USDA AERIAL PHOTOGRAPHY FIELD OFFICE

FY 2005 ANNUAL REPORT

United States Department of Agriculture

USDA – FSA Aerial Photography Field Office   Salt Lake City, UT

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The Aerial Photography Field Office (APFO) Strategic Plan of 2005 committed to pro-vide digital and conventional aerial imagery. APFO's management of the National Ag-ricultural Imagery Program (NAIP) led to the fourth year of increasing coverage for the program. NAIP is the largest commercial contract for aerial imagery in the nation and is fast becoming the standard for digital ortho photography acquisition on a nationally co-ordinated scale. Highlights of NAIP in FY 2005 include:

- A decrease in the average age of ortho base imagery in USDA Field Service Cen-ters from 5 years to 3 years. Current ortho imagery leads to more accurate infor-mation in administration of farm programs at the Service Center level.

- Attracted $6.38 million in cost share funding for NAIP with state and other federal partnerships. This amounted to a 27% cost share of total expenditure for NAIP 2005; closing in on the goal of a 3 way cost share for NAIP between FSA, NRCS and state partners.

- Implemented the Data Provisioning System (DPS), a web based data discovery and delivery system which allows users to browse and order ortho imagery based on their specific areas of interest. The DPS provides access to digital ortho im-agery stored in the USDA Geospatial Data Warehouse (GDW) at APFO as well as internal data intended to support APFO production.

Throughout FY 2005, APFO's GDW efforts focused on completing the ingestion of the Mosaic Digital Ortho Quads (MDOQ's) and providing 88% CONUS coverage for the leaf off dataset, while continuing to ingest the NAIP datasets being passed by APFO's inspection process.

APFO assisted the ITSD GIS Center with the migration of the CLU data from ArcView environment to the ArcGIS environment utilizing ArcSDE (Spatial Database Engine). The migration to ArcGIS in particular required software installations, training for field office employees, and data cleaning to ensure the conversion went smoothly. APFO played a vital role in preparing the GIS shapefiles for the conversion to ArcGIS by screening all shapefiles nation-wide. APFO's contribution to the migration effort has given FSA the first nation-wide health check of the geospatial databases.

As a result of APFO's GDW loading efforts, USDA is now recognized by Winter Corpo-ration's, www.wintercorp.com, Top Ten Program as having the second largest Windows hosted data warehouse in the world, with an excess of 14.5 Terabytes.
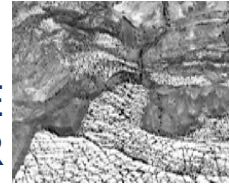
The APFO **IT Branch** implemented Web based applications to assist Sales with processing large data purchases. IT directly supported over 800 Help Desk requests, of which nearly 600 were in direct support of APFO applications. Additional IT accomplishments include;

- Provided project management, new applications, and database support for implementation of streamlined NAIP inspection.

- Initiated a contract for renovation and conversion of photographic darkrooms to office space and test bed for IT staff.

- Deployed national MDOQ and NAIP viewers as part of GOS2 integration.

- Developed metadata for GDW datasets and published to GOS2 portal to support FSA's compliance to OMB Circular A16.

APFO's Imagery & IT Acquisition Branch provided contracting services to FSA and multiple contributing partners for one and two meter digital orthoimagery covering 151,618 Digital Ortho Quarter Quads (DOQQ) in 2,445 counties (2,101,051 square miles) in 32 states. Awarded FY05 task orders totaling $23,795,355 to ten contractors. Imagery was acquired using both film and digital cameras in support of NAIP. Total FY05 Contracting Activities resulted in $33,060,892.73 generating $391,235.04 revenue for Administrative Charges.

The Photo Imaging Branch produced over 249,078 Digital and Photographic Products during FY05, inspected 7,453 NAIP 2 meter Quarter Quads and processed and inspected 1,075 original rolls of NAIP film.

The Geospatial Services Branch provided 18 Digital Mosaics reformatted to FSA specifications and inspected NAIP 1 meter imagery to include 419 Counties. Additionally 26,143 Quarter Quads were inspected. APFO's Geospatial Services reprojected 3 Digital Mosaics and completed 3 historical counties.

- Represented FSA/APFO on Agency/Department teams

- Provided continued support for the use of Mobile Data Collection Devices in Service Centers

The Management Operations Branch provided necessary resources and support for Branch, Section and employees to meet goals and objectives established by the FSA Strategic Plan.

General Administrative Accomplishments include:

- Administered 240 ESRI Virtual Campus Courses for 223 FSA Employees

- APFO employee donations played a fundamental role in educating selected students at APFO's adopted elementary school, Hillsdale, sending 6th Grade GIS Students to the ESRI Education User Conference in San Diego, California.

The Aerial Photography Field Office provided data distribution and support to USDA, FEMA, NOAA, CDC, NGA, Department of the Army and other state and federal agencies in support of disaster recovery efforts towards Hurricanes Rita and Katrina. At the request of the Department of Homeland Security, imagery has been provided of counties in Texas and Louisiana impacted by Hurricane Rita. Over 200 APFO FTE hours were directly dedicated to Hurricane Rita from September 25 through September 27th, 2005.
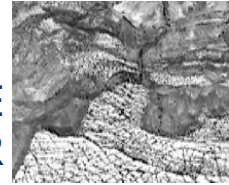
Message from the Director

The Aerial Photography Field Office has retired 15 employees in the past two years. This represents over 450 years of service. These retirees include some of the very best APFO has ever employed.

From Photo Imaging, Quality Assurance and Inspection, Photogrammetrics, Sales and Administration Branches, recent retirees were responsible for producing, inspecting, rectifying, accounting for and shipping millions of products during their careers. Significant contributions to the success of the APFO have been made by the retirees and to each one, we extend our sincere thanks and appreciation.

The success for the future of the APFO no longer lies solely in our ability to produce millions of rectified enlargements for FSA as in the past. It now rests in our ability to acquire, archive and distribute the latest and highest quality geospatial data obtainable. The digital environment we now live and work in sets the course for what and how we perform. APFO is making great strides in acquiring more data than we ever thought possible, archiving at a rate placing us as the second largest Windows hosted Data Warehouse in the world.

It is my responsibility to provide an organization structure which will flourish and allow all employees to succeed and implement innovations to meet the changing and increasing customer requirements.

By meeting these goals and commitments, I believe APFO will insure future retirees can also complete successful careers in an organization that continues to prosper.

MANAGEMENT OPERATIONS BRANCH
ADMINISTRATIVE/PERSONNEL SECTION

To insure the Aerial Photography Field Office operates in an efficient, cost effective manner by providing resources necessary for the production of aerial imagery products

Procurement

APFO's Management Operations Branch, Administrative Section provided maximum, practicable opportunities in acquisitions to small business, small disadvantaged business, and woman owned small business concerns.

Procurement for resources have been through the use of Government-Wide Commercial Purchase Card and the Integrated Acquisition System (IAS), USDA's procurement System replacing the Purchase Order (PRCH) system.

General Administrative Accomplishments

- APFO's responsibility as the distribution point for FSA-compressed county ortho mosaics and the National Agriculture Imagery Program require uninterrupted service, therefore, APFO's IT Disaster Recovery and Contingency Plan included installation of an emergency generator. Planning for this project began in the fall of 2004 and installation was completed by the spring of 2005.

- Administered 240 ESRI Virtual Campus Courses for 223 FSA employees.

Human Resources

APFO's Management Operations Branch, Personnel and HR Management, working closely with Kansas City Administrative Office (KCAO), provided a comprehensive program of personnel service to the APFO employees throughout FY 2005.

During FY 2005, ten employee retirements were processed, four of which were the result of FSA's Voluntary Separation Incentive Payment (VSIP) and or Voluntary Early Retirement Authority (VERA), with effective dates in October, or FY 2006, the remaining 6 being standard or scheduled retirement for FY 2005.

Other Personnel statistics include;

- Personnel Actions Processed - 51
- Training Requests - 84
- Promotions -1
- Employee Records - 68
- Spot Awards - 39
- New Hires - 2
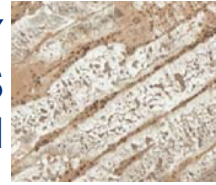
FY 2005 EEO / CR Accomplishments

EEO/CR Training
All employees completed Civil Rights courses *Handling Diversity in the Workplace* and *Stopping Sexual Harassment Before It Starts* via USDA's AGLearn website.

Adopt-A-School Activities
Employee donations contributed significantly to the school's goal of a book for each student for Christmas.
Other employee donations were instrumental in sending 6th grade GIS Students to attend the ESRI Education User Conference in San Diego, CA.

Awareness Banners or Posters
Hispanic Heritage Month
Martin Luther King Jr.

Disability Awareness Month
Posted Articles / Literature to include; "Traveling with a Disability", Service Dogs, Sledge Hockey", and "The Life of Louis Braille"

20th Annual Utah Women's Conference
Theme, "Discovering the Diversity and Unity of Women"

Native American Heritage Month
Awareness Banners
Video, "The Journey of Sacagawea"

Red Cross Tsunami Disaster Relief
Employee's donated $110

Food, School Supply, Clothing and Blood Drives

Black History Month
Awareness Banner
Video, "Small Steps, Big Strides"

Take Our Daughters and Sons to Work Day
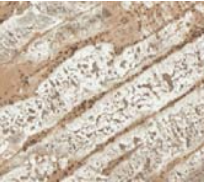
ADMINISTRATIVE/PERSONNEL ACTIVITY

Activity	Hours	% of Time
General Administrative Operations/Procurement	4,610	42%
Shipping/Receiving/Warehouse	1,736	16%
General Personnel	1,720	16%
Training	153	2%
Annual Leave	1,104	10%
Sick Leave	375	3%
Other leave	1,195	11%
TOTAL	10,893	100%

MANAGEMENT OPERATIONS BRANCH
SALES SECTION

To serve each customer as their primary resource of technical information concerning USDA related aerial photography and digital imagery of the United States and its territories. To account and reconcile funds from all government agencies as well as private customers

As part of the Management Operations Branch, the Sales Section is responsible for the receipt and processing of work orders and coverage requests for aerial imagery products and services. Sales is the liaison for the Aerial Photography Field Office to the other government agencies and the public. Sales maintains and monitors all fiscal activity dealing with the sale of aerial imagery.

Major Work Activities Performed

Activity	Number of Activities
Work Orders Processed	4,304
APFO Internal Work Orders Processed	341
Coverage Requests	1,690
Walk-In Customers	735
Telephone Calls	12,963
Catalog Registers	1,140
Billings and Refunds	639
Written Correspondence	2,557
GIS Cataloging	1,202
Digital Products Production	49,355
Total	74,926

Special Accomplishments

Digital Imagery Product Production – In March/April 2005, APFO had an overwhelming response to a brief pilot project promoting County Compressed Mosaics (CCM) by file size on media. At the time, APFO's resources were focused on 1 and 2 meter Quarter Quad (QQ) inspection. To satisfy our customer's delivery requirements, the Sales Section began manually filling digital orders by producing CCMs, Common Land Units (CLU), and 1 and 2 meter QQs on CDs, DVDs and Portable Hard Drives. Sales Produced 19,102 CCMs, 14,879 CLUs and 15,374 QQs.

EarthWhere – Sales received training on and began using EarthWhere Version 3.6.0, a spatial data provisioning tool to conduct NAIP QQ searches and order processing. Currently, this system for delivering QQs on CD and DVD is partially developed, therefore, a dual system of EarthWhere and Work Order Entry System (WOES) is employed for QQ order processing.

USDI-Fish & Wildlife Service, Agreement Number 98210-4-H198 – Under this agreement, the Fish & Wildlife Service ordered aerial photography and digital imagery for their National Wetlands Inventory mapping and updating projects resulting in 16 Work Orders or 3,560 products totaling $46,902.50.

Detailed Activity – One employee completed a consecutive 120 Day Classified Competitive Detail to the Color Section inspecting NAIP04 2 meter QQs. Another employee continued to perform a partial detail on the Rapid Deployment of New Products RDNP) team. To assist APFO, Sales performed NAIP04 2 meter QQ inspection, Common Land Unit (CLU) metadata file management and miscellaneous other activities.

Hurricane Katrina Emergency Order Processing – APFO processed four emergency orders for NAIP digital imagery of the Gulf Coast region devastated by Hurricane Katrina; 106 CCMs and 6,663 QQs were furnished.

Total Dollar Volume $1,480,772.94 - Includes all fiscal activity associated with the sale of aerial imagery.

Major Categories	Amount
Collections Receipts	$277,614.25
Credit Cards Receipts	$604,522.50
Federal Bills	$300,470.00
Flying Contracts/Products	$370,937.00
Non-Federal Bills	$123,823.00

Fiscal Year Statistical Comparison

Fiscal Year 2005	60 Units Per Order
Fiscal Year 2004	37 Units Per Order
Fiscal Year 2003	45 Units Per Order
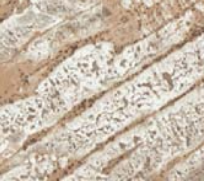
FY05 Customers of Aerial Photography Products and Services

Agency	% of Requests	Units	% of Revenue	Dollar
FSA	5.4	10,725	4	$ 33,737.00
FS	68.3	136,022	46	$360,249.50
NRCS	3.4	6,846	9	$ 69,880.00
NASS	0.3	535	1	$ 8,560.00
GS	0.7	1,461	3	$ 19,992.00
Other Federal	4.9	9,797	8	$ 63,616.00
State Agencies	5.6	11,139	8	$ 65,673.50
Public	11.4	22,750	20	$159,680.50
Totals	**100**	**199,275**	**100**	**$781,388.50**

FY05 Customers of Digital Imagery Products and Services

Agency	% of Requests	Units	% of Revenue	Dollar
FSA	42.6	42,288	67	$1,111,941.50
FS	3.7	3,688	2	$ 36,640.00
NRCS	5.7	5,685	3	$ 56,350.00
NASS	1.6	1,541	1	$ 24,960.00
GS	4.9	4,901	4	$ 66,054.00
Other Federal	3.3	3,306	2	$ 27,454.50
State Agencies	9.0	8,925	4	$ 67,751.00
Public	29.2	29,047	17	$ 277,341.00
Totals	**100**	**99,381**	**100**	**$1,668,492.00**
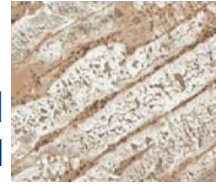
SALES SECTION ACTIVITY

Activity	Hours	% of Time
Support Operations	7,180	53%
Work Order Processing	1,084	8%
Fiscal Operations	950	7%
Detailed Activity	894	7%
Digital product Production	481	4%
Training	294	2%
Annual Leave	1,010	8%
Sick Leave	504	4%
Other Leave	697	5%
Section Administration	246	2%
TOTAL	13,514	100%

INFORMATION TECHNOLOGY SERVICES BRANCH

In FY05, ITSB continued to work towards web based delivery of GIS data, meeting both agency and federal mandates successfully and within timelines given for both customer delivery and production purposes.

Other goals met in FY04:

GDW

- APFO purchased an upgrade to the existing SAN (Storage Area Network), allowing for additional storage capacity

- With the completion of a disk array upgrade, GDW now has the ability to expand to over 70 TB of online data

- GDW has loaded and replicated over 16 TB of MDOQ and NAIP imagery

- Recent SAN and system enhancements are allowing GDW to better integrate with APFO systems including EarthWhere. This upgrade is increasing through-put and delivery capabilities

- Expanded data management process to incorporate a raster data mart to support map services

- Implemented ETL web services to support MDOQ theme population of the USDA TerraServer data mart at ITC

- Began work on CLU replication procedures to enable ingestion of CLU into GDW

IT Security

- Certification and Accreditation is being reviewed and maintained for both APFO production systems and GDW

- Disaster Recovery is being reviewed and maintained for APFO and GDW

- ITS contracted for the migration of legacy systems to newer hardware and software; expected completion is 31 Dec 05

- With the assistance of OCIO ITS staff, APFO successfully migrated to the AGLO domain

LAN

APFO contracted for installation of new network backbone; installation was completed within contracted timeframes.

Application Development/Implementation
In the last year ITSB has developed and/or implemented the following:

- Resource Data Gateway - APFO continues working with ITC (Fort Collins, CO) to expand and improve the Resource Data Gateway for delivery purposes of CCM's to Services Centers and other USDA agencies upon request

- APFO implemented a COTS application (EarthWhere). This application was originally intended to enhance and increase APFO's internal production systems. EarthWhere became available as a production tool in January 2005. Since its implementation, EarthWhere has evolved into a Public Delivery tool known as DPS (Data Provisioning System).

- Customer Help Desk (for Internal use only) – ITSB supported a total of 821 Help Desk requests in FY05. Of that, 585 were in direct support APFO specific applications

- Inspection applications – As a new process was developed to increase productivity with inspection process, ITSB developed new applications. These applications have been developed in house to accommodate the Q&A inspection process of both 1 meter and 2 meter imagery before it is released for USDA use or external sale.

APFO ITSB FY2005 Accomplishments

- Implemented Web based application to assist Sales in the processing of large data purchases

- Provided project management for project to streamline NAIP inspection process developed to assist the newly formed inspection team

- Initiated contract to migrate legacy systems; this will ensure APFO complies with Security and Accreditation requirements

- Data Provisioning System (DPS) now available to Federal and State Agencies, allowing agencies to produce customized data as needed

- Initiated a contract for renovation of dark rooms no longer in use, to provide office space for IT staff

- Initiated and closed contract for new Network Cable plant, providing APFO the ability to expand to meet additional requirements

- Implemented off site storage strategy, ensuring availability of data in the event of an emergency.

- Provided project management for development of NAIP status web site

- Provided project management, new applications, and database support for implementation of streamlined NAIP inspection team

- Provided Data Distribution and support to USDA, FEMA, NOAA, CDC, NGA, Department of the Army and other state and federal agencies in support of disaster recovery from Hurricanes Rita and Katrina

APFO GDW FY2005 Accomplishments

During FY2005, GDW efforts at APFO were focused on completing the ingestion of the MDOQ dataset, as well as continuing to ingest the NAIP dataset as it passed APFO inspection. During this time all available MDOQs were loaded into the GDW, providing 88% CONUS coverage for the leaf off dataset. At this point gaps were identified and work began on backfilling those in the MDOQ coverage with raw USGS quarterquads. Also during FY2005, all FY03 NAIP 1 meter imagery was loaded into the GDW and work began on ingesting the FY04 NAIP imagery as it passed through the APFO inspection process. A key note of the FY2005 GDW loading efforts is that USDA is now recognized by Winter Corporation's Top Ten Program (www.wintercorp.com) as having the second largest Windows-hosted data warehouse in the world ; 14.5 Terrabytes. Other GDW related accomplishments during FY2005 include:

- Migrated GDW environment to ArcGIS 9, ArcSDE 9, and ArcIMS 9 software platforms

- Completed GDW ingestion of APFO generated MDOQs

- Completed GDW ingestion of FY03 NAIP 1 meter and 2 meter imagery

- Developed and implemented QA process to assist FSA with national CLU deployment initiative

- Developed metadata for GDW datasets and published to GOS2 portal to support FSA's compliance to OMB Circular A16

- Deployed national MDOQ and NAIP viewers as part of GOS2 integration

Employee Training

Diversity in the Work Place
Dealing with Difficult People
Microsoft TechNet Seminars
Management Training
Oracle

Staff

Three contractors remain on site from Computer Services Corporation (CSC) to assist APFO in development, implementation and management of the Geospatial Data Warehouse. Three (3) FTE's were transferred to the newly established OCIO ITS organization. A total of six federal employees continue to support, maintain, and develop production specific applications, database and Web Services of APFO as well as GDW requirements. APFO hired one new employee for IT Database Management, with one position still vacant, positions that are critical to our success with NAIP.

IMAGERY INFORMATION TECHNOLOGY ACQUISITION BRANCH
CONTRACTING SECTION
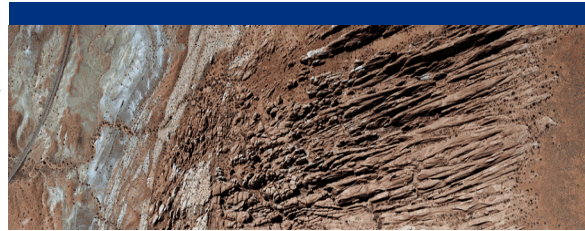
To provide quality procurement services which exceed customer expectations by promoting cooperative partnerships and excellence in customer service and products

The Contracting Section is responsible for providing contracting services, supplies, and products in support of aerial imagery programs of USDA and other Federal Agencies. Primary functions include coordinating requests for new aerial photography and digital imagery, establishing partnerships, acquisition planning, requirements preparation, proposal evaluation, source selection, and administering the subsequent contracts. The Contracting Section is also responsible for the procurement of APFO Information Technology acquisitions, special requirement purchases, and other procurement support activities.

Fiscal Year 2005 Procurement Achievements Summary:

- Total Contracts Awarded – **109 Contracts** (35 aerial imagery contracts and 74 information technology contracts)

- Total Contract Value – **$33,566,550.27** ($32,820,274.70 aerial imagery contracts and $746,275.57 IT contracts)

- Administrative Charge Revenue – **$391,235.04**

- APFO Furnished Products (Estimated) – **$350,200.00**

- Total Coverage Contracted – **2,384,766 Square Miles**

- Contract Administration – **80 Aerial imagery projects were administered** (37 were new project areas and 43 were carried over from FY2004)

- Contract Pricing – The overall weighted average price for resource aerial photography contracts in FY2005 was **$25.31** per square mile ($40.24 per linear mile)

Fiscal Year 2005 Program Achievements:
Small Business Concern Programs:

Program	Small Business Concerns	Large Business Concerns	NAFTA Business Concerns
NAIP Contracts	23%	38%	39%
Resource Contracts	39%	5%	56%
SAAP Contracts	40%	60%	0%
ALL CONTRACTS	**29%**	**41%**	**30%**

The Contracting Section solicited sources for program requirements under a 100% Set-aside for Small Business Concerns where applicable. Small Business Concerns received 29% of the overall total contract dollar amount, Large Business Concerns received 41% of the total and North American Free Trade Agreement (NAFTA) Business Concerns received 30% of the total. Distribution of the contracts by program is shown above.

National Agriculture Imagery Program (NAIP):

Contracting services were provided to FSA and other contributing partners for 1 and 2 meter digital orthoimagery covering 2,445 counties (2,101,051 square miles) in 32 states, awarded NAIP contracts and modifications for a total value of $23,813,951.71. An agreement for $200,000.00 was established with the State of New Mexico for NAIP-like imagery. Approximately $6.4 million was contributed by state and federal agencies through partnership agreements, and the balance of $17.6 million was funded by FSA. Imagery was acquired using both precision mapping film cameras and large format digital cameras.

Resource Aerial Photography Contracts:

A total of 48,550 linear miles of conventional aerial photography services (77,192 square miles) was contracted. Sixteen resource aerial photography contracts were awarded for a total value of $1,953,443.76. Included in those contracts were 15 U.S. Forest Service (USFS) projects, and 1 Natural Resource Conservation Service (NRCS) project.

Small Area Aerial Photography (SAAP) Contracts:

Contracting services were provided to NRCS and USFS to acquire small area aerial photography and scanning services. NRCS required two projects including the National Resources Inventory (NRI) program covering 70,464 NRI Sites and 64,810 scans, and the Southern California Emergency Watershed Priority Community Change Detection Project covering nine large areas of interest. The USFS project was for 1,056 Forest Inventory Assessment (FIA) Sites in Nevada. This was the first year of a 5-year IDIQ contract with a FY2005 total value of $6,122,477.65.
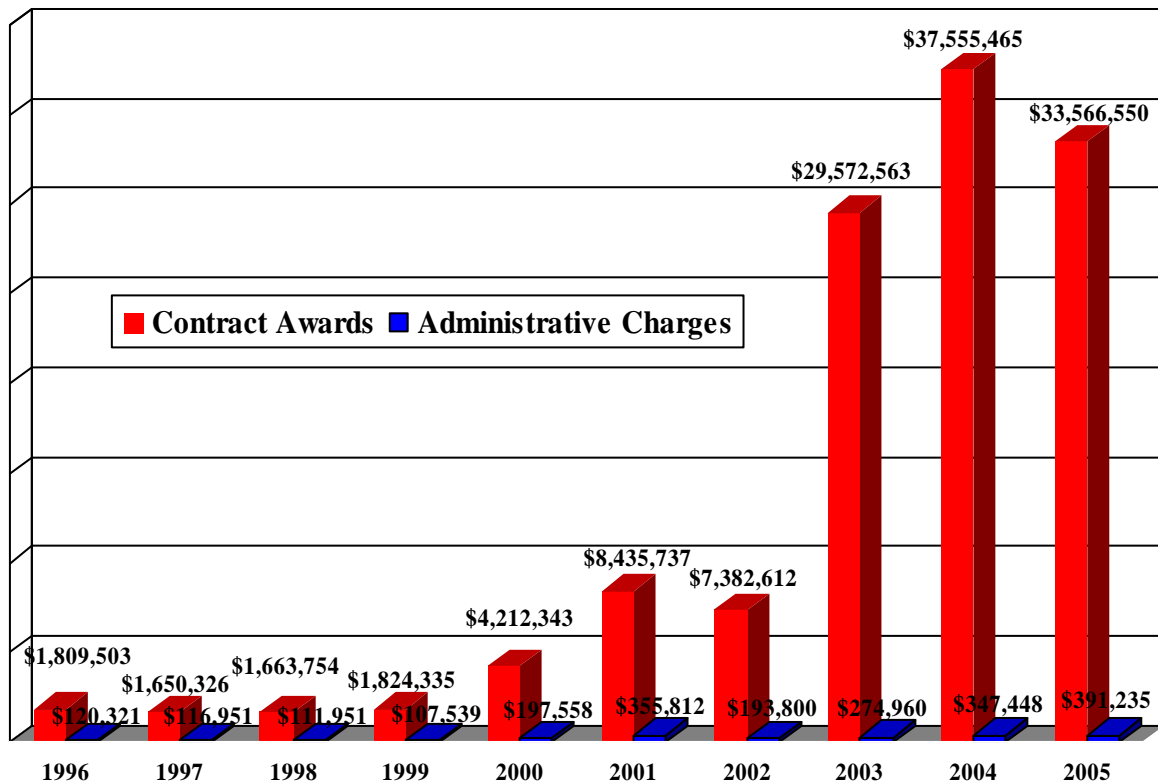
Alaska NRI Contract:

Provided contracting services to NRCS for 12,046 square miles (31,207 square kilometers) of 1:12,000 and 1:24,000 scale orthorectified satellite imagery for the National Resources Inventory (NRI) program in multiple areas of Alaska, awarded one contract for a total of $619,880.70.

Soil Survey Orthoimagery Contract:

Provided contracting services to NRCS for 1,666 DOQQs (20,571 square miles) of 1 meter digital orthoimagery in areas of Alabama, Arkansas, Minnesota, New Hampshire, New York, Rhode Island, Virginia, and Wisconsin, awarded one contract for a total of $274,890.00

Computer Equipment & Maintenance Contracts:

Provided contract authority for the purchase of computer equipment, software and IT Maintenance Agreements at the APFO for a total amount of $746,275.57, 48 purchase orders were issued for IT hardware & software acquisitions, and 26 purchase orders were issued for IT Maintenance contracts.

Year	Contract Awards	Administrative Charges
1996	$1,809,503	$120,321
1997	$1,650,326	$116,951
1998	$1,663,754	$111,951
1999	$1,824,335	$107,539
2000	$4,212,343	$197,558
2001	$8,435,737	$355,812
2002	$7,382,612	$193,800
2003	$29,572,563	$274,960
2004	$37,555,465	$347,448
2005	$33,566,550	$391,235

Fiscal Year 2005 Contract Award Summary:

$746,276 2% $619,881 2%

$6,232,997 19%

$1,678,554 5%

$274,890 1%

$24,013,952 71%

- ■ Small Area Contract (NRI)
- ■ USFS & Other Resource
- ■ NRCS Soil Survey
- ■ USDA NAIP IMAGERY
- ■ APFO IT Purchases
- ■ NRCS NRI ALASKA
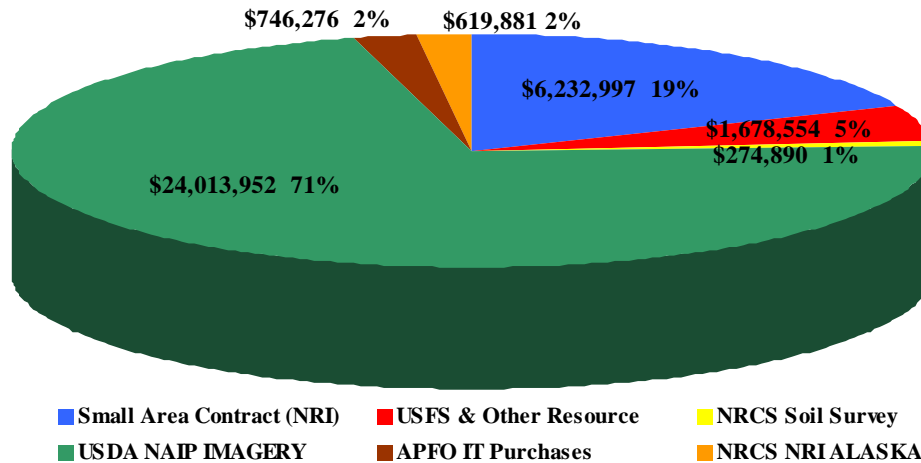
TOTAL CONTRACT AWARDS: $33,566,550

CONTRACTING SECTION ACTIVITY

Activity	Hours	% of Time
Contracting	7,183	62%
Contract Support	774	6%
Contract QA	413	3%
Coordination	840	7%
Training	407	3%
Section Administration	182	2%
Annual Leave	1,064	10%
Sick Leave	417	4%
Other Leave	455	4%
Total	11,735	100%

IMAGERY INFORMATION TECHNOLOGY
ACQUISITION BRANCH
INSPECTION SECTION

Assure customer needs are met through the application of Government Performance Results Act (GPRA) methods and procedures to inspect products received, produced and released from the Aerial Photography Field Office

The Inspection Section is directly responsible for the quality assurance inspection, monitoring, and disseminating of imagery and geospatial data for the National Agriculture Imagery Program (NAIP), National Resource Inventory (NRI) Imagery, Resource Aerial Photography, and Common Land Unit (CLU) digitizing as well as APFO website update information including status maps and data for these programs and MDOQs. This Section also maintains the Service Center GIS priority (SCIT) and Catalog Listings.

Fiscal Year 2005 Achievements Summary:

National Agriculture Imagery Program (NAIP)
Total of 2,445 counties flight planned, covering 2,101,051 square miles (151,618 DOQQs). Providing inspections services for the Compressed County Mosaics (CCM) and inspection management services for all other NAIP deliverables. Inspection and acceptance of contracted deliverables is currently being performed.

Small Area Aerial Photography (SAAP) Contract Imagery

Inspected and accepted the following aerial photography site imagery:

National Resources Inventory (NRI)	70,464 sites
Scanning Services for NRI	64,810 scans
NRCS Southern California Project	9 areas
USFS Forest Inventory Assessment (FIA)	1,056 sites
NRCS Alaska NRI (separate satellite contract)	12,046 sq.mi

Resource Aerial Photography:
Provided flight planning and contract monitoring services for 37 resource aerial photography projects covering 77,192 square miles (48,550 linear miles). Inspection and acceptance is currently being performed.

Common Land Unit (CLU) Digitizing

Inspected and accepted 356 of 422 counties produced by contract vendors. Inspection and acceptance is currently being performed for the final remaining contract counties.

Other Section Accomplishments

Performed comprehensive review and corrections to data contained in the APFO Catalog Listing. Regularly reviewed and updated all contract program web-based status maps and information.

INSPECTION SECTION ACTIVITY REPORT

Activity	Hours	% of Time
Resource Inspection	3,273	18%
CLU Inspection	3,390	17%
QA Contract Management	2,395	13%
NRI Inspection	2,038	11%
QA Support	1,274	7%
NAIP Inspection	1,066	6%
Contract Activities	708	4%
Other Section Activities	895	5%
Training	339	2%
Section Administration	246	1%
Annual Leave	1,619	9%
Sick Leave	421	2%
Other Leave	861	5%
Total	17,525	100%

GEOSPATIAL SERVICES BRANCH
DIGITAL SECTION

Digital Services Section is responsible for producing accurate and quality checked 7.5'
tiled mosaics (in county format), from USGS DOQQs. Imagery is made available in
soft and hardcopy formats to meet the needs of GIS implementation in support of FSA
Service Centers. In addition, the Digital Services Section was tasked to inspect all 1
meter NAIP imagery for FY2004 NAIP. Cartographic features such as scales or leg-
ends accompany hardcopy digital products, thus enhancing usability. Responsibilities
of the Digital Section include:

- County Index maps created with quarter quad overlays

- County, State, and National Status Maps containing geospatial information

- Maintain, in county format, archived 7.5' tiles

- Detailed inspection status maps by county

Strategic Planning

Digital Services completed its fifth year as a section in the reorganized Geospatial
Branch. Equipment, process improvements, and training were goals established and
achieved, including:

Library Additions	336 8mm tapes added for a total of 7,443 8mm tapes
Process Improvements	File manipulation scripts written and improved
Training	ESRI online courses - 5 Employees Flight Planning - 1 Employee

Accomplishments

Production
       County mosaics completed - 85
       County mosaics reformatted - 10
       APFO generated ortho imagery from scanned NAPP - 3
       Mosaic plots completed - 85
       Square miles completed - 67,865
       1 meter counties inspected - 443
       1 meter tiles inspected – 25,502

DIGITAL SECTION ACTIVITY

Activity	Hours	% of Time
Production Activity	25,091	66%
Detailed Activity	3,270	9%
Section Administration	934	2%
Training	1,778	4%
Annual Leave	3,191	8%
Sick Leave	1,495	4%
Other Leave	2,692	7%
Total	38,451	100%

PRODUCTION ACTIVITY

Activity	Total hours
Project Assistance	107.00
Documentation	174.75
Product Development	453.00
GIS Applications	5.00
File Management	807.75
NAIP 1 Meter Inspection	13,529.65
Image Dodging	48.00
Mosaicking DOQQ's	544.50
Inspecting Seam Lines	657.40
Status Map Generation	36.00
Project Preparation	1,870.00
Special Projects	3.00
NAIP Flight Planning	6.50
CD Writing - BW	358.60
CD Writing - CIR	41.25
Ortho Production	2,118.70
Application Programming	49.50
Special Digital Ortho Projects	1,205.00

GEOSPATIAL SERVICES BRANCH
SERVICE CENTER SUPPORT SECTION

Strategic Planning

During FY05 the Service Center Support Section contributed to Agency, Departmental, and non-governmental organizations to improve GIS and imagery products and services in FSA offices and for a multitude of other users. This included participation on inter-agency teams, evaluations and support for software and hardware, and development of tools for GIS and imagery applications. Helpdesk support to all users of APFO digital data continues to grow. An additional employee was added this year allowing for expanded support for APFO as well as to a wide variety of government and private organizations.

Reports
- NAIP information sheet. Other information sheets in development for FY06 on subjects such as CLU and image compression.

- Step by step instructions for several no-cost data viewers.

Research
- Evaluation and testing of image compression formats. Recommendations and support regarding the use of MrSID Generation 3 (MG3) compression for NAIP.

- Provided technical support, data samples and coordination with FSA headquarters, IO lab, state FSA offices, SCA offices, and LizardTech for the necessary software upgrades to use MG3 imagery.

- Technical support and testing on a variety of NAIP related subjects.

- Initial development of a national NAIP evaluation and survey. Full implementation to occur in the first quarter of FY 2006.

Presentations
- ESRI Southwest Users Group (SWUG) conference in Park City, UT about NAIP.

- FGDC Cadastral Subcommittee presentation about NAIP and CLU.

- Inter-agency Digital Imagery Working Group presentation on NAIP and APFO.

- Service Center Agencies Geospatial Data Management Team presentation on compression.

- National Digital Orthophotography Program (NDOP) presentation on image compression.

- FSA GIS conference presentation on compression and SCSS services.

Training Provided

- To APFO Sales staff about image compression and no-cost data viewers.

- Coordination and planning with FSA headquarters and Puerto Rico officials for CLU, GPS, GIS, and imagery training.

- Coordination with ESRI on updates to the course "Introduction to ArcGIS I for Service Center Agencies".

- Weekly GIS training to a sixth grade class at Hillsdale Elementary School as part of the Adopt-A-School program. These children gave a presentation at the ESRI Education Users Conference in San Diego California.

Training Received

- Metadata teaching methodologies

- ESRI Virtual campus courses. Including ArcSDE, VBA, Network Analyst, and Working with Geodatabases

Agency and Department Committee Assignments

- Geospatial Data Management Team

- National Digital Orthophotography Program

- Inter-agency Digital Imagery Working Group

- FGDC Cadastral Subcommittee

- FSA Compliance Program Review Team

- Non-standard Imagery Review Team

- Mobile Data Collection Devices

- Image Compression, CLU, NAIP Planning, Help Desk, Security, and Metadata
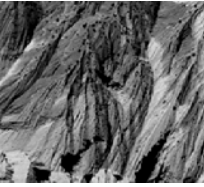
Data

- Coordination with NRCS and FSA for image acquisition of Hawaii and Pacific Basin islands.

- Coordination with FSA, Army Corp of Engineers, and the Centro de Recaudacion de Ingresos Municipales (CRIM) for imagery and cadastral data for Puerto Rico.

Conferences Attended

- ESRI Users Conference

- ESRI Southwest Users Group (SWUG)

- FSA GIS Conference

Service Center Support Section Help Desk Support

- 276 total requests for information, technical support and data

SERVICE CENTER SUPPORT SECTION ACTIVITY

Activity	Hours	% of Time
Product Development	3,185	77%
Training	226	5%
Special Projects	128	3%
Section Administration	186	4%
Annual Leave	221	5%
Sick Leave	85	2%
Other Leave	177	4%
Total	4,208	100%

PHOTO IMAGING BRANCH
TECHNICAL SUPPORT SECTION
BLACK & WHITE PHOTO SECTION
COLOR PHOTO SECTION

To provide Quality in the form of value, service and customer conformance; working in unity with our customers in order to meet their expectations, providing the highest quality B&W and color aerial photographic and digital products available

PHOTO IMAGING BRANCH

The Photo Imaging Branch is responsible for generating color and black and white aerial photographic products and digital imagery for various customers, including FSA, NRCS, Forest Service, other federal and non-federal agencies and the public. This branch is also accountable for inspecting NAIP/NAPP original film, chemical mixing, electronic and mechanical maintenance and managing the APFO film and media library. Additional responsibilities during FY05 included inspection of NAIP 2 meter Quarter Quads.

Three employees from the Digital Section and one from Sales were detailed to assist with the 2 meter tile inspection. Two photographers from Color and one from B&W also inspected during this time. Additional short term help was given by several employees from the Inspection and Sales Sections. Twenty-six states were inspected consisting of 79,324 tiles.

TECHNICAL SUPPORT

The Tech Support staff has been involved in the following activities during FY05:

- Moved and completely refurbished one B&W processor, refurbished, installed and tested surplus processors received from EROS Data Center.

- Removed for property excess three processors, two horizontal enlargers, three vertical enlargers and contact printers.

- Assisted IT Branch with the site audit in preparation for the installation of the Cat 6 cable backbone within APFO, serving as contact point and monitor for it's successful completion.

- Provided the IT staff with 1,125 hours of support during FY05.

- Remodeled and repaired the Photo Lab chemical storage area.

TECHNICAL SUPPORT SECTION ACTIVITY

Activity	Hours	% of Time
IT Equipment Maintenance/Repair	1,143	28%
Black & White Equipment Maintenance/Repair	1,000	24%
Color Equipment Maintenance/Repair	591	14%
Tech Staff Equipment Maintenance/Repair	492	12%
Special Projects	29	1%
Training	22	1%
Annual Leave	437	11%
Sick Leave	212	5%
Other leave	170	4%
Total	4,096	100%

The Photo Branch is continually looking for ways to improve their processes and better serve and exceed customer requirements.

During FY05 the branch released 252,604 total products, both photographic and digital, processed and released 5,168 orders using 11,446 rolls of film and Inspected 220,623 photographic products.

Achievements In Products produced/Hours consumed during FY05 include:

- Color Photography – 162,986 products / 4,225.5 hours

- Black and White Photography – 35,453 / 2,478.8 hours

- Image Scans produced – 22,184 images / 2,955.25 hours

- Image Scan CDs produced – 761 products / 178 hours

- Image Scan DVDs produced – 852 products / 192.5 hours

- L700 Cataloging MDOQs – 651.25 hours

- CD Duplicating – 5,258 products / 167 hours

- Laminating – 16,331 products / 80.5 hours

- Trimming/Cutting – 178.5 hours

- NAIP Film inspection – 1,614 hours

- Rolls inspected – NAIP / 1,128

- NAIP 2 meter QQs inspected – 79,324 tiles / 10,366 hours

Other Accomplishments

- Software was purchased to calibrate computer monitors throughout APFO. The Color section is responsible for this process and a quarterly schedule was set up to maintain the calibration of all monitors.

- One employee was detailed to work on the development team for the new NAIP inspection process for 2005 imagery; 372 hours were committed to this project.

BLACK & WHITE/COLOR PHOTO SECTION ACTIVITY

Activity	Hours	% of Time
NAIP 2 Meter Tile Inspection	10,366	25%
Support Activities/ Special Projects	8,234	19%
Contacts	4,768	11%
General Branch Activity	3,253	8%
Digital Imagery (scanning)	2,970	7%
Enlargements	1,467	4%
Film Inspection	1,669	4%
Digital Media	1,242	3%
Section Administration	595	1%
Training	266	1%
Annual Leave	4,007	9%
Sick Leave	1,766	4%
Other Leave	1,632	4%
Total	42,235	100%