

This document provides the metadata associated with the two geographic information systems (GIS) files, S303_98 and L303_98, containing the GIS representation of Oregon's 1998 List of Water Quality Limited Waterbodies, hereafter the 303(d) list. Please see the DEQ Internet page at <http://waterquality.deq.state.or.us/wq/303dlist/303dpage.htm> or call the DEQ Water Quality Division at (503) 229 - 5279 or toll free at 1 (800) 452 - 4011 to obtain the 303(d) list and related documents.

The source for the streams, lakes and reservoirs contained in these GIS files is the 1:100,000-scale Pacific Northwest River Reach data layer developed by the United States Geological Survey and other Federal and State agencies and the northwest Tribes (<http://www.streamnet.org/pnwr/pnwrhome.html>). Streams, lakes and reservoirs were originally selected from the river reach files based on the 1994/96 303(d) list and saved to 303(d) layers by GIS staff of Region 10 U.S. Environmental Protection Agency (EPA) and GIS staff of the Oregon Department of Environmental Quality (DEQ). The 1998 representations are updates of the 1994/96 GIS layers.

It is emphasized that the GIS layers are graphic representations of the 303(d) list. Where the 303(d) list and the GIS representation differ, the 303(d) list takes precedence. The 303(d) list document, "Oregon's Approved 1998 Section 303(d) Decision Matrix" issued November 1998 by the Oregon Department of Environmental Quality is the document of record. Users are advised that these layers should not be used without the 303(d) list. There may be both revisions and corrections to the GIS representation without notice. Care was taken in the development of these GIS layers, but they are made available "as is". There are no warranties, express or implied, including the warranty of fitness for a particular purpose, accompanying these layers. Notification of any discrepancies between the GIS representation and the 303(d) list will be appreciated.

These layers represent waterbodies with 303(d) status only. Stream segments, lakes, reservoirs evaluated as "OK", "needs data", or "potential concern" will be portrayed in future GIS work.

Metadata for the GIS layers:

Title (theme): Streams, Lakes and Reservoirs on Oregon's 1998 303(d) list of Water Quality Limited Waterbodies

Theme names: S303_98 (streams--lines), L303_98 (lakes, reservoirs--polygons)

Point of contact on the GIS layers:

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Description: These line and polygon themes contain a spatial representation of the 303(d) list and should be used in conjunction with the actual 303(d) list. The 303(d) list attribute information included in the GIS attribute tables is generalized and is described below.

Purpose: These layers were developed in order to portray spatially some elements of the 303(d) list and to assist in the 303(d) list development process.

Time period and currentness: These layers were originally developed to represent the draft 1998 303(d) list of February 1998. They have been updated as edits were made to develop a final 303(d) list. No quality check procedures have been undertaken. The layers will be subject to ongoing review and update.

Maintenance and Update of Layers: Record of updates and edits will be maintained. Updates to layers will be released as possible.

Spatial Extents: State of Oregon

Projection Information:

Projection: Lambert

Datum: NAD83

Spheroid: GRS80

Standard Parallels at 43 00 00 and 45 30 00

Central Meridian at -120 30 00

Latitude of Projection Origin at 41 45 00

False Easting 400000

False Northing at 0.0

Data Quality Information:

Spatial Data: Some features may be lacking very short arcs, e.g. around .03 miles in length, as a result of selection techniques and tolerances. Line work in some cases may have been generalized from the original source USGS river reach data set as a result of processing. If features are not portrayed in the source USGS data set, they will not be portrayed in these GIS layers even if they are on the 303(d) list. Please contact the USGS for current and complete river reach data layers.

Known problems in the 303(d) GIS representations:

Basin	Stream	Problem
Willamette	McDowell Creek	upstream boundary unknown
	A-3 Drain	not located
	East Fork Creek	not located
Umpqua	Elk Valley Creek	forks not positively located
	Galls Creek	not located
Rogue	Dry Creek	naming convention, not located
	Bee Creek	not located
	Hobart Creek	not located
	Little Rock Creek	not located
South Coast	Tenmile Creek	not located
Deschutes	Westgate Canyon	not located
Umatilla	Sycan River	marsh used as upstream boundary
Klamath	Calahan Creek	missed during edits
	Fourmile Creek	missed during edits
	Deep Creek	naming convention, not located
Malheur Lake	Fish Creek	upstream boundary unknown

Attribute Data: In the stream layer, RRN and FEAT_NAME are pulled from the USGS river reach data set. Occasionally, where the feature name was blank in the source USGS layer, names were input manually. In the lakes and reservoirs layer, attributes beyond the system items were entered manually.

Processing History:

Line work representing streams and lines and points representing area features, lakes and reservoirs were reselected from USGS 1:100,000 river reach data files for Oregon based the 303(d) list to create new GIS layers to represent the 1994/96 303(d) list. Out of the USGS river reach data sets ONLY those features on the 303(d) list appear in these layers. The attribute scheme was revised for the stream layer for the 1998 representation. Changes (additions, removals, modifications) were made to the GIS layers as the edits were done to develop the 1998 303(d) list.

Attribute information and definitions:

Stream layer (S303_98) attributes associated with arcs (bays and sloughs are represented by centerlines):

RRN - USGS River Reach Number (a concatenation of USGS Hydrologic Unit Code, Segment Number, and River Mile Index), 17 character field (Please note: This attribute should be used with caution as a unique linking code. This layer may not reflect most current USGS reach files. Some reaches have been split to better represent 303(d) waterbody extents.)

FEAT_NAME: the name of the waterbody feature, 60 character field

TEMP98: temperature (1 = listed, 0 = not listed), 2 integer field

HAB98: habitat modification (1 = listed, 0 = not listed), 2 integer field

FLOW98: flow modification (1 = listed, 0 = not listed), 2 integer field

AQGROW98: aquatic growth, chlorophyll-a, nuisance aquatic vegetation (1 = listed, 0 = not listed), 2 integer field

NUT98: nutrients, phosphorus (1 = listed, 0 = not listed), 2 integer field

BIOCRIT98: biological criteria (1 = listed, 0 = not listed), 2 integer field

BAC98: fecal coliform, E coli (1 = listed, 0 = not listed), 2 integer field

DO98: dissolved oxygen (1 = listed, 0 = not listed), 2 integer field

SED98: sedimentation (1 = listed, 0 = not listed), 2 integer field

TOX98: toxics (1 = listed, 0 = not listed), 2 integer field

PH98: pH (1 = listed, 0 = not listed), 2 integer field

TURB98: turbidity (1 = listed, 0 = not listed), 2 integer field

TDG98: total dissolved gas (1 = listed, 0 = not listed), 2 integer field

TRIBAL: stream on tribal lands (E = entirely on tribal lands, P = partially on tribal lands), 1 character field

DISCLAIM (this phase appears with all segments) "Refer to the 303(d) list as document of record", 50 character field

Lakes and Reservoirs layer (L303_98) attributes associated with polygons :

HUC: USGS hydrologic unit code, 8 integer field

NAME: the name of the feature, 32 character field

WATER: differentiates land-water features to accommodate "islands" in lakes and reservoirs (a "Y" indicates water, an "N" indicates non-water), 1 character field

CAUSE: parameters for which the feature is water quality limited. Generalized from the 303(d) list.

For example, "temp" used for "Temperature - Summer", 100 character field

Possible cause/parameter attributes:

algae, weeds - Algae, Aquatic Weeds

chla - Chlorophyll a
bio - Biological Criteria
FC - Fecal Coliform
flowmod - Flow Modification
habmod - Habitat Modification
pH - pH
phos - Phosphorus
toxics - Toxics
turb - Turbidity

DISCLAIM: this phase appears with all features: "Refer to the 303(d) list as document of record"

(Please note that the lakes layer does not have an attribute indicating entirely or partially on tribal lands.)