#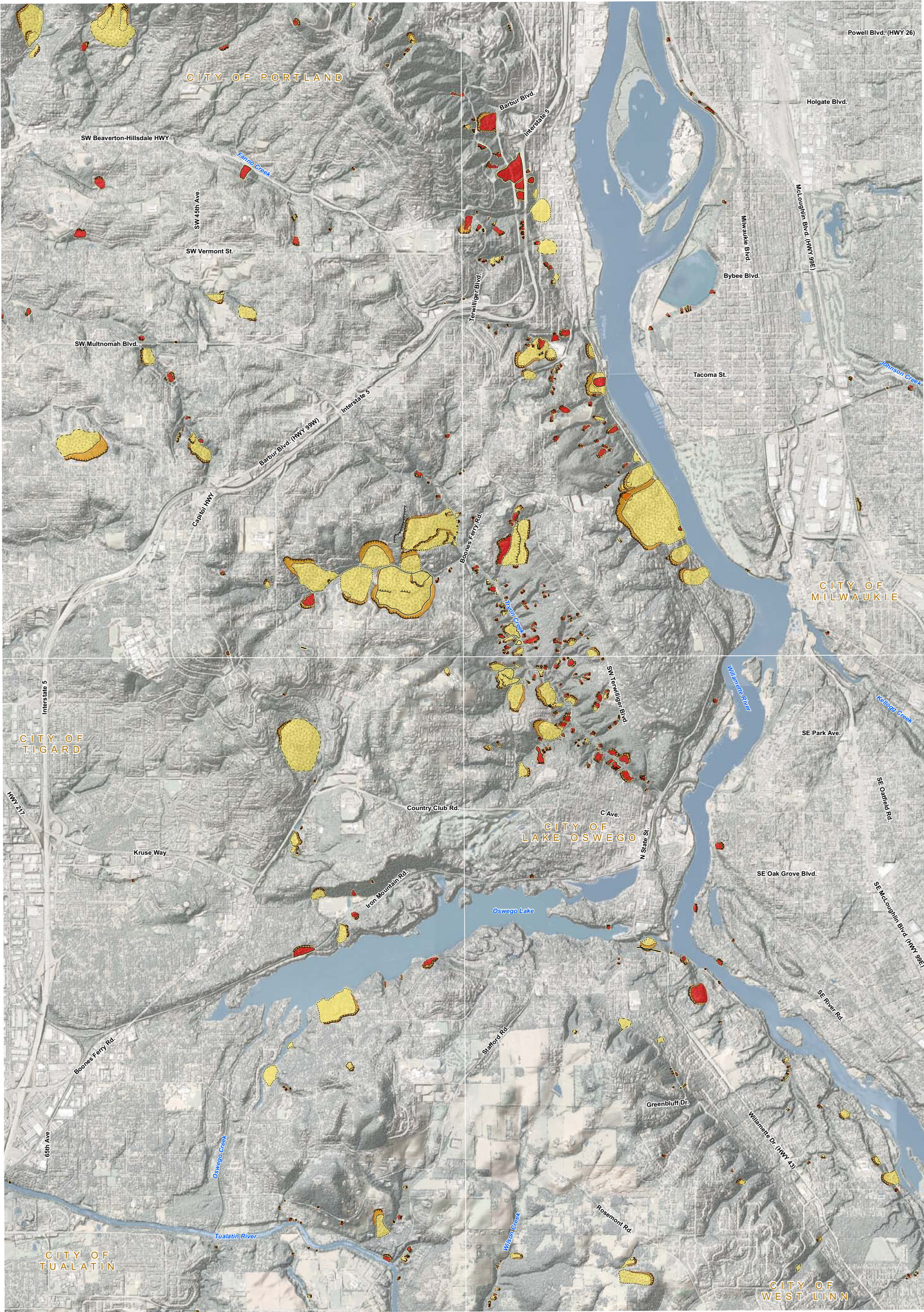 Overview of the Landslide Inventory of the Lake Oswego Quadrangle, Clackamas, Multnomah and Washington Counties, Oregon

2010

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

Landslide Inventory Maps of the Lake Oswego Quadrangle,
Clackamas, Multnomah, and Washington Counties, Oregon

by William J. Burns and Serin Duplantis

PLATE 5

## Map labels

CITY OF PORTLAND
CITY OF MILWAUKIE
CITY OF TIGARD
CITY OF LAKE OSWEGO
CITY OF TUALATIN
CITY OF WEST LINN

Powell Blvd. (HWY 26)
Holgate Blvd.
Barbur Blvd.
Interstate 5
SW Beaverton-Hillsdale HWY
SW 45th Ave.
SW Vermont St.
SW Multnomah Blvd.
Terwilliger Blvd.
Barbur Blvd. (HWY 99W)
Capitol HWY
Boones Ferry Rd.
Tryon Creek
SW Terwilliger Blvd.
Country Club Rd.
Kruse Way
Iron Mountain Rd.
C Ave.
N State St.
Oswego Lake
Stafford Rd.
Greenbluff Dr.
Rosemont Rd.
Boones Ferry Rd.
65th Ave.
HWY 217
Tualatin River
Wilson Creek
Oswego Creek
Milwaukie Blvd.
McLoughlin Blvd. (HWY 99E)
Bybee Blvd.
Tacoma St.
Johnson Creek
Willamette River
Kellogg Creek
SE Park Ave.
SE Oatfield Rd.
SE Oak Grove Blvd.
SE McLoughlin Blvd. (HWY 99E)
SE Oak Grove Blvd.
SE River Rd.
Willamette Dr. (HWY 43)
Fanno Creek

## Scale

SCALE 1:16,000

0    0.25    0.5              1              1.5              2
Miles

0    0.25    0.5              1              1.5              2
Kilometers

Cartography by William J. Burns, Oregon Department of Geology and Mineral Industries.

## Notes

This purpose of this landslide inventory overview map is to aid the user in understanding the full extent of this study and locations of landslides inventoried. This overview map also serves as an index map for the four quarter-quadrangle plates included with this publication. These four plates include much more detail and are at the publication scale for the landslide data (1:8,000): Plate 1, northwest quarter; Plate 2, the northeast quarter; Plate 3, southwest quarter; and Plate 4, southeast quarter (see location map to the right). GIS data files containing the information shown on the plates are also included with this publication.

This map was prepared by following the Protocol for Inventory Mapping of Landslide Deposits from Light Detection and Ranging (lidar) Imagery developed by Burns and Madin (2009). Each landslide shown on this map has been classified according to the activity of landsliding, landslide features, deep or shallow failure, and confidence of landslide interpretation. These landslide characteristics are determined primarily on the basis of geomorphic features, or landforms, observed for each landslide. The symbology used to display these characteristics is explained on plates 1-4.

Burns, W.J., and Madin, I.P., 2009, Protocol for inventory mapping of landslide deposits from light detection and ranging (lidar) imagery: Portland, Oreg., Oregon Department of Geology and Mineral Industries, Special Paper 42, 30 p.
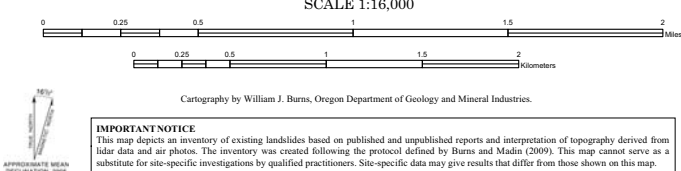
## Base Map

Lidar-derived elevation data are from The Puget Sound Lidar Consortium and the Oregon Lidar Consortium, 2004 and 2007. Digital elevation model (DEM) consists of a 3-foot square elevation grid that was converted into a hillshade image with sun angle at 315 degrees at a 45 degree angle from horizontal. The DEM is multiplied by 5 (vertical exaggeration) to enhance slope areas.

Orthophoto is from Oregon Geospatial Enterprise Office, 2005 and consists of 2005 orthophoto draped over DEM with transparency.

Projection: North American Datum 1983, UTM zone 10 north.

Software: ESRI ArcMap 10.0.

LOCATION MAP

OREGON

Plate 1   Plate 2
Plate 3   Plate 4

IMPORTANT NOTICE
This map depicts an inventory of existing landslides based on published and unpublished reports and interpretation of topography derived from lidar data and air photos. The inventory was created following the protocol defined by Burns and Madin (2009). This map cannot serve as a substitute for site-specific investigations by qualified practitioners. Site-specific data may give results that differ from those shown on this map.

APPROXIMATE MEAN DECLINATION, 2009