

The NYSE Arca Gold BUGS Index (HUI)

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Version History:

Version 2.0 (Effective February 17, 2014)

The new methodology format for the HUI Index was released to provide greater details and clarity into the current Index governance, structure, and maintenance. There were no changes to the Index practices or application of rules, as they existed previously.

1. Index summary

Factsheet	
Full name	The NYSE Arca Gold BUGS Index
	Price Return (HUI)
	Gross Total Return (HUITR)
Index Type	Net Total Return (HUINTR)
	Common stocks or ADRs of selected companies involved in
	the mining for gold ore, not hedged beyond 1.5 years of
	production, and listed on the NYSE, NASDAQ, NYSE MKT, or
Eligible stocks	another major U.S. exchange
Number of constituents	Not predefined
Weighting	Modified Equal-Dollar Weighting
	Announced Quarterly in March, June, September, and
	December on the Wednesday preceding the 3 rd Friday of
Review of composition	the Month
Effective date of the	Effective Quarterly in March, June, September, and
rebalance	December after the Close of the 3 rd Friday of the Month
	Price Return: 15 seconds between 09:30 & 18:00 ET
	Gross Total Return: 15 seconds between 09:30 & 18:00 ET
Calculation frequency	Net Total Return: 15 seconds between 09:30 & 18:00 ET
Base date	March 15, 1996
Base level	200.00
Historic data available	
since	December 16, 1994
Derivatives and Linked	RBS Market Access NYSE Arca Gold Bugs Index ETF /
products	ComStage ETF NYSE Arca Gold BUGS
Bloomberg code	HUI INDEX / HUITR INDEX / HUINTR INDEX
Reuters code	.HUI / .HUITR / .HUINTR
Launch date	March 15, 1996

2. Governance and disclaimer

Compiler

NYSE Arca is the Compiler of the index. The Compiler is responsible for the day-to-day management of the index and is also responsible for decisions regarding the interpretation of these rules.

Cases not covered in rules

In cases which are not expressly covered in these rules, operational adjustments will take place along the lines of the aim of the index. Operational adjustments may also take place if, in the opinion of the Compiler, it is desirable to do so to maintain a fair and orderly market in derivatives on this index and/or this is in the best interests of the investors in products based on the index and/or the proper functioning of the markets.

Rule book changes

These rules may be supplemented, amended in whole or in part, revised or withdrawn at any time. Supplements, amendments, revisions and withdrawals may also lead to changes in the way the index is compiled or calculated or affect the index in another way.

Liability

NYSE Arca is not liable for any losses resulting from supplementing, amending, revising or withdrawing the Rules for the index.

The Compiler will do everything within its power to ensure the accuracy of the composition, calculation, publication and adjustment of the index in accordance with relevant rules. However, NYSE Arca is not liable for any inaccuracy in share prices, calculations and the publication of the index, the information used for making adjustments to the index and the actual adjustments. Furthermore, NYSE Arca does not guarantee nor the continuity of the composition of the index, nor the continuity of the calculation of the index, nor the continuity of the continuity of the calculation of the index.

Ownership and trademarks

NYSE Arca is the owner of all intellectual and other property rights to the index, including the name, the composition and the calculation of the index.

3. Publication

3.1 The opening, intraday and closing or daily publication of index values.

Opening

The first index level is calculated and published around 09:30 ET, when the U.S. equity markets open for their regular trading session. The calculation of that level utilizes the most updated prices available at that moment. In the case of constituents that have a non-traded, halted or suspended status, or have not opened for the current day, the previous day's reference prices or estimated prices (for IPOs, buyouts and swap offers) are used.

Dissemination frequency

The level of the index is in principle published every 15 seconds to the NYSE Global Index Feed (NYSE GIF). The calculated index levels incorporate the latest traded price of each constituent from within the regular trading session, normally 09:30 to 16:00 ET. The index only holds equities listed and traded in the U.S., and thus, intraday calculations of the index would incorporate trades on a consolidated level, from all exchanges including those not designated as the official primary exchange.

The index is calculated from 09:30 until 18:00 ET on those days specified as index business days. Index business days will be classified as days on which the U.S. Equity Markets (NYSE, NASDAQ, NYSE MKT) are open for a full or partial day of trading.

Closing level

The closing level is the last level disseminated on the trading day and uses the official close prices from the primary listing market for each constituent. For constituents that have non-traded, halted or suspended status, or have not opened for the current day, the previous day's reference prices or estimated prices (for IPOs, buyouts and swap offers) are used instead. In the case of exceptional market conditions, the Index Compiler reserves the right to utilize other prices in the calculation of the official closing level, as indicated below in Section 3.2.

Sources of Data

The Consolidated Tape (CTS/UDTF) is the primary market data source for U.S. equity realtime and closing prices. Additional sources of data less commonly used include other market data vendors, company announcements, exchange announcements, and other official sources.

3.2 Exceptional market conditions and corrections

The Compiler retains the right to delay the publication of the opening level of the index. Furthermore, the Compiler of the index retains the right to suspend the publication of the level of the index if it believes that circumstances prevent the proper calculation of the index.

If index constituent prices are cancelled, the index will not be recalculated unless the Compiler decides otherwise.

Commercially reasonable efforts are made to ensure the correctness and validity of data used in real-time index calculations. If incorrect price or corporate action data affects index daily highs, lows, or closes, it is corrected retroactively as soon as possible.

There is the possibility of an exchange or market-wide event resulting in the normal closing auction not going off or official closing prices not being available. In those situations, the index will take guidance from the respective exchange(s) and address on an event-by-event basis. Exchange or market-wide events include, but are not limited to, the following:

- o Volatility Halts
 - LULD (Limit Up / Limit Down)
 - Circuit Breaker
- o Technological Problems / Failures
- o Natural Disaster or Other BCP-Related Event

3.3 Announcement policy

Announcement policy

Changes to the index methodology will be announced by an index announcement which will be distributed via the website of NYSE Euronext.

As a general rule the announcement periods that are mentioned below will be applied. However, urgently required corporate action treatments, often resulting from late notices from the relevant company or exchange, may require the Compiler to deviate from the standard timing.

Inclusion of new constituents

The inclusion of new companies in the index will typically only occur during the quarterly rebalances or reviews, although there could be exceptions based on a specific corporate action affecting a current constituent. The inclusion of the new company will be announced at least three trading days before the effective date of the actual inclusion. For example, for the rebalance effective for March 24, 2014, the announcement would occur on March 19, 2014.

Removal of Constituents

Components would be removed from the index as a result of periodic corporate actions as well as the results of the quarterly reviews. All removals will be announced at least three trading days before the effective date of the removal. It should be noted that in the case of mergers and acquisitions, ever effort will be made to remove the company at some reasonable time ahead of the last day of trading in the acquired company. There will be certain situations and corporate actions that would require a removal of a company with less than three trading days of notice. In those cases, the removal would be announced no later than 15:00 ET on the trading day preceding the effective date of the removal.

Corporate actions

In case of an event that could affect one or more constituents, the Compiler will inform the market about the intended treatment of the event in the index shortly after the firm details have become available and have been confirmed. When possible, the corporate action will be announced, even if not all information is known, at least three trading days before the effective date of the action.

Once the corporate action has been effectuated, the Compiler will confirm the changes in a separate announcement.

Rule changes

Barring exceptional circumstances, a period of at least two months should pass between the date a proposed change is published and the date it goes into effect. Exceptions can be made if the change is not in conflict with the interests of an affected party, which specifically includes external parties that license the index for a tracking product.

Reviews: publication of new selection

The new composition of the index, including the companies to be a part of the index and their corresponding percentage weightings, will be announced at least three trading days before the effective date on the website of NYSE Euronext. The new index shares that correspond to those weightings will be determined and announced after the close of trading on the business day preceding the effective date, normally the third Friday of March, June, September, and December.

4. Calculation

4.1 Calculation of the price index

The index is calculated on a Price Return, Gross Total Return and Net Total Return basis. The current index level would be calculated by dividing the current modified index market capitalization by the index divisor. The divisor was determined off of the initial capitalization base of the index and the base level. The divisor is updated as a result of corporate actions and composition changes.

The Gross Total Return calculation incorporates regular cash dividends paid in the underlying constituents and reinvests those distributions into the index at the open of the dividend exdate.

The Net Total Return calculation adjusts the gross dividends for international withholding tax rates in force at the time. The full table of international withholding tax rates being utilized in the index calculation will be available on the website of NYSE Euronext and will be reviewed annually at the start of each calendar year. Intra-review changes to the tax withholding rates can be made at the discretion of the Index Compiler and will be announced at a reasonable time prior to effectiveness of the changes.

4.2 Currency conversion

The index is calculated and published in USD. The Index Complier reserves the right to create, calculate, and publish the index in other currencies as required.

5. Index reviews

5.1 General aim of reviews and frequency

General aim of the periodical review

The general aim of the periodical review of the index is to ensure that the selection of the constituents continues to reflect the underlying market. The Index is reviewed quarterly to ensure that at least 90% of the Index weight is accounted for by Index components that continue to meet

the initial eligibility requirements. The 10% buffer is available to cover any discretionary decisions made by the Compiler. The Compiler reserves the right to, at any time, change the number of stocks comprising the index by adding or deleting one or more stocks, or replacing one or more stocks contained in the index with one or more substitute stocks of its choice, if in the Compiler's discretion such addition, deletion or substitution is necessary or appropriate to maintain the quality and/or character of the index.

Frequency

The reviews become effective after the close of trading on the third Friday of March, June, September and December.

The announcement will be made three trading days before the effective date of the rebalance. This date generally falls on the Wednesday preceding the third Friday of March, June, September and December.

The reference date for all company-specific data and information utilized in the rebalancing process will be taken from the same day, the Wednesday preceding the third Friday of March, June, September, and December. It should be noted that the prices utilized to determine a constituent's new shares from its assigned percentage weighting are taken from the close of the third Friday of

the rebalance month.

5.2 Index universe and selection principle

Index Universe

The Index generally includes Common stocks and ADRs of selected companies involved in the mining for gold ore but do not hedge their production beyond 1.5 years. The Index only includes companies that are listed on the NYSE, NASDAQ, NYSE MKT, or another major U.S. exchange. This specifically includes those companies classified as being cross-listed, as an example those miners with both U.S. (NYSE, NASDAQ, NYSE MKT) and Canadian (TSX) listings. In those cases, the U.S. listing would be included in the index.

The Index aims to include companies that have the majority of their revenues directly related to gold-mining activities. Thus, companies with a more diversified metal exposure or a greater exposure to silver mining are excluded from being eligible.

The Index also seeks to only include those gold mining companies that have not hedged a significant portion of their production through futures, forwards, or options contracts. This ensures that the companies have an exposure to near-term movements in spot gold prices. The universe is selected by excluding those companies with a hedging ratio of over 1.5 years. That ratio is calculated by dividing the total number of gold ounces hedged against through derivatives on a company's hedge book by the number of gold ounces produced in the last year.

Selection of constituents

The index constituents are selected among the companies included in the Universe that meet all of the following criteria, taking into account their respective buffer rules:

- (1) Current Market Capitalization is greater than \$75 million (not adjusted for Free Float)
 - a. For companies comprising a maximum weight of 10% of the Index, a minimum Current Market Capitalization requirement of \$50 million can be applied
- (2) Monthly Volume is greater than 500,000 shares for each of the last six months
 - a. For companies comprising a maximum weight of 10% of the Index, a minimum Monthly Volume requirement of 400,000 shares for each of the last six months can be applied
- (3) Current Last Traded Price is greater than \$3.00
 - a. For companies comprising a maximum weight of 10% of the Index, there can be no minimum Current Last Traded Price requirement applied

For reasons of practicality, the Index Compiler has the discretion to not include all companies that meet the minimum levels for inclusion. These include, but are not limited to, pending corporate actions, litigation or geo-political events that may affect a given stock. In addition, as noted at the start of Section 5.1, the Index Compiler has the discretion to include companies that do not meet the minimum levels for inclusion, if it feels that by doing so it maintains the quality and/or character of the index.

Removal of constituents

Components will be removed from the Index during the quarterly review if they fail any of the criteria below, and are not chosen by the Index Compiler to remain in the index under the 10% discretionary buffer rule, as outlined above in Rules 5.1 and 5.2:

- (1) The Current Market Capitalization is lower than \$75 million
- (2) The Monthly Volume for any of the last six months is lower than 500,000 shares
- (3) The Current Last Traded Price is less than \$3.00

Selected line

Only one listing is permitted per company within the Index. If multiple share classes are available for a particular listing line, the most liquid class will be included in the Index. There is no rules-based consideration of the amount of free float shares available for each company. Instead, the Index Compiler evaluates, on a discretionary basis, the amount of free float shares available to the public while performing its review of the universe.

5.3 Periodical update of weighting

Update of number of shares

The number of shares included in the index that is effective at the periodical review for each constituent is based upon its modified equal-dollar percentage weighting, which itself is based upon the relative market capitalization of the company within the index. More details on this modified equal-dollar weighting process are contained in Section 5.4 below.

Maintenance of the Index

The share quantity of each component stock in the Index portfolio remains fixed between quarterly reviews except in the event of certain types of corporate actions such as stock splits, reverse stock splits, stock dividends, or similar events. The share quantities used in the Index calculation are not typically adjusted for shares issued or repurchased between quarterly reviews. However, in the event of a merger between two components, the share quantity of the surviving entity may be adjusted to account for any stock issued in the acquisition. NYSE Arca may substitute stocks or change the number of stocks included in the index, based on changing conditions in the industry or in the event of certain types of corporate actions, including mergers, acquisitions, spin-offs, and reorganizations. In the event of component or share quantity changes to the Index portfolio, the payment of dividends other than ordinary cash dividends, spin-offs, rights offerings, re- capitalization, or other corporate actions affecting a component stock of the Index, the Index divisor may be adjusted to ensure that there are no changes to the Index level as a result of non- market forces.

5.4 Index Quarterly Adjustment Process

The Index is weighted based upon the relative market capitalization of each of the component stocks, modified to conform to the following weighting requirements, which are applied in conjunction with the scheduled quarterly adjustments to the index. The information utilized in this modification process will be taken from the close of trading on the Wednesday preceding the third Friday of the rebalance month:

- (1) All of the companies to be a part of the new index are ranked from highest to lowest by full market capitalization (not adjusted for free float);
- (2) The top two companies, as ranked by full market capitalization, are attributed a weighting of 15% each;
- (3) The company with the third largest full market capitalization is assigned a weighting of 10%;
- (4) The remaining companies in the index (with a full market capitalization rank of four and lower) are equal-weighted into the remaining 60% of the index weight

The list of new companies and their corresponding percentage weighting is determined and announced on the Wednesday preceding the third Friday of the rebalance month. The shares for each new index constituent are determined and announced after the close of the third Friday of the rebalance month. The new shares are calculated by applying the percentage weighting of

each constituent to the closing Index market capitalization on that day, and dividing by the closing price of that constituent, rounding the resulting number. The new index portfolio (constituents and corresponding shares) will become effective at the open on the trading day following the third Friday of the rebalance month. Any changes in market capitalization between the pre-rebalance and post-rebalance composition are accounted for via a divisor adjustment.

6. Corporate Actions

6.1 General

The index may be adjusted in order to maintain the continuity of the index level and the composition. The underlying aim is that the index continues to reflect as closely as possible the value of the underlying portfolio.

Adjustments take place in reaction to events that occur with constituents in order to mitigate or eliminate the effect of that event on the index performance.

6.2 Removal of constituents

Any stock deleted from the index as a result of a corporate action such as a merger, acquisition, spin-off, delisting or bankruptcy is not replaced by any new stock. The total number of stocks in the index is reduced by one every time a company is deleted. In certain circumstances, the Index Compiler may decide to add another company into the index as a result of the pending removal of a current constituent. This action would be taken while considering the interests of affected parties and would typically only be a result of a certain type of corporate action, such as an acquisition where part of the merger proceeds is paid in the stock of another company.

If a company is removed from the index, the divisor will be adjusted to maintain the index level.

6.2.1. Mergers and Acquisitions

Merger or acquisition between members of the HUI Index: In the event a merger or acquisition occurs between members of the HUI Index, the acquired company is deleted and its Index market capitalization moves to the acquiring company's stock, according to the merger terms and depending on the portion of proceeds paid in the stock of the acquirer.

Merger or acquisition between a member and a non-member: A non-member is defined as a company that is not a current constituent of the HUI Index. A merger or acquisition between one member of the Index and one non-member can take two forms:

(1) The acquiring company is a member of the Index and the acquired company is not. The acquiring company's shares will be adjusted at the next rebalance based upon its relative market capitalization, as is normal procedure.

(2) The acquiring company is not a member, but the acquired company is a member. The acquired company is removed from the index and the acquiring company may be considered for inclusion at the next rebalance. As outlined above in Section 6.2, in certain situations, the Index Compiler may choose to add in the acquiring company should it meet general universe requirements. Exceptions to the implied seasoning rule of three months can be made at the discretion of the Index Compiler. As in any other addition, these actions would be announced at least three trading days ahead of effectiveness.

6.2.2 Suspensions and company distress

Immediately upon a company filing for bankruptcy, an announcement will be made to remove the stock from the index effective for the third day following the bankruptcy. If the stock is trading on an over-the-counter (OTC) market, the last trade or price on that market is utilized as the deletion price on that day.

If the stock does not trade on the relevant exchange between the bankruptcy announcement and the next rebalance effective date, the stock may be deleted from the index in that rebalance with a presumed market value of \$0.

6.2.3 Price sources

In the event that the trading in shares is suspended or halted, the last known price established during regular daytime trading on the primary exchange will be used. Depending on the particular situation, the Index Compiler may choose to value the security at a price of \$0 for purposes of

index calculation and/or index corporate action. This would be applicable for certain extreme cases such as a company bankruptcy or severe distress.

6.3 Split-up /spin off

The closing price of the index constituent is adjusted by the value of the spin-off, and the shares of the index constituent will be adjusted to maintain its existing weighting in the index. The divisor will be adjusted to account for any changes in the overall index market capitalization.

Spun-off companies will not be automatically added into the index at the time of the event. The Index Complier reserves the right to be able to add spun-off companies into the index, provided they meet general universe requirements. Exceptions to the implied seasoning rule of three months can be made in these situations. As in any other addition, these actions would be announced at

least three trading days ahead of effectiveness. Moreover, if a spun-off company is added to the index, there will be no adjustment made to the shares of the parent company.

6.4. Dividends

6.4.1. Distinction ordinary and special dividend

The price return index will be adjusted for dividends that are special in nature, typically through a price adjustment and corresponding share increase to maintain the constituent's existing

weighting in the index. The divisor will be adjusted to account for any changes in the overall index market capitalization. To decide whether a dividend should be considered a special dividend the Compiler will use the following criteria:

- a) the declaration of a company of a dividend additional to those dividends declared as part of the company's normal results and dividend reporting cycle; merely an adjustment to the timing of the declaration of a company's expected dividend would not be considered as a special dividend circumstance; or
- b) the identification of an element of a dividend paid in line with a company's normal results and dividend reporting cycle as an element that is unambiguously additional to the company's normal payment.

For the purpose of clarification, the Compiler will not make adjustment for the following situations, specifically in the Price Return Index:

- 1. Payment of ordinary dividends, irrespective of how they are financed;
- 2. Issue of redeemable shares or any other entitlement in lieu of an ordinary dividend; or
- 3. Unexpected increase or decrease, resumption or cessation, or change in frequency to an ordinary dividend.

6.5. Rights issues and other rights

In the event of a rights issue, the price is adjusted for the value of the right before the open on the ex-date, and the shares are increased to maintain the constituent's existing weighting within the index. The adjustment assumes that the rights issue is fully subscribed. The amount of the price adjustment is determined from the terms of the rights issue, including the subscription price, and the price of the underlying security. The Index Compiler shall only enact adjustments if the rights

represent a positive value, or are in-the-money, or alternatively, represent or can be converted into a tangible cash value.

6.6 Bonus issues, stock splits and reverse stock splits

For bonus issues, stock splits and reverse stock splits, the number of shares included in the index will be adjusted in accordance with the ratio given in the corporate action. Since the event won't change the value of the company included in the index, the divisor will not be changed because of this.

6.7 Changes in number of shares

Changes in the number of shares outstanding, typically due to share repurchases, tenders, or offerings, will not be reflected in the index until the next review, and only then through the normal procedure of determining its new modified equal-dollar weighting from its relative market capitalization within the index.

7. Index Formula

7.1 Index calculation formula

The index is calculated using the following formula:

$$I_t = \frac{\sum_{i}^{N} Q_{i,t} M_{i,t} C_{i,t}}{DIV}$$

Where:

t day of calculation

N number of constituent equities in index Q_{i,t} number of shares of equity i on day t

M_{i,t} multiplier of equity i (always assumed to be 1 for HUI Index)

 $C_{i,t}$ price of equity i on day t DIV current index divisor on day t