

**State of Oregon
2010 Orthoimagery Proposal
June 3, 2008**

Background:

Recent contact from the U.S. Department of Agriculture, Farm Services Agency (USDA indicates that there is an opportunity for Oregon to acquire the next version of statewide aerial imagery in 2010, to replace the 2005 imagery. This draft proposal provides the details as we now know them and a plan of action to acquire the imagery.

For the past 15 years, we have acquired statewide aerial imagery approximately every 5 years. In 2005, we acquired statewide color imagery at half meter resolution as part of a consortium of federal, state, local, regional, tribal and private sector partners. The state, local, regional, tribal, and private sector partners paid approximately \$200,000 as our share of the costs, which were approximately \$2,100,000.

Many government agencies have made extensive use of the 2005 imagery, and continue to do so, for such things as:

- Wildfire prevention & suppression
- Transportation planning
- Emergency planning & response
- Disaster assessment
- Military readiness training
- Land use planning
- Facilities & land management
- Environmental studies & monitoring
- Background reference for web maps
- Agricultural planning & management
- Species management & protection
- Real estate appraisal & insurance
- Recreation planning
- Infrastructure protection & development
- Much more...

The consortium also spent about \$250,000 developing an imagery web portal that is used now to view and download the 2005 imagery, in conjunction with other Framework base data. Future plans will make other imagery vintages available for comparison through this same viewer. You can use the Imagery Explorer website at <http://oregonexplorer.info/imagery/>.

Details:

Program details are still emerging, but the current situation is:

FSA, NRCS, USFS and USGS are working to cooperatively fund the majority of the cost of statewide, one meter, three-band imagery for Oregon, with a planned acquisition in 2010. The total cost for this base product is estimated to be \$1,650,000. NRCS requires a \$49,000 match for this base product acquisition.

Product enhancements referred to as "buy ups" are available and desired by most participants. Buy up products and costs:

- \$165,000 (~10%) additional for increased control (local govt. help could lower this)
- \$250,000 (~15%) additional for IR (4th band)
- \$200,000 estimated for half meter enhancement

Additional expense for hosting and access will need to be added

Proposal:

GEO proposes the following course of action to acquire imagery that meets the vast majority of Oregon government needs:

- GEO will set up an email list to facilitate communication
- GEO/OrthoFIT will track ongoing program and expense developments, keeping interested parties informed via the email list and meetings
- GEO/OrthoFIT will gauge participants product needs and determine consensus regarding buy ups via an online survey
- GEO will develop hosting (SDC) and access (Imagery Explorer) cost estimates
- Total cost estimates will be provided and OGIC will determine best way to share costs
- There will be no direct cost to counties for participation. The imagery will be available to counties as quid pro quo for data they may offer the state, including taxlot and transportation data, as part of the evolving Data Sharing Partnership
- GEO will facilitate the formation of a workgroup that will determine to what extent participants can offer existing ground control, LiDAR and other existing products that might enhance the quality or reduce the cost of the imagery
- GEO/OrthoFIT will track the State portion of the project expense, including the base match, buy ups, hosting and access
- GEO will manage the agreements required to pass the State cost-share to the federal partners
- The \$49,000 cost share will come from the OGIC assessment, as will an additional \$51,000 toward the buy-up costs
- A quality assurance process will be built into the acquisition agreement that enables participants to assess quality post-delivery for a predefined period. The vendor would agree to make right any defects brought to their attention during this time.
- The preferred and primary imagery distribution mechanism will be via the Oregon Imagery Explorer (jpeg2000, 5:1, lossless format). Distribution via portable device will be available but limited to customer supplied device and full expense reimbursement.

Timeline:

June, 2008	Establish email list Develop and distribute survey
July, 2008	Compile survey results Determine scope of product Determine hosting and access expense Determine best way to share costs
August, 2008	Determine program cost and obtain commitments from participants
October, 2008	Form workgroup Develop agreement mechanism
December, 2009	Funding commitment in place
2010	Acquisition and delivery