Lidar Imagery of the Southwest Quarter of the Portland 7.5' Quadrangle

The lidar all-returns point cloud data that are the original basis for the map images depicted here are examples by DOGAMI using GIS techniques to extract and emphasize selected features. These map images were created using the lidar all-returns point cloud data to derive digital elevation models and contours. The lidar all-returns point cloud data are systematically collected huge quantities of three-dimensional point data where laser pulses have been reflected off opaque objects such as buildings, vegetation, and man-made objects. The lidar data were collected with a LiDAR sensor on an aircraft flying at over 1000 feet above ground level. The collection of lidar data was performed under the supervision of a State of Oregon registered and certified Registered Surveyor. The data were then processed by DOGAMI to create the products depicted here. The lidar all-returns point cloud data were combined with other data to create the final products, including the digital elevation models, contours, and cartographic features.

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