Access and Availability of Resourcesat-1 AWiFS Data for Agriculture

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Topics

• How to get ResourceSat-1 data (and other data) that is in the USDA-SIA
  – Archive Explorer

• USDA Satellite Imagery Archive and its role.

• How to order data that is not in the USDA-SIA
  – Special Imagery Purchases
How to get ResourceSat-1 Satellite Data (and other data) that is in the USDA-SIA

- ResourceSat-1 data that is in the USDA-SIA is **free** to participating USDA agencies.
  - Logon to Archive Explorer,
  - Search the collection,
  - Add to shopping cart, and
  - Place an order.

- CDROM arrives via FedEx.

- ResourceSat-1 data is purchased with a Tier 2 license which allows redistribution to Federal/Civil agencies.
USDA-SIA Standing Orders

- USDA-SIA tasks ASRC-MS with a standing order for field-level resolution satellite imagery.
  - CCC section 4 funds are used.
- Imagery is purchased based on contract specifications
  - Delivered on time (5 days after acquisition date for North America; 10 days for other areas.)
  - Less than 50 percent cloudy.
- Imagery arrives; is processed; and available for FAS-PECAD directly and participating agencies through Archive Explorer.
The USDA Satellite Imagery Archive (USDA-SIA) was formed March 16, 2000 by a MOU signed by the Under Secretaries of:

- Farm, Foreign Agricultural Service
- Marketing and Regulatory Programs
- Natural Resources and Environment
- Research, Education and Economics
- Chief Economist
- Chief Information Officer
Goals of the USDA-SIA

• Cost-sharing program to maximize the cost effectiveness of Department expenditures on satellite imagery.
• Reduce the per-image price paid by spreading acquisition costs over all USDA agencies and facilitate cost sharing.
• Take advantage of contracts already in place.
• Benefit from leveraging the power of a single USDA purchasing body.
Why is it at FAS?

• FAS already purchases global imagery datasets.
  – AVHRR, SPOT-Vegetation, Landsat, IRS-AWiFS
• FAS has contracts in place to purchase satellite imagery and receives unprecedented discounts on satellite imagery through the contract.
• FAS has the global satellite imagery archive.
• FAS has incorporated these duties into its Code of Federal Regulation.
(45) Support remote sensing activities of the Department and research with satellite imagery including:

(i) Providing liaison with U.S. space programs;
(ii) Providing administrative management of the USDA Remote Sensing Archive and the transfer of satellite imagery to all USDA agencies;
(iii) Coordinating all agency satellite imagery data needs; and
(iv) Arranging for acquisition, and preparation of imagery for use to the extent of existing capabilities.
USDA-SIA Services

1. Distribute satellite imagery from the USDA-SIA to participating USDA agencies. Manage the contract.
   - Search and discovery through web-based Archive Explorer.

2. Purchase satellite imagery for the USDA-SIA.
   - Requirements defined by FAS for foreign purchases.
   - Requirements defined by FSA and other domestic agencies for US coverage.

3. Purchase other satellite imagery upon request
   - Special imagery purchases are defined by requirement of the agency requesting service and by transfer of funds.
USDA Satellite Imagery Archive

Services Matched to Funding

1. Distribution of imagery and management of USDA-SIA.
2. Satellite imagery purchase.
3. Special satellite imagery purchases.

1. Participating agencies pay an annual subscription fee.
2. CCC annual investment.
3. Transfer of funds via AD-672.
USDA-SIA Benefits from Cooperation and the Collection Continues to Grow
USDA Satellite Imagery Archive

Purchases by Resolution

- High Resolution: 52%
- Medium Resolution: 41%
- Low Resolution: 7%
Satellite Imagery Vendors under contract with ASRC MS

1. MDA Geospatial Services-Radarsat International
2. Earthsat (MDA Federal)
3. Eurimage
4. Space Imaging (GeoEye)
5. OrbImage (GeoEye)
6. Digital Globe
7. SPOT

750 products and services
- Multipsectral imagery (2.8 to 60 meters)
- Pan imagery (0.6 to 10 meters)
- Radar
- Services
How to get Satellite Data not in the USDA-SIA

Ordering satellite data through USDA-SIA:

1. Contact Bob Tetrault (COTR) to place an order
   - robert.tetrault@usda.gov
   - Call Bob Tetrault at 202-690-0130

2. Send detailed requirements (Agency to USDA-SIA)

3. Review bids (Agency and USDA-SIA)

4. Transfer funds via AD-672 (Agency to USDA-SIA)

5. Receive imagery