

MDEQ 2022-2023 Central Mississippi Digital 6 Inch Orthophotography Project Update

Submitted by Stephen Champlin, MDEQ Project Manager, 7/6/2023.

The Mississippi Department of Environmental Quality is currently involved in a project to collect 2022-23 6-inch orthoimagery funded by the Mississippi office of the NRCS (Natural Resources Conservation Service). In November of 2022, MDEQ contracted with MGI, LLC and their subcontractor SURDEX, for Orthoimagery acquisition and production. The contract was to acquire 6-inch pixel aerial imagery and provide color 4-band orthophotos for the entirety of 25 counties in Central Mississippi (16,087 sq. miles) plus a buffer zone (419 sq. miles). The imagery will be 6-inch pixel resolution with a map scale of 1:1200 (1"=100') and will reference Mississippi State Plane Coordinate System NAD83 (2011) East or West Zone. Accuracy will meet a minimum map accuracy standard of ASPRS Class I. The imagery will undergo in-depth independent QA performed by Atlas Geographic Data, Inc. The area colored light green on the map below highlights the 25 central Mississippi counties listed below and included in the project. **Final delivery to the State will be prior to December 31, 2023.** The imagery is expected to be made available to the counties and the public on the MARIS website (Mississippi Automated Resource Information System).

Central MS 1/3rd

Central 1/3rd		
County	Area Sq. Miles	Population
Attala	734.98	18,437
Choctaw	418.18	8,277
Clarke	691.55	15,770
Hinds	869.74	238,797
Holmes	756.70	17,737
Humphreys	418.49	8,389
Issaquena	413.05	1,361
Jasper	676.24	16,505
Kemper	766.18	9,943
Lauderdale	703.63	76,279
Leake	583.00	22,792
Lowndes	505.51	59,150
Madison	714.51	104,562
Neshoba	570.14	29,332
Newton	578.10	21,360
Noxubee	695.14	10,700
Oktibbeha	458.20	49,512
Rankin	775.49	152,677
Scott	609.19	28,332
Sharkey	431.72	4,404
Smith	636.25	16,009
Warren	588.50	46,519
Washington	724.74	46,057
Winston	607.25	18,229
Yazoo	922.95	28,565
TOTALS	15,849.43 Sq. miles	1,049,695 Population



- 12/24/2022 – First day of acquisition of imagery by SURDEX aircraft in Mississippi.
- 2/13/2023 – Final day of acquisition of imagery by SURDEX aircraft in Mississippi. A total of 12,792 miles of flight lines flown.

- 3/5/2023 – That weekend 100% of re-flightlines required because of areas of earlier high water and flooding during acquisition flights were reflowed successfully.
- 3/31/2023 – Ground Control Survey Report was delivered.
- 4/10/2023 – Ortho Pilot Imagery of four 5000x5000 foot panels from 2 different counties was delivered.
- 4/24/2023 – Initial review complete with minimal edit calls. Overall, the Pilot areas looked very good.
- 5/4/2023 - Pilot area imagery approved by Atlas Geographic Data, Inc., and production was resumed.
- 6/21/2023 – The first two (2) Counties are expected to be delivered for review in early July.