

**There are 90,087 acres (140.7 Square Miles)**

**Of JBLM Department of Defense Land**

**Of which 67.48% (60,791 Acres or 94.94 Square Miles) is canopy according to**

<http://www.ecy.wa.gov/services/gis/data/landcover/metadata.asp?name=canopy2006>

*This dataset was created by MDA Federal. This classification is based on Landsat TM imagery from the MRLC 2006 database. The study area is zone 1, U.S. West Coast Region.*

*Pre-processing steps: Each Landsat TM scene was geo-referenced by USGS (United States Geological Survey) EROS Data Center. Then MDA Federal staff verified the scenes for spatial accuracy to within 2 pixels. The data was geo-referenced to Albers Conical Equal Area, with a spheroid of GRS 1980, and Datum of WGS84. The data units is in meters. At-satellite reflectance was performed on each scene and the tasseled cap transformation applied. All of the image data used was Landsat TM 5 or 7. The mosaicked dataset was used for classification.*

*Change Detection: The next step was to determine the areas of change between 2006 and 2001. The change detection algorithm used is the Cross Correlation Analysis process (CCA) developed at MDA Federal. This copyrighted procedure produced 2 Z-score files per scene of likelihood of change. These files were thresholded and mosaicked to create a binary change layer for that scene. All of the binary files were mosaicked to create a change layer for the entire study area. A focal majority was run on the change layer to fill in some clumps to make sure all of the change was accounted for. The change layer is a slight over-estimation of change to make sure to include as much change as detectable.*

