



Usage Guide for the NAIP Status Web Service

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Version 1.0

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Revision History

Version	Date	Summary of Changes	Author
1	06/05/2009	Initial Revision	Kevin Clarke

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1 Introduction

The acquisition and subsequent inspection of the NAIP dataset are processes that occur over many months during the prime agricultural growing seasons each year. An ongoing requirement has been providing FSA users with timely information on the NAIP dataset. This web service allows FSA state and county personnel to easily attain information on the status of overall NAIP acquisition and inspection for their state. This NAIP Status web service is new in the 2009 NAIP acquisition year.

The NAIP Status web service can be included directly into any ArcMap project file for use with other in-hand data sources, such as imagery backdrops and CLU boundary data, to assist FSA state and county personnel in making decisions relating to the administration of the various Farm Programs they support.

2 Accessing the NAIP Status Web Service

The 2009 NAIP Status web service can be accessed via ArcMap 9.1 and above by adding the APFO ArcGIS Server <http://gis.apfo.usda.gov> to the list of ArcMap GIS Servers.

Instructions for adding the APFO GIS Server to ArcMap 9.1 can be found here: http://www.fsa.usda.gov/Internet/FSA_File/arcgis_svrweb_serv_arcmap9.1.pdf

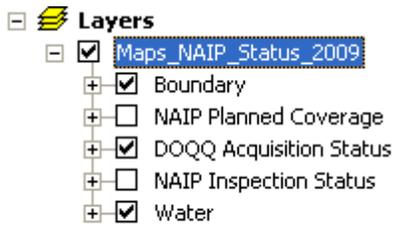
Instructions for adding the APFO GIS Server to ArcMap 9.2 can be found here: http://www.fsa.usda.gov/Internet/FSA_File/arcgis_svrweb_serv_arcmap9.2.pdf

Once the GIS Server has been added, navigate to the Maps folder and select the NAIP_Status_2009 web service. In ArcMap 9.1 the folder structure is not supported, but the web service will appear as Maps/NAIP_Status_2009 in a list with all of the other web services running on the GIS Server.

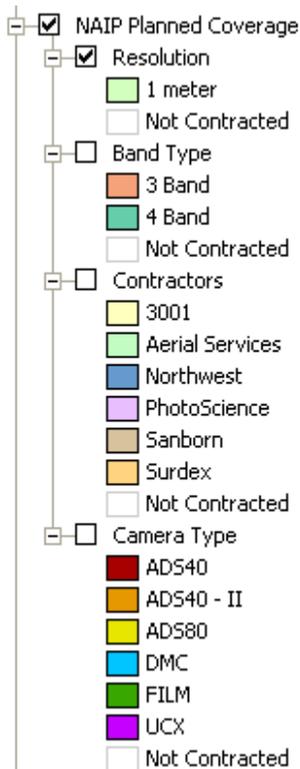
3 Using the NAIP Status Web Service

When the NAIP Status web service is added to an ArcMap project, a new group layer, MAPS_NAIP_Status_2009, will be added to the ArcMap Table of Contents. This group layer is comprised of five subordinate group layers denoted as Boundary, NAIP Planned Coverage, DOQQ Acquisition Status, NAIP Inspection Status, and Water.

The Boundary layer provides State and County boundary line segments, and the Water layer provides graduated Lake data. These two layers can be set to inactive if other similar and preferred datasets are available for inclusion in the project by the user.



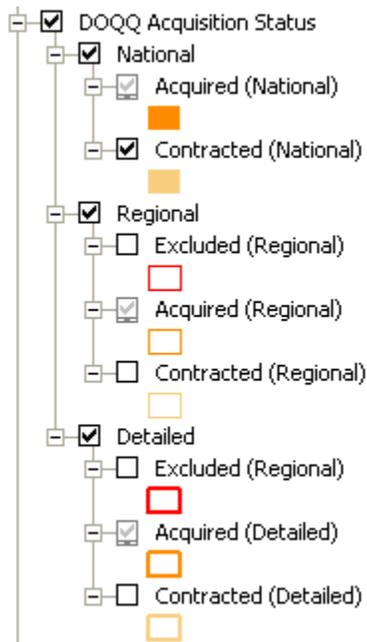
The remaining three group layers will be discussed individually. The general usage of the other three group layers is such that only one of the layers should be active at any one time. **Only one of the NAIP Planned Coverage, DOQQ Acquisition Status, and NAIP Inspection Status group layers should be active at a time, to improve response time, and ensure that correct interpretation of the status information occurs.**



The NAIP Planned Coverage group layer displays contractual based award details by state. This group layer will not change in status over time, since contractual award data remains static.

The layer can be used as reference for each state that is part of the 2009 NAIP cycle. It will identify 1 meter coverage, quarter quad acquisition band type, flight contractor, and camera type used for acquisition.

The NAIP Planned Coverage group layer shows information for a state as a whole, and as such is set to be active at scales smaller than 1:1,000,000 only. At scales larger than 1:1,000,000 the entire group layer will automatically turn off.



The DOQQ Acquisition Status group layer displays the acquisition status of DOQQs, independent of a particular state for the 2009 NAIP cycle. This group layer is updated several times a day based on progress reports sent to APFO daily by the flight contractors.

The National level, shown at scales between 1:9,000,000 and 1:3,000,000, will display individual DOQQs that have been acquired, and is symbolized as dark orange polygons. The light orange polygons are representative of the contracted (i.e. planned) coverage, also shown by individual DOQQ.

The National level can be used to obtain an overall synopsis of the acquisition progress for a particular state.

The Regional and Detailed levels display the same DOQQ based information as the National layer, but with gridline symbology rather than filled in polygons.

These two layers display the DOQQ gridlines for acquired (dark orange), contracted (light orange) and excluded (red) DOQQs. Excluded DOQQs are identified explicitly as a separate layer to eliminate the issue of an individual DOQQ symbolizing as being contracted or acquired when in fact it is not intended to be acquired. This issue results from rendering the DOQQs as gridlines versus filled in polygons.

The Regional and Detailed layers can be used to determine, at a discrete DOQQ level, what areas have been acquired. Since the layers render as gridlines, other data such as imagery and CLU can be utilized within the ArcMap project. Other data can display the land areas which have actually been acquired, within a specific context, to assist with making farm program support decisions.



The NAIP Inspection Status group layer displays county based inspection status information. This group layer is updated several times a day based on data collected from internal APFO NAIP Inspection applications.

The Phase 1 and Phase 2 inspection status are indicative of inspection processes which occur on the Compressed County Mosaic (CCM) for the specific county. The Random Phase indicates that inspection is occurring on a random selection of DOQQs for the particular county. Status for individual counties within a state will cycle through Phase 1, then Phase 2, for the CCMs, and then Phase 3 (i.e. Random) inspection of the DOQQs begins.

Over time, all counties within a state will move to Completed status. When all counties for a state are identified as Completed, the inspection for all CCMs and randomly generated DOQQs for the state has been completed by APFO Inspection staff.

Once all counties for a state are completed, the APFO Contracting Office then begins the Acceptance process for the state, which involves finalizing payments and other contract details with the flight contractor for that particular project area. When these legal issues are closed, and final payment to the contractor has been issued by APFO, the state is considered Accepted and all counties move to Accepted status simultaneously.

When a state is identified as Accepted, it implies that APFO has initiated the process of delivering the DOQQs for that state to the various state partners.

The NAIP Inspection Status group layer shows information for a state, aggregated by county, and as such is set to be active at scales smaller than 1:1,000,000 only. At scales larger than 1:1,000,000 the entire group layer will automatically turn off.

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