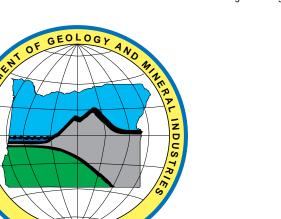


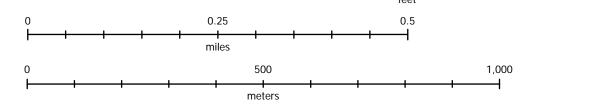
STATE OF OREGON
DEPARTMENT OF GEOLOGY AND MINERAL INDUSTRIES
VICKI S. McCONNELL, STATE GEOLOGIST





## Lidar Imagery Series

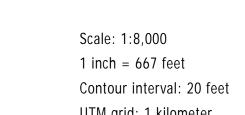
LIS-2010-45122E4-Camas Lidar Imagery of the Camas 7.5' Quadrangle, Multnomah County, Oregon



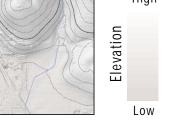
Cartography by Jed Roberts and Sarah Robinson, Oregon Department of Geology and Mineral Industries. Additional cartography and data processing by John English, Kaleena Hughes, Mathew Tilman, and Rudie Watzig, Oregon Department of Geology and Mineral Industries.

Data Source: Lidar data from DOGAMI and Puget Sound Lidar Consortium. Lidar flown 2005 and 2007.

Hydrology features digitized from lidar data by DOGAMI. Feature names from Google Maps, U.S. Bureau of Land Management, U.S. Geological Survey, and ESRI. Contours derived from bare earth elevation model smoothed by 60' x 60' averaging kernel. Map projection: Universal Transverse Mercator Zone 10 North, North American Datum 1983.









The bare earth image is a representation of the earth's 
The highest hit image is a representation of the surface stripped of man-made objects and vegetation. landscape at the time of the lidar flight. Unlike the

This is achieved by post-processing lidar point data. bare earth image, this image shows features such as trees, buildings, and even cars.

## Lidar Data Origins and Map Image Limitations

detection and ranging) technology. A lidar measurement system georeferenced raster grids (ESRI format) interpolated from the point collects huge quantities of three-dimensional point data where laser cloud data. pulses have been reflected off opaque objects such as buildings, trees, bushes, and the ground surface. The map images depicted here are examples by DOGAMI using GIS techniques to extract and emphasize selected features. These map

The lidar all-returns point cloud data that are the original basis for images, the interpretative content displayed, and this lidar image these images were collected by Watershed Sciences Inc., TerraPoint, series are for general information purposes and are not intended to LLC, and Merrick and Company. The point cloud is a remotely sensed indicate the authoritative location or definition of real property collection of three-dimensional point data that are systematically boundaries, the precise shape or contour of the earth, or the precise calibrated relative to GPS ground control points.

surface models (DEM) produced by the three companies and made held liable for improper or incorrect use of this information.

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