



State of Oregon Department of Environmental Quality

# Notes: Summary of Land Use/Ownership in Oregon Drinking Water Source Areas served by Surface Water Sources

These notes are provided as a supplement to the Summary of Land Use/Ownership tables and figures presented at <http://www.oregon.gov/deq/wq/programs/Pages/DWPAssessments.aspx>. The data on land uses/ownership can only be considered approximate due to limitations within the GIS layers and the nature of combining multiple datasets especially at larger scales. Public water systems and communities could use tax lot data available from the counties or other datasets to further refine the analysis if higher accuracy is needed.

(1) US Geological Survey Hydrologic Unit Code (HUC), Basin, Subbasin, Watershed and Subwatershed from the National Hydrography Dataset (NHD) that is a geospatial dataset mapping surface watershed boundaries.

(2) County where the intake is located. The drinking water source area may extend beyond the county boundary.

(3) DWSA - drinking water source area - delineated as the 5th-field watershed upstream of the intake. Note that Oregon's surface water source areas are delineated intake to intake. For watersheds with more than one intake, the DWSA is the watershed segment from the PWSs intake to the next intake upstream. All protection areas upstream of a specific water system's intake are included in the drinking water source area for that water system and PWSs are encouraged to work with other water providers and other entities within the Subbasin as they evaluate land use and move forward with developing protection strategies.

(4) System Type - public water system (PWS) data is for community and nontransient noncommunity surface water systems in Oregon. Additional transient noncommunity water systems may be present but not mapped

C - "Community Water System (C)" means a public water system that has 15 or more service connections used by year-round residents, or that regularly serves 25 or more year-round residents.

NTNC - "Non-Transient Non-Community Water System (NTNC)" means a public water system that is not a Community Water System and that regularly serves at least 25 of the same persons over 6 months per year.

NC - "Transient Non-Community Water System (NC)" means a public water system that serves a transient population of 25 or more persons. Note that all NC systems have not been delineated or mapped.

(5) There are independent public water systems that purchase water from the water systems listed and distribute it within their service areas. The total population served listed includes these "wholesale" customers and the total number of PWSs using the source water is also provided.

**(6) Land Ownership/Use Data Sources:** The dataset is a combination of multiple datasets and was developed by DEQ in 02/2015 and updated 03/2017. The primary dataset is from Bureau of Land Management BLM (OWNERSHIP\_POLY.shp dated 06/20/2013) obtained from BLM at: <http://www.blm.gov/or/gis/data-details.php?id=425>. Publication date: 20130718. The dataset has been modified by grouping land owner categories in order to simplify data display on the map and using geospatial techniques to add additional data to capture the following land uses:

- (a) agricultural land using a combination of the National Agricultural Statistics Service (NASS) data from Natural Resource Conservation Service (2007 “cdl\_awifs\_r\_or\_2007.tif”) and agricultural land zoning from OR Dept. of Land Conservation and Development (note that public water systems may obtain more detailed information on potential crop types using the US Department of Agriculture National Agricultural Statistics Service "CropScape-cropland data layer." Available at <https://nassgeodata.gmu.edu/CropScape/>),
- (b) private industrial forests using Oregon Dept. of Forestry's (ODF) Private\_Industrial\_2006\_ORLambert.shp” last updated in 2013,
- (c) local government land combined from BLM ownership, tax lot ownership information from local county tax lot data and “OR Map” on-line application: <http://www.ormap.net/>,
- (d) private urban lands based on private lands located within 2016 city limits, and
- (e) all other categories (BLM, USFS, State, etc) from BLM 06202013 data. Note that Private urban lands may include residential, municipal, commercial, and industrial land uses. Private non-urban lands typically include rural residential land but may also include commercial and industrial land uses.

Because of the nature of combining multiple datasets, minor discrepancies will be seen in some maps and the resulting area calculations especially at larger scales. Public water systems and communities could use tax lot data available from the counties or other datasets to further refine the analysis if higher accuracy is needed.

NA- Not applicable