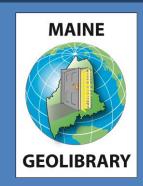
Maine Statewide Orthoimagery Program

GPCOG March 3, 2021



Maine Orthoimagery Program

- Five-year program (2017-2022) to collect new orthoimagery for the entire state on a county-wide basis.
 - 18" pixel resolution
 - Four-band imagery
- 2 Seasons Left
 - Spring 2021
 - Spring 2022





Program Goals

- Develop reliable, consistent statewide data
- Promote cost-efficiency
- Make timelier decisions
- Reduce unwanted costs
- Promote data sharing

"Why can't I simply use Google Earth or Maps to plan my projects?"

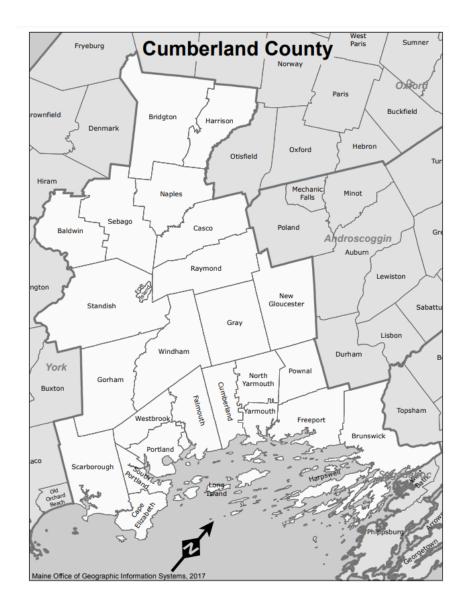
The answer is simple: the accuracy, resolutions and updates for free sources of imagery are undetermined. They lack flexibility and accuracy. And, most importantly, the data can't be integrated into GIS software.





What does it take to participate?

- County and/or UT pay 1/3 cost of 18" aerial imagery
- GeoLibrary will pay the remaining 2/3 cost



Buy Up Options

 When the County or UT participates, then municipalities within that County can 'buy up' to increased pixel resolution at a substantial savings.



4-band imagery shows natural color and near infrared.



Location: Ogunquit, ME

Note: All products developed through the program will be distributed through the Maine GeoLibrary.



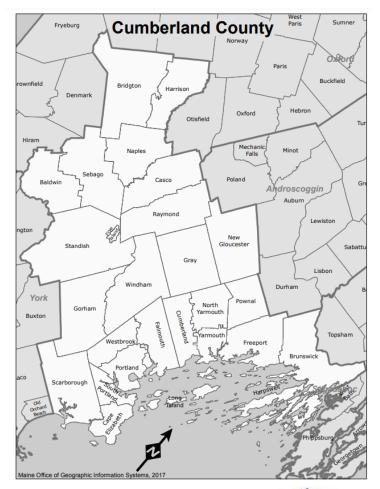
County Participation to date

- These counties have already participated so municipalities within those counties are eligible to participate in the current program, which has 2 more flying seasons: Spring 2021, Spring 2022.
 - 2017
 - Cumberland
 - York
 - 2018
 - Androscoggin
 - Lincoln
 - Kennebec
 - Sagadahoc
 - 2019
 - Penobscot
 - 2020
 - Hancock

Municipality Pricing* - Cumberland

*when county and/or UT participate

	State of N								
	Ci	Imperi	and Cour	ity					
		ſ	County Price for Increased Resolution						
County	Tiled Area (SqMi)	18" Base Price	State Share	12"	6" L1	3" L1			
Cumberland	1,186	\$64,044	\$42,691.73	\$34,398	\$160,114	\$588,260			
	County Share	\$21,352							
Town	County	Tile Area (SqMi)] [12"	6" L1	3" L1			
Baldwin	Cumberland	44	1	N/A	\$8,000	\$21,500			
Bridgton	Cumberland	74		N/A	\$13,000	\$37,000			
Brunswick	Cumberland	65		N/A	\$11,500	\$32,000			
Cape Elizabeth	Cumberland	24		N/A	\$4,500	\$13,000			
Casco	Cumberland	45		N/A	\$8,000	\$22,500			
Chebeague Island	Cumberland	17		N/A	\$3,000	\$9,500			
Cumberland	Cumberland	33		N/A	\$6,000	\$16,000			
Falmouth	Cumberland	44		N/A	\$8,000	\$21,500			
Freeport	Cumberland	54		N/A	\$9,500	\$27,000			
Frye Island	Cumberland	3		N/A	\$2,000	\$3,000			
Gorham	Cumberland	60		N/A	\$10,500	\$30,000			
Gray	Cumberland	52		N/A	\$9,000	\$26,500			
Harpswell	Cumberland	93		N/A	\$16,000	\$49,500			
Harrison	Cumberland	44		N/A	\$8,000	\$21,500			
Long Island	Cumberland	8		N/A	\$2,000	\$4,500			
Naples	Cumberland	45		N/A	\$8,000	\$22,000			
New Gloucester	Cumberland	55		N/A	\$9,500	\$28,000			
North Yarmouth	Cumberland	27		N/A	\$5,000	\$13,000			
Portland and Islan	d Cumberland	46		N/A	\$8,000	\$24,500			
Pownal	Cumberland	28		N/A	\$5,000	\$13,500			
Raymond	Cumberland	53		N/A	\$9,500	\$26,000			
Scarborough	Cumberland	63		N/A	\$11,000	\$34,000			
Sebago	Cumberland	58		N/A	\$10,000	\$28,500			
South Portland	Cumberland	19		N/A	\$3,500	\$10,500			
Standish	Cumberland	79		N/A	\$14,000	\$42,500			
Westbrook	Cumberland	22		N/A	\$4,000	\$11,000			
Windham	Cumberland	59		N/A	\$10,500	\$29,000			
Yarmouth	Cumberland	29		N/A	\$5,000	\$14,000			



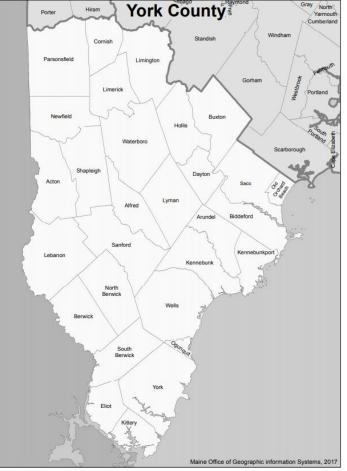




Municipality Pricing* - York

*when county and/or UT participate

York County													
		TORK	Jounty										
				County Price for Increased Resolution									
County	Tiled Area (SqMi)	18" Base Price	State Share	12"	6" L1	3" L1							
York	1,376	\$74,304	\$49,531	\$39,908.95	\$185,765	\$682,501							
	County Share	\$24,773											
		Tile Area											
Town	Town County			12"	6" L1	3" L1							
Acton	York	49		N/A	\$8,500	\$24,000							
Alfred	York	35		N/A	\$6,000	\$17,000							
Arundel	York	30		N/A	\$5,500	\$14,500							
Berwick	York	45		N/A	\$8,000	\$22,000							
Biddeford	York	48		N/A	\$8,500	\$26,000							
Buxton	York	49		N/A	\$8,500	\$23,500							
Cornish	York	27		N/A	\$5,000	\$13,500							
Dayton	York	23		N/A	\$4,000	\$11,500							
Eliot	York	26		N/A	\$4,500	\$13,000							
Hollis	York	40		N/A	\$7,000	\$19,500							
Kennebunk	York	46		N/A	\$8,000	\$26,000							
Kennebunkport	York	30		N/A	\$5,500	\$28,500							
Kittery	York	28		N/A	\$5,000	\$15,000							
Lebanon	York	64		N/A	\$11,000	\$32,000							
Limerick	York	35		N/A	\$6,000	\$17,000							
Limington	York	51		N/A	\$9,000	\$25,500							
Lyman	York	47		N/A	\$8,500	\$23,500							
Newfield	York	40		N/A	\$7,000	\$19,500							
North Berwick	York	44		N/A	\$8,000	\$22,000							
Ogunquit	York	9		N/A	\$2,000	\$5,000							
Old Orchard Beach	York	12		N/A	\$2,500	\$6,500							
Parsonsfield	York	68		N/A	\$12,000	\$34,000							
Saco	York	65		N/A	\$11,500	\$31,500							
Sanford	York	58		N/A	\$10,000	\$28,500							
Shapleigh	York	49		N/A	\$8,500	\$24,000							
South Berwick	York	39		N/A	\$7,000	\$19,500							
Waterboro	York	65		N/A	\$11,500	\$33,000							
Wells	York	69		N/A	\$12,000	\$37,000							
York	York	71		N/A	\$12,500	\$38,000							

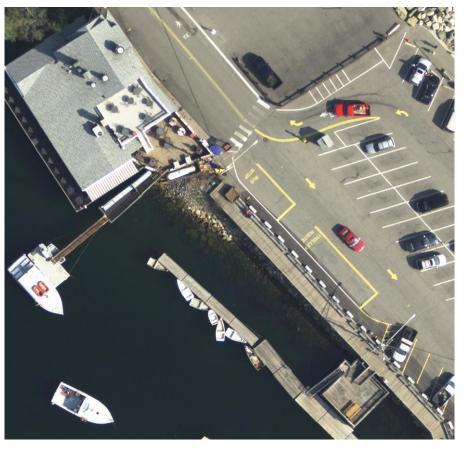


Other County Pricing located here: https://www.maine.gov/geolib/programs/ortho/index.html

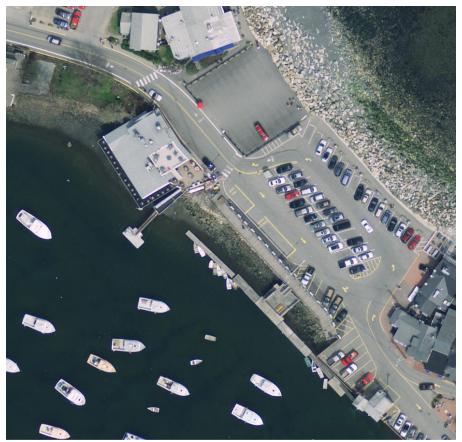


Image Resolution Comparisons

3-Inch Pixel Resolution



6-Inch Pixel Resolution



Ogunquit, Maine



12" (left), 6" (right)



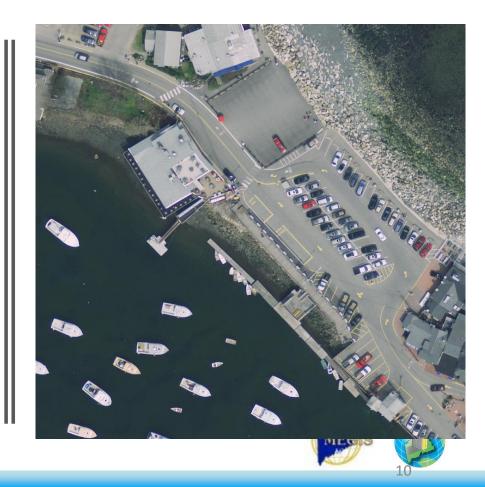
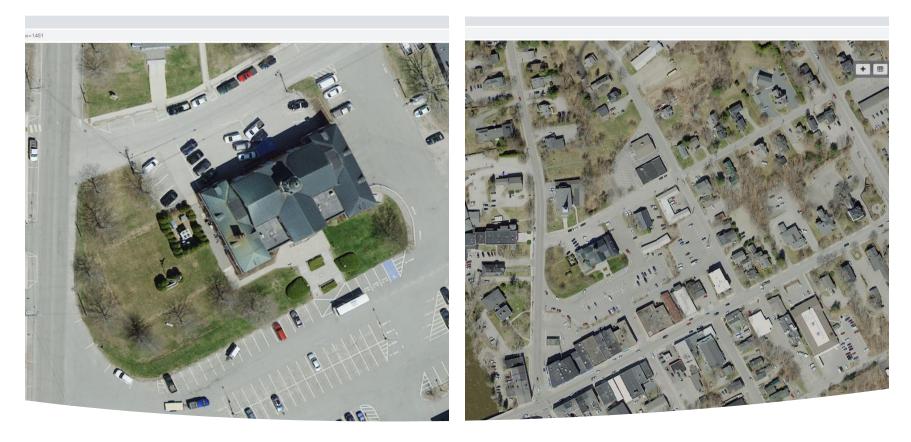


Image Resolution Comparisons

6-Inch Pixel Resolution

18-Inch Pixel Resolution

11



Ellsworth, Maine



maps.woolpert.com/svc/map;c=1000;w=1468

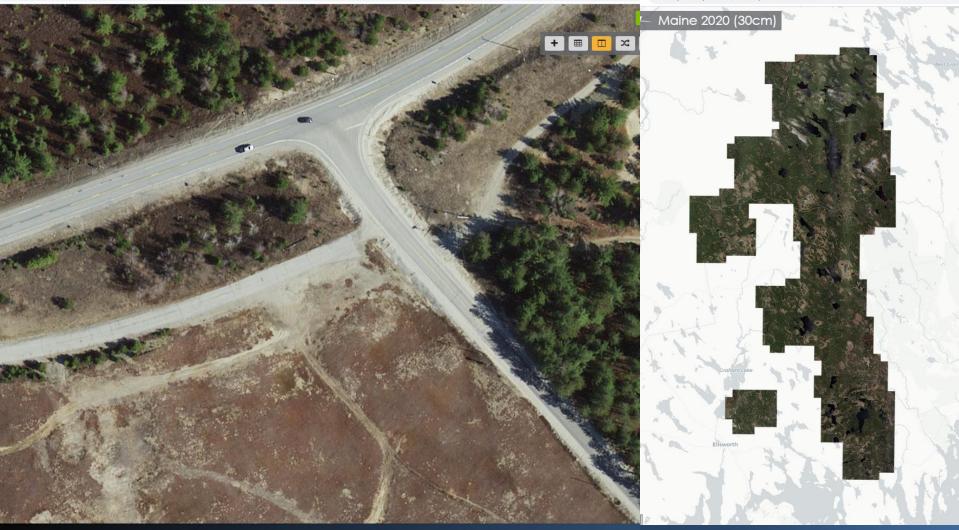
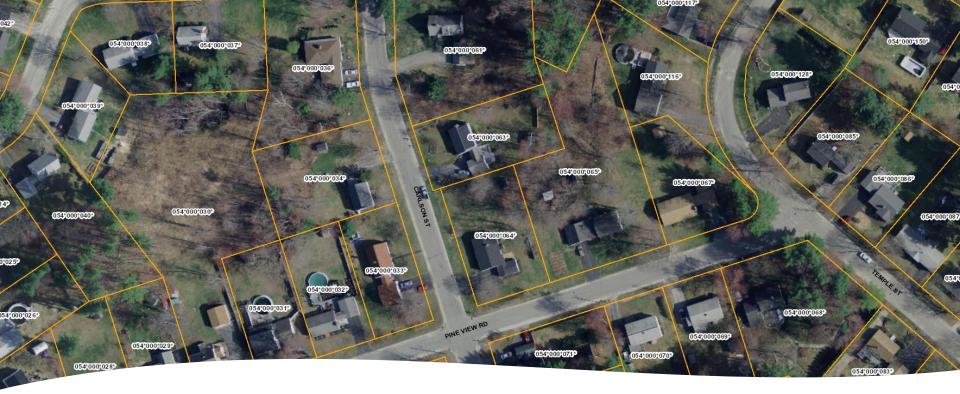


Image Resolution – 12-inch

Hancock County Unorganized Territories



Public & Private Usage

- Economic Development
- Parcel Mapping
- Land Planning & Zoning
- Emergency Management
- Surveying & Mapping
- Permitting
- Site Analysis
- Natural Resource Inventories
- And others



Emergency Dispatch - E911

Northern Cumberland Co – Casco Ortho 18in







Does it pay to participate in the program?

 A conservative analysis of just three of 13 sectors using aerial imagery, show an economic return of over 400%!

		Asset Management	Site Selection	Planning/ Reconnaissance	Code Enforcement	Improved Services	Infrastructure Planning	Support for Field Work/Inspections	Preservation	Change Over Time Comparison	Natural Disaster Planning	Assessing Current Conditions	Improving Spatial Data Accuracy	Identifying Encroachment	Monitoring	Operations/Management	Harvesting/Managing Resources	Attractive Procurement Efficiencies
	Forestry			х				x	х	x		х	х	х	х		х	
	Stormwater			х	х		х	x				х	х			х		х
	Transportation	х	х	x		х	х	х			х	х	x	х		х		x
	Wildlife Habitat			х				х	х			х	х	х	х			х
	Flood Management			x	х			x		x		x	x					x
	Search & Rescue			х		х		х			х					х		х
	Agriculture		х	х				х		х			х	х	х		х	х
	Emergency Response			x		x	x	x			x		x			x		x
	Utilities/Pipelines	х		х		х	х	х			х		х	х		х		x
- [Fisheries			х		х		х					х		х		х	х
	Municipal Government	х	x	х	х	х	x	x		x	x	x	x	х		x		x
	Economic Development		х	x		х		х		х		х	x					x
	Broadband	x		х				x					х					x



Typical Schedule

Geospatial Reserve Account Available to hold funds if making payment plans

Task

Notice of intent to participate Complete Memorandum of Agreement Payment Due to State Treasurer Delivery Order to Contractor Completed Imagery Acquisition Image Processing & QC Images Delivered Due Date

December 30th January 30th February 15th March 15th April - May May - November

December 30th



* Willing to be flexible on these dates...

Where can I learn more information?

Website

<u>https://www.maine.gov/geolib/programs/ortho/index.html</u>

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