

## **Supplement 7.3. Variable names and brief variable descriptions for data used in Chapter 7**

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This supplement provides variable names and brief variable descriptions for data used in the Chapter 7 examples. These descriptions were obtained from the Oregon Department of Fish and Wildlife (ODFW). See Supplement 7.1 for additional details.

## OREGON DEPARTMENT OF FISH AND WILDLIFE STREAM HABITAT STUDY

<u>NAME</u>	<u>BRIEF DEFINITION; SEE METADATA FOR MORE DETAIL</u>
GCG	Gene Conservation Group.
ID_NUM	Unique site id number across GCG.
YEAR	Year survey was completed.
TIERLEVEL	Tier level for survey. Defines distribution of sampling as it pertains to current coho salmon spawning and rearing distribution.
S_LEVEL	S-level designating survey frequency.
TARGET	Designated as Target or Non-target.
RESPONSE	We obtained data from this survey.
STATUS	Surveyed or not
REASON	Reason site was non-target or not surveyed
FEAT_NAME	Stream name from 1:100K topographic map.
SURV_DATE	Date surveyed was completed.
PRICHNLL	Length of primary channel in meters. Defined as mainstem; does not include secondary channels, subunits, or tributaries.
SECCHNLL	Length of secondary channels in meters.
PRICHNAREA	Area of primary channel (m2).
SECCHNAREA	Area of secondary channel (m2).
PCTSCCHNLA	Percent of the total area of the stream in the reach that is associated with secondary channels.
GRADIENT	Average of gradient (percent slope) for reach.
VWIRCH	Valley Width Index: The ratio of the active channel to the valley floor.
WIDTH	Channel width in meters.
ACW	Active or bankfull channel width in meters. This is the distance across the channel at "bankfull" flow. Bankfull flow is defined as the level the stream flow attains every 1.5 years on average
ACH	Active or bankfull channel height in meters.
NOPOOLS	Combined count of scour and dammed pools within the reach.
PCTPOOLS	Combined percentage (by area) of scour and dammed pools in the reach.
PCTSCPOOL	Percentage of habitat units in the reach that are scour pools.
PCTSWPOOL	Percentage of habitat units in the reach that are slackwater pools.
SCRPOOLD	Average depth of scour pools in meters.
RIFFLEDEP	Average depth of riffles and rapids in meters. A blank cell indicates that no riffle or rapids were observed in the survey.
LRGBLDR	Count of large boulders (> or equal to 0.5m diam).
PCTSNDR	Average percentage of the total wetted habitat unit area consisting of sand, silt, and organics in surface substrate of all units.

PCTGRAVEL	Average percentage of the total wetted habitat unit area consisting of gravel in surface substrate of all units.
PCTBEDROCK	Average percentage of the total wetted habitat unit area consisting of bedrock in surface substrate of all units.
POOL1P_KM	Number of pools greater than 1 meter in depth per kilometer of total stream length.
CWPOOL	Pool frequency or channel widths per pool. Calculated by taking the total reach length and dividing by the total number of pools.
PCTSHADE	Amount of shade provided to a stream by riparian vegetation and topography (percentage of 180 degrees).
PCTEROSION	Percentage reach length of channel units with banks classified as eroding.
PCTUNDERC	Undercut bank unit average as percent of unit length.
LWDPIECE1	Pieces of large woody debris (LWD) > or equal to 3 m in length and 0.15m in diameter per 100 meters of primary channel length.
LWDVOL1	Volume of LWD per 100 meters of primary channel length. Volume is calculated as the total wood volume $((\text{length} * (\pi * \text{diameter} / 2)^2) / 4)$ divided by 100 m and summarized by reach length.
KEYLWD1	Key pieces of LWD per 100m of primary channel length. A key piece is defined as woody debris > or equal to 12m in length and 0.60m in diameter.
RESIDPD	Average residual pool depth in meters.
LRGBLDR1	Large boulders (> or equal to 0.5m diam)/100m total channel length.
CON_20PLUS	The total number of conifers > or equal to 20in (50 cm) dbh (diameter at breast height) per 1,000ft of stream length.
CON_36PLUS	The total number of conifers > or equal to 36in (90 cm) dbh (diameter at breast height) per 1,000ft of stream length.
BVR_DAM	Beavers dams. Total count of beaver dams observed in each reach.