NASA + AGRICULTURE Land + Crops

For decades NASA satellites have orbited Earth, gathering data on land use changes, the health of plants, the temperature of the land and a slew of other data - all information than can be put to use by our nation's farmers.



Landsat: Farming Data From Space
See how decades of Landsat satellite data are used to monitor water, predict yields of crops like corn, wheat, rice, cotton, and soy. <u>+VIDEO</u>

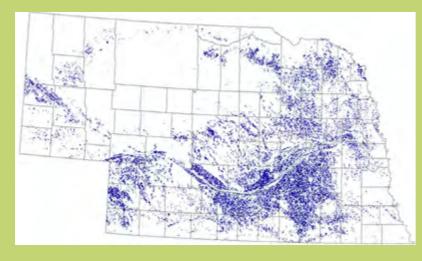


Food Security: Monitoring Crops from Space

NASA's Earth-observing satellites gather data to monitor plant growth and crop yield to predict food supply and food shortages worldwide in a way that can inform important local decision-making. +VIDEO



Satellites Track Status of Nation's Food Supply
Since 2009, USDA NASS has drawn on Landsat data to monitor dozens
of crops, including corn, wheat, soy and cotton in the lower 48 states
as part of NASS's Cropland Data Layer program. +VIDEO



Water Use and Crop Yield Simulator
Working with the USDA, NASA released in January 2020 a modeling framework for assessing water use and simulating crop yields at the regional level. It is a hybrid method that integrates Earth observations into process based crop models. +ARTICLE



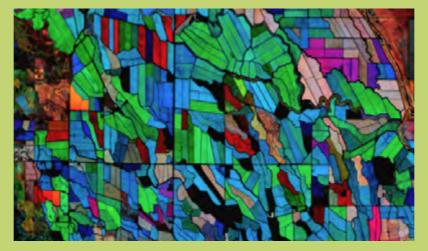
Shoring up the Corn Belt's Soil Health
Soil is the foundation of our food systems, and sustainable farming depends upon healthy soil, which has impacts far beyond the field.
+ARTICLE



Earth Images Enable Near-Perfect Crop Predictions
A crop-prediction model that combines current NASA and USGS data streams with historical data and then blends them with a variety of other data sources, including weather models that consistently predicted final 2016 yields on U.S. corn and soy crops ahead of all publicly available in-season forecasts. +ARTICLE



Landsat's Critical Role in Agriculture
Factsheet detailing Landsat work in forecasting crop yields, measuring water and fighting crop insurance fraud. +PDF



Using NASA's Harmonized Landsat Sentinel-2 Product to Give Farmers Real-Time Crop Health Information IndigoAg is using HLS data to help fulfill its mission of making farms more profitable and sustainable. +ARTICLE



Food Security from Space: Vegetation HealthFactsheet on how Landsat and other NASA satellites and instruments complement each other to monitor vegetation health. <u>+PDF</u>

