

National Digital Orthoimagery Program FGDC Subcommittee 2018 Report

*Timothy Stryker, USGS
Chair, NDOP Steering
Committee*



National Digital Orthoimagery Program

- Established in the mid 1990s and annexed as a FGDC Subcommittee in 2008.
 - Develop, promote, and execute a national strategy for acquisition and development of orthoimagery data for Federal agencies
 - Create and utilize partnerships with State, local, tribal, and private organizations
 - Manage and coordinate overhead imagery to support the needs of the United States civil government
- USGS Theme Lead transferred from the National Geospatial Program to the Land Remote Sensing Program in January 2016.
- Members represent 14 Federal Agencies and the National States Geographic Information Council.
- NDOP holds two face-to-face steering committee meetings each year and various subcommittee conference calls/webinars throughout the year.

NDOP 2018 Leadership

- Steering Committee Chair – Timothy Stryker, National Land Imaging Program, U.S. Geological Survey, U.S. Department of the Interior
- Program Sub-Committee Chair – Shirley Hall, Farm Service Agency, U.S. Department of Agriculture
- Technical Sub-Committee Chair – Matthew Bobo, Bureau of Land Management, U.S. Department of the Interior

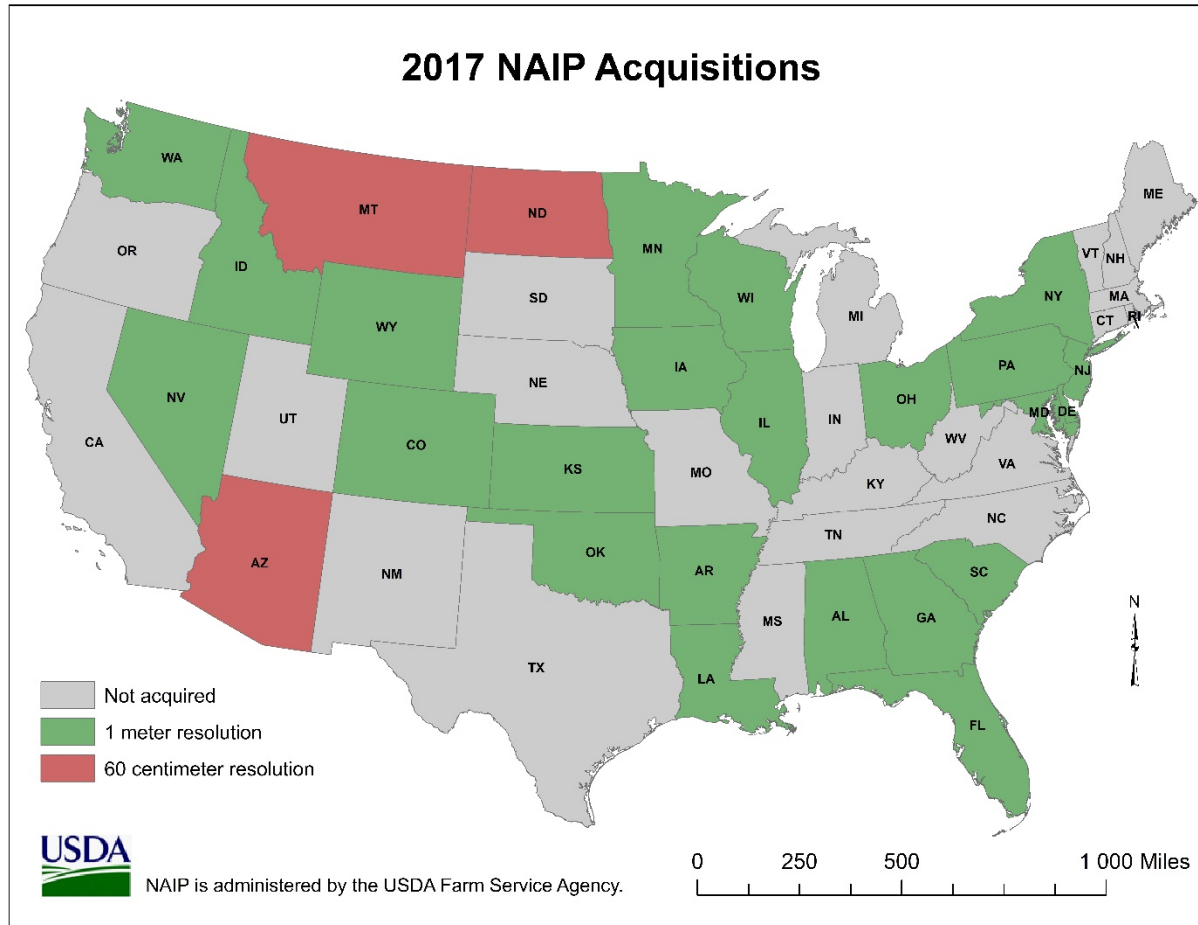
Current Status and Activities

- 2017 Steering Committee Meeting – October 24-26, Denver, Colorado
 - FGDC – Imagery Theme Requirements
 - The Future of the National Agriculture Imagery Program
 - The Geospatial Data Act
 - The NSF National Earth Observation Network
 - Special Civil Applications Committee (CAC) Request for Commercial Satellite Imagery of the State of Alaska
 - Joint Agencies Commercial Imagery Evaluation (JACIE)
 - The State of the Commercial Remote Sensing Satellite Industry
 - Historical Film Scanning
 - Agency Updates
 - NSGIC Update

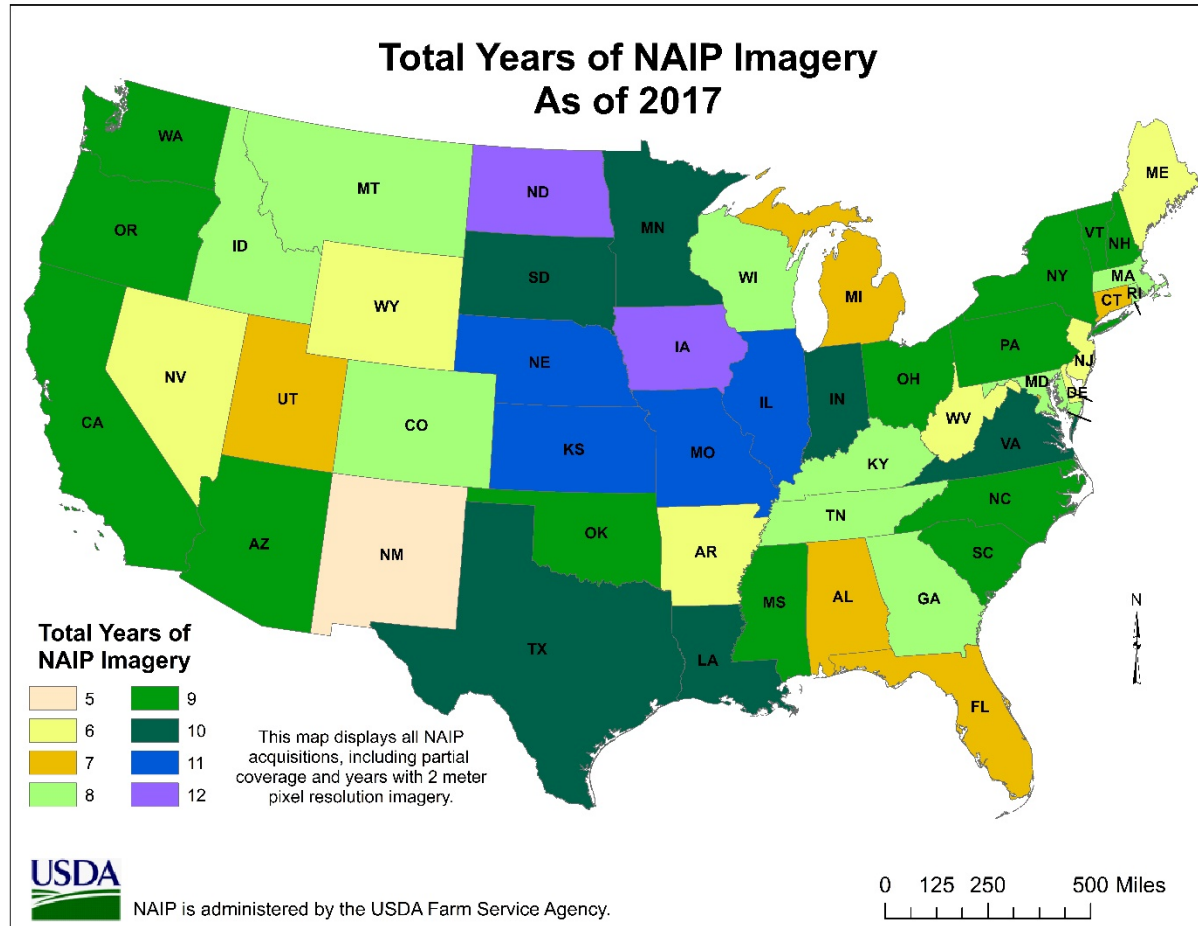
Imagery Programs and Projects

- USDA Farm Service Agency – National Agriculture Imagery Program (NAIP)
 - Acquired 4-band imagery for 1.7 million square miles, or 26 States, in 2017
 - 23 States collected at 1.0 meter
 - 3 States collected at 0.6 meter through a buy-up option
 - Current IDIQ contract extended an extra year beyond 2016
 - Future NAIP coverage expected to drop to 59% of 2017 coverage (1 million square miles annually) due to expected budget restrictions
 - IPT established to address coverage uncertainty
- NAIP restructured from a 2-year to 3-year cycle at 60 cm collection, starting in 2018
 - Restructuring decision based upon 20% funding reduction
 - Mid-May contract award, single-year contract for 17 States
 - Priced options for CCMs, stereo, and point-cloud data
- 2018 NAIP MOU signed by FSA, USGS, NRCS, DOI

2017 NAIP Acquisition

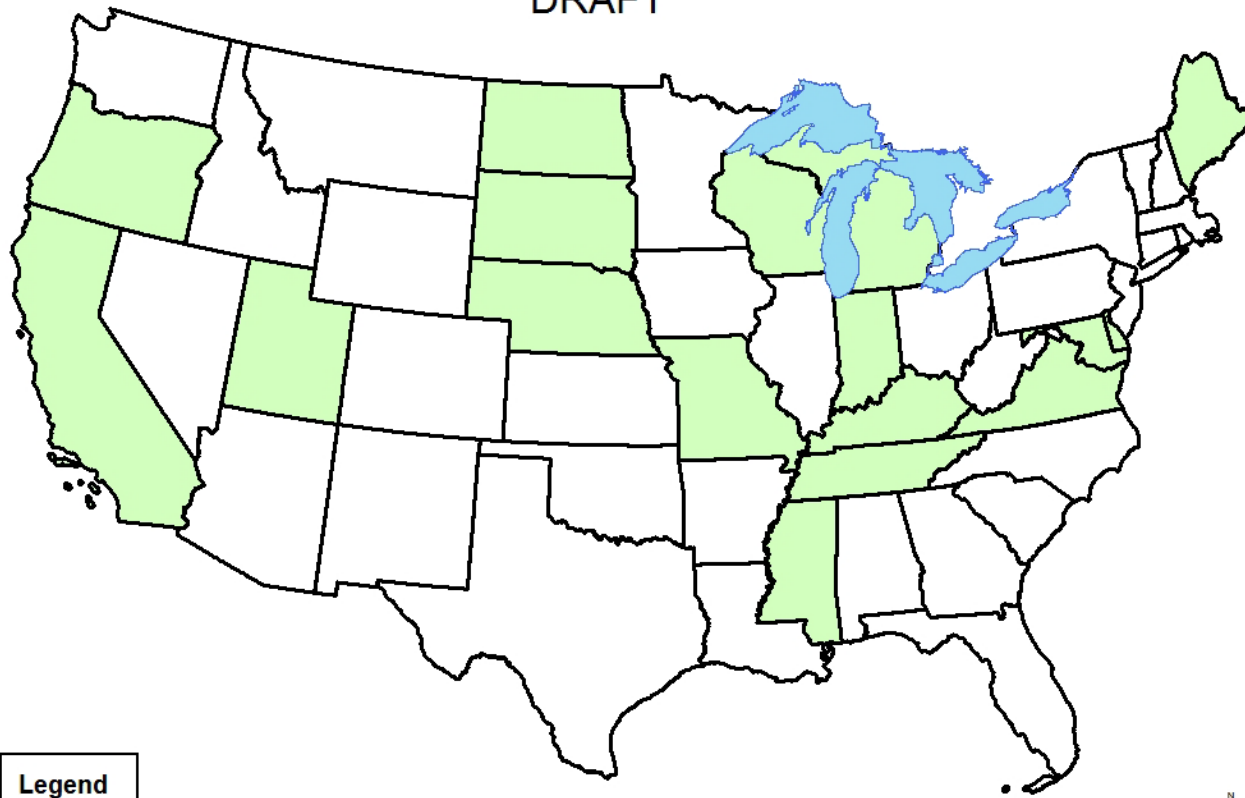


Total Years of NAIP Imagery As of 2017



Projected 2018 NAIP Collection

DRAFT



17 states
74,983 DOQQs

~33.4% of CONUS



As of: 9/1/2017 (Subject to change)



Imagery Programs and Projects

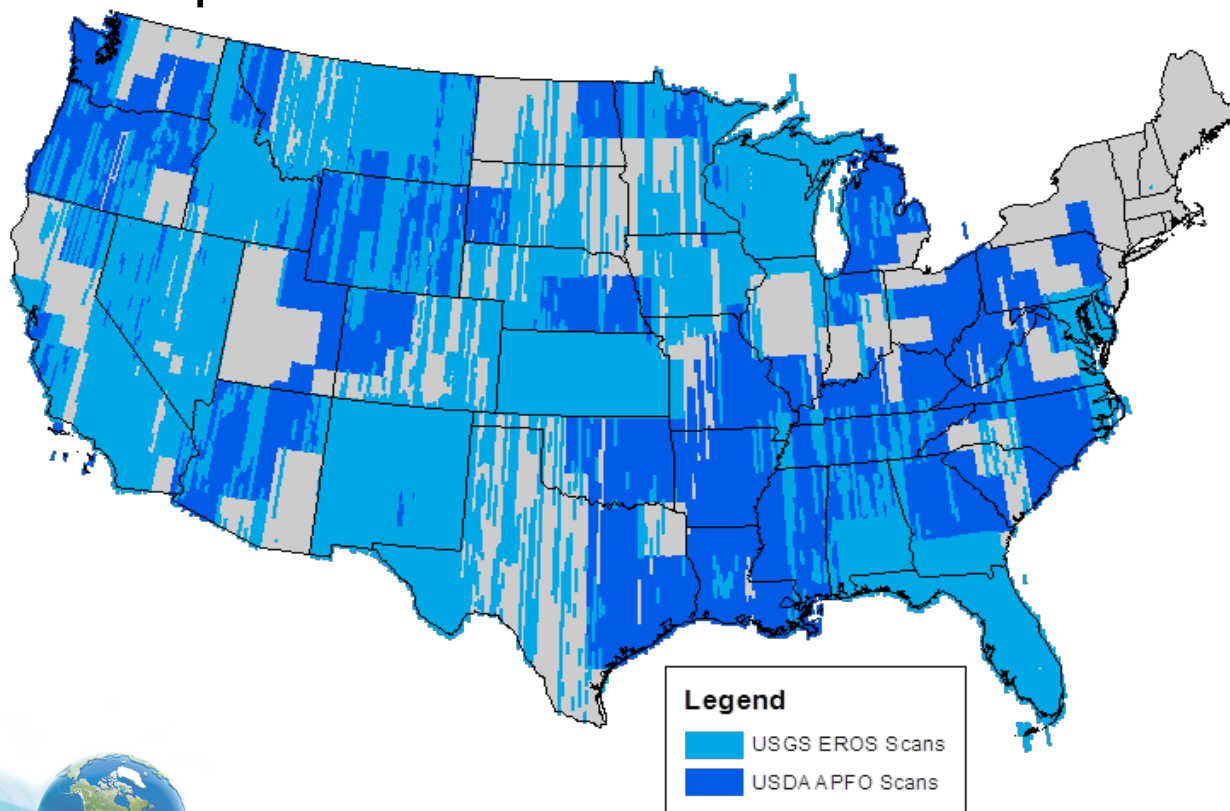
- USGS National Land Imaging Program
 - Manages multiple imagery programs and capabilities via its EROS and Civil Applications Committee Facilities – including the Landsat satellite system
 - Maintains the U.S. global archive of Landsat, U.S. and foreign commercial satellite data, and other historical imagery under NSLRSDA
 - Recognized as 1 of 12 NASA Distributed Active Archive Centers, for its MODIS and ASTER data holdings
- In process of changing how commercial imagery is acquired from NGA
 - Used an “All of Alaska” data request for broad area collection versus targeted “ad hoc” requests
 - Sought limitation on legal oversight of U.S. Civil Government by the NGA
 - NGA requested collateral CAC “deconfliction” of civil imagery requests submitted to NGA
- Changing Nature of NGA commercial data acquisition and distribution
- USGS continuing its efforts to expand to national aerial and satellite collection, for both geospatial and scientific applications, under the FGDC

Imagery Programs and Projects

- NOAA Coastal Shoreline Mapping and Emergency Response Imagery – Ongoing
- Multi-agency Orthoimagery Acquisition in US Pacific Basin – (USDA-NRCS, USDA-FSA, NOAA, DOD-NGA)
- NDOP Member High-Resolution Scanning of NHAP Historic Aerial Photography
 - FY 2014: less than 5% of continental United States available with high-res NHAP
 - FY 2014: less than 5% of digital color infrared of continental United States available with high-res NHAP
 - FY 2017: over 55% of CIR collection available via USGS-Earth Explorer

NHAP CIR Coverage of USGS and APFO Digital Scans

- 192,800 scans available - 94,000 remaining
- All available scans can be downloaded through Earth Explorer at no-cost to the user



National Imagery Summit

DOI and USDA* will host an FGDC National Imagery Summit on May 22-23 in the USGS J.W. Powell Auditorium in Reston, Virginia.

Meeting Purpose

- ❖ To address challenges in today's dynamic ortho-imagery marketplace
- ❖ To chart the future path for agencies' civil-operational land imagery collection in the United States

Topics to be Covered

- ❖ The status of agencies' overhead land imagery programs
- ❖ Issues and gaps in agencies' current and projected future imagery needs
- ❖ Promising approaches to leverage future land-imaging technologies and business models to achieve agencies' objectives
- ❖ Needs and requirements for a future national overhead imagery architecture

Desired Outcomes

- ❖ Enhanced community awareness of civil-operational land-imaging needs
- ❖ Development of a national civil land-imaging collection strategy to address Fed/State/Local/Tribal needs

*FGDC Imagery Theme Co-Leads

NDOP Spring 2018 Steering Committee Meeting

- Planned for May 24 In Reston, VA