

Imagery TWG Meeting Notes
Idaho Water Center
January 6, 2010

Attendees:

Margie Wilkins, IDWR	Mike Bruse	Bruce Godfrey, UofI*
Gail Ewart, IGO	Scott Van Hoff, USGS	Jerry, Korol, NRCS*
Eric Rafn, IDWR	Heather Studley, ISU*	Jeff Cook, IDPR*
Diane McConnaughey, BLM	Dawn Leatham, Bonneville Co. *	Paul Schneider, Bingham Co.*

*via telephone

Update from Department of Administration:

- Gail is tracking accounts receivable and all partners (with 1 exception) have paid.
- Current balance is slightly above what is needed for purchase of the data and for funding the distribution and access solutions proposal.
- Deputy Attorney General requires contracts for the distribution and access solutions proposal. This is merely an administrative task and is expected to be completed within the next few days.
- **ACTION ITEM: Margie will ask Toni for update on estimated date of delivery of DOQQs.**

Analysis of Shadow Issues in 2009 NAIP:

- Heather Studley with ISU's GIS Training and Research Center presented her summary of shadow analysis. <http://gis.idaho.gov/framework/imagery/Analysis%20of%20Naip%20imagery%20acquired%20during%202009.pdf>
- Primary recommendations (see report for further details):
 - Minimum sun elevation = 40 degrees
 - Flight times between 10:30 am and 2:00 pm
- Miscellaneous discussion about report – mostly new questions were raised...
 - Earth Systems Resource Lab (<http://www.esrl.noaa.gov/gmd/grad/solcalc/>)
 - Consider: 2004 imagery had shadowing in canyons, 2009 had shadowing in mountains. Correcting for canyon shadows may increase mountain shadows and vice versa.
 - Does the possibility of higher resolution flights in the future resolve the issue of shadows?
 - Lower flight altitude?
 - Does including the NIR band resolve shadow issues? Will the shadows still be as noticeable?
 - Could the shadow issue be addressed with post processing?
 - Is the shadow issue significant enough to actually require a change in the vendor contract specifications?
 - LiDAR may improve accuracy
 - Possible solutions for next cycle
 - Multiple flyovers for mountainous areas (cost)
 - Perhaps a tired approach is appropriate:
 - Areas of priority
 - Shortened flight window per day (10:30 am – 2:00 pm, minimum sun angle = 40 degrees)
 - Having a larger vendor pool from which to chose, may contain costs and time constraints for each state.
- For a different perspective, Margie brought attention to the report provided by Surdex: http://gis.idaho.gov/framework/imagery/surdex_naip_life.pdf

NEXT MEETING FEB. 3

**Due to resource limitations at IDWR, the next meeting will be held in the:
USGS Conference Room
230 Collins Road**