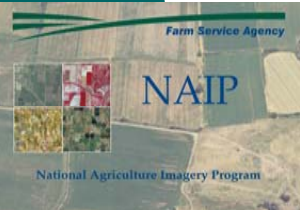


National Agriculture Imagery Program

NAIP Informational Meeting

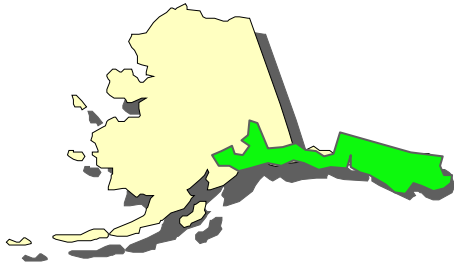
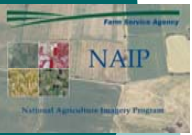


USDA Forest Service Benefits from NAIP Cooperation

July 19, 2006
Washington DC

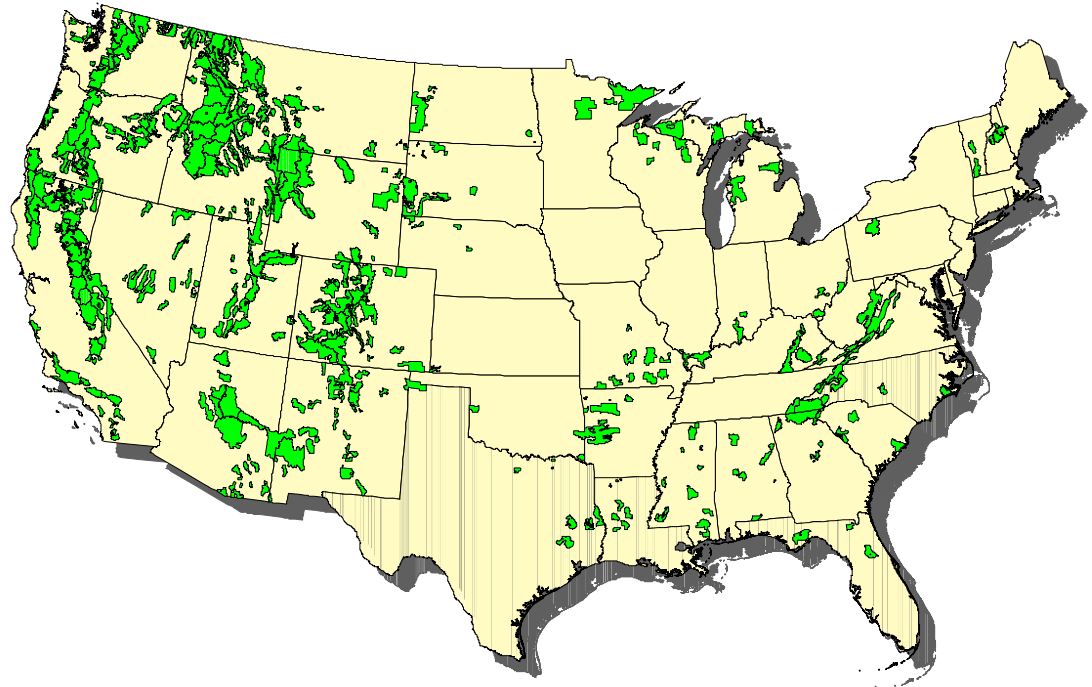
Bill Belton
Asst. Remote Sensing Program Manager
USDA Forest Service
Washington, DC
phone: 703-605-4599 fax: 703-605-1542
email: wbelton@fs.fed.us

Forest Service Organization



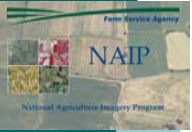
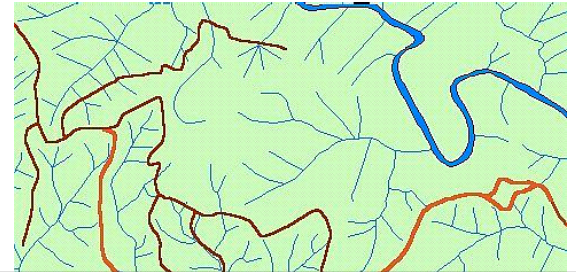
- National Headquarters in Washington, DC
- 9 Regional Offices
- 155 National Forests and 20 Grasslands
 - 600 Ranger Districts
- 191 Million Acres

- Research
 - 7 Stations
 - 50 Field Offices
- State and Private Forestry
 - Fire and Aviation Management
 - Forest Health Protection
- International Programs



Uses of Aerial Photography

- Forest planning
- Forest health protection
- Watershed restoration
- Fire
- Disturbance processes
- Habitat
- Recreation
- Transportation
- Research

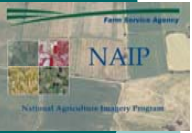


Forest Service Field Users Comments



- Digital orthophotographs are a framework layer for a GIS foundation and the national aerial photography provides the base information. We must be proactive and contribute in building a National Aerial Photography Program. – Region 3 GIS Program Manager
- The responses [from our GIS users] overwhelmingly support the need for this program - "very valuable", "essential" and "highest value and utility" were some of the notations. I would echo this as the DOQ program has become the standardizing guide for much of our resource GIS data at all levels of the organization. – Region 5 Geospatial Group Leader
- I am a Silviculturist on a ranger district on the Daniel Boone NF in Kentucky. The cyclic updates or revised imagery in your proposal is an important necessity to users such as myself. I feel that 3 years is optimum with 5 years the maximum. The National Forest are continually experiencing forest changing events some of which are catastrophic in scope. Decreasing budgets are requiring us to be more dependent on remote sensing tools such as the doqs. The more recent these are the better. – Silviculturist, Somerset Ranger District

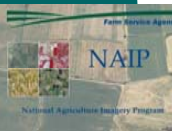
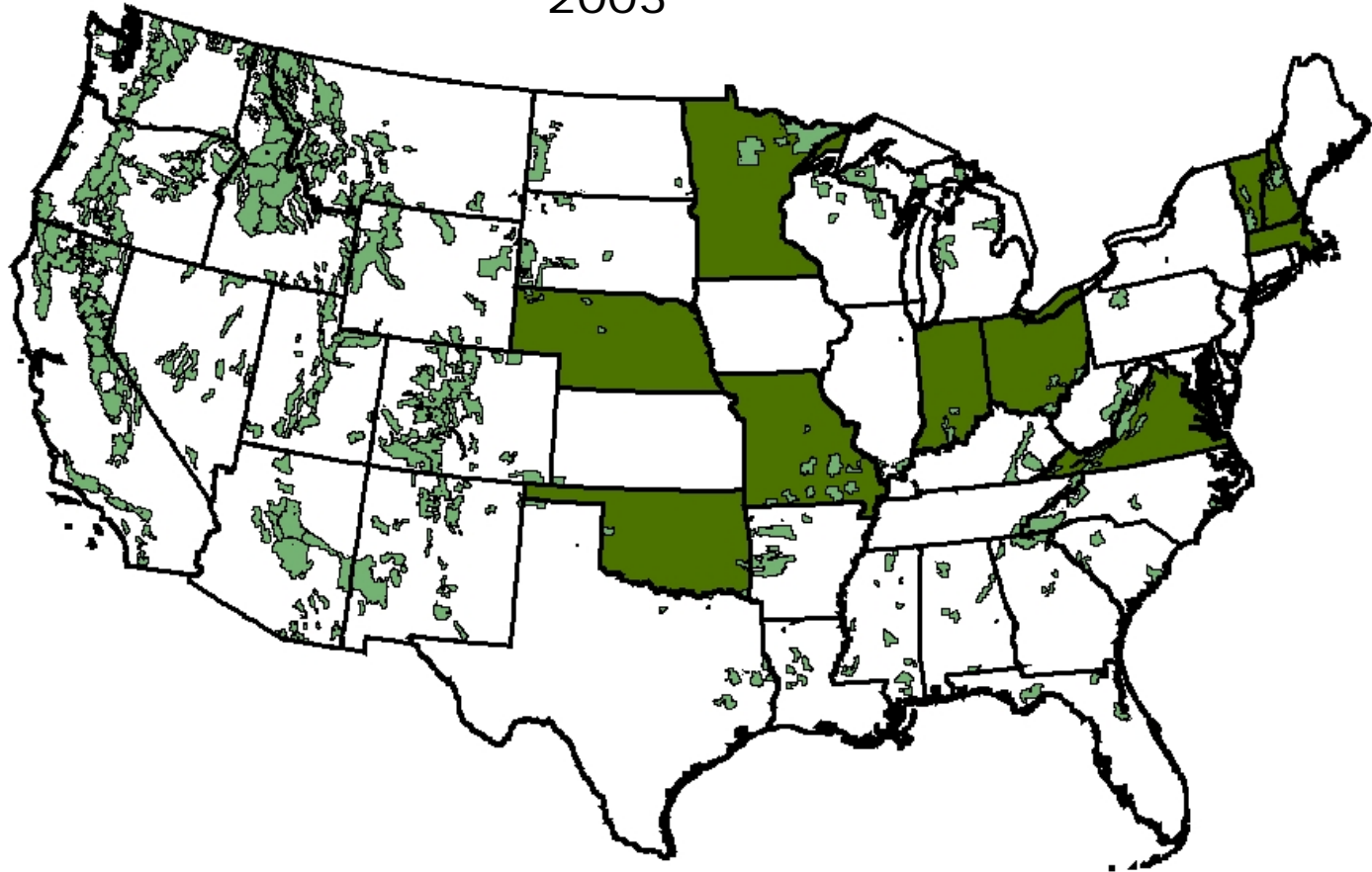
Forest Service National Aerial Photography Program



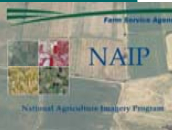
- Provide complete coverage of NFS lands on a 5-year cycle
 - Based on field input/requirements
 - Recommended by National Digital Orthophotography Program (NDOP)
 - Consistent with NAIP 5-year cycle
- Leverage funding through partnerships when possible
 - Primarily through NAIP
 - With States or other Federal agencies when appropriate
- Contract for individual areas when necessary
 - Alaska – Tongass NF 2004, Chugach NF 2007
 - Disaster Response/Recovery

NAIP 1-Meter Coverage 2003-2006

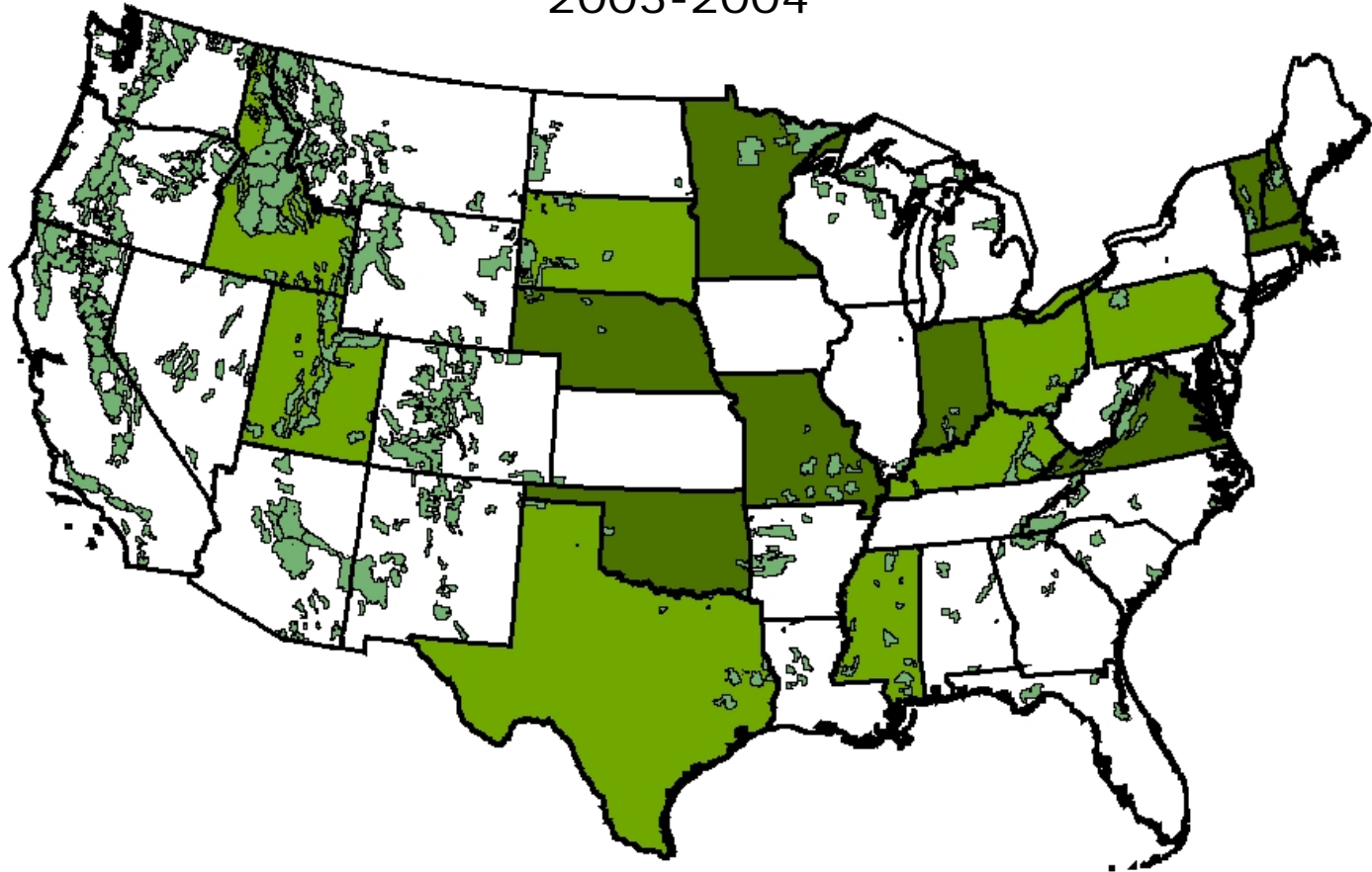
2003



NAIP 1-Meter Coverage 2003-2006

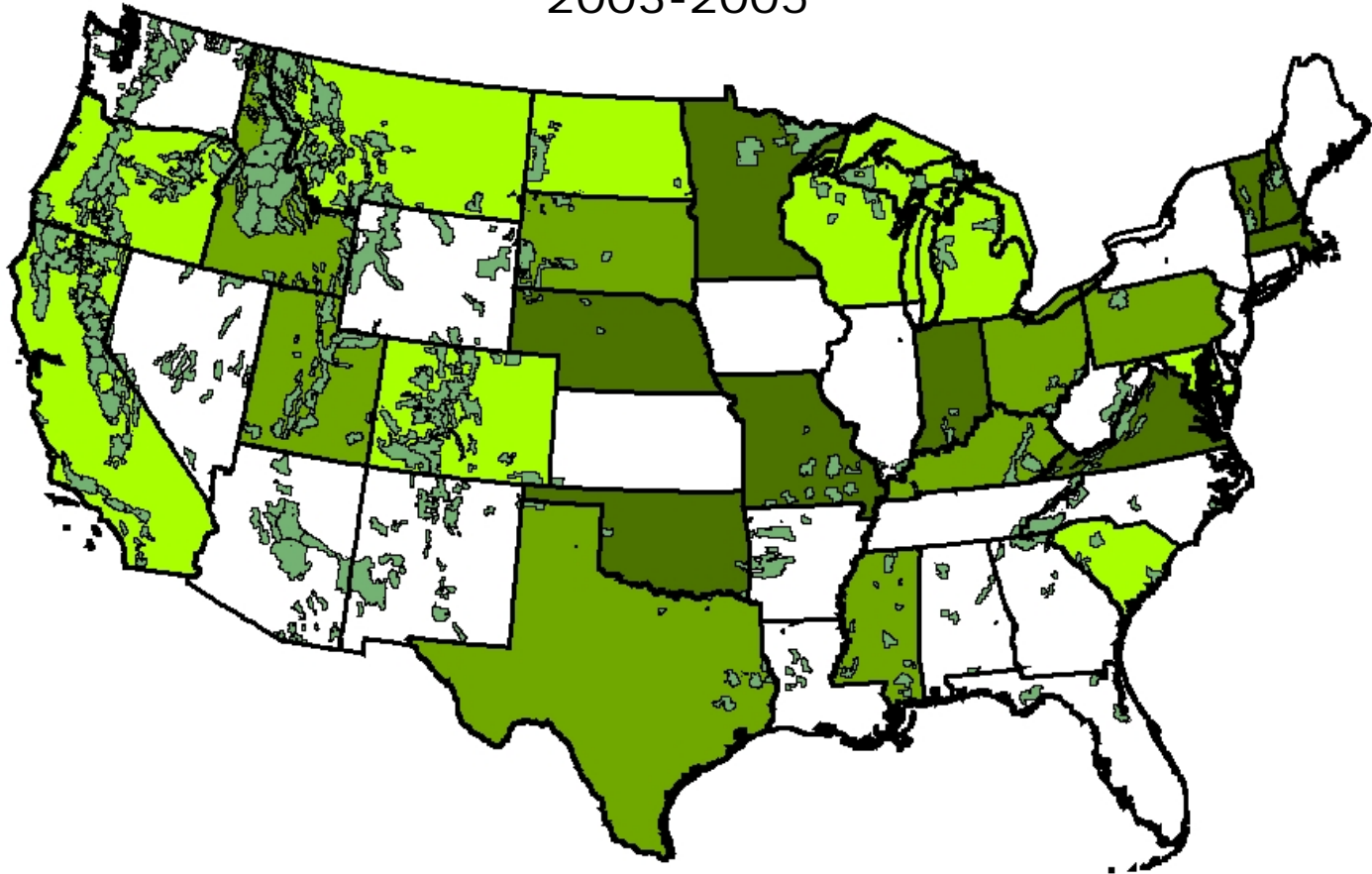


2003-2004



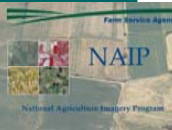
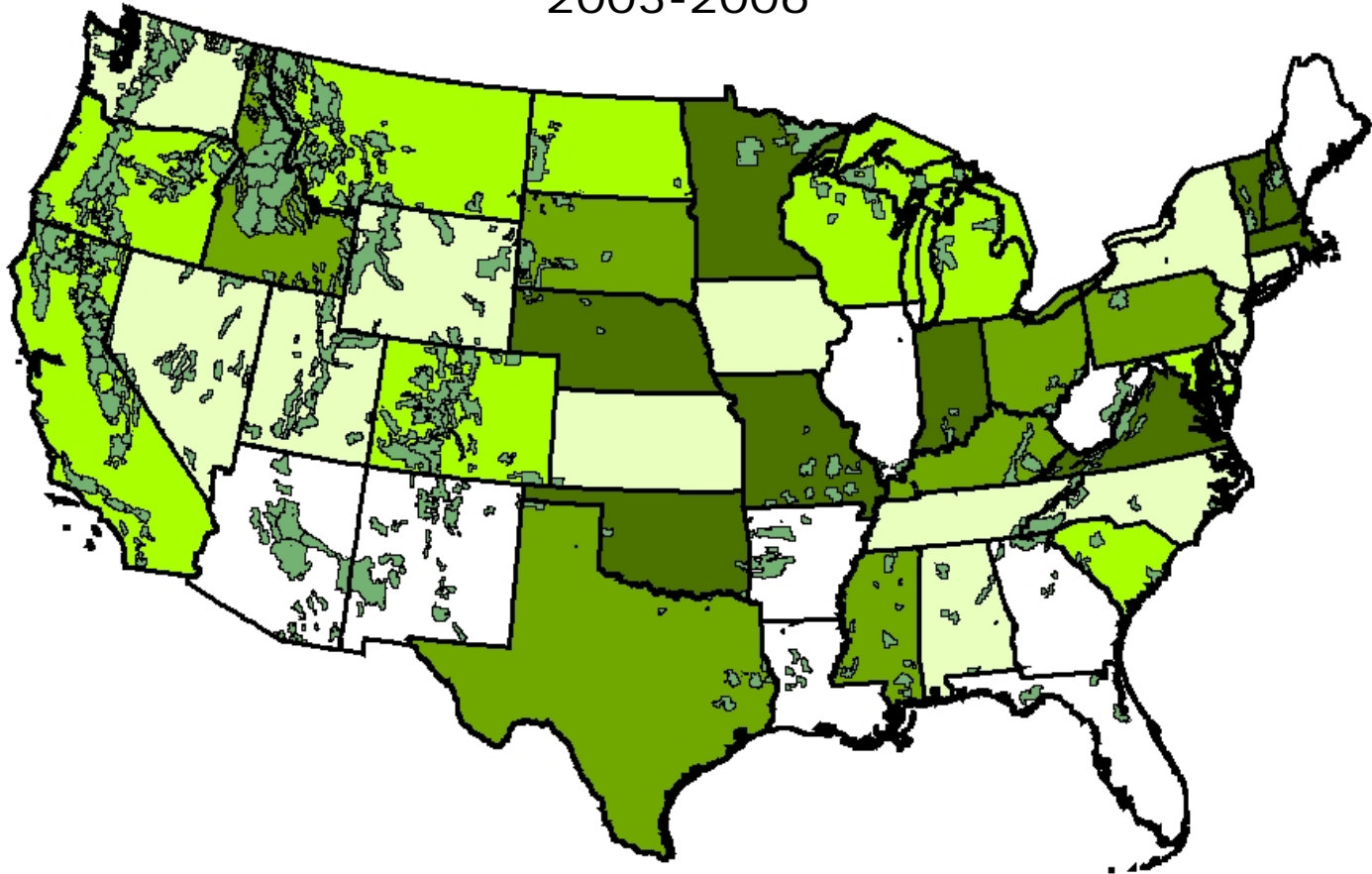
NAIP 1-Meter Coverage 2003-2006

2003-2005



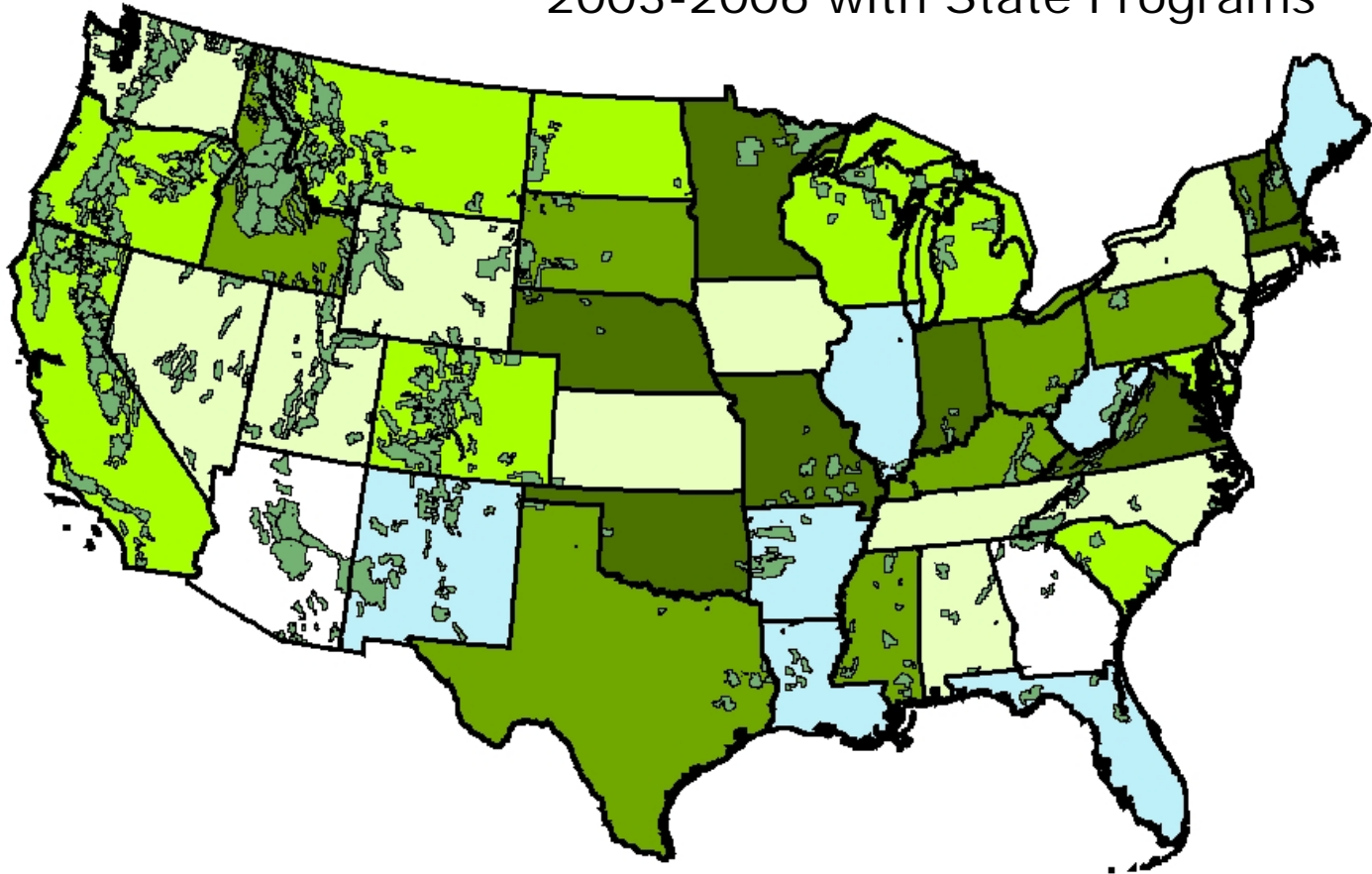
NAIP 1-Meter Coverage 2003-2006

2003-2006

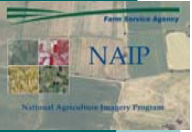


NAIP 1-Meter Coverage 2003-2006

2003-2006 with State Programs



Cost Benefits of NAIP Cooperation



○ Forest Service Contributions to NAIP

- 2003 - \$ 80,000
- 2004 - \$ 610,000
- 2005 - \$ 841,000
- 2006 - \$1,400,000

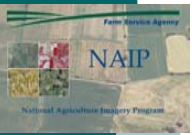
○ NFS Land Covered 2003-2006

- 9,375 7.5' Quadrangles
– 468,000 sq miles
- Cost: \$6.25 per sq mile

Cost Comparisons and Benefits

Source	Cost per Sq Mile	Total Cost	Savings
NAIP Partnership	\$ 6.25	\$2,931,000	
NAIP Full Cost	\$12.50	\$5,862,000	\$2,931,000
FS Sole Contract	\$18.75	\$8,793,000	\$5,862,000

We must be doing something wrong



- “In addition, without effective oversight by OMB, agencies might not have adequate incentives to fully coordinate their geospatial activities, and OMB will not be able to identify potentially duplicative geospatial investments. Until these shortcomings are addressed, **cost savings from eliminating duplicative geospatial investments will not materialize.**”
 - – GAO Report, June 2004, GEOSPATIAL INFORMATION - Better Coordination Needed to Identify and Reduce Duplicative Investments