2012 NAIP SEASON

Texas, North Dakota, Nebraska, Wyoming, Oregon, California, Kansas

North West Group

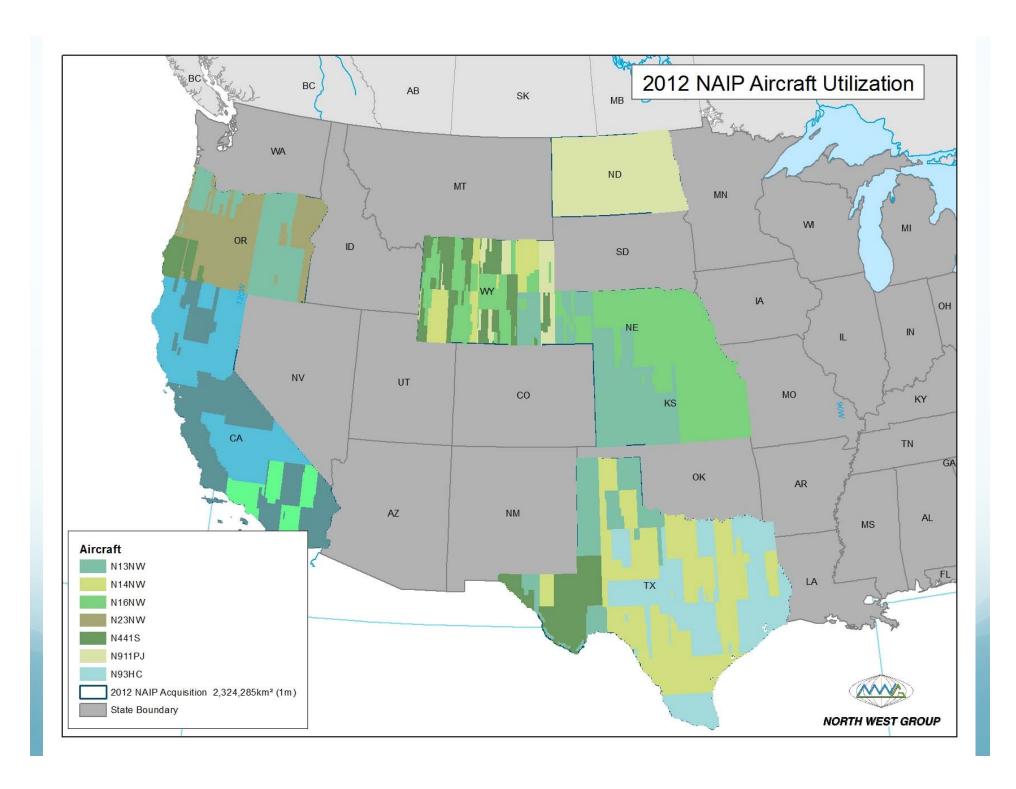
Team

- North West:
 - Contract management
 - Project management
 - Acquisition
 - 4 Cessna Conquests
 - 6 ADS80's
 - Data QC
 - Data archival
 - Processing
 - Delivery
 - Warranty fulfillment

- Fugro Horizons:
 - Acquisition
 - 3 Cessna Conquests
 - 3 ADS80's
 - Data QC

Data Acquisition (summary)

- 60,439 DOQQ's
- 297 flights over 105 suitable weather days
- April 23rd to Sept 17th
- Season extensions:
 - OR Season 1 (Snow)
 - TX Season 2 and Season 3 (Weather)
 - WY (Forest fires)
- Flown at 32,000 ft AGL (RVSM airspace)



Data Processing

- Improved automation over 2011 season:
 - Automated accuracy analysis that combines the sensor orientation and DEM to predict final product accuracies:
 - Where orientation an issue more involved AT performed
 - Where DEM an issue generate DEM patch
 - Moved to internal radiometric/mosaic process:
 - Worked well in CA, KS, NE, ND, OR
 - Issues in TX due to multiple seasons and large variation in terrain
 - Where we can process entire state at once optimal results

Problems?

Bad

- Issues with over-flights into Mexico
- Forest fires in Wyoming
- Some DEM issues

Good

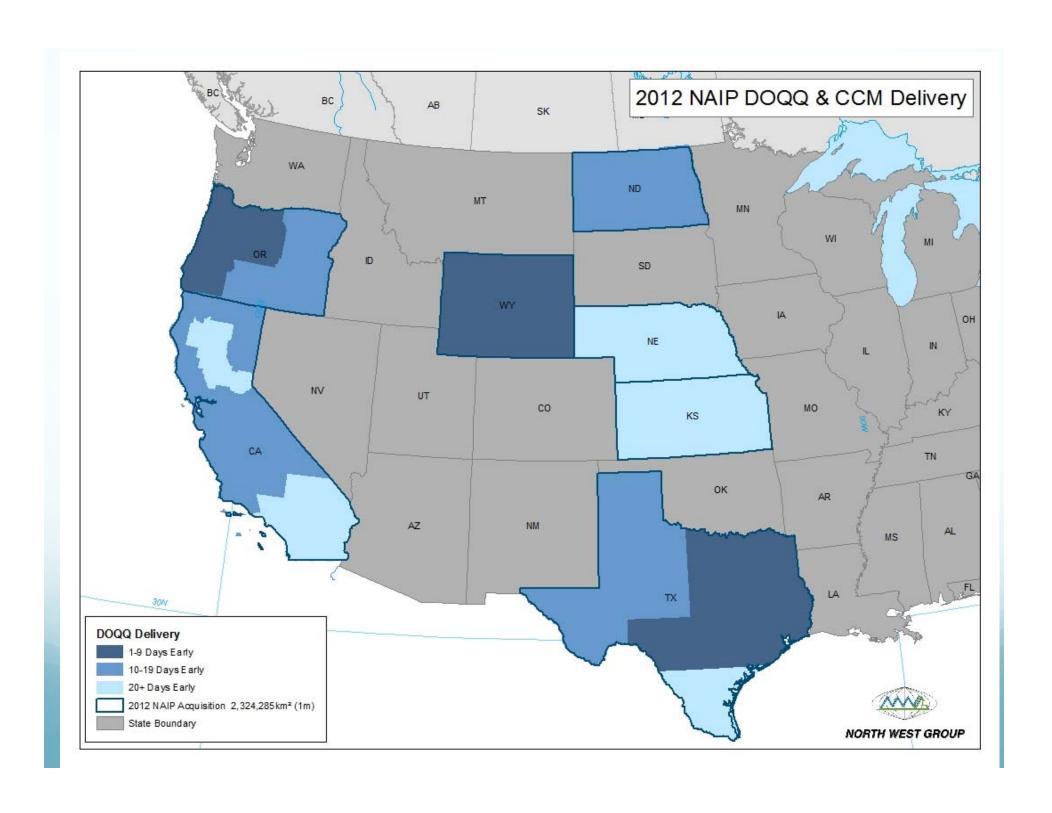
- CCM delivery on hard drives
- Bi-monthly status calls
- Automated accuracy QC
- Better mosaic process

DEM

- For 2012 we ran a new automated process to predict final product accuracy
- This worked to find and address several DEM issues...
- But, some of the problems can't be automatically detected
- With 0.5m the DEM will become much more critical







QC Results (preliminary)

State	Total DOQQ	Warranty claims (DOQQ)	Defects %
CA	11,095	14	0.13%
KS	5,902	0	0.00%
ND	5,712	N/A	
NE	5,627	1	0.02%
OR	7,473	12	0.16%
TX	17,273	N/A	
WY	7,357	N/A	
Total	60,439	27	0.04%

Program improvements for 2013?

- New ADS100 sensor:
 - Improved coverage performance: cost savings
- Delivery schedule <u>could</u> be accelerated:
 - Per county 30 days after acquisition complete?

Questions?

For more info please contact:

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Tim Crago (tim.crago@nwgeo.com)

Thanks for your time!

Detailed information per state

California

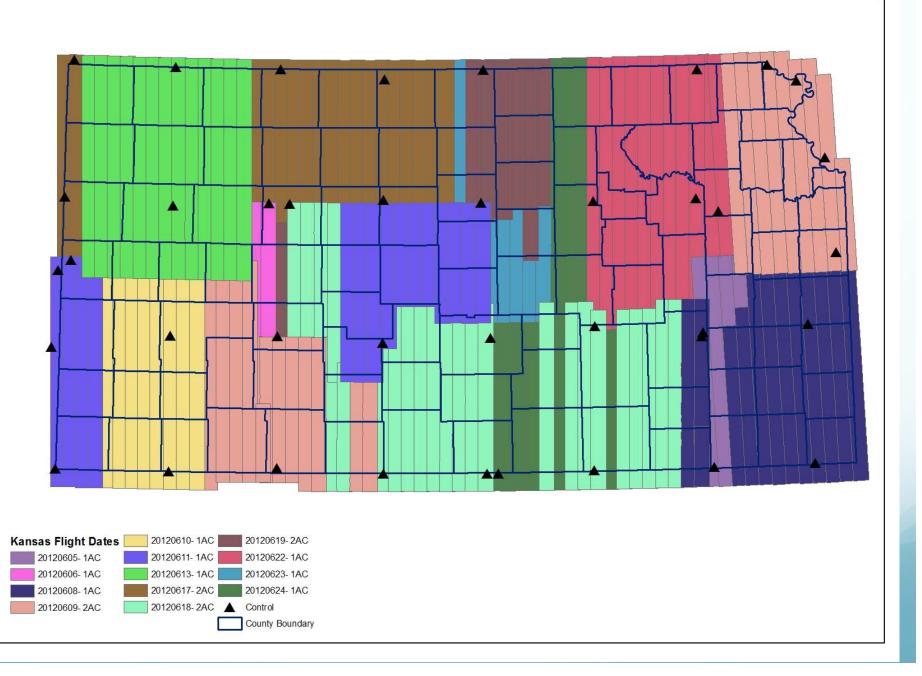
- CCMs − 58
- DOQQs 11,095
- Acquisition Window
 - Season 1: April 15th May 31st
 - Season 2: June 1st June 30th
 - Season 3: June 21st July 31st
 - Season 4: July 7th August 7th
- No extension required
- First/Last Flight Date
 - April 23rd July 20th
- Delivery Dates
 - 15-22 Days early



Kansas

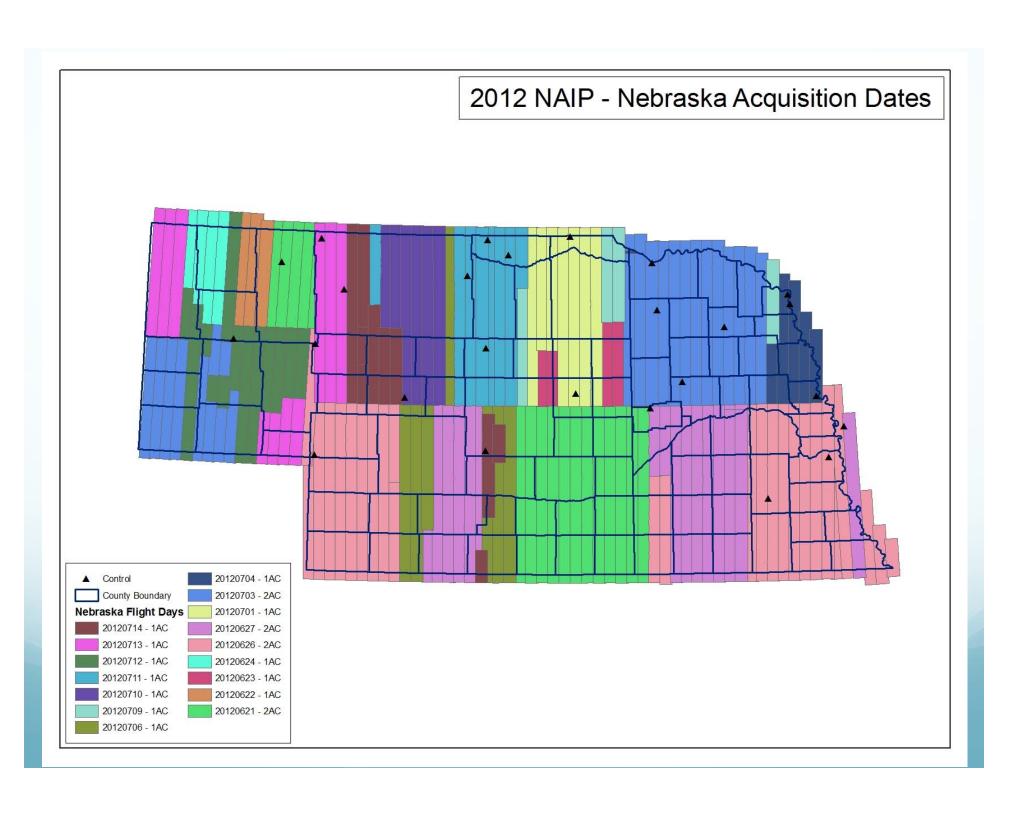
- CCMs 105
- DOQQs 5,902
- Acquisition Window
 - Season 1: June 15th August 7th
 - Season 2: July 1st September 1st
- No extension required
- First/Last Flight Date
 - June 5th June 24th
- Delivery Dates
 - 64-89 Days early

2012 NAIP - Kansas Acquisition Dates



Nebraska

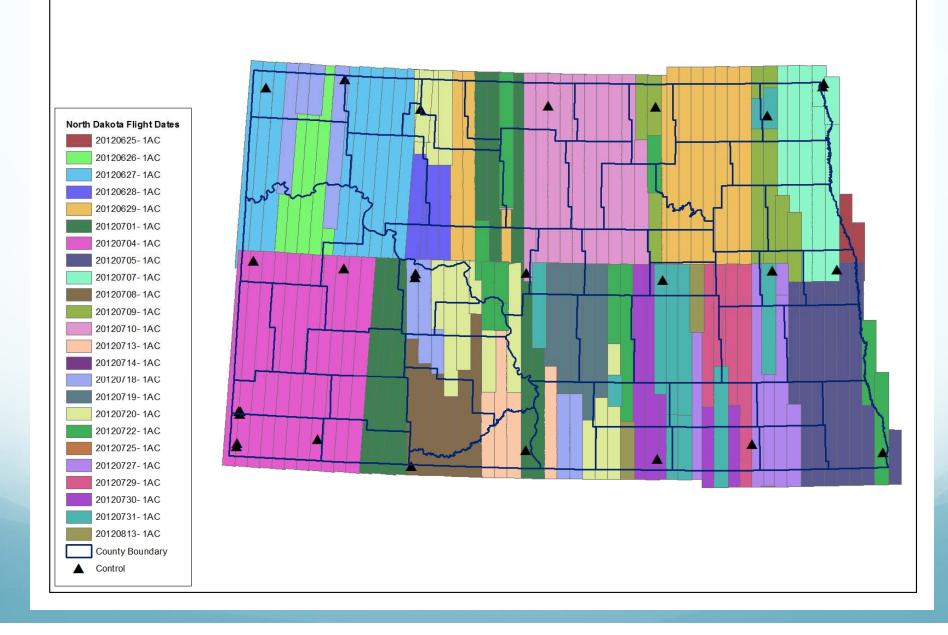
- CCMs − 93
- DOQQs 5,627
- Acquisition Window
 - Season 1: July 1st August 31st
- No extension required
- First/Last Flight Date
 - June 21st July 14th
- Delivery Dates
 - 63 Days early



North Dakota

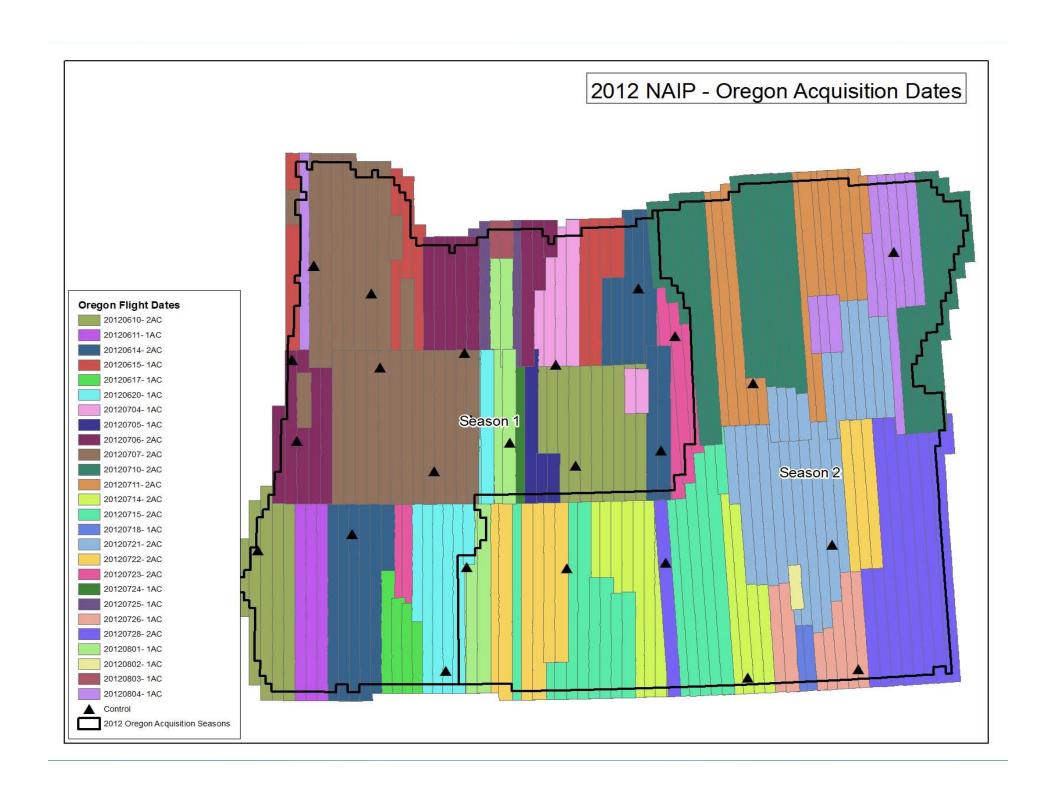
- CCMs − 53
- DOQQs 5,712
- Acquisition Window
 - Season 1: June 20th August 20th
- No extension required
- First/Last Flight Date
 - June 25th August 13th
- Delivery Dates
 - 17 Days early





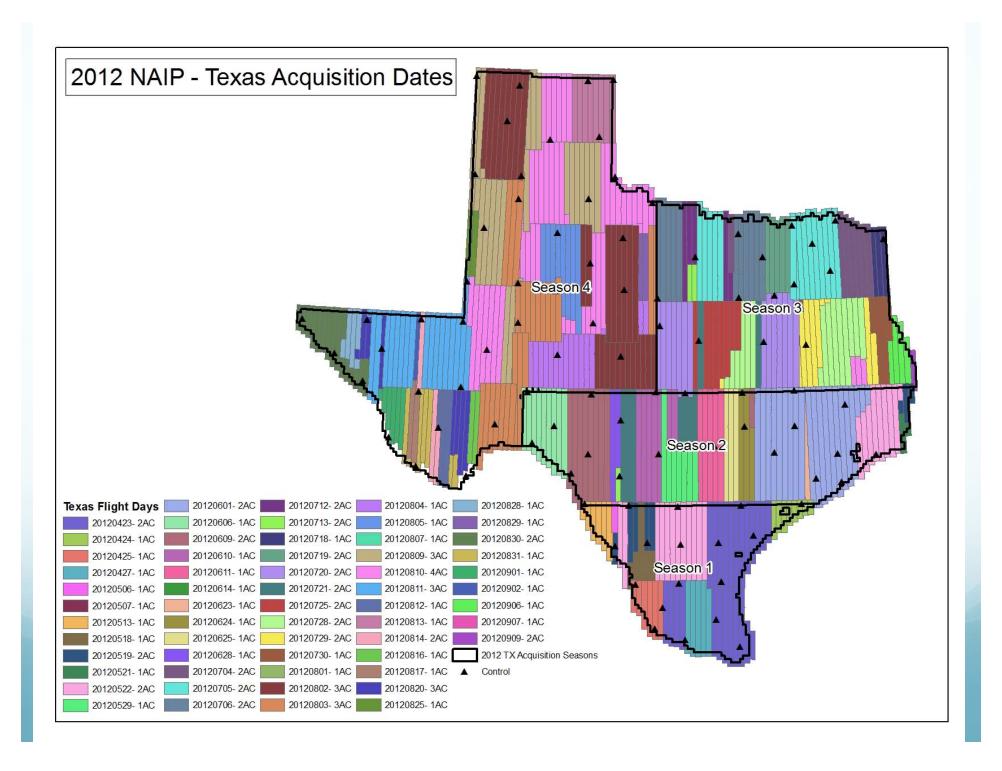
Oregon

- CCMs − 36
- DOQQs 7,473
- Acquisition Window
 - Season 1: June 1st July 15th
 - Season 2: July 7th August 15th
- Extensions
 - Season 1: 2 extensions, 2 weeks each due to snow
 - Season 2: No extension required
- First/Last Flight Date
 - June 10th August 4th
- Delivery Dates
 - 1-16 Days early



Texas

- CCMs 254
- DOQQs 17,277
- Acquisition Window
 - Season 1: April 15th June 15th
 - Season 2: June 1st July 31st
 - Season 3: July 1st August 31st
 - Season 4: August 1st September 30th
- Extensions
 - Season 1: No extension required
 - Season 2: 2 extensions, 2 weeks each due to weather
 - Season 3: 1 extension, 2 weeks due to weather
 - Season 4: No extension required
- First/Last Flight Date
 - April 23rd September 17th
- Delivery Dates
 - 2-20 Days early



Wyoming

- CCMs − 23
- DOQQs 7,357
- Acquisition Window
 - Season 1: July 1st August 15th
- Extensions
 - 1 extension, 2 weeks due to weather (forest fires a factor in delay)
- First/Last Flight Date
 - June 21st August 18th
- Delivery Dates
 - 3 Days early

