

Truflation U.S. CPI Eggs Inflation Index (TruCPIEggs-US)

Methodology

December 16, 2025

Contents

1. Executive Summary	3
2. Truflation U.S. CPI Eggs Inflation Index Framework	3
3. The Output Metrics	5
4. Truflation U.S. CPI Eggs Inflation Index Benefits	5
5. Summary	6
6. Version History	7

1. Executive Summary

The Truflation U.S. CPI Eggs Inflation Index is a real time benchmark designed to track egg prices across the United States using a comprehensive, multi source methodology. By integrating retail and wholesale pricing, government data and crowdsourced price observations, the index delivers a balanced and timely view of egg price movements.

This blended approach reflects market realities more accurately than any single data source, providing deeper insight into food inflation dynamics and changes in consumer cost pressures.

2. Truflation U.S. CPI Eggs Inflation Index Framework

The Truflation U.S. CPI Eggs Inflation Index is calculated using a proprietary weighted blend of price data from the following sources:

- Retail pricing data collected from retail aggregators from point of sale scanners on a daily basis.
- Government data is incorporated from official pricing published by the relevant agencies.
- Wholesale pricing data is sourced from USDA and is updated daily to reflect the underlying supply dynamics.
- Crowdsourced consumer price data supplements the index with real time consumer reported price observations, improving responsiveness to local market conditions and short term anomalies.

Each data source is weighted based on its reliability, market coverage, and update frequency. The majority of the weighting is derived from high frequency retail scanner data, complemented by government benchmarks, wholesale pricing signals, and real-world consumer-reported prices. This ensures both accuracy and responsiveness to real-time market conditions.

Step 1: Data Collection

The Truflation U.S. CPI Eggs Inflation Index ingests data from partners that update at varying intervals; daily, weekly or monthly. Each dataset is incorporated at its native update frequency, enabling the index to reflect price changes as soon as new information becomes available. As a result, Truflation publishes the Eggs inflation readings up to 30 times faster than traditional inflation measures, which are typically released monthly with an average

publication lag of approximately 45 days. In contrast, Truflation updates its indices on a daily basis. All new data is collected each day at 23:00 Coordinated Universal Time (UTC).

Data Quality

Every data ingestion triggers a mandatory daily quality control (QC) process. During QC, data is not altered or adjusted; instead, Truflation verifies the integrity, consistency, and representativeness of each data source. The quality control checks include:

- Historical Data Comparison
- Data Presence and Continuity
- Current Data Validation:
- Data Variation Thresholds

If a red flag is raised at any stage, a detailed investigation is initiated, either internally or in coordination with the data provider, and continues until resolution.

Data Integrity and Immutability

All source data tables within Truflation are immutable. Upon ingestion, every data point is time stamped and permanently preserved. Historical data is never overwritten, only supplemented with new or revised observations.

Step 2: Weighting Scheme

Each eligible data provider is assigned a relative weight that is calibrated using weighting components that include the number of items tracked, the data representativeness and data collection methodology. These three components are combined in equal proportion to determine the final relative weighting of each data source. Exhibit 1 shows how these weightings are applied to the data:

Exhibit 1: Truflation U.S. CPI Eggs Inflation Index Weighting

Data Source	Update Frequency	Contribution to Index Weighting
USDA	Daily	25.0%
NielsenIQ	Weekly	50.0%
Numbeo	Monthly	12.5%
BLS	Monthly	12.5%

Every time a new data source is added, it is subject to an impact assessment to determine their material effect on the index behaviour and signal quality. Based on this assessment, the data may be fully integrated conditionally

weighted in accordance with predefined rules outlined above. Supporting analysis is documented in an accompanying impact assessment report

Step 4: Calculation Framework

The Truflation U.S. CPI Eggs Inflation Index is computed as the following:

$$\text{TruCPIEggs-US Index} = (\text{USDA Eggs price} * 25.0\%) + (\text{NielsenIQ Eggs price} * 50.0\%) + (\text{Numbeo Eggs price} * 12.50\%) + (\text{BLS Eggs price} * 12.50\%)$$

This methodology ensures the index remains transparent, robust, and representative of actual price movements experienced by consumers.

3. The Output Metrics

The Truflation U.S. Eggs Index is updated on a daily basis and produces the following indexes:

1. Truflation U.S. Eggs headline price per dozen today
2. Truflation U.S. Eggs headline price per dozen a year ago
3. Truflation U.S. Eggs headline price per dozen percentage change vs year ago.
4. Historical time series

The TruCPIEggs-US Index was officially launched on March 28, 2025 with historical data starting from January 1, 2022. Data is published in US dollars.

4. Truflation U.S. CPI Eggs Inflation Index Benefits

Eggs are a staple food item and one of the most sensitive indicators of food inflation and supply chain stress. Sharp movements in egg prices often precede or reflect broader shifts in agricultural conditions, energy costs, and transportation dynamics.

The Truflation U.S. CPI Eggs Inflation Index (TruCPIEggs-US) offers several distinct advantages over traditional measures and other private alternatives. In addition to the core strengths of the broader Truflation U.S. CPI Inflation Index, it delivers egg specific insights that are faster, more comprehensive and more actionable.

- ***Real Time, High Frequency Updates:*** Updated daily using high frequency data, delivering egg price signals far faster than traditional measures such as the Consumer Price Index from the Bureau of Labor Statistics.
- ***Multi Source Weighted Methodology:*** Combines retail scanner data, wholesale prices, government benchmarks, and crowdsourced inputs using a transparent weighting framework to ensure balance and robustness.
- ***Comprehensive Market Coverage:*** Captures the full pricing ecosystem; retail, wholesale and consumer reported prices reflecting both supply dynamics and real world consumer costs.
- ***Strong Data Integrity and Validation Framework:*** Incorporates daily quality control checks, cross validation and immutable data structures to ensure accuracy, consistency, and auditability.
- ***Early Indicator of Food Inflation and Supply Shocks:*** Egg prices are highly sensitive to supply chain disruptions, making the index a leading signal for broader food inflation trends.
- ***More Accurate Reflection of Market Prices:*** By integrating multiple high quality data sources, the index provides a more realistic view of prices than single source or survey based measures.
- ***Faster, Actionable Insights for Decision Making:*** Daily updates enable policymakers, investors, and businesses to respond quickly to emerging price pressures and market changes.

5. Summary

The Truflation U.S. CPI Eggs Inflation Index delivers transparency and accuracy in tracking egg price fluctuations. Through diversified data sourcing and high frequency updates, it enables users to anticipate inflation trends, respond quickly to market disruptions, and make data driven decisions. Whether for investment strategy, business planning or public policy analysis, the Truflation Eggs Index serves as a vital real time benchmark for understanding food price dynamics in today's economy.

6. Version History

Version	Date Released	Notes
1.0	March 28, 2025	Genesis of the Truflation U.S. CPI Eggs Inflation Index
1.1	December 16, 2025	New data source procedure added