



DAVIS AVIATION

Aerial Infrared Remote Sensing

28 January 2015

EWMP Aerial Infrared Deer Count Methodology

The eight cities comprising the Eastern Wildlife Management Partnership (EWMP) cover an area of nearly twenty-seven thousand acres (26,837, to be precise). This is too much area to conduct an aerial infrared deer count in one night, or even two, using my 100% coverage technique of counting deer. Ten thousand acres is about the limit for one night's work. Therefore, the count area for each night needed to have the best barriers available that would hinder deer movement across them between the infrared imaging sessions. I selected I-271 as one barrier and Cedar Road as the other.

The first night's imaging work was conducted over Pepper Pike and the eastern portion of Mayfield Heights—both of which lie east of the north-south running interstate—flying north-south lines. A very small portion of southeastern Lyndhurst was also included. This area was flown on the evening of 25 December 2014.

The area west of I-271 is neatly divided into two nearly equal parts—north and south—by the mostly five-lane Cedar Road. While Cedar Road is not as impenetrable a barrier to deer movement as I-271, it is a barrier that I consider well-placed and adequate for keeping the vast majority of deer on one side or the other for a 24-hour period. The south half, including about a third of Cleveland Heights, the vast majority of University Heights and all of Beachwood and Shaker Heights, was flown during the night of 28 December.

The last flight, on the night of 29 December, covered the remaining areas west of I-271 and north of Cedar Road: the northern two-thirds of Cleveland Heights, a tiny piece of northwestern University Heights, South Euclid, Lyndhurst and the half of Mayfield Heights west of I-271. These areas west of I-271 were flown along lines running east-west.

Please refer to the Aerial Infrared Deer Count Report (pp. 2 & 3) for additional details concerning the general flight and analysis methodologies used by Davis Aviation for aerial infrared deer counts.

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