

How to Display a Landsat 7 Image in ArcView 3.x

These instructions explain how to display a multi-band image in ArcView 3.x. The example used here is a 4-band TIFF image with the following correspondence:

TIFF	LANDSAT
Band 1	Band 8 (panchromatic)
Band 2	Band 7 (mid infrared)
Band 3	Band 4 (near infrared)
Band 4	Band 2 (green)

You need to select the appropriate band combination for an RGB colour composite multiband image, or a panchromatic (black and white) single band image. Consult any metadata that may come with your image file so you will know which TIFF band represents which Landsat 7 band.

ORIGINAL DATA

landsat7fuse742.tif A multiband TIFF image subset from a Landsat 7 scene

Add the data to a View in ArcView 3.2:

1. In the View, click the ADD DATA button
2. Set the Data Source Type to "Image Data Source"
3. Navigate to locate the **landsat7fuse742.tif** image and select it
4. Click OK
5. Turn the theme on

Modify the image legend for a multiband display:

Refer to **FIGURE 1** below...

6. In the table of contents, double click on the landsat7fuse742.tif theme to access its Image Legend Editor
7. While the Multi-band option button is selected, choose Band 2, Band 3, and Band 4 beside the red, green, and blue diamond symbols respectively
8. Click on the LINEAR button
9. Click and drag the red, green, and blue Linear Lookup graph lines to brighten or darken contrast
10. Click APPLY and close the Linear Lookup dialog
11. Click APPLY and close the Image Legend Editor

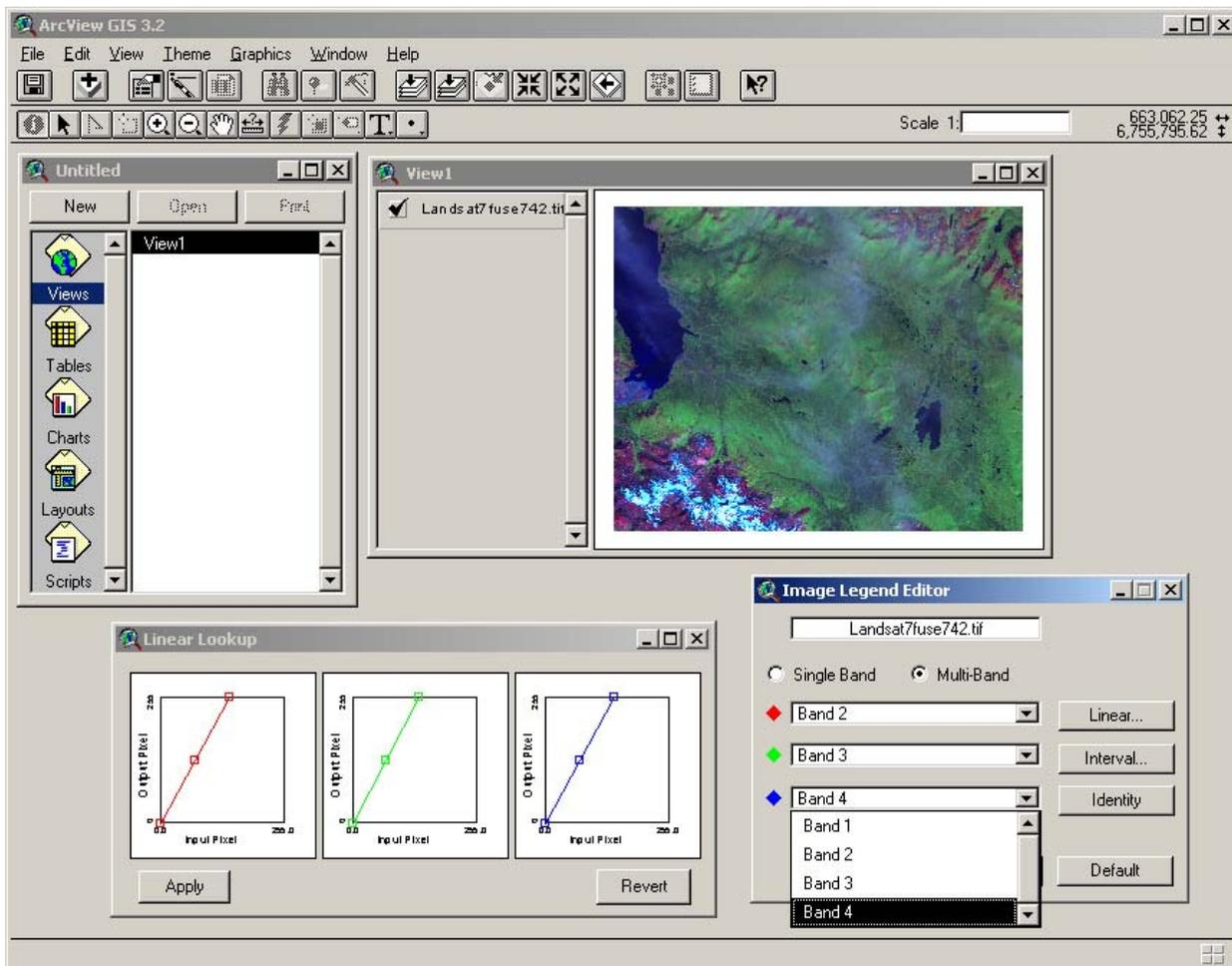


FIGURE 1. Multiband image legend editor – to display Landsat’s RGB composite.

Modify the image legend for a single band display:

Refer to **FIGURE 2** below...

12. To display the panchromatic band, double click to access the Image Legend Editor
13. Select the Single Band option button
14. Choose Band 1
15. Click on the LINEAR button and adjust as desired
16. Click APPLY and close each dialog as before

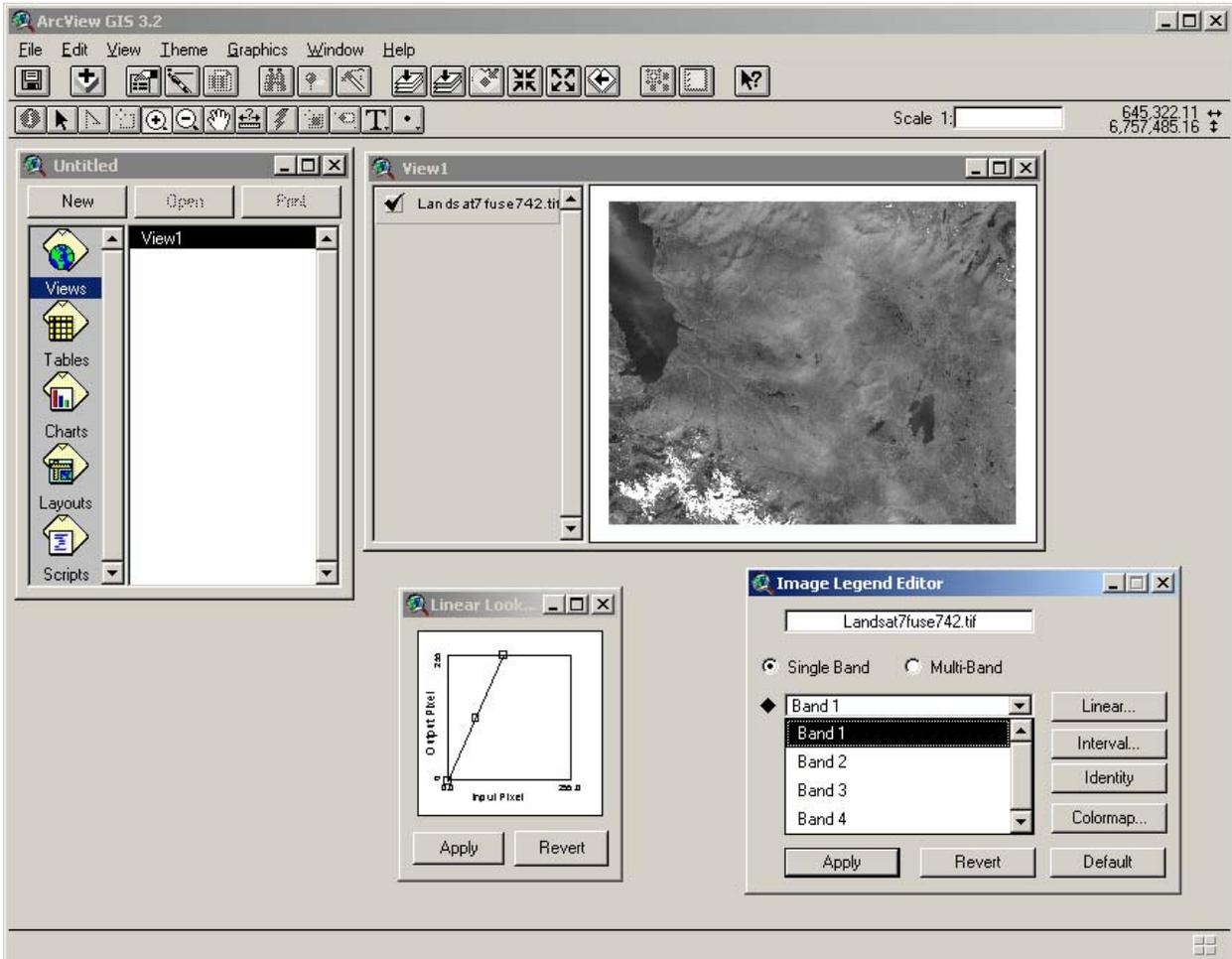


FIGURE 2. Single band image legend editor – to display Landsat’s panchromatic data.