

# USDA Research

FOUNDATION FOR A GROWING FUTURE

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# USDA's principal intramural scientific research agency

- 2000 scientists & post docs
- 6,000 other employees
- 690 research projects in 17 National programs
- \$1.2 billion annual budget



# Data for Research and Decision Making



- Creating tools that help operationalize data
  - USDA Branded Food Products Database
  - Soil and Water Assessment Tool (SWAT)
- Using technology to better understand our data
  - Program review using Natural Language Processing
  - Genomics analysis platforms



Information provided by food manufacturers is color-coded: red indicates food is responsible for its nutrients, yellow indicates food is responsible for its nutrients, and green indicates food is responsible for its nutrients. USDA considers values per 100 g of food values per serving.

Nutrient	UNIT	USDA	
		100 g	Serving
<b>Percent Daily Values</b>			
Energy	400	80%	20%
Protein	0	10%	10%
TOTAL SUGAR	0	10%	10%
Cholesterol	0	0%	0%
Fat	0	0%	0%
Sodium	0	0%	0%
<b>Ingredients</b>			
Water	100	100%	100%
Salt	100	100%	100%

Prepared by: [Name] | Date: [Date] | Company: [Company]





# Making Data Useful

- How do we define Big Data?
- Large data sets present unique challenges
- National Agricultural Library
  - Ag Data Commons

