

Image Analysis for ArcGIS FAQs¹



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How Do I Produce Cross-Tabulation Statistics Between Two Thematic Layers?

Use the Image Analysis extension in ArcMap to create a cross-tabulation statistical summary between two thematic images, or one thematic image and one Shapefile. This document explains how to create this tabular summary using ArcGIS. This technique can be used to compare areas in common and their percentages.

What You Will Need and Other Assumptions

- Two thematic images, or one thematic image and one Shapefile

Overview of Steps

1. Use the GIS Analysis tools of the Image Analysis extension in ArcMap to create a cross-tabulation statistical summary.

Step-by-Step Example

1. Start ArcMap from your Desktop, or on the Windows Taskbar click **Start | Programs | ArcGIS | ArcMap**. Ensure the Image Analysis extension is visible. If not, from ArcMap's main menu select: 1) **Tools | Extensions** and enable **Image Analysis**; and 2) **View | Toolbars** and enable **Image Analysis**.
2. From the **Image Analysis** extension, select **Image Analysis | GIS Analysis | Summarize Areas**.
3. Specify your **Zone Theme**, **Zone Attribute** and **Class Theme**. Click **OK** to create the summary of cross-tabulation statistics.
4. Check the results for logical consistency and accuracy.

¹ Produced by the USDA Forest Service RSAC (<http://fsweb.rsac.fs.fed.us>). A Forest Service version of Image Analysis for ArcGIS was used to develop this reference document. No warranty is made as to completeness or accuracy.