

**2008 NON-FSA NAIP Survey:  
Summary Report**

**USDA  
Farm Service Agency  
Aerial Photography Field Office  
Salt Lake City, UT 84119**

**March 2009**

## Table of Contents

	Page No.
<b>Section 1 – Executive Summary</b>	<b>3</b>
<b>Section 2 – Overview</b>	<b>4</b>
<b>Section 3 – Summary of Survey Results</b>	<b>5-15</b>
<b>Section 4 – Recommendations for Changes to Survey for 2008</b>	<b>16</b>
<b>Appendix A – List of Comments and Suggestions</b>	<b>17</b>

### Questions

Question 1	5
Question 2	5
Question 3	5
Question 4	5
Question 5	5
Question 6	6
Question 7	6
Question 8	7
Question 9	7
Question 10	8
Question 11	8
Question 12	9
Question 13	9
Question 14	10
Question 15	10
Question 16	11
Question 17	11
Question 18	12
Question 19	12
Question 20	13
Question 21	13
Question 22	14
Question 23	14
Question 24	15
Question 25	15
Question 26	15

## Section 1 – Executive Summary

The 2008 NON-FSA NAIP Survey was initiated as a means to assess NAIP based on feedback from FSA federal partners and other federal agencies which might utilize NAIP. Completion of the survey was strictly voluntary.

The survey:

- establishes a standardized feedback mechanism for NAIP acquisition and delivery
- allows for adjustment of program strategy as allowable under current FSA requirements based on survey analysis
- will allow for analysis of current and future year feedback to ensure continued program improvement and development.

The following is a brief summary of survey responses:

Total Survey Responses = 997

- 95% of respondents were familiar with the NAIP program
- 94% of respondents use NAIP to perform job functions.
- 74% of respondents use NAIP as their main source of imagery.
- 89% of respondents felt 1m resolution NAIP met their needs effectively.
- 76% of respondents use NAIP imagery at least weekly.

The following general conclusions may be drawn:

1. Most federal agencies use NAIP.
2. Acquiring NAIP at 1m resolution every year is acceptable for most users.
3. Most respondents want NAIP to be a leaf on acquisition.
4. Resolution continues to be the most important aspect of NAIP..

## Section 2 - Overview

In 2008, FSA completed the 6th year of acquiring NAIP. The USDA-FSA Aerial Photography Field Office (APFO) is responsible for the acquisition, quality assessment, data delivery, and archiving of the NAIP imagery. FSA continues to adjust and modify NAIP processes to keep pace with technological advances in geospatial data acquisition and delivery as well as to meet the needs of FSA Service Centers and State Offices, their primary NAIP customers.

Feedback from NAIP users is vital for program improvement. To facilitate this, APFO prepared a survey for FSA federal partners and other federal agencies. This is the first year for the NON-FSA NAIP Survey. This survey was delivered using an online web survey engine.

Surveys were taken over a 4 week period, between February 13, 2009 and March 14th.

The format of the survey varied to include the following types of questions: multiple choice, open ended, select all that apply, and numerically rated. Upon close of the survey, responses were downloaded from the survey website in a variety of formats, including a survey summary, raw answers, and parsed answers as needed. While analysis of survey returns could be performed endlessly, it is understood that the results herein really only scratch the surface of potential analysis.

APFO hopes to keep the current survey format stable for future years, streamlining questions and tightening user inputs as necessary. This will allow for a quality comparison of past and future survey results, enhancing feedback for program improvement.

### Section 3 – Summary of Survey Results

The following section is a statistical breakdown of the survey on a question by question basis. At the end of this section there are a few examples of additional analysis, performed by comparing responses to multiple questions.

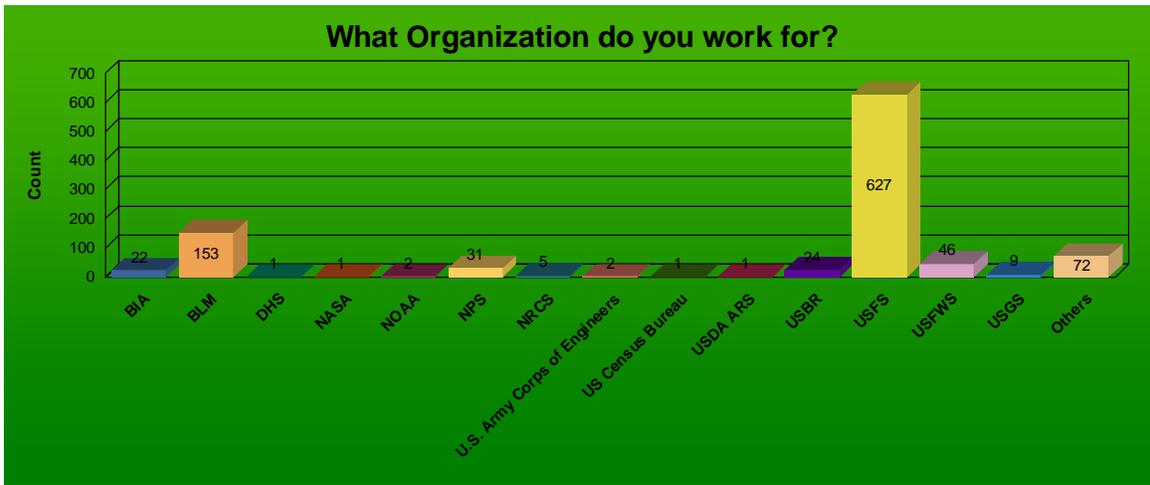
**Question 1.** Name: Responses varied.

**Question 2.** Position: Responses varied.

**Question 3.** Today's Date: Responses ranged between Jan 30<sup>th</sup> and Feb 29<sup>th</sup>, 2008.

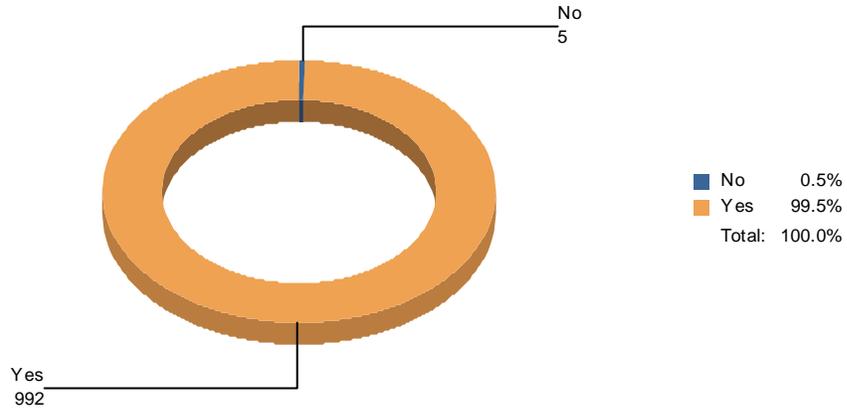
**Question 4.** What State or Region do you work in? Responses varied.

**Question 5.**



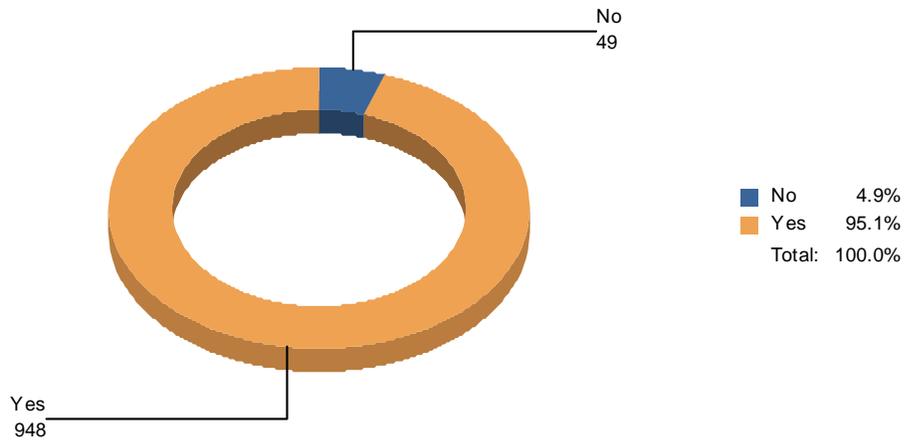
**Question 6.**

**Do you use satellite or aerial imagery products of any type to perform your job?**



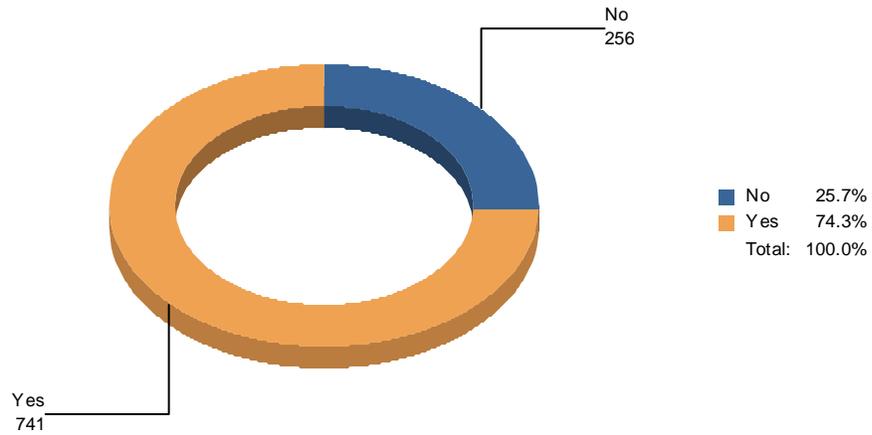
**Question 7.**

**Are you familiar with the National Agricultural Imagery Program imagery?**



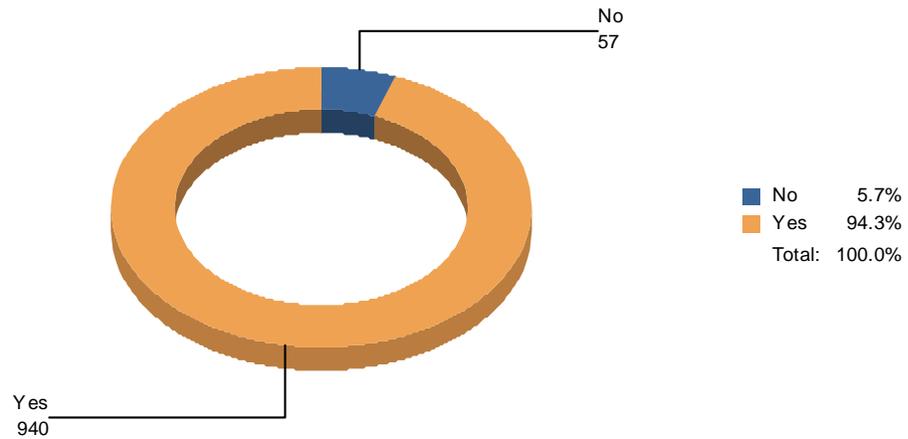
**Question 8.**

**Is NAIP your main source of imagery?**



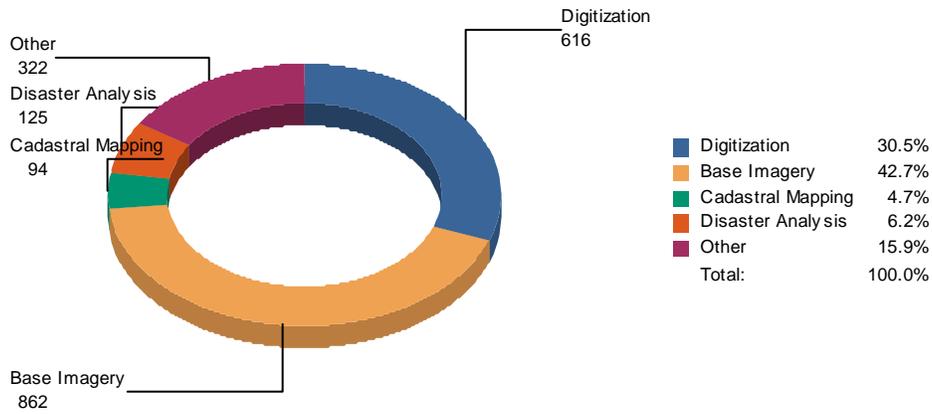
**Question 9.**

**Do you use NAIP imagery to perform any job functions?**



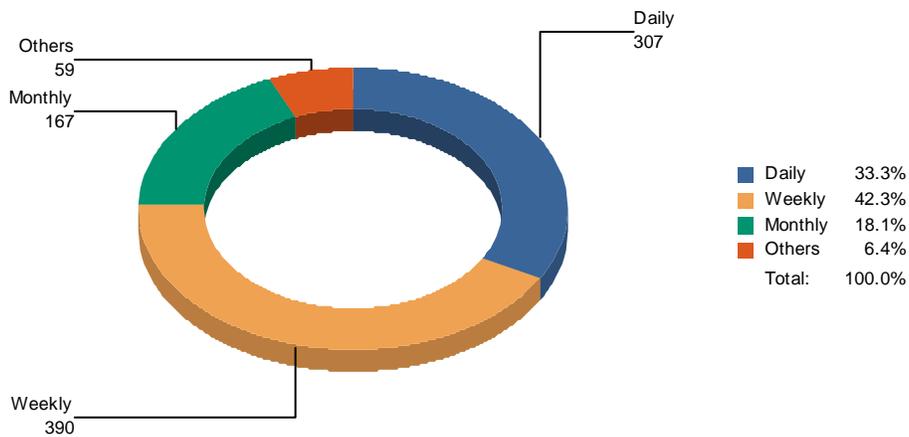
**Question 10.**

**What types of job functions do you use NAIP Imagery for?**



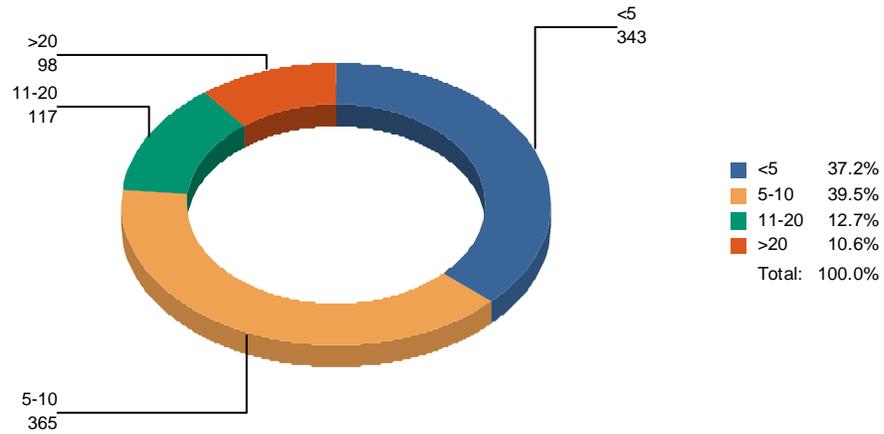
**Question 11.**

**How often do you use NAIP?**



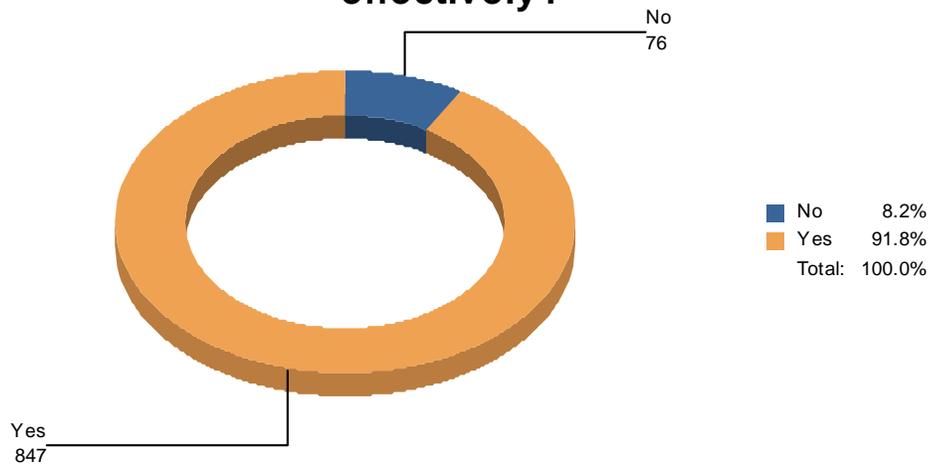
**Question 12.**

**How many hours a week do you use NAIP?**



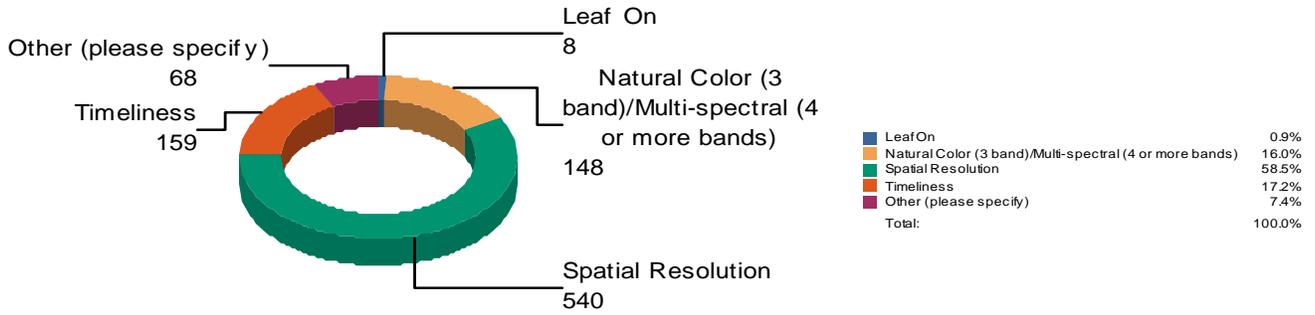
**Question 13.**

**Is NAIP necessary for you to do your job effectively?**



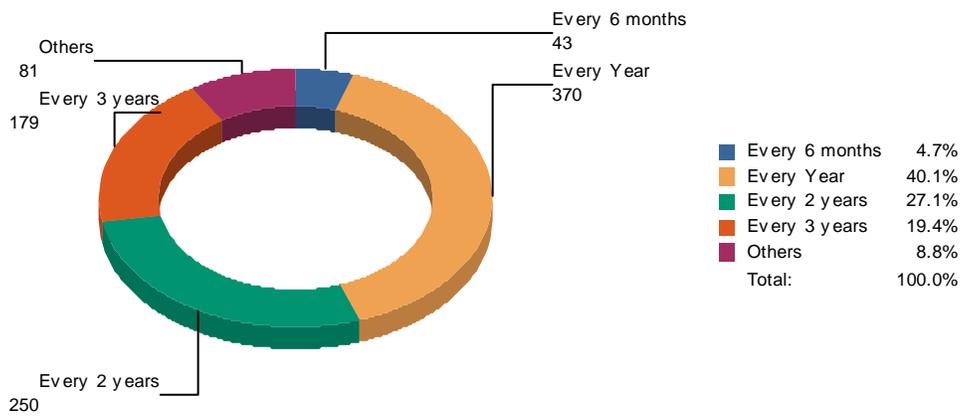
**Question 14.**

**What is the most important aspect of NAIP?**



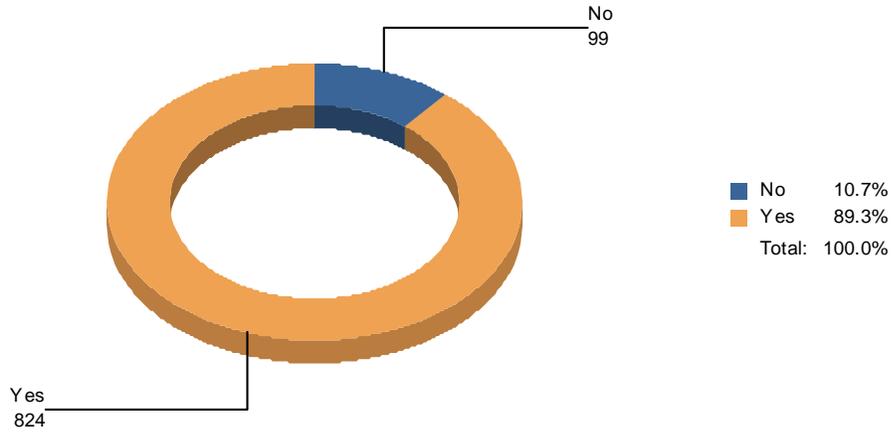
**Question 15.**

**How often do you need NAIP to be acquired?**



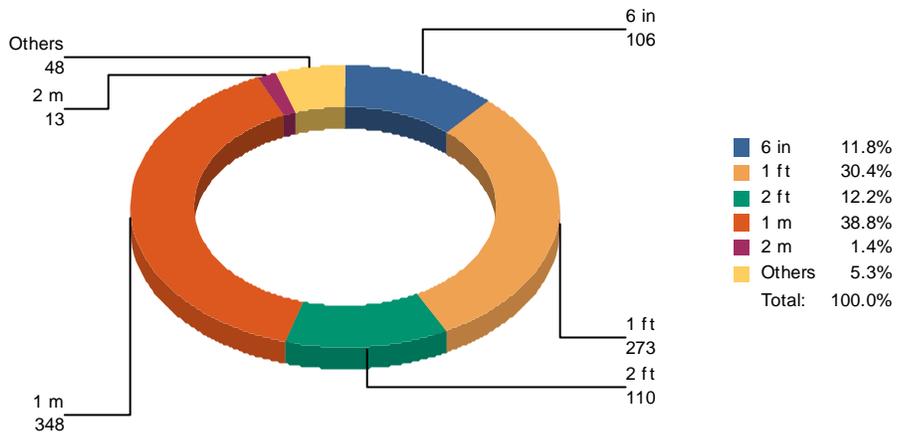
**Question 16.**

**Does NAIP 1 meter resolution imagery meet your needs?**



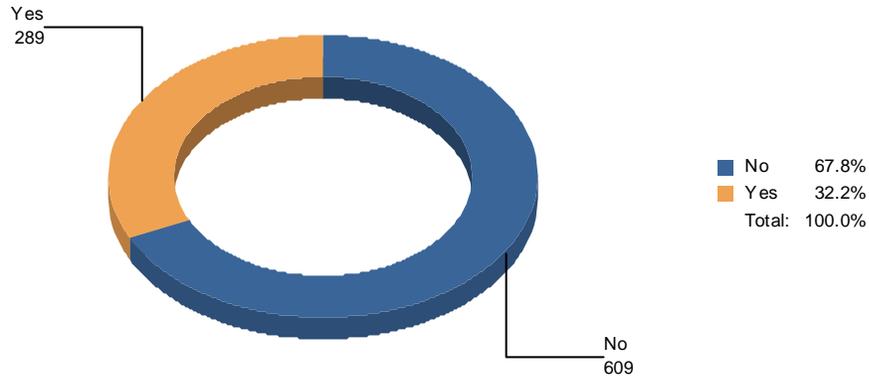
**Question 17.**

**What would your ideal NAIP imagery resolution be?**



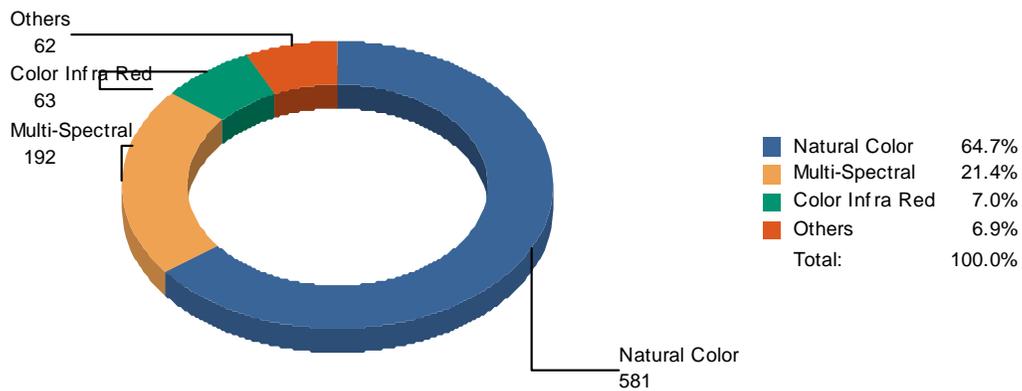
**Question 18.**

**Would you prefer NAIP to be Leaf Off?**



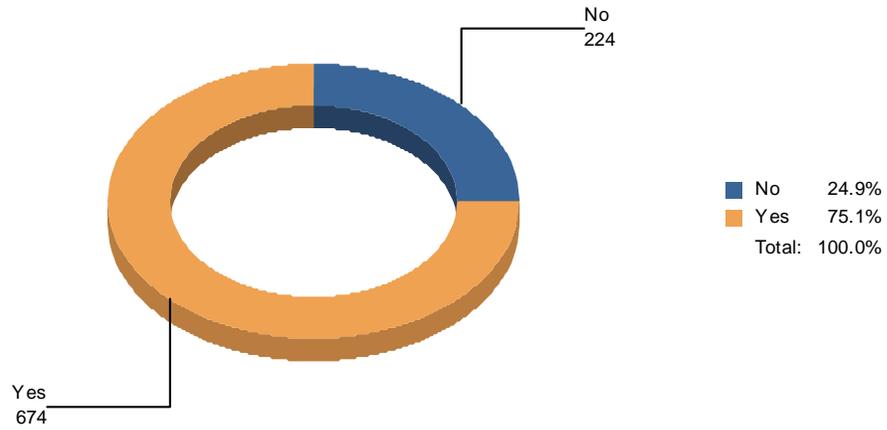
**Question 19.**

**Do you prefer NAIP to be Natural Color or Multi-Spectral only?**



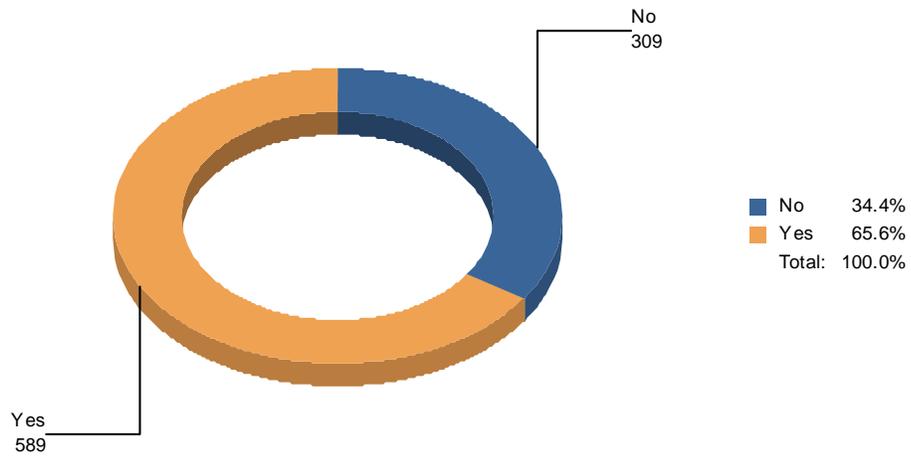
**Question 20.**

**Would Multi-Spectral imagery be useful for your job functions?**



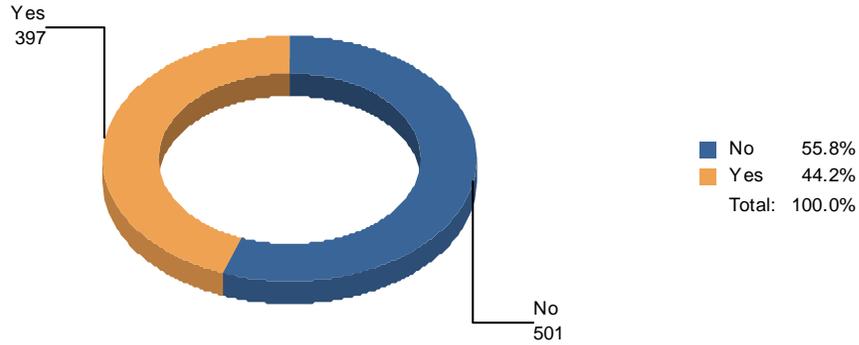
**Question 21.**

**Would you benefit from stereo NAIP imagery?**



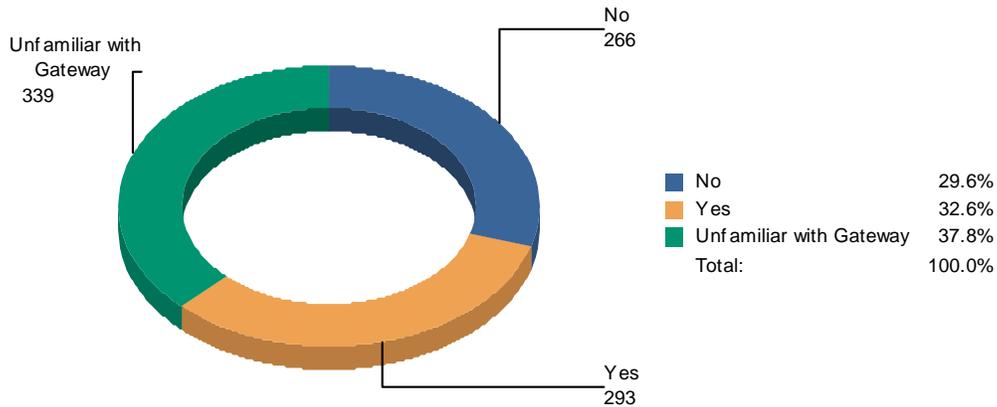
**Question 22.**

**Do you use any Web Mapping Services or other web based streaming image delivery services to access NAIP imagery?**



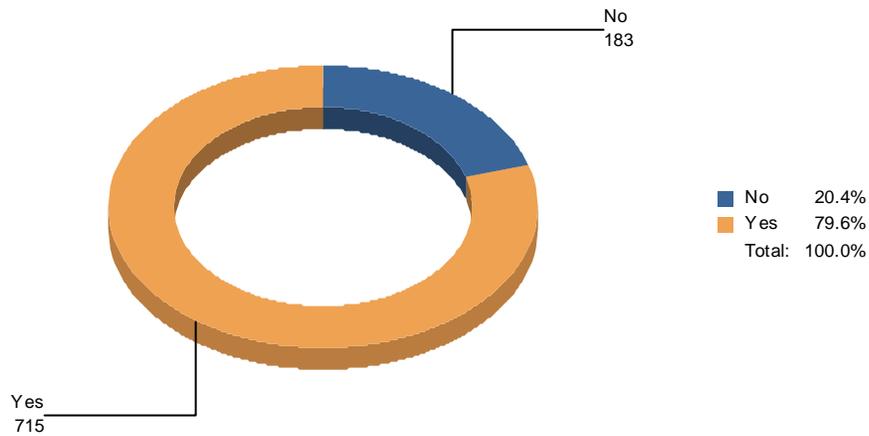
**Question 23.**

**Do you download NAIP imagery from the USDA data gateway?**



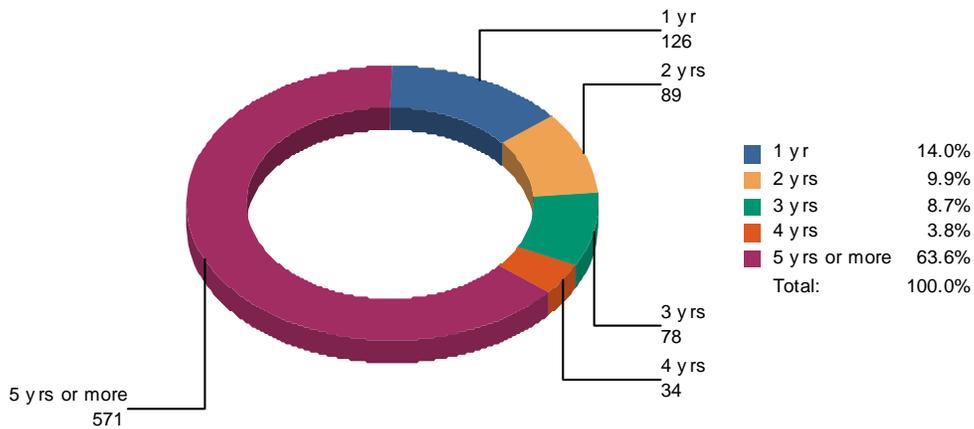
**Question 24.**

**Do you store NAIP imagery at your location?**



**Question 25.**

**If you do store NAIP imagery at your location, how long do you store it for?**



**Question 26.** Please provide any additional comments or suggestions you have about the NAIP program: Responses varied. See Appendix A

#### **Section 4 – Recommendations for Changes to the Survey for 2009**

The subscription service for the web survey engine was renewed last year, and most likely will be renewed each year as long as APFO continues to conduct the survey. A 2009 NON-FSA NAIP Survey can be issued some time near the beginning of 2010. Using the same survey medium would allow for comparative analysis of multi-year survey data, as the method and many of the questions would remain consistent.

Several minor changes to the survey, based on errors or oversights discovered in the 2008 NON-FSA NAIP Survey, are outlined below:

1. Add logic to question 24 so if the answer is “no” the survey respondent does not answer question 25.
2. Explain what “Leaf Off” means. Several respondents stated they did not know what it meant.
3. Spell out Agencies instead of using acronyms in question 5. Also, add the Fish and Wildlife Service, Bureau of Indiana Affairs and Bureau of Reclamation to list.
4. Switch the order of question 4 and question 5 and add skip logic for Forest Service so they can only select Forest Service Regions and not states.
5. Remove Color Infra Red from question 19.
6. Add a question to ask if survey takers would use a NAIP imagery web service if it was made available.

## Appendix A – Additional Comments and Suggestions for NAIP

Question 26 of the 2008 NON-FSA NAIP Survey asked the respondents for additional comments and suggestions about the NAIP program.

Selected Comments and Suggestions:

- A standardized approach to NAIP data across the entire nation would be very useful. This data should be 4 band RGB+IR with 0.5 or 1m resolution with a standard return interval of 3 to 5 years.
- NAIP imagery is KEY to developing vegetation base layers that we then use to develop wildlife habitat maps.
- It's great please keep it funded.
- Current NAIP Imagery vital to certain BLM functions
- While natural color is the most helpful in my job, we do have occasional needs for multi-spectral and even color infra red
- We use the NAIP imagery on a daily basis. If it were available on a yearly basis, that would be fabulous.
- My office uses NAIP photography extensively throughout the different disciplines. Everyone values the imagery as it has good resolution and is fairly recent (2006). Thanks for providing the imagery.
- NAIP provides excellent medium-scale capabilities as a background or regional planning source. Tighter control will make the orthophotos a better source. Infrared (four band) capability is a great option.
- I love NAIP imagery. We got our last flight (2006) from the state at no real cost to us and I use it on a daily basis.
- It would be desirable to have both leaf on and leaf off imagery.
- NAIP is a great program - it greatly enhances my agency's ability to plan wildlife habitat projects and meet our mandates for habitat protection and conservation.
- NAIP has become vital to the FWS agency mission. We eagerly await the 2010 product in terms of habitat change.
- The NAIP program is extremely beneficial to my program. Without it I could not do the tasks I have been asked to perform.
- 4-bands (natural color and IR) is critical and an incredibly beneficial piece to build a long-term archive. I know a majority of people do not understand the value of the multispectral range, but we have one shot at capturing this data at this time period and to include the one additional IR band is extremely valuable for short and long-term studies. Packaging a 1-m NAIP 4-band image statewide is ideal. Since this is an agriculturally driven program, the need for IR should even more critical.
- 4-band leaf on imagery is crucial. We are performing high resolution land cover in several states to support USDA Forest Service initiatives.