



Oregon Dept. of Fish & Wildlife
Aquatic Inventories Project
State of Oregon Fish Sampling Coverage Metadata
Date: August, 2002

General Dataset Documentation:

Contact Person:

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Geo Dataset Revision: 1.1

Description of Location or Extent: State of Oregon

Scale: 1:100,000

Not all sample sites were located on streams on the 1:100,000 stream layer.

Contents of Coverage

<basin>.pat
<basin>.bnd
<basin>.tic

Coordinate System Description:

Projection	Lambert
Datum	NAD83
Units	3.28084
Spheroid	GRS1980
Parameters:	
1 st standard parallel	43 0 0.000
2 nd standard parallel	45 30 0.000
central meridian	-120 30 0.00
latitude of projection's origin	41 45 0.000
false easting (meters)	400000.00000
false northing (meters)	0.00000

Progress or Status: Complete through 2002 sampling. Surveys are an ongoing process, and survey sites are added to the coverage as they are completed.

Related Spatial and Tabular Data Sets: There are a variety of coverages which may be used in conjunction with this dataset. They include county roads, highways, and HUC (hydrologic unit code) coverages. The HUC coverages are PNW River Reach File Project coverages that were completed by the USGS.

Maintenance and Update Frequency: The coverages are updated when new sites are surveyed. Surveys occur annually, however, new surveys do not occur within every HUC drainage annually. Therefore, updates of our coverages do not necessarily occur on an annual basis.

Access Constraints: Data collected by state agencies become part of the public domain. As such, anyone may access these datasets. Aquatic Inventories Project coverages may be obtained through contact with Kim Jones (listed previously) and downloaded from the ODFW State FTP site (<ftp.dfw.state.or.us>).

Narrative section:

Abstract

The distribution of a fish species is defined by the presence or absence of a species at a series of sites throughout a stream, watershed, or basin. The survey design represented by the point coverages was meant to assess the general fish distribution and use throughout the surveyed portions of the state of Oregon between April and October in the years 1990-2002.

Limitations of Data

The information in this dataset should be used as an indicator of fish presence or absence at the time of the survey. The sampling results should define general distribution of fish. These data should not be used as a final assessment of fish distribution but rather as a guide for future management and land use activities.

Procedures Used

Field Survey Methods:

Field crews surveyed streams across the state of Oregon. The objective of the surveys was to determine the general distribution and use patterns of fish. Electrofishing with a backpack electroshocker and snorkeling were the sampling methods utilized. The sampling design incorporated a mix of the available habitat and microhabitat types in order to sample each of the available species and age classes. To achieve this, a minimum of six habitat units (three pool type

and three fast water type) or a mixed habitat type with a combined distance of at least 60 meters were sampled. Occasionally the survey crew would sample a shorter distance in order to verify potential passage barriers (i.e.: culverts, artificial and natural steps).

GIS Methods:

The field surveys were documented by the crew and recorded on 7.5' USGS topographic quad maps. The survey point was digitized using 1:100,000 scale HUC coverage as a background. The points and the associated data were linked based on the point ID number generated at the time of digitizing by ArcInfo. The data joined to the point coverage are a summary of all fish sampled in the survey site.

Reviews Applied to Data:

The point distribution coverages were visually checked in relation to the original 7.5' USGS topomaps that were used at the time of the survey.

The associated point data indicate a species presence at the time of the survey when the number is greater than zero.

Coverage Contents Discussion/Explanation:

Contents:

- <basin>.pat (Point Attribute Table)
- <basin>.bnd (Boundary - Coverage extent.)
- <basin>.tic (Contains tic information. Tics are a registration point for a coverage.)

Point Attribute Item Description:

File: <basin>.pat

Summary:

<i>Attribute name</i>	<i>width</i>	<i>output type</i>	<i>#decimals</i>	<i>Description</i>
AREA	4	12 F	3	Point statistic generated by ArcInfo.
PERIMETER	4	12 F	3	Point statistic generated by ArcInfo.
<BASIN>#	4	5 B	-	Point identification statistic generated by Arc Info
<BASIN>-ID	4	5 B	-	Point identification statistic generated by ArcInfo
GISID	5	5 I	-	Id number originally identified by ArcInfo and later used as the linking variable with the sampling data.
SURV_YEAR	4	4 B	-	Survey Year
BASIN	30	30 C	-	Basin name.
STREAMNAME	30	30 C	-	Streamname as identified by 1:100k USGS topo maps.

MAP_CODE	12	12	C	-	Unique map identification code.
MAPCODE1	12	12	C	-	Unique map identification code that incorporates the MAP_CODE field with basin surveyed and survey year. This generated a code that is unique for the survey throughout the state.
LOCATION	15	15	C	-	Legal location of sample site.
SAMPL_DATE	8	10	D	-	Survey date.
CO_SP	4	2	B	-	Number of surveyed units with coho salmon identified at the time of the survey.
CH_SP	4	2	B	-	Number of surveyed units with chinook salmon identified at the time of the survey.
RB_SP	4	2	B	-	Number of surveyed units with rainbow trout identified at the time of the survey.
CT_SP	4	2	B	-	Number of surveyed units with cutthroat trout identified at the time of the survey.
BUT_SP	4	2	B	-	Number of surveyed units with bull trout identified at the time of the survey.
BT_SP	4	2	B	-	Number of surveyed units with brook trout identified at the time of the survey.
BR_SP	4	2	B	-	Number of surveyed units with brown trout identified at the time of the survey.
KO_SP	4	2	B	-	Number of surveyed units with kokanee identified at the time of the survey.
CS_SP	4	2	B	-	Number of surveyed units with chum salmon identified at the time of the survey.
US_SPP	4	2	B	-	Number of surveyed units with unknown salmonid and trout identified at the time of the survey.
COT_SPP	4	2	B	-	Number of surveyed units with sculpin identified at the time of the survey.
WF_SP	4	2	B	-	Number of surveyed units with mountain whitefish identified at the time of the survey.
D_SPP	4	2	B	-	Number of surveyed units with dace identified at the time of the survey.
RSS_SP	4	2	B	-	Number of surveyed units with redbside shiner identified at the time of the survey.
SQ_SP	4	2	B	-	Number of surveyed units with Northern squawfish identified at the time of the survey.
SU_SPP	4	2	B	-	Number of surveyed units with sucker identified at the time of the survey.
LAM_SPP	4	2	B	-	Number of surveyed units with lamprey identified at the time of the survey.
TC_SP	4	2	B	-	Number of surveyed units with tui chub identified at the time of the survey.
AMPH_SPP	4	2	B	-	Number of surveyed units with amphibian identified at the time of the survey.

Citation Information:

Citation for this Dataset

Oregon Department of Fish & Wildlife. 1999. *ODFW Aquatic Inventories Project Fish Distribution Coverage*. Natural Production Section. Corvallis. Oregon Department of Fish & Wildlife.

Other Source Citations

K. K. Jones, J. M. Dambacher and C.H. Stein. 1998. *Methods for Stream Fish Inventories: Oregon Department of Fish and Wildlife, Aquatic inventory Project*. Version 7.1. Oregon Department of Fish & Wildlife. Natural Production Section, Corvallis, OR, 97333
