

Imagery TWG Meeting Notes
Idaho Water Center
July 1, 2009

Attendees:

Margie Wilkins, IDWR	Keith Weber, ISU	Michael Ciscell, IDWR
Gail Ewart, CIO	Jerry Korol, NRCS	Bruce Godfrey, InsideIdaho *
Toni Williams, FSA	Eric Rafn, IDWR	Don Patterson, USFS R1 *
Jim Szpara, DEQ	Chris Clay, IDL	Mike McGuire, Ascent GIS *

*via telephone

Request for 1/2 meter data capture:

- State-based federal partners committed more than \$1 million toward 1/2-meter data capture
- teleconference with FSA/USDA/APFO and state consortium coordinator (Gail Ewart)
- Idaho's unique challenges (shape of the state, varying terrain, snow cover) would put quality of initial product (CCMs) at risk.
- Vendor could not guarantee color management within deadline specified by contract.
- Higher resolution would also push delivery date of final DOQQs out by 90 days (minimum).
- Negative risks and compromises appeared to outnumber positive benefits of 1/2-meter data collection therefore FSA agreed to table the 2009 NAIP 1/2-meter proposal for Idaho until the next NAIP cycle (possibly 2011)

Possible new partners:

- Gail networked with new potential partners (state-based federal agencies) while searching for dollars to fund 1/2-meter upgrade.

Status:

- Toni reported that NAIP may be moving to a 2-year cycle.
- Improved QA/QC potential
- increased staff
- more vendors and more planes are available
- 1/2-meter data collection may be more likely in 2011/2012
- Gail suggested that organizers need to start thinking "outside the box" for data collection. Flightlines should be in long continuous strips rather than by state boundary.

Performance Testing Results:

- please see the pdf document on the Framework website provided by Keith Weber (ISU) entitled: Performance of WMS Services
 - ESRI's Image Server vs Lizardtech's Express Server
 - same server, same network, same data (although in different file format)
 - Image Server: Y-compressed GeoTIFF
 - Express Server: MrSID file format 15:1
 - response time on Image Server slowed as number of concurrent users increased
 - server CPU spiked with Image Server
 - network appears to be primary bottleneck – bandwidth limitations
 - what are client needs? data (Image Server) vs picture (Express Server)
- Results suggest that the preferred method for ESRI's product is to connect directly to Image Server Services instead of going through ArcGIS Server to get to Image Services (uses a fused cache).
- Bruce and Keith will run another test to optimize the ESRI product for a better comparison.
- May want to schedule another test asking for volunteers thru Geotech at a later date.

- **ACTION ITEM:** Toni will check on availability of acquisition progress and status tracking online.
 - update: web service is open to the public
 - interested parties may track the acquisition progress via the NAIP Status web service provided by FSA
 - see the following documents on the Framework website for further information and directions:
 - Accessing the NAIP web service in ArcGIS 9.1
 - Accessing the NAIP web service in ArcGIS 9.2
 - Using the NAIP status web service
- **ACTION ITEM:** Keith and Bruce will re-define the tests used to compare Image Server and Express Server and run more performance tests now that the client has been better described.
- **ACTION ITEM:** Gail will research licensing costs for ESRI's enterprise-wide licensing. Keith will help with verbage.

NEXT MEETING August 5th, 2009