

North Carolina Statewide Orthoimagery 2010



The North Carolina 911 Board awarded a grant of \$12.3 million to the City of Durham's Emergency Communications Center on September 25, 2009 for acquisition of statewide orthoimagery (aerial photography for base mapping purposes). The City of Durham recognized that the value of up-to-date, consistent orthoimagery would apply equally to its neighboring counties. The current situation in North Carolina is a patchwork of imagery (years captured and resolutions) and a slow pace of new imagery acquisition in difficult economic times. The Durham PSAP concluded that a statewide project would maximize benefits in a timely way.

The project is managed by the NC Center for Geographic Information and Analysis (CGIA) in the NC OneMap framework of data access. CGIA is collaborating with the Geospatial and Technology Management Office in the Department of Crime Control and Public Safety to take advantage of the Qualifications-Based Selection contracts in place for ortho imagery acquisition, the NC Geodetic Survey to assure positional accuracy of the new products, and the Statewide Mapping Advisory Committee's Working Group for Orthophotography Planning for technical advice. Digital cameras captured imagery across the state in early 2010, and products will be available in early 2011. The products will include true color imagery captured and processed at 0.5-foot resolution (6-inch pixels, equivalent to mapping at 1 inch = 200 feet) as well as compressed imagery for faster performance in GIS. Products will be distributed to Public Safety Answering Points in each of 100 counties on portable drives with the expectation that data will be shared with all county and municipal 911 and GIS operations. Web map services and downloadable files will be available to the public through www.nconemap.gov.

The following products will be delivered to each county on 500-GB portable disk drives:

- Full resolution Tiff imagery for the county (6-inch resolution) in 5,000 by 5,000 foot tiles
- Compressed imagery by tile (20:1 compression ratio using MrSID) for the county
- Compressed imagery in the same format for tiles in all adjacent counties
- A composite of county imagery (mosaic), compressed at a ratio of 50:1
- A composite of each adjacent county in the same compressed format
- Metadata for the county imagery
- Tile index (shapefile)

The approximate maximum imagery file sizes by county (for the county of delivery and for the total package including adjacent county files) are displayed in the table below.

For more information contact Jeff Brown at CGIA, jeff.brown@nc.gov

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Approximate File Sizes for Delivery of Imagery Datasets to Counties on Portable Drives

NAME	COUNTY FILES (GB)	TOTAL PACKAGE (GB)
ALAMANCE	165	230
ALEXANDER	106	134
ALLEGHANY	98	117
ANSON	209	264
ASHE	167	200
AVERY	104	139
BEAUFORT	341	475
BERTIE	276	384
BLADEN	341	452
BRUNSWICK	337	403
BUNCOMBE	259	378
BURKE	203	295
CABARRUS	145	193
CALDWELL	187	261
CAMDEN	105	126
CARTERET	266	353
CASWELL	167	211
CATAWBA	164	218
CHATHAM	274	418
CHEROKEE	184	221
CHOWAN	76	106
CLAY	92	104
CLEVELAND	183	231
COLUMBUS	368	464
CRAVEN	294	409
CUMBERLAND	252	351
CURRITUCK	135	162
DARE	205	246
DAVIDSON	222	323
DAVIE	110	146
DUPLIN	310	431
DURHAM	120	159
EDGECOMBE	197	262
FORSYTH	163	237
FRANKLIN	195	284
GASTON	145	174
GATES	136	172
GRAHAM	124	148

GRANVILLE	209	278
GREENE	109	137
NAME	COUNTY FILES (GB)	TOTAL PACKAGE (GB)
GUILFORD	249	346
HALIFAX	284	415
HARNETT	233	339
HAYWOOD	219	306
HENDERSON	153	203
HERTFORD	145	182
HOKE	155	206
HYDE	293	409
IREDELL	233	370
JACKSON	197	248
JOHNSTON	305	445
JONES	192	255
LEE	107	128
LENOIR	162	226
LINCOLN	123	172
MACON	203	269
MADISON	181	217
MARTIN	186	259
MCDOWELL	178	248
MECKLENBURG	217	288
MITCHELL	98	117
MONTGOMERY	201	293
MOORE	272	432
NASH	212	309
NEW HANOVER	92	104
NORTHAMPTON	219	277
ONSLOW	309	390
ORANGE	157	208
PAMLICO	151	191
PASQUOTANK	98	117
PENDER	337	491
PERQUIMANS	107	128
PERSON	154	195
PITT	255	371
POLK	97	109
RANDOLPH	294	410
RICHMOND	193	268
ROBESON	363	482
ROCKINGHAM	217	288
ROWAN	201	280
RUTHERFORD	222	309
SAMPSON	363	530

SCOTLAND	130	164
STANLY	164	239
NAME	COUNTY FILES (GB)	TOTAL PACKAGE (GB)
STOKES	174	220
SURRY	208	276
SWAIN	220	278
TRANSYLVANIA	153	193
TYRRELL	163	195
UNION	245	309
VANCE	110	132
WAKE	329	479
WARREN	172	229
WASHINGTON	149	207
WATAUGA	125	157
WAYNE	216	300
WILKES	290	442
WILSON	149	208
YADKIN	137	181
YANCEY	128	162