



Spectral Quality Evaluation of Alternative 2010 Orthophotographs for Milwaukee County

Milwaukee County Land Information Office
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The SEWRPC 2010 Regional Orthophotography Program in cooperation with the Milwaukee County Land Information Office produced two complete sets of imagery covering Milwaukee County. The two sets were acquired for purposes of evaluating measurable accuracy and spectral (visual) qualities of two competing orthophotography products, one produced by Aero-Metric and the other by Pictometry International, marketed under the trade name AccuPlus. Interested individuals are welcome to view these two orthophotography products to conduct their own subjective, but nonetheless important, spectral quality evaluation of the resultant images.

Milwaukee County has prepared an interactive web-based map for this purpose, which is accessed using commonly available Internet access software and hardware and requires no specific skill set beyond those skills that are useful to navigate and perform tasks using common mapping applications e.g., Google Maps.

The main objective of this site is to allow both experienced and casual regional LIS managers, staff members and interested decision makers an opportunity to observe both the measured differences detailed in the SEWRPC Memorandum Report No. 200 and the more subjective visual qualities that the two image technologies offer.

For this purpose the website contains each of 100 sample 'Picture Points' and their related measured difference attributes. Note: these "Picture Points" were surveyed in the field and are also used to establish the measurable accuracy of the two image sets as presented in Report No. 200. Additionally, the site has the capacity to singularly view each 'Picture Point' along with both imagery sets. In order to accomplish this we have included some of instructions for this purpose.

Access the mapping website using the following link: [2010 Orthophotography Compare](#)

Using this link brings you to the MCLIO Interactive Mapping website and allows you to view each "Picture Point." Beyond this, you are free to explore and view these Picture Points as you wish. However, the following procedures may be useful if you are not familiar with the site. Refer to the figure on the next page for the location of the tools that will be used.

The screenshot displays the MCAMILS web application in a Microsoft Internet Explorer browser. The interface includes a Layer List on the left, a central map, and a Selection panel at the bottom left. A report window is open over the map, displaying a table of features. Red annotations highlight specific elements: a 'Report' button in the Selection panel (1), the report window title bar (2), a 'Zoom to Feature' icon in the report table (3), the Layer List (4), and a 'Home' link in the top right navigation bar (5).

#	Feature Actions	GRAPHICS_ID	ID	X1	Y1	DESC
1		1	mc002	2560628.29	384460.48	Bridge Point: Northernly most point of pavement joint on bridge, eastbound lanes
2		2	mc003	2561480.34	383540.14	Bridge Point: Easterly most point of pavement joint on bridge of IH 794 exit ramp
3		3	mc004	2561821.48	380958.73	Bridge Point: Easterly most point of pavement joint on bridge, north end of Hoar
4		4	mc039	2531301.68	355940.17	Bridge Point: Northeast corner of island at east bridge deck joint, overpass of W.
5		5	mc051	2526008.73	384645.33	Bridge Point: South side of traffic island, at intersection with center pavement joint
6		6	mc067	2520854.78	387118.94	Bridge Point: Bridge joint at south edge of pavement at sidewalk on south side, v
7		7	mc092	2519487.3	418651.34	Bridge Point: Northwest corner of bridge, most westerly point of expansion joint
8		8	mc093	2521723.31	423349.84	Bridge Point: Top of curb at north end of bridge parapet wall, east side of N. 107
9		9	mc001	2555345.67	382279.71	Bridge Point: South end of barrier wall between southbound on-ramp and south

1) Report

After the map has loaded in your browser, a summary of selected “Picture Points” appears below the Layer List to the left of the map. Click on “Report” to display a table of information related to each Picture Points. The report table includes a line for each of the available Picture Points; use the scroll bars to move up, down, or across the table as necessary.

2) Selection Groups

Notice that the 100 Picture Points are divided into three groups: “Elevated” (highway bridge decks, overpasses, etc.), “Ground Points A,” and “Ground Points B” (are simply Picture Points that were surveyed at ground level). Select the desired group of Picture Points from the drop-down list.

3) Select and Zoom To a Picture Point

Click on the “Zoom To” icon to zoom to a ‘Picture Point’ of interest, located on the left side of the table.

4) Swipe

After zooming to a Picture Point's location, it will be useful to reveal the Aero-Metric layer ("2010 High Res FALSE" in the Layer List) beneath the Pictometry layer ("2010 High Res NAT CLR" in the Layer List). Left click on the layer name and select the "Swipe Layer" layer action. This action will freeze the current map frame and allow you to pull the top image back to reveal the image below. "Handles" for this purpose are located by moving your cursor to any edge of the map frame and dragging the Pictometry image across to reveal the Aero-Metric image below it. When finished swiping, click on the "X" in the upper right corner of the map window, and move on to the next Picture Point in the table. As an alternative, click the checkbox to the left of the layer's name in the Layer List to turn its visibility on or off.

5) Help & Tutorial

For more information about the *Interactive Mapping Service's* tools and functionality, visit the *Online Help and Tutorial* by clicking on the blue question mark icon in the upper right corner above the map window.