08.01.03. Landsat 5 – 14 July 1998

5.0 File Format

Multiband ERDAS Imagine (img) or geotif format. Includes bands 1, 2, 3, 4, 5, and 7.

6.0 Theme Metadata

Metadata provided by USGS for the original image.

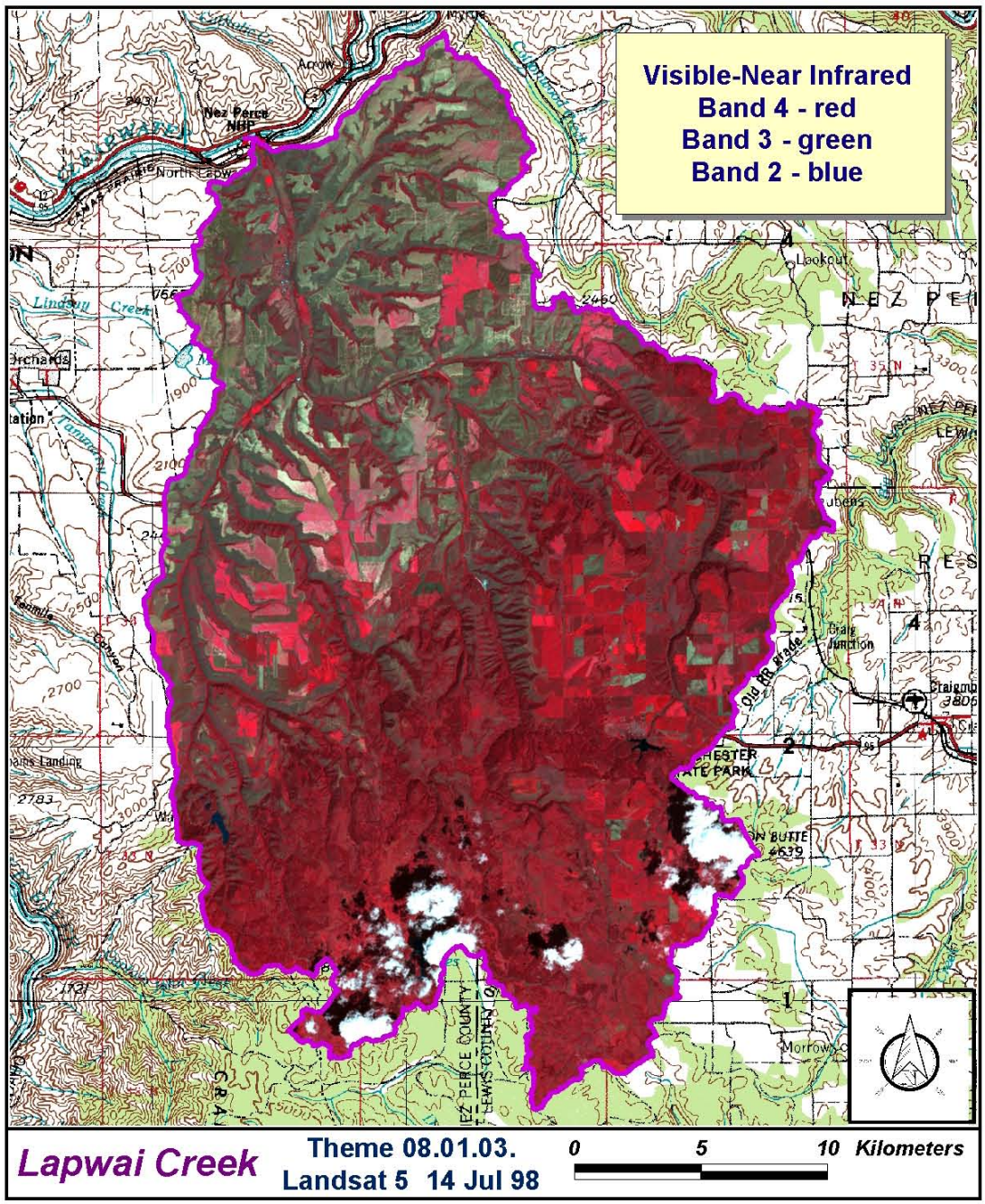
7.0 Description

Landsat 5 provides repetitive coverage of the continental U.S. on a 16-day cycle with less frequent coverage of other regions. The Landsat 5 Thematic Mapper (TM) sensor records six bands of reflected energy in the visible, near-infrared and shortwave spectral regions. Ground pixel resolution (GPR) of the reflective bands is 30 meters. Emitted thermal imagery is recorded in a single band (band 6) at 120 meter GPR. Landsat images are normally georeferenced by USGS and may be viewed with most GIS and remote sensing software packages.

There are many applications for Landsat imagery in the assessment of aquatic resources. Watershed scale land cover can be characterized from spatial and spectral information in the visible and near infrared bands (1,2,3,4). Surface areas of large water bodies can be delineated from the near and shortwave infrared images (bands 4,5,7). Relative temperature of land and water surfaces may be observed in the thermal band (6) or computed from band calibration information.

8.0 Projection

Original imagery reprojected Universal Transverse Mercator Zone 11 North, North American Datum of 1927.



Bonneville Power Administration

Satellite and Aerial Imagery Demonstration Project

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