USDA DATA ANALYTICS AND VISUALIZATION
<table>
<thead>
<tr>
<th>CREATE ANALYTICS PRODUCTS (E.G., DASHBOARDS) TO...</th>
<th>ENABLE THE ORGANIZATION WITH TOOLS, TECHNOLOGY, TALENT AND STRUCTURE TO...</th>
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<tbody>
<tr>
<td>Support executive leaders perform data-driven decisions</td>
<td>Make data and analytics tools accessible and integrated to solve cross-agency questions</td>
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<td>Make data available at the ‘Click -of-a-Button’</td>
<td>Upskill and empower the workforce to perform analytics to address long standing challenges</td>
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<tr>
<td>Make data and insights more accessible to the public</td>
<td>Achieve greater cost efficiencies and maximize ROI on modernization investments</td>
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# Examples of the Impact of Enterprise Analytics

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<th>Examples</th>
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<tbody>
<tr>
<td><strong>Value of Integration</strong></td>
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<tr>
<td>• Meat Processing Plant. Data brought together from AMS, FSIS and NASS</td>
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<tr>
<td>to provide insight into plant operations</td>
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<tr>
<td>• Status of Funds. Enabled financial data to be combined with agency</td>
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<td>specific mission data to provide daily insights into status of funds.</td>
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<td><strong>Analytics Innovation</strong></td>
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<tr>
<td>• Repair Expenses. Used Machine Learning to review repair expense</td>
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<td>requests for Agriculture Research Service, alleviating a highly</td>
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<tr>
<td>manual process</td>
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<td>• COVID-19 Rapid deployment of dashboards with key public health</td>
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<td>indicators to support risk management and continuity of operations</td>
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<tr>
<td><strong>Cost Efficiency</strong></td>
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<tr>
<td>• Food and Nutrition SNAP Data Warehouse. Saved FNS $1 million,</td>
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<tr>
<td>standing up data warehouse environment in 3 months</td>
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<tr>
<td>• Manual Reporting and Data Calls ~400,000 labor hours eliminated from</td>
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<tr>
<td>manual data reporting tasks</td>
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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 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

Financial

$1.33B

40,474

218,297

Contracts

Top 5 States

Top 5 Practices

2017

NRCS provides financial assistance to producers to implement practices that promote sustainable environmental outcomes.

The producer implements practices to address natural resources concerns under a conservation plan.

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

Financial assistance obligated in FY2019

40,474 contracts obligated in FY2019

218,297 practices obligated in FY2017

NRCS plans contracts with practices for the producer to implement that promote sustainable environmental outcomes.

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Top 5 States

Top 5 Practices

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