

USDA DATA ANALYTICS AND VISUALIZATION



DATA ANALYTICS AND VISUALIZATION AT USDA

CREATE ANALYTICS PRODUCTS (E.G., DASHBOARDS) TO...

Support executive leaders perform data-driven decisions



Make data available at the 'Click -of-a-Button'



Make data and insights more accessible to the public



ENABLE THE ORGANIZATION WITH TOOLS, TECHNOLOGY, TALENT AND STRUCTURE TO...

Make data and analytics tools accessible and integrated to solve cross-agency questions



Upskill and empower the workforce to perform analytics to address long standing challenges



Achieve greater cost efficiencies and maximize ROI on modernization investments



EXAMPLES OF THE IMPACT OF ENTERPRISE ANALYTICS

	Examples
VALUE OF INTEGRATION	<ul style="list-style-type: none"> • Meat Processing Plant. Data brought together from AMS, FSIS and NASS to provide insight into plant operations • Status of Funds. Enabled financial data to be combined with agency specific mission data to provide daily insights into status of funds.
ANALYTICS INNOVATION	<ul style="list-style-type: none"> • Repair Expenses. Used Machine Learning to review repair expense requests for Agriculture Research Service, alleviating a highly manual process • COVID-19 Rapid deployment of dashboards with key public health indicators to support risk management and continuity of operations
COST EFFICIENCY	<ul style="list-style-type: none"> • Food and Nutrition SNAP Data Warehouse. Saved FNS \$1 million, standing up data warehouse environment in 3 months • Manual Reporting and Data Calls ~400,000 labor hours eliminated from manual data reporting tasks

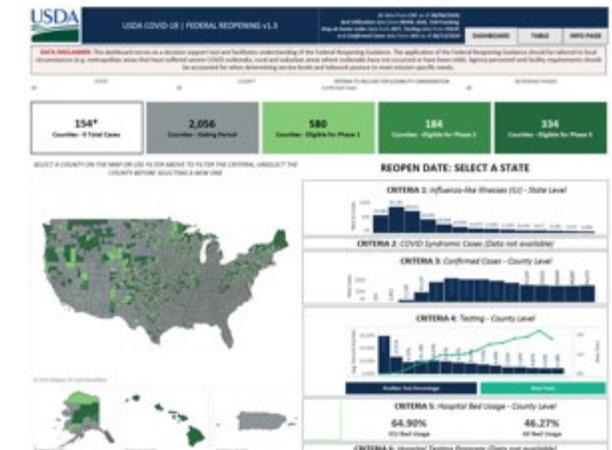
Meat/Poultry Dashboard



Enterprise analytics environment enables thorough analysis that harnesses data from across USDA's mission areas, resulting in better answers for leadership.

Consolidated visualization solution allows tools to be shared across the Department easily, and at scale, to support critical decision-making.

USDA COVID19 Dashboard



USDA OPEN DATA PLATFORM

Allows Public to:

DISCOVER



- Browse and find USDA data quickly
- View analytical results intuitively
- Share data securely

VISUALIZE



- Move beyond tables of data
- Leverage interactive dashboards
- Consume output of Advanced Analytics (ML/AI)

ACT



- Make data-driven decisions
- Partner with USDA for stronger outcomes

Initial use case

☐ NRCS: Proactively deliver conservation data

EQIP Data Dashboards

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National Overview

Select a state to learn more information and click the buttons to show the amount of financial assistance, contracts, or practice acreage by state for different fiscal years.

Color Map by: Assistance Contracts Practices