# NAIP & HXIP OKLAHOMA



### **Topics**

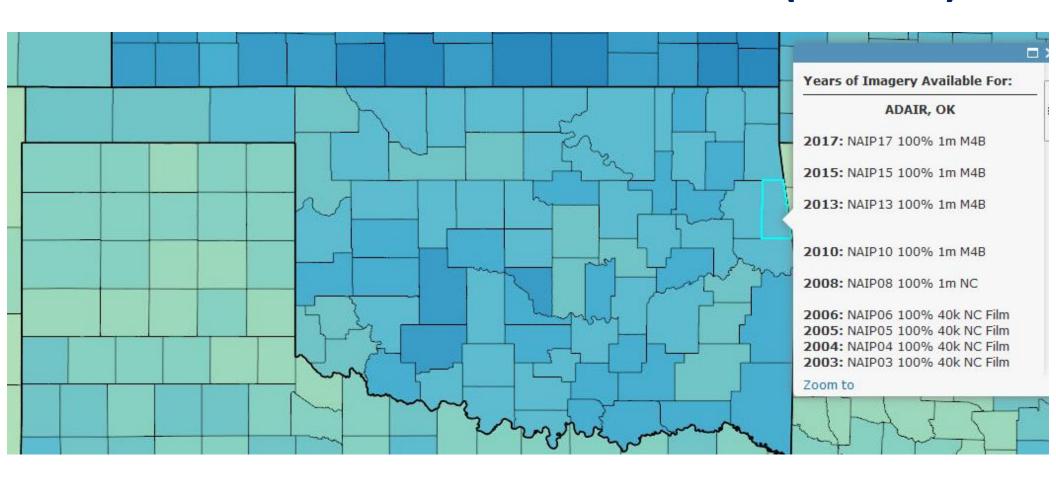
- Surdex NAIP Prime Contractor --16 yrs
- 10 aircraft, HQ in St. Louis, family owned
- OK History
- 2017 Info
- HxIP





# Extensive Coverage of OK

9 Statewide Collections back to 2003 (SDX = 6)





### **Georeferenced Color Pos Film - 2003**



## Digital Camera - 2008



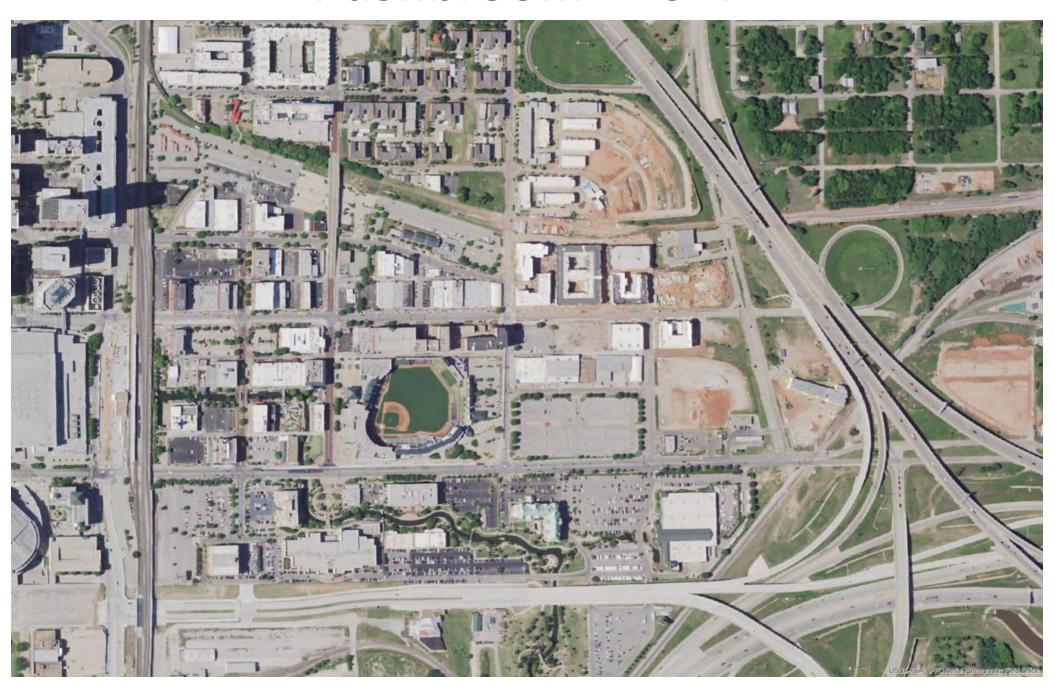
### **Absolute Accuracy - 2010**



### Frame - 2013



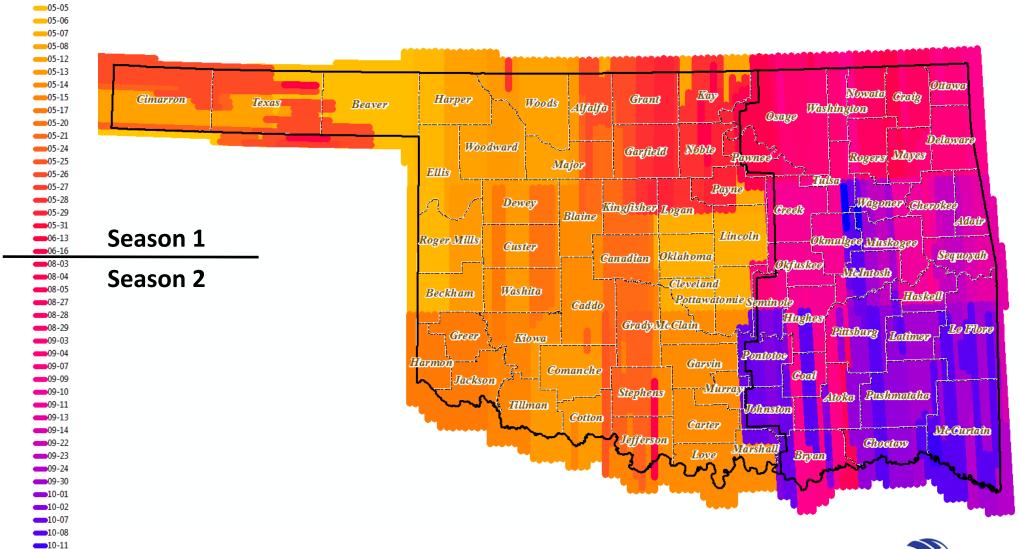
### Pushbroom - 2017



# Acquisition Dates - 2017

-05-04

**10-12** 





### 1m Data - 2017

#### ftp://okmaps.org/imagery/naip/county\_ccm/2017/

Index of ftp://okmaps.org/imagery/naip/county\_ccm/2017/

1 Up to higher level directory

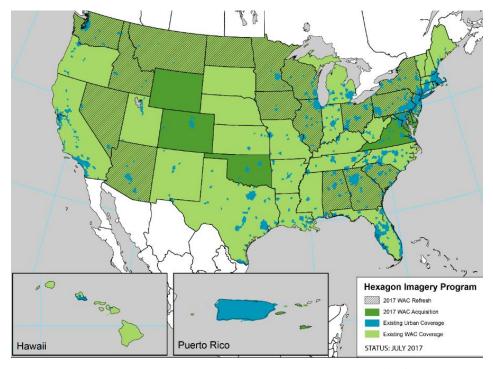
Name
Name
Adair_2017
Alfalfa_2017
Atoka_2017
Beaver_2017
Beckham_2017
Blaine_2017
Bryan_2017
■ Caddo_2017
Canadian_2017
Carter_2017
Cherokee_2017
Choctaw_2017
Cimarron_2017
Cleveland_2017
■ Coal_2017
Comanche_2017
Cotton_2017
Craig_2017
Creek_2017
Custer_2017
Delaware 2017

Size	<b>Last Modified</b>			
	1/4/2018	9:27:00 AM		
	1/4/2018	9:28:00 AM		
	1/4/2018	9:30:00 AM		
	1/4/2018	9:31:00 AM		
	1/4/2018	9:31:00 AM		
	1/4/2018	9:31:00 AM		
	1/4/2018	9:34:00 AM		
	1/4/2018	9:35:00 AM		
	1/4/2018	9:36:00 AM		
	1/4/2018	9:39:00 AM		
	1/4/2018	10:43:00 AM		
	1/4/2018	10:44:00 AM		
	1/4/2018	10:45:00 AM		
	1/4/2018	10:44:00 AM		
	1/4/2018	10:45:00 AM		
	1/4/2018	10:47:00 AM		
	1/4/2018	10:47:00 AM		
	1/4/2018	10:48:00 AM		
	1/4/2018	10:49:00 AM		
	1/4/2018	10:49:00 AM		
	1/4/2018	10:49:00 AM		



# Hexagon Imagery Program (HxIP)

- Authoritative imagery
  - Flown, produced and QC by Photogrammetrists
  - Utilizes thousands of RLS surveyed control points
  - Includes metadata
- Available now No RFP or technical spec writing required
- Licensed data
- Four-band (RGB+NIR)
- Improved accuracy
- Improved radiometry
- Fewer clouds
- Customized seamlines
- Stable program
  - 4th year of collection for lower 48
  - 18 states refreshed in 2017
  - All states now covered plus Puerto Rico, Europe





# Hexagon Imagery Program (HxIP)

#### **Streaming Service**

- ESRI Desktop/Pro
- AutoCAD Map/Civil 3D
- uDig
- Mapinfo
- Global Mapper
- ERDAS
- ....anything WMS/WMTS

#### **Pixel Delivery**

- Download/hard drive
- Stored on your server
- Geotiff
- UTM native zone, NAD83 (2011)
- Other formats / projections available upon request

Licensed data is limited distribution within your organization.



# Hexagon Imagery Program (HxIP)

#### **License Options & Considerations**

- Single stream license available w/ discounts for >20 users
  - Streaming annual renewal, no long term contract
- Pixel delivery + Streaming Data sharing w/ muni
  - Public facing websites no download restriction
  - Internal plotting



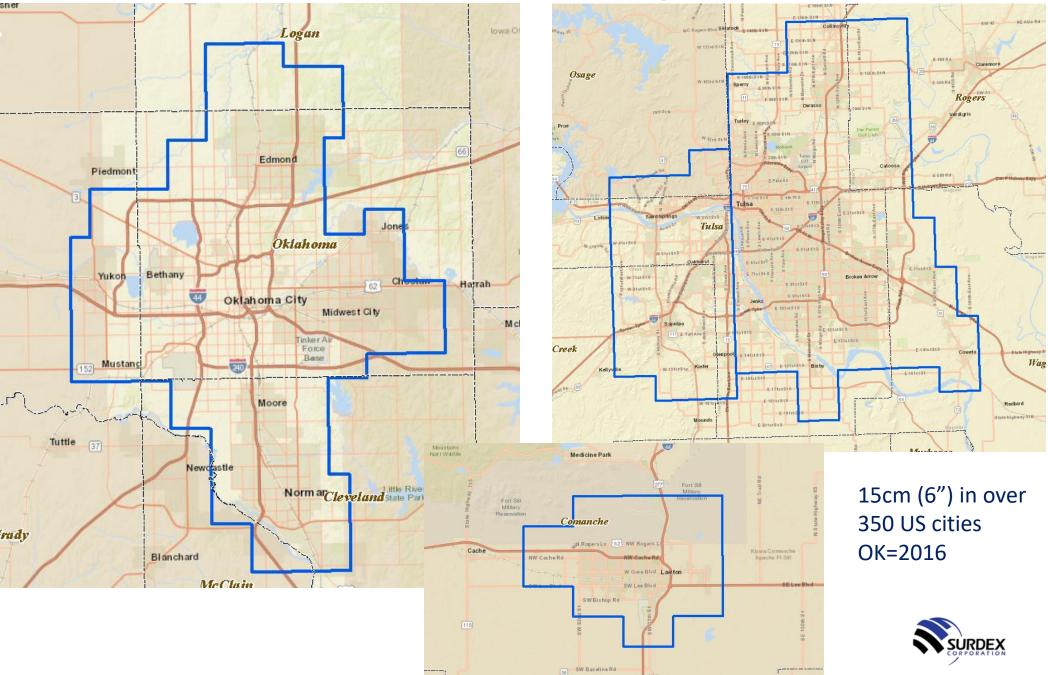
# **Product Specifications**

	NAIP – 1m	HXIP – 30cm	HXIP – 15cm	
Pos. Accuracy	4.0m CE95	3.0m CE95	1.2m CE95	
Cloud/Shadows	<10% DOQQ	<10% & not cover roads	<3% on 5x5km block <5% per sq km	
Seamlines	Automatic	Custom placement		
Capture	Leaf-on	Leaf-on	Mostly leaf-off	

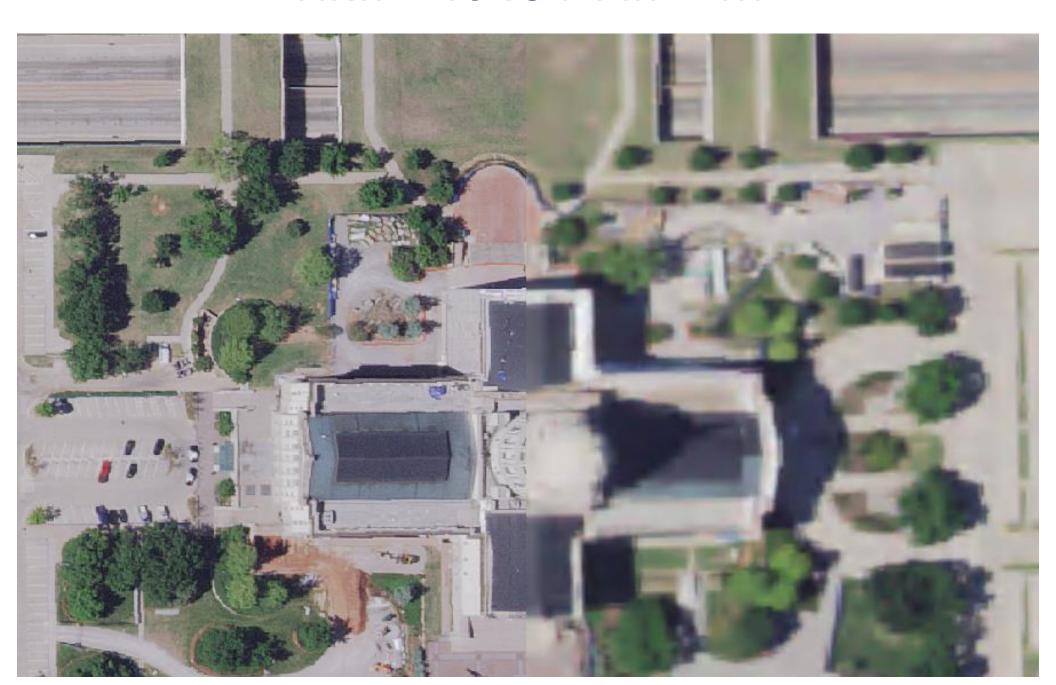




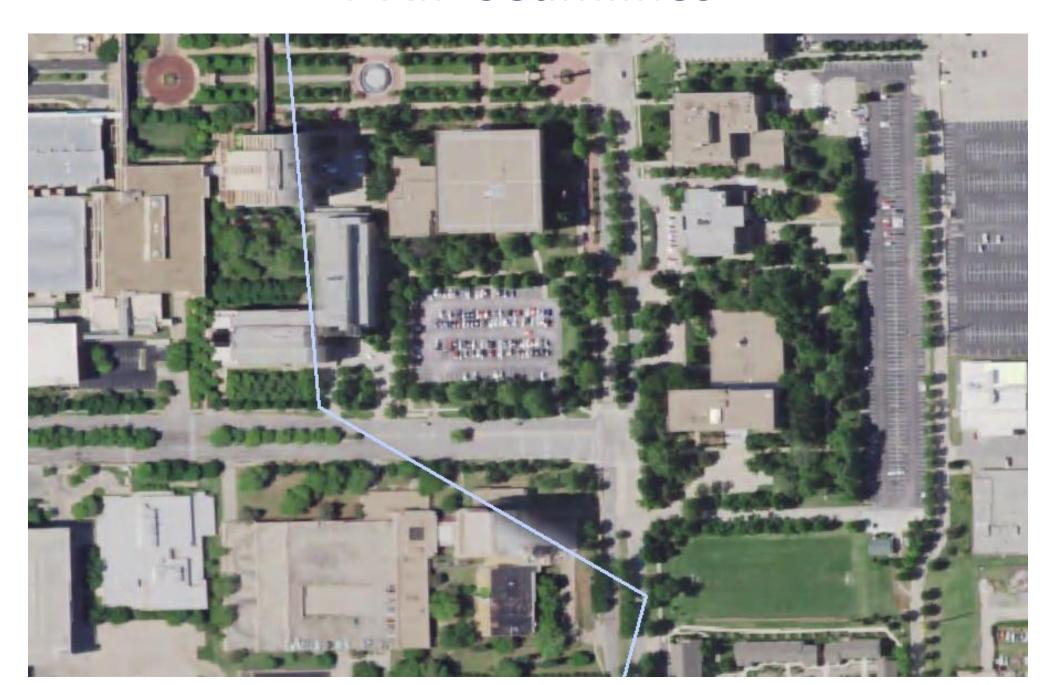
15cm coverage



### HxIP 1ft vs NAIP 1m



### **NAIP Seamlines**

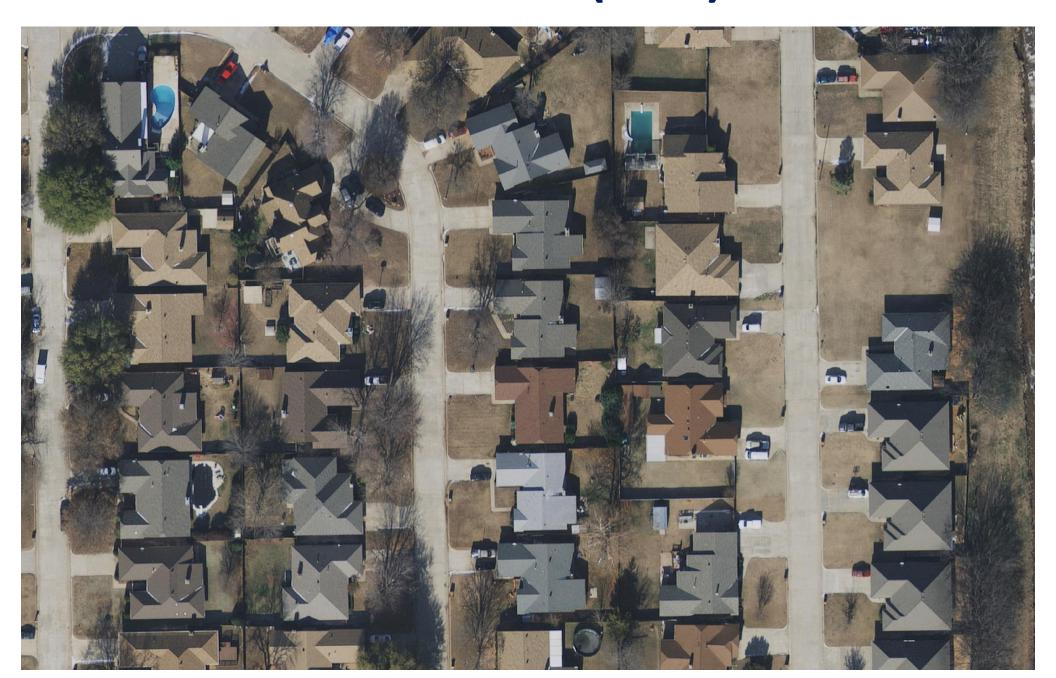


### **HxIP Seamlines**

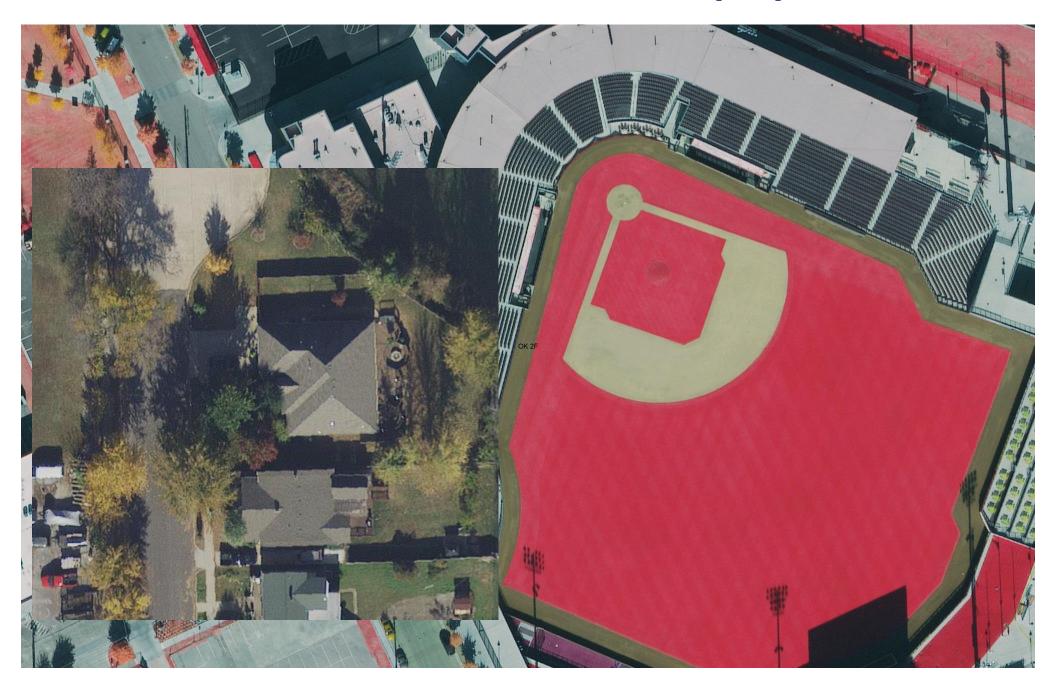




# 15cm OKC (RGB)



# 15cm Oneok Field (IR)



# Questions?



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