-0.0186
Industrials	0.0088	0.0069
Financial Services	0.0178	0.0101
Real Estate	0.0051	-0.0217
Basic Materials	0.0172	0.0310
Consumer	-0.0047	0.0135
Utilities	-0.0274	0.0202
Consumer Cyclical	-0.0258	0.0109
Technology	0.0038	-0.0117
Energy	0.0118	-0.0129
Healthcare	-0.0080	-0.0280

Table 3. The net information outflow for the sectors in CSI market, before and after COVID-19 outbreak

Sector	ΔF_{before}	ΔF_{after}
Financial Services	0.0640	0.0371
Financial	0.0147	-0.0018
Consumer	0.0045	-0.0118
Consumer Defensive	0.0028	0.0010
Utilities	-0.0351	-0.0087
Industrials	-0.0517	-0.0133
Consumer Cyclical	-0.0031	0.0085
Real Estate	0.0090	0.0012
Healthcare	0.0440	-0.0082
Energy	-0.0159	0.0049
Communication Services	-0.0049	-0.0013
Basic Materials	-0.0337	-0.0029
Technology	0.0043	-0.0024
Communication	0.0007	-0.0032

Table 4. The net information outflow for the sectors in FSE market, before and after COVID-19 outbreak

Sector	ΔF_{before}	ΔF_{after}
Communication	-0.0077	-0.0019
Healthcare	-0.0163	-0.0044
Industrials	0.0269	0.0356
Financial	0.0125	0.0019
Real estate	-0.0036	0.0029
Consumer	0.0007	0.0196
Services	-0.0021	0.0022
Technology	-0.0403	-0.0356
Financial Services	0.0030	-0.0036
Real Estate	0.0021	-0.0053
Utilities	0.0120	-0.0201
Energy	0.0017	0.0056
Consumer Defensive	-0.0003	0.0038
Basic Materials	0.0077	-0.0027
Consumer Cyclical	0.0036	0.0019

Table 5. The net information outflow for the sectors in FTSE market, before and after COVID-19 outbreak

Sector	ΔF_{before}	ΔF_{after}
Financial	0.0160	0.0149
Financial Services	-0.0279	0.0123
Basic Materials	0.0351	-0.0178
Industrials	0.0334	0.0119
Consumer Defensive	-0.0202	-0.0335
Healthcare	0.0127	-0.0089
Communication Services	-0.0089	0.0096
Technology	0.0042	0.0046
Consumer	0.0051	0.0167
Consumer Cyclical	-0.0250	0.0184
Energy	-0.0025	-0.0116
Real Estate	-0.0066	-0.0022
Communication	0.0064	0.0010
Real	-0.0087	-0.0005
Utilities	-0.0131	-0.0149

Table 6. The net information outflow for the sectors in JSE market, before and after COVID-19 outbreak

Sector	ΔF_{before}	ΔF_{after}
Real Estate	-0.0033	0.0050
Industrials	0.0049	-0.0010
Healthcare	0.0047	-0.0048
Consumer Defensive	-0.0059	0.0043
Basic Materials	0.0094	-0.0035
Consumer Cyclical	-0.0014	0.0051
Financial Services	0.0075	-0.0120
Communication Services	-0.0035	0.0019
Technology	-0.0043	0.0000
Energy	-0.0089	0.0054
Financial	0.0010	-0.0005

Table 7. The net information outflow for the sectors in KSE market, before and after COVID-19 outbreak

Sector	ΔF_{before}	ΔF_{after}
Financial Services	0.0113	-0.0139
Real Estate	-0.0315	0.0015
Industrials	0.0510	-0.0112
Basic Materials	0.0209	0.0072
Technology	-0.0222	0.0068
Consumer Defensive	0.0031	0.0213
Communication Services	-0.0195	-0.0211
Consumer Cyclical	0.0042	0.0129
Healthcare	-0.0284	-0.0017
Utilities	0.0053	-0.0014
Energy	0.0049	0.0010
Consumer	0.0008	-0.0013

Table 8. The net information outflow for the sectors in Nikkei market, before and after COVID-19 outbreak

Sector	ΔF_{before}	ΔF_{after}
Consumer Defensive	-0.0432	-0.0144
Energy	-0.0287	0.0107
Industrials	0.0822	-0.0453
Consumer Cyclical	0.0021	0.0338
Consumer	0.0115	0.0013
Basic Materials	-0.0128	-0.0412
Healthcare	0.0203	-0.0452
Technology	-0.0482	0.0153
Financial Services	0.0201	0.0754
Real Estate	0.0019	0.0134
Communication Services	0.0082	-0.0040
Utilities	-0.0135	0.0000

Table 9. The net information outflow for the sectors in QSE market, before and after COVID-19 outbreak

Sector	ΔF_{before}	ΔF_{after}
Industrials	0.0044	0.0050
Financial Services	0.0115	-0.0114
Financial	0.0087	0.0006
Consumer	-0.0058	0.0055
Real Estate	-0.0134	0.0111
Communication Services	-0.0075	0.0020
Utilities	0.0010	0.0013
Energy	0.0078	-0.0024
Basic Materials	-0.0120	-0.0017
Technology	-0.0004	0.0023
Healthcare	0.0025	0.0037
Consumer Defensive	0.0029	0.0056

Table 10. The net information outflow for the sectors in SASE market, before and after COVID-19 outbreak

Sector	ΔF_{before}	ΔF_{after}
Consumer Cyclical	-0.0041	-0.0063
Consumer	-0.0347	0.0043
Basic Materials	-0.0322	0.0041
Financial Services	0.0257	0.0153
Industrials	0.0125	0.0129
Consumer Defensive	0.0103	-0.0251
Healthcare	-0.0071	-0.0148
Technology	0.0034	0.0032
Real Estate	0.0069	0.0178
Financial	0.0064	-0.0044
Utilities	0.0025	0.0014
Energy	0.0037	-0.0022
Communication Services	0.0135	-0.0075

Table 11. The net information outflow for the sectors in S&P ASX market, before and after COVID-19 outbreak

Sector	ΔF_{before}	ΔF_{after}
Basic Materials	0.0223	-0.0384
Real Estate	-0.0051	0.0071
Utilities	-0.0085	-0.0107
Industrials	0.0000	0.0380
Energy	0.0032	-0.0142
Communication Services	-0.0171	0.0234
Technology	0.0025	-0.0439
Consumer	-0.0053	-0.0117
Financial Services	-0.0015	0.0673
Healthcare	-0.0039	-0.0004
Financial	-0.0013	0.0085
Consumer Defensive	0.0023	-0.0309
Consumer Cyclical	0.0072	-0.0041
Communication	0.0050	0.0100

Table 12. The net information outflow for the sectors in S&P TSX market, before and after COVID-19 outbreak

Sector	ΔF_{before}	ΔF_{after}
Industrials	-0.0075	-0.0375
Basic Materials	0.0491	-0.1198
Utilities	-0.0130	0.0469
Real Estate	0.0033	-0.0058
Energy	0.0128	0.0388
Consumer Cyclical	-0.0117	0.0026
Healthcare	-0.0237	0.0019
Financial	-0.0063	0.0429
Financial Services	0.0065	0.0517
Communication Services	-0.0001	0.0094
Technology	0.0021	-0.0088
Consumer	-0.0034	-0.0452
Consumer Defensive	-0.0079	0.0227

Table 13. The net information outflow for the sectors in S&P500 market, before and after COVID-19 outbreak

Sector	ΔF_{before}	ΔF_{after}
Industrials	0.0253	-0.0264
Healthcare	-0.0523	-0.1065
Technology	0.1219	-0.1095
Communication	-0.0427	-0.0493
Consumer Defensive	0.0067	-0.0128
Consumer	0.0113	-0.1580
Utilities	-0.1425	0.1679
Financial	0.0339	0.2045
Basic Materials	0.0377	-0.0140
Real Estate	-0.0484	0.1100
Financial Services	0.0115	0.0464
Energy	0.0368	-0.0618
Consumer Cyclical	-0.0099	0.0123
Communication Services	0.0106	-0.0026

Table 14. The net information outflow for the sectors in TSE market, before and after COVID-19 outbreak – evaluated through the symbolic coding scheme of Equation 8

Sector	ΔF_{before}	ΔF_{after}
Banking	-0.0006	-0.0067
Basic Materials	0.0351	-0.0013
Steel	0.0177	0.0134
Mining	-0.0161	0.0057
Telecommunications	-0.0067	-0.0067
Information Technology	0.0038	0.0030
Auto	-0.0166	-0.0037
Marine transportation	-0.0025	0.0089
Engineering	0.0080	-0.0019
Electricity	0.0059	-0.0042
Energy	0.0025	-0.0069
Chemicals	-0.0305	0.0006

Table 15. The net information outflow for the sectors in TSE market, before and after COVID-19 outbreak – evaluated through the symbolic coding scheme of Equation 9

Sector	ΔF_{before}	ΔF_{after}
Banking	-0.3530	0.3549
Basic Materials	0.0172	0.1251
Steel	-0.2723	0.3355
Mining	0.2811	0.1992
Telecommunications	-0.2774	-0.2168
Information Technology	0.0659	-0.6752
Auto	0.0087	-0.0420
Marine transportation	-0.3116	-0.1363
Engineering	0.0937	-0.0047
Electricity	0.0621	-0.1046
Energy	0.4894	0.1138
Chemicals	0.1960	0.0510

In general, the results indicate a large number of shifts to have occurred in the status of sectors – in terms of being a receiver or transmitter of information - after COVID-19 in the studied markets. This change in sector functionality – shifting from an information transmitter to receiver, or vice versa– can provide valuable information on the general price action.

Based on our results, the highest number of shifts in sector functionality has been encountered in JSE, S&P500, S&P ASX, and S&P TSX markets. In South Africa, for instance, the sector functionality of over 90% of JSE sectors has altered after COVID-19 – suggesting a complete re-shaping of its underlying information transmission network. In other words, the sectors which used to influence others, now tend to be influenced, and the reverse exists. The fraction of sectors changing functionality has also been high in the Australian and North American markets – 73% (S&P ASX), 71% (S&P TSX), and 68% (S&P500). The European markets have been more stable, in this regards. For the markets in Germany and the U.K., less than half of the sectors have changed functionality after COVID-19 – 43% (FSE), and 37% (FTSE). Since FTSE was earlier found with a large change in its information flow pattern (Figure 8), the fairly low number of changes in the status of its sectors should mean that the conceived post-COVID changes are mainly caused by an alteration in the intensity (and not the direction) of information flow between equities, in that market. For the market in Brazil, the situation resembles its North American counterparts – 58% (BSE). The fraction of sectors changing functionality has been at/below the middle for the markets in Iran, Japan, Qatar, Saudi Arabia and South Korea – 50% (TSE), 50% (Nikkei), 42% (QSE), 35% (SASE), 46% (KSE). For China, this fraction is slightly above the average -53% (CSI). Following the same analogy put forth for the FTSE market in the above, it can be concluded that the changes in CSI market after COVID-19, are mainly due to changes in the direction of information flow between equities, in that market. In other words, the intensity of effective transfer entropy has remained mostly unchanged after virus crisis, in the CSI market (Figure 4).

With respect to the performance of industries after COVID-19, the response of the markets are varied. The financial services, real states, utilities, and consumer cyclical sectors are generally found in the transmitter status in these markets. The financial services sector, for example, has maintained it influencing role after COVID-19 outbreak, in 9 out of 13 markets studied – with the exception of FSE, KSE, QSE and TSE. The healthcare sector is found as being an information

receiver in the majority of markets – except QSE, and S&P TSX – after COVID-19. For some sectors – such as the Industrials – the situation has been mixed; as it has functioned both as an information transmitter and an information receiver, in relatively equal number of markets studied, after COVID-19. The real estate sector seems to be the most influencing sector in some Asian markets; such as Qatar and Saudi Arabia, which has presumably received the least impacts from COVID-19.

In the period after COVID-19 outbreak, the pattern of markets has posed different sectors as their leading (most-influencing) ones. Based on our results, this updated list is not unanimous. Tables 16 to 19 list the names of the main information transmitter (receiver) sectors, for pre/after-COVID periods, in the markets studied. The names of the sectors is based on the names, which were attributed by the Yahoo Finance. The tables includes two entries for the TSE market, the second of which relates to the case when the effective transfer entropy is evaluated through the detailed encoding system - Equation 9.

Table 16. The main information transmitter sectors, before COVID-19

Market/Index	Sector
BSE	Financial Services
CSI	Financial Services
FSE	Industrials
FTSE	Basic Materials
JSE	Basic Materials
KSE	Industrials
Nikkei	Industrials
QSE	Financial Services
SASE	Industrials
S&P ASX	Basic Materials
S&P TSX	Basic Materials
S&P500	Technology
TSE	Banking
TSE*	Energy

^{*}Evaluated through Equation 9

Table 17. The main information receiver sectors, before COVID-19

Market/Index	Sector
BSE	Consumer Cyclical
CSI	Industrials
FSE	Technology
FTSE	Financial Services
JSE	Energy
KSE	Real Estate
Nikkei	Technology
QSE	Basic Materials
SASE	Consumer
S&P ASX	Communication Services
S&P TSX	Healthcare
S&P500	Utilities
TSE	Chemicals
TSE*	Banking

^{*} Evaluated through Equation 9

Table 18. The main information transmitter sectors, after COVID-19

Market/Index	Sector
BSE	Basic Materials
CSI	Financial Services
FSE	Industrials
FTSE	Consumer Cyclical
JSE	Energy
KSE	Consumer Defensive
Nikkei	Financial Services
QSE	Real Estate
SASE	Real Estate
S&P ASX	Financial Services
S&P TSX	Financial Services
S&P500	Financial
TSE	Steel
TSE*	Banking

^{*} Evaluated through Equation 9

Table 19. The main information receiver sectors, after COVID-19

Market/Index	Sector
BSE	Healthcare
CSI	Industrials
FSE	Technology
FTSE	Consumer Defensive
JSE	Financial Services
KSE	Communication Services
Nikkei	Industrials
QSE	Financial Services
SASE	Consumer Defensive
S&P ASX	Technology
S&P TSX	Basic Materials
S&P500	Consumer
TSE	Energy
TSE*	Information Technology
	•

^{*} Evaluated through Equation 9

The basic materials, communications, energy, and utilities sectors seem to have an intermediate position in the information flow diagram in most of the markets studied after COVID-19. Based on our results, the German market – FSE-seems to be the only market where no change has occurred as for its main information transmitter/receiver sectors after the COVID-19 outbreak. As mentioned earlier, the results presented this far have been obtained using the prevalent encoding system—based on 5% and 95% quantiles of data—for its evaluation of probability (Equation 8). The sensitivity of results towards this choice was investigated for the case of the TSE market by evaluating the effective transfer entropy through a more detailed encoding system (Equation 9). As one may notice, the results tend to be sensitive to this choice, as the computed effective transfer entropy values and the resultant sector behavior might differ from the earlier choice. Since the bulk of literature adopts a similar encoding system (Equation 8) in their analysis, the results presented herein should form the basis for later comparison. Nevertheless, further investigations are suggested to analyze the issue on the premise of a more detailed encoding system.

5. Conclusion

The paradigm of information flow has undergone changes since COVID-19's appearance in several global equity markets, albeit at different levels. The analysis of this interaction pattern for the largest market participants (by market capitalization) shows that the most changes have occurred in the BSE, Nikkei, S&P500, S&P ASX, and S&P TSX markets. In this respect, the Asian markets—CSI, KSE, QSE, SASE, TSE—have been more robust to the COVID-19 issue, exhibiting few changes in their information transfer paradigm. On the sector level, the COVID-19 pandemic has been concurrent with drastic changes in the functionality of sectors in the studied markets. The fraction of sectors changing functionality has exceeded 70% in the JSE, S&P500, S&P ASX, and S&P TSX markets—indicating that the influencing role of the majority of sectors in these markets has reversed completely since COVID-19's appearance. The financial services sector has maintained its influential role in 9 out of 13 markets studied after the COVID-19 pandemic. The main information transmitter and receiver sectors have changed since COVID-19 in the studied markets, except for the FSE market, where they have remained unchanged. The results of the effective transfer entropy are found to be sensitive to the choice of the encoding system for its probability evaluation, necessitating further studies in that respect. The findings of this paper – distributing the information flow of nearly 2200 companies worldwide – should be valuable for market participants in devising recovery action plans for vulnerable sectors or efficiently managing portfolio diversifications. In essence, our results indicate substantial changes to global equity markets—with respect to the price action between equities and their resultant sector functionalities—which have been concurrent with the outbreak of the COVID-19 virus.

6. Declarations

6.1. Author Contributions

All authors have equally contributed towards Conceptualization, methodology, formal analysis, investigation, resources, writing—original draft preparation, writing—review and editing, visualization. All authors have read and agreed to the published version of the manuscript.

6.2. Data Availability Statement

The data presented in this study are available in the article.

6.3. Funding

The authors received no financial support for the research, authorship, and/or publication of this article.

6.4. Declaration of Competing Interest

The authors declare that there is no conflict of interests regarding the publication of this manuscript. In addition, the ethical issues, including plagiarism, informed consent, misconduct, data fabrication and/or falsification, double publication and/or submission, and redundancies have been completely observed by the authors.

7. References

- [1] Villani, L., Pastorino, R., Molinari, E., Anelli, F., Ricciardi, W., Graffigna, G., & Boccia, S. (2021). Impact of the COVID-19 pandemic on psychological well-being of students in an Italian university: a web-based cross-sectional survey. Globalization and Health, 17(1). doi:10.1186/s12992-021-00680-w.
- [2] Rume, T., & Islam, S. M. D. U. (2020). Environmental effects of COVID-19 pandemic and potential strategies of sustainability. Heliyon, 6(9). doi:10.1016/j.heliyon.2020.e04965.
- [3] Chaturvedi, K., Vishwakarma, D. K., & Singh, N. (2021). COVID-19 and its impact on education, social life and mental health of students: A survey. Children and Youth Services Review, 121. doi:10.1016/j.childyouth.2020.105866.
- [4] Bahi, R. (2021). The geopolitics of COVID-19: US-China rivalry and the imminent Kindleberger trap. Review of Economics and Political Science, 6(1), 76–94. doi:10.1108/reps-10-2020-0153.
- [5] Rizwan, M. S., Ahmad, G., & Ashraf, D. (2020). Systemic risk: The impact of COVID-19. Finance Research Letters, 36. doi:10.1016/j.frl.2020.101682.
- [6] Li, X., Xie, Y., & Lin, J. H. (2021). COVID-19 outbreak, government capital injections, and shadow banking efficiency. Applied Economics, 53(4), 495–505. doi:10.1080/00036846.2020.1808183.
- [7] Ghosh, R., & Saima, F. N. (2021). Resilience of commercial banks of Bangladesh to the shocks caused by COVID-19 pandemic: an application of MCDM-based approaches. Asian Journal of Accounting Research, 6(3), 281–295. doi:10.1108/AJAR-10-2020-0102
- [8] Korzeb, Z., & Niedziółka, P. (2020). Resistance of commercial banks to the crisis caused by the COVID-19 pandemic: the case of Poland. Equilibrium, 15(2), 205–234. doi:10.24136/eq.2020.010.

- [9] Marcu, M. R. (2021). The Impact of the COVID-19 Pandemic on the Banking Sector. Management Dynamics in the Knowledge Economy, 9(2), 9(2), 205–223. doi:10.2478/mdke-2021-0013.
- [10] Conlon, T., & McGee, R. (2020). Safe haven or risky hazard? Bitcoin during the Covid-19 bear market. Finance Research Letters, 35. doi:10.1016/j.frl.2020.101607.
- [11] Caferra, R., & Vidal-Tomás, D. (2021). Who raised from the abyss? A comparison between cryptocurrency and stock market dynamics during the COVID-19 pandemic. Finance Research Letters, 101054. doi:10.1016/j.frl.2021.101954.
- [12] Iqbal, N., Fareed, Z., Wan, G., & Shahzad, F. (2021). Asymmetric nexus between COVID-19 outbreak in the world and cryptocurrency market. International Review of Financial Analysis, 73, 101613. doi:10.1016/j.irfa.2020.101613.
- [13] Corbet, S., Larkin, C., & Lucey, B. (2020). The contagion effects of the COVID-19 pandemic: Evidence from gold and cryptocurrencies. Finance Research Letters, 35. doi:10.1016/j.frl.2020.101554.
- [14] Mariana, C. D., Ekaputra, I. A., & Husodo, Z. A. (2021). Are Bitcoin and Ethereum safe-havens for stocks during the COVID-19 pandemic? Finance Research Letters, 38. doi:10.1016/j.frl.2020.101798.
- [15] Montasser, G. El, Charfeddine, L., & Benhamed, A. (2021). COVID-19, cryptocurrencies bubbles and digital market efficiency: sensitivity and similarity analysis. Finance Research Letters, 102362. doi:10.1016/j.frl.2021.102362.
- [16] Nguyen, K. Q. (2021). The correlation between the stock market and Bitcoin during COVID-19 and other uncertainty periods. Finance Research Letters, 102284. doi:10.1016/j.frl.2021.102284.
- [17] Umar, Z., & Gubareva, M. (2020). A time–frequency analysis of the impact of the Covid-19 induced panic on the volatility of currency and cryptocurrency markets. Journal of Behavioral and Experimental Finance, 28, 100404. doi:10.1016/j.jbef.2020.100404.
- [18] Xu, Y., & Lien, D. (2021). COVID-19 and currency dependences: Empirical evidence from BRICS. Finance Research Letters, 102119. doi:10.1016/j.frl.2021.102119.
- [19] Richter, A., & Wilson, T. C. (2020). Covid-19: implications for insurer risk management and the insurability of pandemic risk. GENEVA Risk and Insurance Review, 45(2), 171–199. doi:10.1057/s10713-020-00054-z.
- [20] Ito, T. (2020). Impact of the coronavirus pandemic crisis on the financial system in the eurozone. Journal of Corporate Accounting & Finance, 31(4), 15–20. doi:10.1002/jcaf.22466.
- [21] Janus, J. (2021). The COVID-19 shock and long-term interest rates in emerging market economies. Finance Research Letters, 101976. doi:10.1016/j.frl.2021.101976.
- [22] Harjoto, M. A., Rossi, F., Lee, R., & Sergi, B. S. (2021). How do equity markets react to COVID-19? Evidence from emerging and developed countries. Journal of Economics and Business, 115. doi:10.1016/j.jeconbus.2020.105966.
- [23] Zhang, D., Hu, M., & Ji, Q. (2020). Financial markets under the global pandemic of COVID-19. Finance Research Letters, 36. doi:10.1016/j.frl.2020.101528.
- [24] Singh, A. (2020). COVID-19 and safer investment bets. Finance Research Letters, 36. doi:10.1016/j.frl.2020.101729.
- [25] Baig, A. S., & Chen, M. (2021). Did the COVID-19 pandemic (really) positively impact the IPO Market? An Analysis of information uncertainty. Finance Research Letters, 102372. doi:10.1016/j.frl.2021.102372.
- [26] Jebabli, I., Kouaissah, N., & Arouri, M. (2021). Volatility Spillovers between Stock and Energy Markets during Crises: A Comparative Assessment between the 2008 Global Financial Crisis and the Covid-19 Pandemic Crisis. Finance Research Letters, 102363. doi:10.1016/j.frl.2021.102363.
- [27] Yu, X., Xiao, K., & Liu, J. (2021). Dynamic co-movements of COVID-19 pandemic anxieties and stock market returns. Finance Research Letters, 102219. doi:10.1016/j.frl.2021.102219.
- [28] Xu, L. (2021). Stock Return and the COVID-19 pandemic: Evidence from Canada and the US. Finance Research Letters, 38. doi:10.1016/j.frl.2020.101872.
- [29] Fry-McKibbin, R., Greenwood-Nimmo, M., Hsiao, C. Y. L., & Qi, L. (2021). Higher-order comoment contagion among G20 equity markets during the COVID-19 pandemic. Finance Research Letters, 102150. doi:10.1016/j.frl.2021.102150.
- [30] Amar, A. Ben, Belaid, F., Youssef, A. Ben, Chiao, B., & Guesmi, K. (2021). The unprecedented reaction of equity and commodity markets to COVID-19. Finance Research Letters, 38. doi:10.1016/j.frl.2020.101853.
- [31] Benlagha, N., & Omari, S. El. (2021). Connectedness of stock markets with gold and oil: New evidence from COVID-19 pandemic. Finance Research Letters, 102373. doi:10.1016/j.frl.2021.102373.
- [32] Bakry, W., Kavalmthara, P. J., Saverimuttu, V., Liu, Y., & Cyril, S. (2021). Response of stock market volatility to COVID-19 announcements and stringency measures: A comparison of developed and emerging markets. Finance Research Letters, 102350. doi:10.1016/j.frl.2021.102350.

- [33] Liu, Y., Wei, Y., Wang, Q., & Liu, Y. (2021). International stock market risk contagion during the COVID-19 pandemic. Finance Research Letters, 102145. doi:10.1016/j.frl.2021.102145.
- [34] Szczygielski, J. J., Bwanya, P. R., Charteris, A., & Brzeszczyński, J. (2021). The only certainty is uncertainty: An analysis of the impact of COVID-19 uncertainty on regional stock markets. Finance Research Letters, 101945. doi:10.1016/j.frl.2021.101945.
- [35] Yarovaya, L., Elsayed, A. H., & Hammoudeh, S. (2021). Determinants of Spillovers between Islamic and Conventional Financial Markets: Exploring the Safe Haven Assets during the COVID-19 Pandemic. Finance Research Letters, 101979. doi:10.1016/j.frl.2021.101979.
- [36] Carter, D., Mazumder, S., Simkins, B., & Sisneros, E. (2021). The stock price reaction of the COVID-19 pandemic on the airline, hotel, and tourism industries. Finance Research Letters, 102047. doi:10.1016/j.frl.2021.102047.
- [37] Buszko, M., Orzeszko, W., & Stawarz, M. (2021). COVID-19 pandemic and stability of stock market-A sectoral approach. PLoS ONE, 16(5 May), 250938. doi:10.1371/journal.pone.0250938.
- [38] He, P., Sun, Y., Zhang, Y., & Li, T. (2020). COVID–19's Impact on Stock Prices across Different Sectors—An Event Study Based on the Chinese Stock Market. Emerging Markets Finance and Trade, 56(10), 2198–2212. doi:10.1080/1540496X.2020.1785865.
- [39] Sayed, O. A., & Eledum, H. (2021). The short-run response of Saudi Arabia stock market to the outbreak of COVID-19 pandemic: An event-study methodology. International Journal of Finance and Economics, 1–15. doi:10.1002/ijfe.2539.
- [40] Alam, M. M., Wei, H., & Wahid, A. N. M. (2021). COVID-19 outbreak and sectoral performance of the Australian stock market: An event study analysis. Australian Economic Papers, 60(3), 482–495. doi:10.1111/1467-8454.12215.
- [41] Zoungrana, T. D., Toé, D. L. tan, & Toé, M. (2021). Covid-19 outbreak and stocks return on the West African Economic and Monetary Union's stock market: An empirical analysis of the relationship through the event study approach. International Journal of Finance and Economics. doi:10.1002/ijfe.2484.
- [42] Bissoondoyal-Bheenick, E., Do, H., Hu, X., & Zhong, A. (2021). Learning from SARS: Return and volatility connectedness in COVID-19. Finance Research Letters, 41. doi:10.1016/j.frl.2020.101796.
- [43] Castillo, B., León, Á., & Ñíguez, T. M. (2021). Backtesting VaR under the COVID-19 sudden changes in volatility. Finance Research Letters, 102024. doi:10.1016/j.frl.2021.102024.
- [44] Engelhardt, N., Krause, M., Neukirchen, D., & Posch, P. N. (2021). Trust and stock market volatility during the COVID-19 crisis. Finance Research Letters, 38. doi:10.1016/j.frl.2020.101873.
- [45] Salman, A., & Ali, Q. (2021). Covid-19 and its impact on the stock market in GCC. Journal of Sustainable Finance and Investment. doi:10.1080/20430795.2021.1944036.
- [46] Bannigidadmath, D., Narayan, P. K., Phan, D. H. B., & Gong, Q. (2021). How stock markets reacted to COVID-19? Evidence from 25 countries. Finance Research Letters, 102161. doi:10.1016/j.frl.2021.102161.
- [47] Osei, P. M., & Adam, A. M. (2020). Quantifying the Information Flow between Ghana Stock Market Index and Its Constituents Using Transfer Entropy. Mathematical Problems in Engineering, 2020. doi:10.1155/2020/6183421.
- [48] Schreiber, T. (2000). Measuring information transfer. Physical Review Letters, 85(2), 461–464. doi:10.1103/PhysRevLett.85.461.
- [49] Kwon, O., & Oh, G. (2012). Asymmetric information flow between market index and individual stocks in several stock markets. Epl, 97(2), 28007. doi:10.1209/0295-5075/97/28007.
- [50] Kwon, O., & Yang, J. S. (2008). Information flow between composite stock index and individual stocks. Physica A: Statistical Mechanics and Its Applications, 387(12), 2851–2856. doi:10.1016/j.physa.2008.01.007.
- [51] Dimpfl, T., & Peter, F. J. (2013). Using transfer entropy to measure information flows between financial markets. Studies in Nonlinear Dynamics and Econometrics, 17(1), 85–102. doi:10.1515/snde-2012-0044.
- [52] Marschinski, R., & Kantz, H. (2002). Analysing the information flow between financial time series. The European Physical Journal B, 30(2), 275–281. doi:10.1140/epjb/e2002-00379-2.
- [53] Oh, G., Oh, T., Kim, H., & Kwon, O. (2014). An information flow among industry sectors in the Korean stock market. Journal of the Korean Physical Society, 65(12), 2140–2146. doi:10.3938/jkps.65.2140.
- [54] Yao, C. Z., & Li, H. Y. (2020). Effective Transfer Entropy Approach to Information Flow among EPU, Investor Sentiment and Stock Market. Frontiers in Physics, 8. doi:10.3389/fphy.2020.00206.
- [55] Liu, A., Chen, J., Yang, S. Y., & Hawkes, A. G. (2020). The flow of information in trading: An entropy approach to market regimes. Entropy, 22(9), 1064. doi:10.3390/E22091064.
- [56] Lahmiri, S., & Bekiros, S. (2020). Renyi entropy and mutual information measurement of market expectations and investor fear during the COVID-19 pandemic. Chaos, Solitons and Fractals, 139, 110084. doi:10.1016/j.chaos.2020.110084.