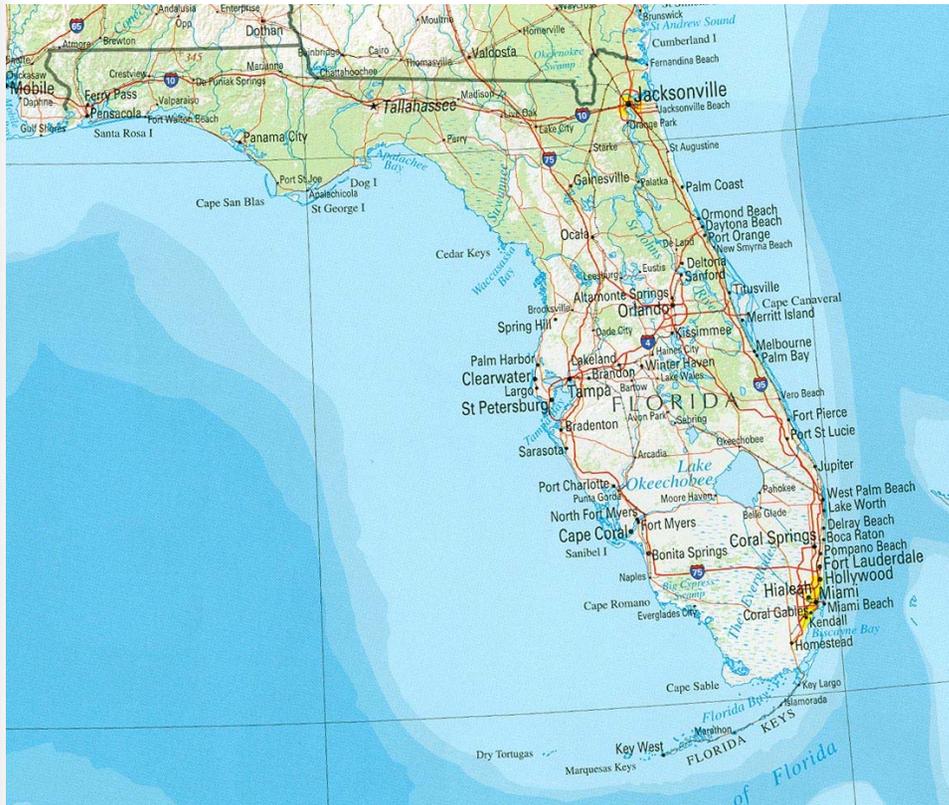


# 2007 NAIP Post Season Meeting Lessons Learned

## 2007 Contract Area: Florida



3001, Inc, for the USDA  
Task Order #TO-3-07-1  
Salt Lake City Meeting

November 27-28, 2007

Bart Bailey, CEO  
Bob Danzig, VP, Contracts  
Dennis Monday, VP, Airborne Solutions  
Peter Briere, Program Manager

### **Presentation Overview**

- 2007 Project Summary
- Applying Lessons Learned from 2006
- 2007 Performance
- 2007 Lessons Learned
- 2008

## 2007 Florida Summary

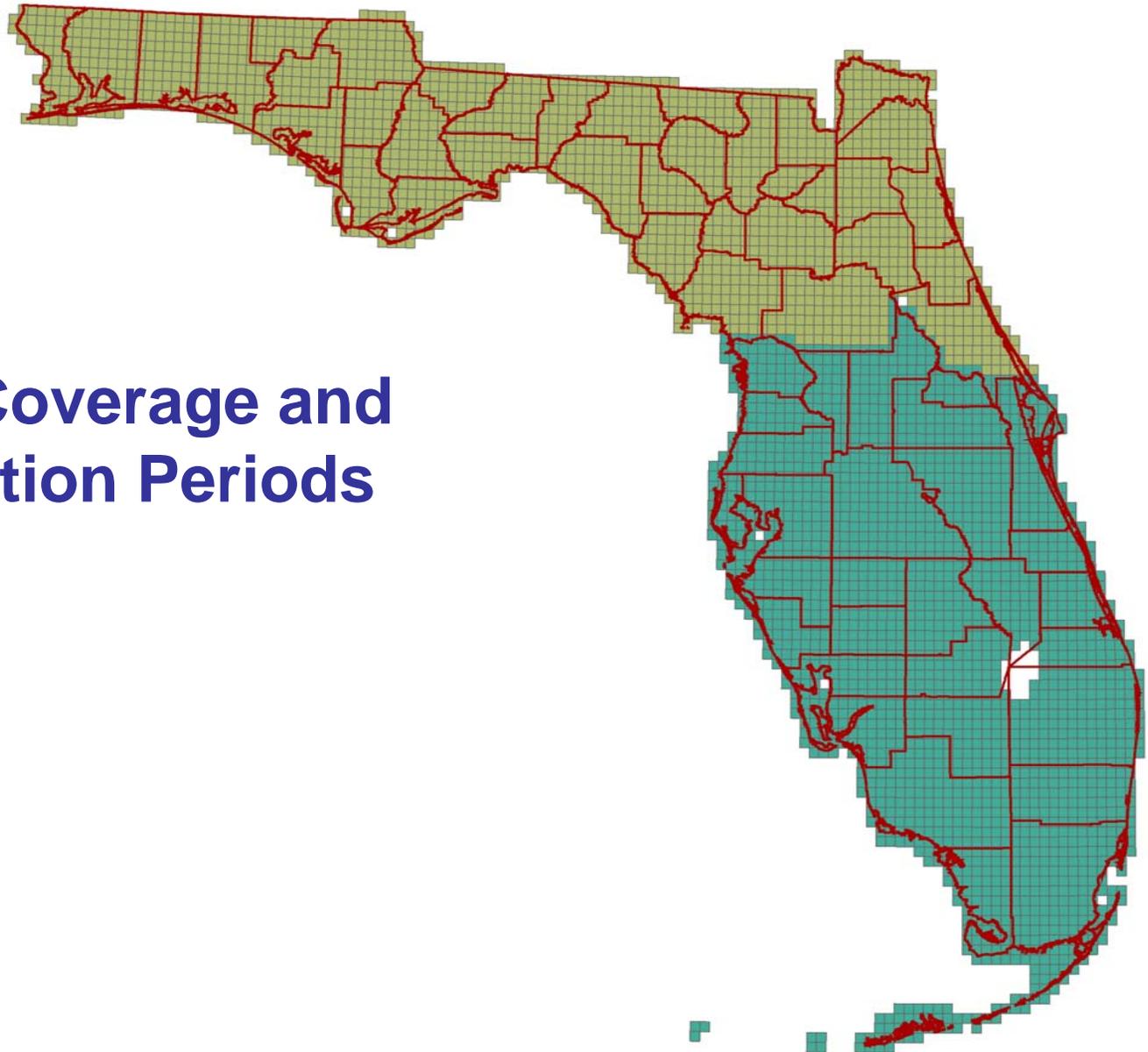
- 1-meter GSD, RGB
- 3,914 DOQQs and 67 CCMs
- Season 1 (South): May 1-June 30 (Received 2 extensions)
- Season 1 extended to August 31
- Season 2 (North): Sept 1-Oct 31 (Received 1 extension)
- Season 2 extended to Nov 15 (capture completed Nov 7)
- 64,011 sq mi; Relative Accuracy
- ADS40 capture

## 2007 NAIP Post Season Meeting Lessons Learned

### 2007 REVISED REQUIREMENTS SUMMARY

REVISED 2007 NAIP - PROJECT REQUIREMENTS								
STATE	GSD	ACQ METHOD	COLOR TYPE	HOR ACQU	NO. of DROPS	NO. of COs	AREA SQ. MI	NO. of EXPS.
Arizona	1m	Digital	4-Band	Abs	7,643	15	117,651	15,305
Florida	1m	Digital	NC	Rel	3,914	67	64,011	7,992
Georgia	1m	Digital	NC	Rel	3,921	159	61,566	7,928
Illinois	1m	Film	NC	Rel	4,138	102	59,128	8,363
Indiana	2m	Digital	NC	Rel	2,666	92	38,153	5,392
Iowa	2m	Film	NC	Rel	4,220	99	58,471	8,554
Louisiana	1m	Digital	NC	Rel	3,253	64	51,924	6,647
Maine	1m	Film	NC	Rel	2,752	16	36,133	5,580
Maryland	1m	Digital	NC	Rel	887	23	12,863	1,862
Mississippi	1m	Film	NC	Rel	3,234	82	50,744	6,547
Missouri	1m	Digital	NC	Rel	5,018	115	73,386	10,160
Nebraska	2m	Film	NC	Rel	5,066	93	70,898	10,409
Tennessee	1m	Digital	NC	Rel	3,005	95	45,439	6,150
West Virginia	1m	Digital	NC	Rel	1,835	55	26,724	3,752

## DOQQ Coverage and Acquisition Periods



-  County Boundary
-  May 1 - Jun 30 (Season 1)
-  Sep 1 - Oct 31 (Season 2)

# 2007 NAIP Post Season Meeting Lessons Learned

## Operations Schedule

2 flights seasons, 2 areas, 4 delivery dates

REVISED 2007 NAIP - DELIVERY REQUIREMENTS				
PROJECT ITEM AREA	ACQUISITION SEASON	COMB DELIVERY	QTY	OTHER DELIVERY
ARIZONA	1 Jun - 31 Aug	30 Sep 07	6	15 Oct 07
FLORIDA	1 May - 31 Oct (2)		4	
Season 1	1 May - 30 Jun	30 Jul 07		14 Aug 07
Season 2	1 Sep - 31 Oct	30 Nov 07		15 Dec 07
GEORGIA	25 Jun - 1 Sep	1 Oct 07	5	16 Oct 07
ILLINOIS	1 Jun - 31 Jul (2)		4	
Season 1	1 Jun - 15 Jul	14 Aug 07		29 Aug 07
Season 2	15 Jun - 31 Jul	30 Aug 07		14 Sep 07
INDIANA	1 Jul - 15 Aug (2)		2	
Season 1	1 Jul - 21 Jul	20 Aug 07		4 Sep 07
Season 2	1 Jul - 15 Aug	14 Sep 07		29 Sep 07
IOWA	21 Jun - 15 Sep	15 Oct 07	2	30 Oct 07
LOUISIANA	15 Jun - 31 Aug	30 Sep 07	4	15 Oct 07
MAINE	1 Jul - 31 Aug	30 Sep 07	4	15 Oct 07
MARYLAND	1 Jun - 15 Aug	14 Sep 07	4	29 Sep 07
MISSISSIPPI	21 Jul - 31 Aug	30 Sep 07	4	15 Oct 07
MISSOURI	15 Jun - 31 Jul	30 Aug 07	4	14 Sep 07
NEBRASKA	1 Jul - 15 Aug	14 Sep 07	2	29 Sep 07
TENNESSEE	1 Jun - 15 Sep	15 Oct 07	5	30 Oct 07
WEST VIRGINIA	1 Jul - 30 Sep	30 Oct 07	5	14 Nov 07

### **Resources Allocation and Deployment**

- 2 LearJets (3001)
- 1 Conquest (DAS)
- 3 ADS40s
- PTC Production Facility

### **Overflow Resources Not Used**

- 4 401s, 402s (3001)
- 1 421 (DAS)
- 1 ADS40, 2 DMCs (3001)
- 1 ADS40 (DAS); 1 ADS40 (Pixxures)
- 5 Production Facilities (FL, AL, LA, DAS, Pixxures)

### Applying Lessons Learned from 2006

- Overflow capacity on deck in multiple 3001 locations and with subcontractors
- Software versioning – accounted for in risk mitigation
- Implemented 3001's archival procedures for acquired data to prevent data loss.

### 2007 Challenges & Lessons Learned

- Ground Fires/Smoke: Smoke cover eliminated 3 weeks of Season 1 acquisition in May
- Summer weather in south FL
- Multi-peak histograms in relation to histogram req'ts.

### 2007 Challenges & Lessons Learned

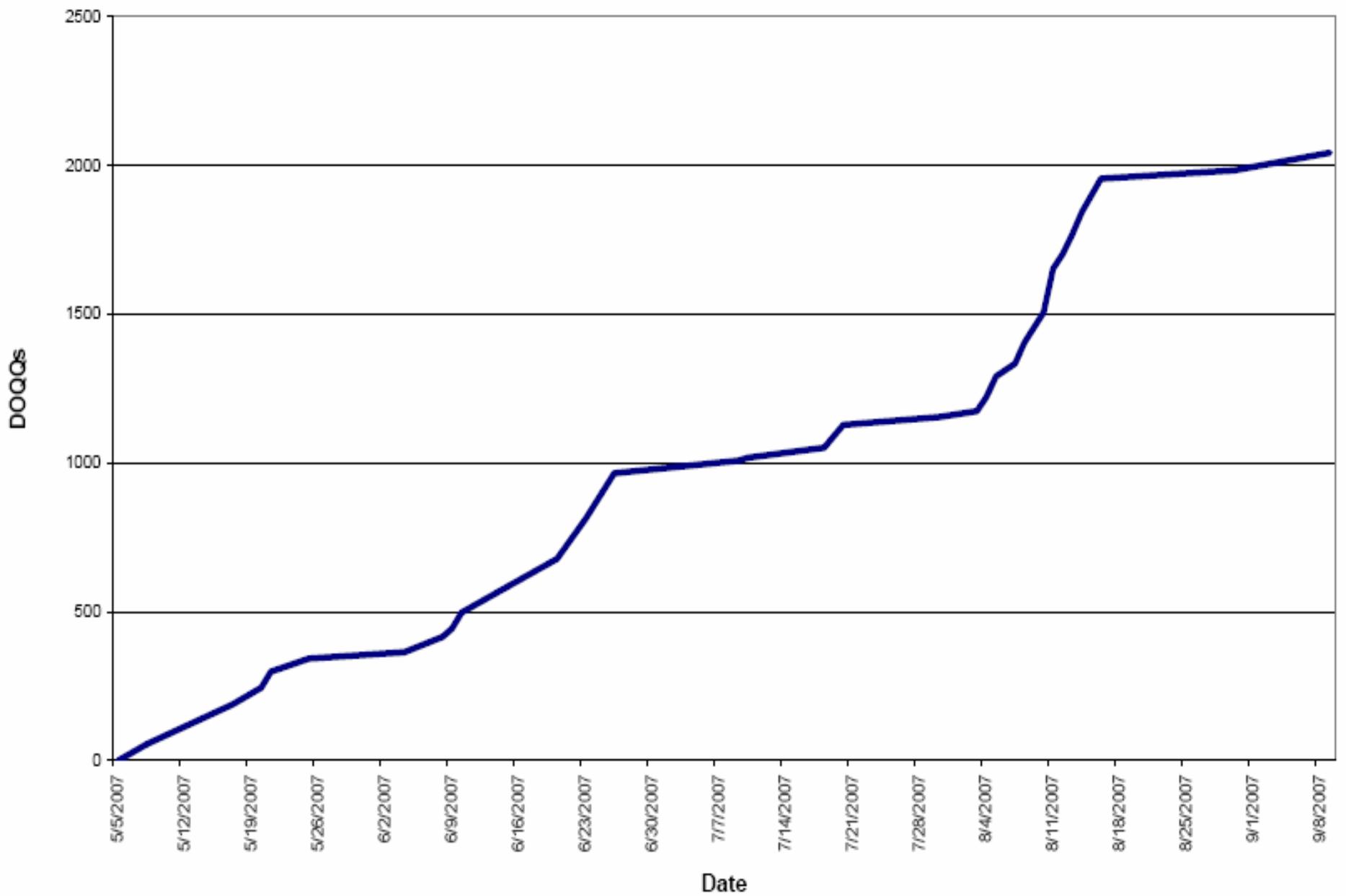
- Multi-peak histograms in relation to histo req'ts.

The approach to dual peak histogram distributions: a DOQQ with a simple majority of its area occupied by water will have a histogram distribution that has a low peak and or a dual peak. Trying to adjust a low or dual histogram peak to the USDA range of 108-148 will push the imagery beyond the blasting point; or in other words a very washed out low contrast image. Early in Season 1 it was decided that a coastal DOQQ with the above conditions would be edited differently. For instance: in Pshop a mask is applied to the land area excluding the water, adjustments are done to the masked area until the land is within spec, the level of adjustment is recorded and the mask is removed from the land area, lastly the recorded adjustments are applied to the whole DOQQ allowing for the land area to fall within in spec while keeping the image blast free.

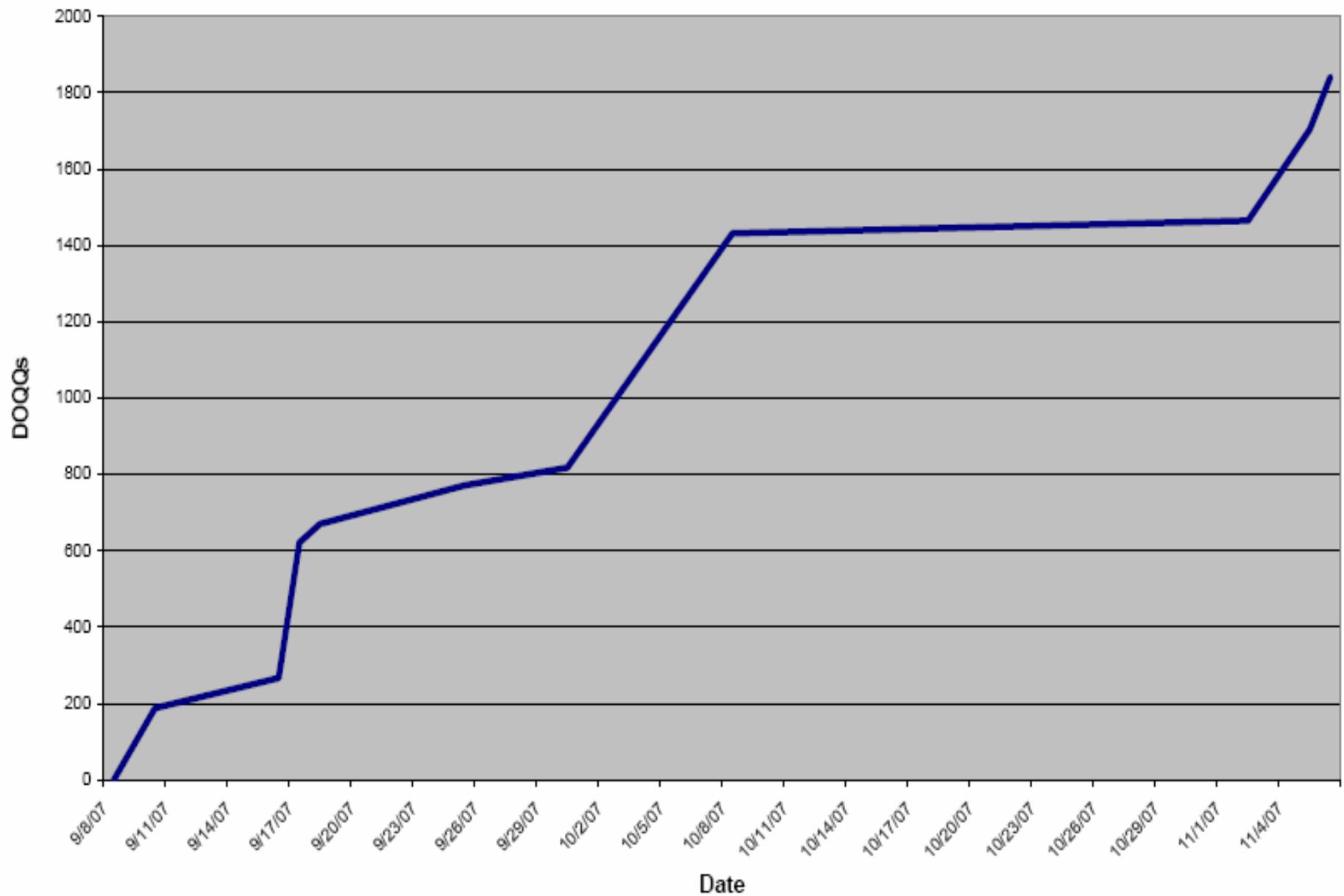
### 2007 Performance

- Acquisition by date
- Acquisition summary
- CCM deliveries graph
- CCM deliveries table

# 2007 Florida NAIP - Season 1 - DOQQ Acquisition - 2064 DOQQs



### 2007 Florida NAIP - Season 2 - DOQQ Acquisition - 1850 DOQQs



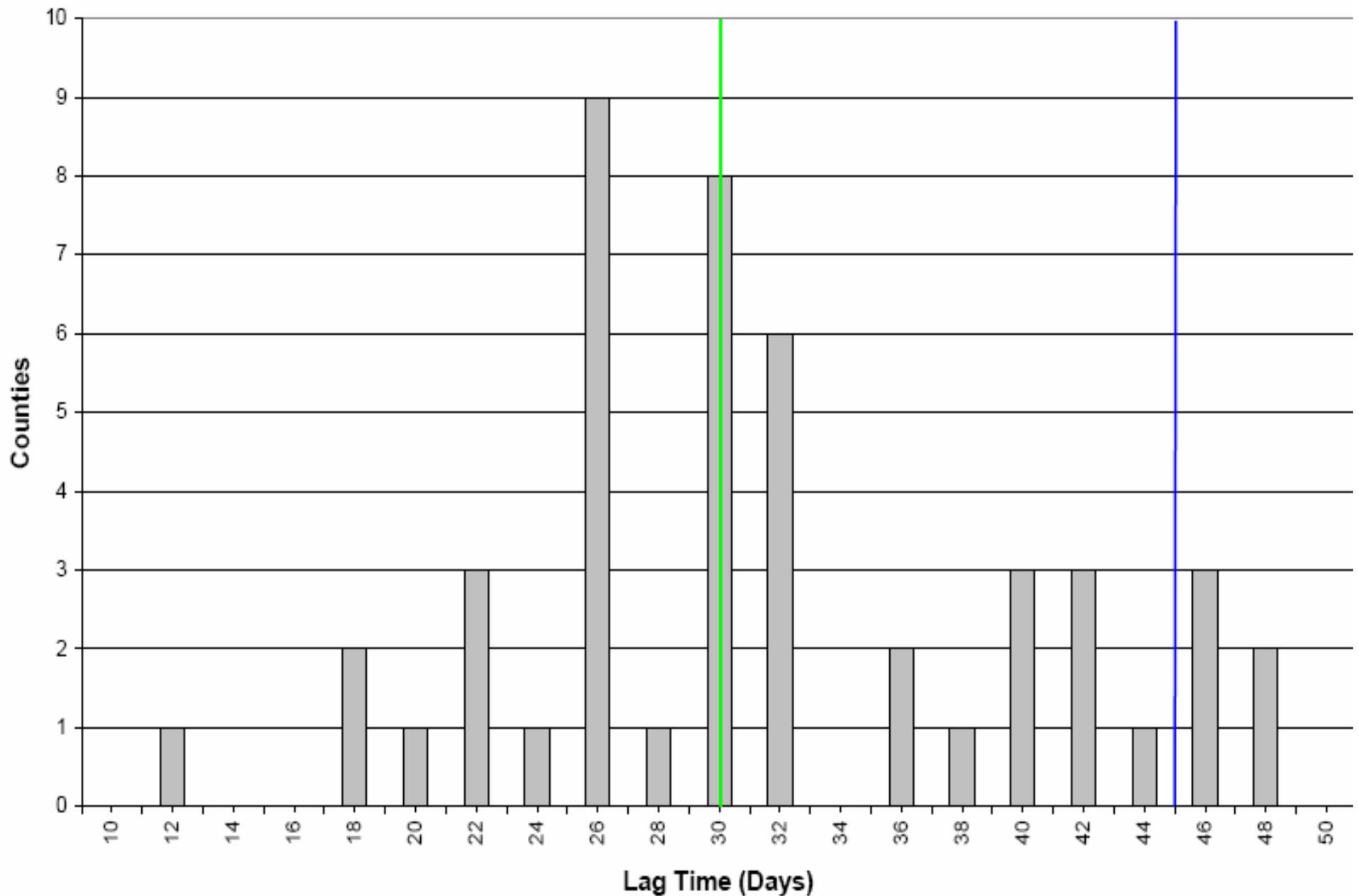
## 2007 NAIP Post Season Meeting Lessons Learned

### Acquisition Summary

	FL Season 1	FL Season 2
Planes in Project Area	2	2
Initial Window	05/01/07 - 06/30/07	09/01/07 - 10/31/07
Date Completed	09/09/07	11/06/07
Days Flown	33 / 132	17 / 67
Total Hours	79	49
Avg. Hrs / Flying Day	2.393939394	2.882352941
Avg. Line Miles / Flying Day	236.969697	388.2941176

# 2007 Florida NAIP - Lag Time - Last Exposure to CCM Delivery

Within 30 Days - 55%    Within 45 Days - 89%



## 2007 NAIP Post Season Meeting Lessons Learned

### CCM Deliveries

Project Area	First CCM Delivery	Last CCM Delivery	CCM Early Delivery	Last Delivery of Final DOQQs	DOQQ Early Delivery
Florida, Season 1 30 Counties	5/21/2007	9/28/2007 (9/30/2007)	2 Days	10/12/2007 (10/14/2007)	2 Days
Florida, Season 2 36 Counties	10/9/2007	In Progress [12/15/2007]		In Progress (12/30/2007)	

Dates in parentheses are actual contract dates for project areas.

### **2008: Other Discussions**

- 2008 Capacity
- 2m vs 1m future states

## 2007 NAIP Post Season Meeting Lessons Learned

END