

## Equity Closing Prices Used for Index Calculation

### Morningstar Indexes

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### For Information Contact

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All close times are in local time, unless otherwise noted. Morningstar reserves the right to use an alternative pricing source, if necessary. For indexes calculated in real-time, the last trade price intraday is used. For exchange closures and holidays, the prior day's closing value will be used.

In the event of a U.S. exchange interruption where an opening price is unavailable, the "Consolidated Tape" will be used. If this is not available, the previous closing price will be used. In addition, real time calculations will switch to a "Composition Tape" for all impacted securities. If the interruption is not resolved by market close, the closing prices list provided by the exchange will be used. If a closing prices list is not provided, the last trade on the "Composition Tape" for the respective security will be used.

In the event a non-U.S. exchange faces an interruption, real-time calculations will cease until a confirmation is received from the exchange that activities have resumed. If the interruption is not resolved by market close, the closing prices list provided by the exchange will be used. If a closing prices list is not provided, the last trade price for the respective security will be used.

Country	Exchange	Close Price	Close Time
Argentina	Buenos Aires Stock Exchange	VWAP	5:00 PM
Australia	Australian Stock Exchange	Auction close	4:00 PM
Austria	Wiener Boerse AG	Auction close	5:35 PM
Bahrain	Bahrain Stock Exchange	Official close	12:30 PM
Bangladesh	Dhaka Stock Exchange	Official close	3:00 PM
Belgium	Brussels Stock Exchange (part of EuroNext)	Auction close	5:35 PM
Botswana	Botswana Stock Exchange	Last traded price	2:00 PM
Brazil	Sao Paulo Stock Exchange	Last traded price	5:00 PM
Bulgaria	Bulgaria Stock Exchange	Auction close	1:45 PM
Canada	Toronto Stock Exchange	Market on close	4:00 PM
Canada	Venture Stock Exchange	Last traded price	4:00 PM
Chile	Santiago Stock Exchange	Official close	5:00 PM (Nov - Mar) 4:00 PM
China	Shanghai Stock Exchange	VWAP	3:00 PM
China	Shenzhen Stock Exchange	VWAP	3:00 PM
Colombia	Colombia Stock Exchange	Last traded price	4:00 PM (Nov - Mar) 3:00 PM
Croatia	Croatia Stock Exchange	Last traded price	4:30 PM
Cyprus	Cyprus Stock Exchange	VWAP	5:20 PM
Czech Republic	Prague Stock Exchange	Official close	4:30 PM
Denmark	Copenhagen Stock Exchange	Auction close	5:00 PM
Ecuador	Guayaquil Stock Exchange	Official close	3:45 PM
Egypt	Egypt Stock Exchange (Cairo)	VWAP	2:30 PM
Estonia	Tallinn Stock Exchange	Auction close	4:00 PM
Finland	Helsinki Stock Exchange	Auction close	6:30 PM
France	Paris Stock Exchange (Part of EuroNext)	Auction close	5:35 PM
Germany	Xetra Stock Exchange	Auction close	5:35 PM
Ghana	Ghana Stock Exchange	VWAP	3:00 PM

Country	Exchange	Close Price	Close Time
Greece	Athens Stock Exchange	Auction close	5:20 PM
Hong Kong	Hong Kong Stock Exchange	Official close	4:00 PM
Hungary	Budapest Stock Exchange	Auction close	5:10 PM
Iceland	OMX Reykjavik Stock Exchange	Last traded price	3:30 PM
India	Bombay Stock Exchange	VWAP	3:30 PM
Indonesia	Indonesia Stock Exchange	Last traded price	3:50 PM
Ireland	Ireland Stock Exchange	Auction close	4:30 PM
Israel	Tel Aviv Stock Exchange	Auction close	5:15 PM
Italy	Milan Stock Exchange	Auction close	5:30 PM
Jamaica	Jamaica Stock Exchange	Last traded price	1:00 PM
Japan	Nagoya Stock Exchange	Auction close	3:30 PM
Japan	Tokyo Stock Exchange	Auction close	3:00 PM
Japan	Sapporo Stock Exchange	Auction close	3:30 PM
Jordan	Amman Stock Exchange	Official close	12:40 PM
Kazakhstan	Kazakhstan Stock Exchange	Last traded price	5:00 PM
Kenya	Nairobi Stock Exchange	Official close	3:00 PM
Kuwait	Kuwait Stock Exchange	Auction close	12:30 PM
Latvia	Riga Stock Exchange	Auction close	4:00 PM
Lebanon	Beirut Stock Exchange	Official close	12:30 PM
Lithuania	Vilnius Stock Exchange	Auction close	4:00 PM
Luxembourg	Luxembourg Stock Exchange	Auction close	5:30 PM
Macedonia	Macedonia Stock Exchange	Official close	1:00 PM
Malaysia	Kuala Lumpur Stock Exchange	Last traded price	5:00 PM
Malta	Malta Stock Exchange	Last traded price	12:30 PM
Mauritius	Stock Exchange of Mauritius	Last traded price	1:30 PM
Mexico	Mexican Stock Exchange	VWAP	3:00 PM
Morocco	Casablanca Stock Exchange	Auction close	3:30 PM
Namibia	Namibian Stock Exchange	Last traded price	5:00 PM (Sep - Apr) 4:00 PM
Netherlands	Amsterdam Stock Exchange (part of EuroNext)	Auction close	5:35 PM
New Zealand	New Zealand Stock Exchange	Last traded price	5:00 PM
Nigeria	Nigeria Stock Exchange	Last traded price	2:30 PM
Norway	Oslo Stock Exchange	Auction close	4:25 PM
Oman	Muscat Securities Market	VWAP	1:00 PM
Pakistan	Karachi Stock Exchange	Official close	3:30 PM (Mon - Thu) 4:30 PM
Palestine	Palestine Securities Exchange	Last traded price	1:30 PM
Panama	Panama Stock Exchange	Official close	3:00 PM
Peru	Lima Stock Exchange	Last traded price	4:10 PM (Nov - Mar) 3:10 PM
Philippines	Philippines Stock Exchange	Last traded price	3:30 PM
Poland	Warsaw Stock Exchange	Auction close	5:00 PM
Portugal	Lisbon Stock Exchange (part of EuroNext)	Auction close	4:35 PM
Qatar	Doha Securities Market	Last traded price	1:15 PM
Romania	Bucharest Stock Exchange	Last traded price	4:45 PM
Russia	Moscow Exchange	Official close	6:50 PM
Saudi Arabia	Saudi Stock Exchange (Tadawul)	Official close	3:30 PM
Serbia	Belgrade Stock Exchange	VWAP	1:00 PM
Singapore	Singapore Stock Exchange	Auction close	5:06 PM
Slovakia	Bratislava Stock Exchange	Last traded price	3:30 PM
Slovenia	Ljubljana Stock Exchange	Auction close	1:00 PM
South Africa	Johannesburg Stock Exchange	Auction close	5:00 PM
South Korea	KOSDAQ Stock Exchange	Auction close	3:00 PM
South Korea	Korean Stock Exchange	Auction close	3:00 PM
Spain	Mercado Continuo	Auction close	5:35 PM
Sri Lanka	Colombo Stock Exchange	VWAP	2:30 PM
Sweden	Stockholm Stock Exchange	Auction close	5:30 PM
Switzerland	SWX Europe	Auction close	5:30 PM
Switzerland	Swiss Stock Exchange (SWX)	Auction close	5:30 PM
Taiwan	Gretai Securities Market	Auction close	1:30 PM
Taiwan	Taiwan Stock Exchange	Auction close	1:25 PM
Thailand	Thailand Stock Exchange (Bangkok)	Last traded price	4:40 PM

Country	Exchange	Close Price	Close Time
Trinidad & Tobago	Trinidad And Tobago Stock Exchange	Official close	2:00 PM
Tunisia	Tunis Stock Exchange	Last traded price	2:10 PM
Turkey	Istanbul Stock Exchange	Auction close	5:40 PM
Ukraine	Ukrainian Exchange	Official close	5:15 PM
United Arab Emirates	Abu Dhabi Securities Market	Auction close	2:00 PM
United Arab Emirates	Dubai Financial Market	Last traded price	2:00 PM
United Arab Emirates	Dubai International Financial Exchange	Last traded price	2:00 PM
United Kingdom	London Stock Exchange	Auction close	4:35 PM
United Kingdom	London Stock Exchange (IOB)	Auction close	3:40 PM
United States	NASDAQ Stock Exchange	Closing cross	4:00 PM
United States	NYSE Amex	Closing auction	4:00 PM
United States	NYSE Arca Exchange	Closing auction	4:00 PM
United States	New York Stock Exchange	Closing auction	4:00 PM
Venezuela	Caracas Stock Exchange	Last traded price	1:00 PM
Vietnam	Hanoi Securities Trading Center	Last traded price	2:30 PM
Vietnam	Vietnam Stock Exchange	Last traded price	2:30 PM
Zambia	Lusaka Stock Exchange	Official close	2:00 PM
Venezuela	Caracas Stock Exchange	Last traded price	1:00 PM



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