

crb_channeltypes_over8m_100k.shp data dictionary

This shapefile includes channel type predictions and stream attributes for Columbia basin rivers over 8 meters bank full width. The dataset was built using the 1:100k NHDplus stream network and the Canadian Watershed Atlas. Reaches in this dataset vary in length. Original streams segments were aggregated into geomorphically meaningful reaches based on similarity of slope, bankfull width and confinement.

id integer: Unique id

c_type double precision: Modeled channel type ID (1: braided, 2:island-braided, 3: meandering, 4: straight, 5: confined). The highest voted channel types among the braided, island_braided, mandering, and straight columns below.

certainty double precision: 1: only one channel type received votes, 2: two channel types received votes, 3: three channel types received votes, 4: 4 channel types received votes, 0: confined channel type

braided double precision: the number of votes on the braided channel type (out of 1000 votes)

island_braided double precision: the number of votes on the island-braided channel type (out of 1000 votes)

meandering double precision: the number of votes on the meandering channel type (out of 1000 votes)

straight double precision: the number of votes on the straight channel type (out of 1000 votes)

major_type character varying(255): Modeled channel type name which received the highest number of votes

renum numeric: Unique numbers assigned to reaches

aggid_x3x3 integer: aggregated reach ID within the same renum number

avg_f_acc numeric: average flow accumulation number among the aggregated reaches

avg_p_acc numeric: average flow accumulation weighted by precipitation number among the aggregated reaches

avg_s_acc numeric: average flow accumulation weighted by fine sediment supply area number among the aggregated reaches

avg_hi_sed numeric: average flow accumulation weighted by alpine sediment supply area among the aggregated reaches

avg_slope real: average channel slope among the aggregated reaches

avg_fpw_integrated_hybrid_at_bfw50m real: average flood plain width in meter among the aggregated reaches

discharge_2yr real: estimated 2yr-flood discharge

regime integer: estimated flow regime ID

length_m real: reach length in meter

sn integer NOT NULL: ID

avg_bfw_m real: average bankfull width in meter

r_slope real: relative slope value calculated by (a target reach slope - one above reach slope)