



# Clinton County, Ohio

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## Final Aerial Photography Report

**To:** Joe Merritt  
GIS Manager

**From:** Brian Stevens  
Project Manager

**Date:** June 30, 2003

**Subject:** Aerial Photography Report (60611)

On April 1, 2003, Woolpert's flight crews were able to acquire all of the aerial photography for the Clinton County, Ohio Countywide LiDAR and Digital Orthophoto Update Mapping Project, meeting the specifications and requirements for the aerial photography. This includes 10 flight lines at 1"=800' negative scale.

Fortunately we had an excellent day for flying the photography. Film was flown to match sun angles for an even exposure across the county. After examining the film, and performing our detailed analysis, we have determined the film is of excellent quality and ready for production.

During our editing procedure we located all of the target panels.

### **Photography Dates and Environmental Conditions**

Times given in Eastern Standard Time (EST).

Date: Tuesday April 1, 2003

Weather: Clear

Aircraft: N4032C

Camera No. 5099

Scale: 1"= 800'

Time: Began with Flight 9 at 3:02 PM with the sun angle at 42.6 degrees

Finished Flight 1 at 3:52 PM with the sun angle at 34.4 degrees

Time: Flew Flight 10 from 3:56 PM to 3:59 PM with the sun angle at 33.5 degrees

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GIS Manager  
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### **Image Quality**

Atmosphere: Clear

Ground: There were no noticeable problems.

Streams: Within their normal banks

Foliage: Deciduous trees are sufficiently barren

Shadows: Cloud shadows appear on less than 5% of the area in any one photograph.

Sun Spots/Reflection: "Hot Spots" appear on less than 5% of the area in any one photograph

Solar Angle: Greater than 30 degrees with an average of 38.0 degrees

Film: Negatives contain no static marks, tears, scratches, or other blemishes

Image Quality: Negatives are clear and sharp in detail and uniform in density

### **Specifications**

Photo Coverage: Full photographic coverage of the entire project area.

Scale: Negative scale is within 5% of 1"=800'

Forward lap: Averages 60%

Side lap: Averages 30%

Crab: Averages less than 5 degrees

Tilt: Averages less than 1 degree over the entire project

Aircraft N4032C: Camera Serial Number: #5099; Focal Length: 153.090 mm

Ground Control Targets: All targets have been located.