

To: Interested parties

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From: Sheree Stewart
Drinking Water Protection Coordinator

Subject: New Information available from the DEQ Drinking Water Protection Program

In June 2005, DEQ and DHS completed source water assessments for over 1100 public water systems in Oregon. The assessments include a delineation of the geographic area that supplies the public water system (drinking water protection area) and provide data and information on the potential contamination risks (natural and man-made). We think this data on the sensitive areas and potential contaminant sources will be a great tool for Oregonians to prioritize work that will benefit public health.

Data can be provided as data queries/lists in Access or Excel, GIS layers and/or maps combining information for specific areas of the state. Requests for specific queries of the data should be coordinated through Julie Harvey (Harvey.julie@deq.state.or.us or 503-229-5664)

Specific information that is available includes:

1. Well, spring and surface water intake locations for Public Water Systems (private wells are not included). For security purposes, this layer is only available to governmental agencies.
2. Delineated drinking water protection areas
 - a. 2-year, 5-year and 10/15-year time-of-travel zones for groundwater wells
 - b. Recharge areas for springs
 - c. Watershed upstream of intakes within Oregon
3. Sensitive areas within drinking water protection areas
 - a. 2-year time-of-travel for groundwater – other sensitive areas based on well construction and geology available in individual public water system hard-copy maps (no GIS layer at this time)
 - b. GIS layer for surface water protection areas with the sensitive areas based on
 - i. Setbacks: 1000' from centerline of water body, includes all perennials
 - ii. High soil erosion potential (NRCS)
 - iii. High permeability soils (alluvials mapped by USGS)
 - iv. High runoff potential (Class D soils)
 - v. Landslide hazard areas
4. Locations of over 15,000 DEQ identified potential contaminant sources (PCSs) within protection areas based on
 - a. over 100 separate categories of PCSs (covering commercial/industrial, residential/municipal, and agricultural/forestry land uses).
 - b. DEQ and State Fire Marshall Regulatory Database queries (for example, dry cleaners, underground storage tanks)
 - c. Field locating in sensitive areas, and
 - d. Public Water Systems consultations

Note that area-wide PCSs (i.e. managed forest lands, agricultural lands, high-density housing) were identified as a point closest to the well or intake

For more information on Source Water Assessment methods, technical assistance, or drinking water protection planning, please visit <http://www.deq.state.or.us/wq/dwp/dwphome.htm>.