# A Partnership for Public Health: USDA Global Branded Food Products Database











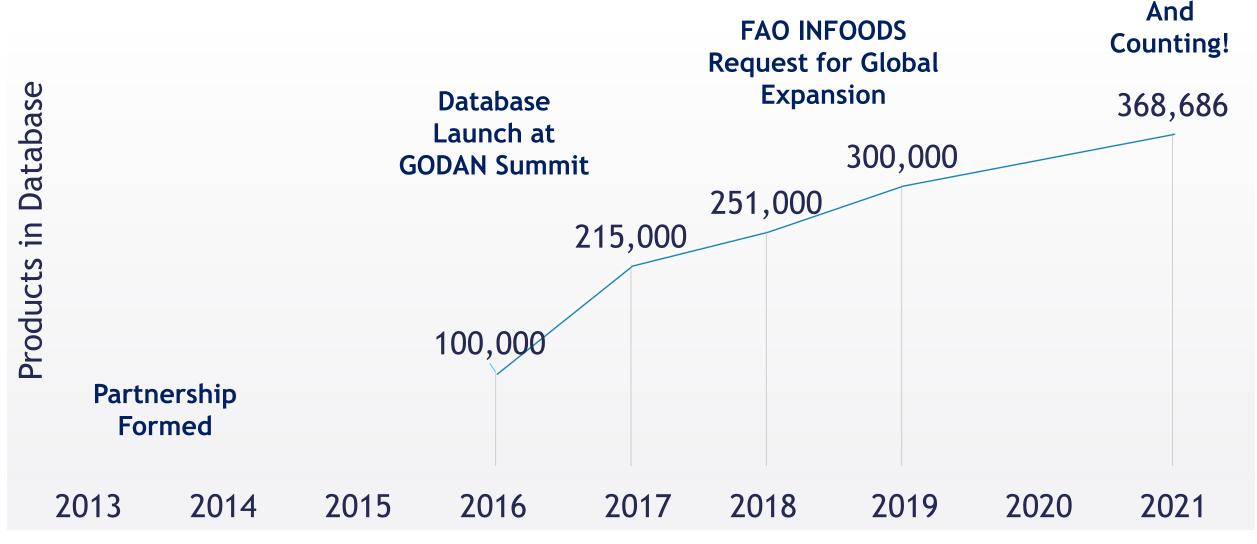


A publicly available database of food product nutrient composition & ingredient information.

Over 368,000 products and growing!

# About the USDA Global Branded Food Products Database

# Partnership Journey















# **USDA FoodData Central**

The Global Branded Food Products Database is located in USDA FoodData Central













# **Unprecedented Data**

Every one of the 368,000+ products in the USDA Global Branded Food Products Database includes the following data:

- Nutrient values per RACC and 100-unit
  - Per 100g/100mL calculated by USDA if not provided by manufacturer
- Ingredients
- GTIN/UPC
- Brand Owner
- Product Description
- Food Category
- Date Stamp Associated with Current Product Formulation
- Market Country

#### FoodData Central Search Results

ARS HOME > FOODDATA CENTRAL > QUAKER CHEWY GRANOLA BARS CARAMEL APPLE .84Z (BRANDED, 1460143)

#### **Quaker Chewy Granola Bars Caramel Apple .84z**

Data Type: BrandedFood Category: Processed Cereal ProductsBrand Owner: Pepsico Inc.

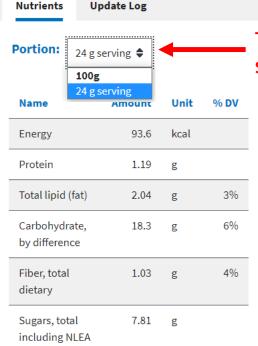
 Brand:
 Quaker
 Sub-Brand:
 FDC ID:
 1460143
 GTIN/UPC:
 00030000002186

 FDC Published:
 3/19/2021
 Available Date:
 1/5/2018
 Modified Date:
 1/5/2018

Market Country: United States

#### Based on the GS1 Global Data Synchronization Network, Powered by 1WorldSync

Information provided by food brand owners is label data. Brand owners are responsible for descriptions, nutrient data and ingredient information. USDA calculates values per 100g or 100ml from values per serving. Values calculated from %DV use current daily values for an adult 2,000 calorie diet (21 CFR 101.9(c)).



# Toggle nutrient values per serving or per 100g

Ingredients: INGREDIENTS: GRANOLA (WHOLE GRAIN ROLLED OATS, BROWN SUGAR, BROWN RICE CRISP [WHOLE GRAIN BROWN RICE FLOUR, SUGAR, SALT], WHOLE GRAIN ROLLED WHEAT, SOYBEAN OIL, WHOLE WHEAT FLOUR, SODIUM BICARBONATE, SOY LECITHIN, NONFAT DRY MILK), CORN SYRUP, SUGAR, DEHYDRATED APPLES, BROWN RICE CRISP (WHOLE GRAIN BROWN RICE FLOUR, SUGAR, SALT), INVERT SUGAR, CORN SYRUP SOLIDS, GLYCERIN, SOYBEAN OIL, VEGETABLE OIL (PALM KERNEL AND PALM OIL), WATER, CALCIUM CARBONATE, SORBITOL, SALT, NATURAL AND ARTIFICIAL FLAVOR, WHEY, SOY LECITHIN, MOLASSES, NONFAT DRY MILK, BHT (PRESERVATIVE), YELLOW 6 LAKE, YELLOW 5 LAKE, TOCOPHEROLS (PRESERVATIVE), CITRIC ACID, BLUE 2 LAKE.

# Data Submission to the USDA Global Branded Food Products Database

## Two options for data submission:

1WorldSync- using GS1 Global Data Synchronization Network (GDSN)

Label Insight- by uploading package flat artwork images

University of Maryland receives product data directly from the above partners, aggregates, and publishes to the USDA GBFPD











# Data Quality in the USDA Global Branded Food Products Database

#### Quality Assurance Processes

# Checks for completeness and consistency:

- "Hard" and "Soft" Data Entry Validations
- Outliers and Profiling
- Random Sampling

## Time Stamps

# Dates of when the product record was:

- Provided by the data provider to 1WorldSync or Label Insight
- Last modified by the data provider
- Added to FoodData Central

## **Nutrient Derivation Code Attribute**

GS1 Global Data Synchronization Network (GDSN), utilized by 1WorldSync, has an attribute to capture how the supplier arrived at the nutrient content.

#### **Nutrient Derivation Code Attribute:**

- Analyzed- The product's nutrient content was analytically determined in a lab.
- Calculated- The product's nutrient content was calculated based on information from other sources, e.g., ingredient supplier or Foundation Foods/SR Legacy.
- Analyzed and Calculated- The nutrient content was derived using analysis and calculation.

Manufacturers can increase the quality of their data in the GBFPD by submitting analytically-derived nutrient values when possible.













# **Unprecedented Access**

April 2019 - August 2021







37 Million Pageviews

# **Unprecedented Coverage**

368K+ products

85% US Sales Coverage

238 Food Categories













# Applications of the USDA GBFPD

Assess ingredient use within product categories

Research Community

**Policy Officials** 

**Public Health Community** 

**Food Industry** 

Consumers

Establish links between diet and chronic disease

Inform dietary tracking software and apps

Support Federal surveys used to inform policymaking on food & nutrition assistance policy

Enable use of Machine Learning to predict label nutrients

# Current and Upcoming Partnership Initiatives

# Increase Coverage of Private Label Data

 Goal: Achieve greater visibility and representation of private label product lines in a database with robust domestic and international usage



- Data gap identified by USDA ERS, as part of USDA National Household Food Acquisition and Purchase Survey (FoodAPS)
  - ERS looks to the USDA GBFPD to obtain accurate nutrition and ingredient information in foods reported in FoodAPS











## Collaborations with USDA FNS



### USDA Foods for the National School Lunch Program (FNS Food Distribution)

- Fulfills a requirement to make nutrition, allergen, and ingredient information available for USDA Foods products for the National School Lunch Program (NSLP) program participants.
- FNS/AMS leveraging the USDA GBFPD infrastructure which suppliers are using

#### **FNS Child Nutrition Database**

- Collect data for food products marketed and sold to schools
- FNS/CN Database leveraging the USDA GBFPD to increase the visibility of child food products













# **USDA National School Lunch Program**



**Goal:** To collect information for select USDA Foods purchased for the NSLP and increase transparency by making this information available to States and school districts.

- Concluded 1st pilot Q1 of 2020
- Conducted 2<sup>nd</sup> pilot Q2 of 2021
  - Testing additional attributes Child Nutrition Information & Product Formulation Statement
- USDA Foods suppliers will be required to submit all data via GS1
   Global Data Synchronization Network (GDSN®) by December 2021











## **FNS Child Nutrition Database**



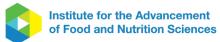
**Goal:** To collect metadata on products and identify and collect more foods marketed and sold to schools.

 Creation of a new trade channel for data providers to use to highlight product market

### Status: In development

 Moving forward with implementation and outreach to data providers to fill out this new trade channel.













# Global Collaboration & Expansion

- 11 countries have expressed interest in conducting a pilot project with the Partnership
- 6 Guiding Principles for prioritizing opportunities for global expansion

#### **Global Expansion Pilots:**

- Canada Q1 2021
- New Zealand Q3 2021
- Costa Rica Expected Q1 2022















# Continue to be Engaged

#### **Submit Product Data**

Ensure your branded/private label products are represented and current

#### Provide Feedback

- Identify data gaps
- Provide suggestions for expanding the database
  - How can the database further support research queries, federal programs?
  - fdc.nal.usda.gov/contact.html











#### **Partners**

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