

USGS_InvertTraitsFields_v1.txt

A database of lotic invertebrate traits for North America

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"Data Series #187, U. S. Geological Survey, Reston, VA. 2006. "

Disclaimer

The data entered in this database was recorded by several individuals based on individual interpretations of literature sources.

"Although attempts were made to maintain data quality, review of all 14,000+ records was not possible. Users are therefore advised"

that some errors may exist in the database as a result of recorder misinterpretations or data-entry errors. Please notify third author (D.M. Carlisle:

dcarlisle@usgs.gov) of errors so that later versions of this database can be enhanced.

Field Name Description (see report text for state types)

TraitRecord_ID Record identification number

Taxon Taxonomic level at which trait information was compiled from a literature source

Family Family

Genus Genus

Study_Citation "Citation title matching titles in ""Literature Cited"" table"

Study_location_state U. S. state or Canadian province in which study occurred

Study_location_county U. S. county in which study occurred

Study_location_region Region in which study occurred

Study_latitude "Latitude, when reported in study"

Study_longitude "Longitude, when reported in study"

Study_dates Date of study

Adult "Identifies if traits were compiled for aquatic adults, otherwise for immature life stages"

Data_entry Initials of person entering data

Data_entry_date Date of data entry

WB_type_lake Type of water bodies found in: Lakes

WB_type_pond Type of water bodies found in: Ponds

WB_type_wetland Type of water bodies found in: Wetlands

WB_type_warm_sp Type of water bodies found in: Warm springs

WB_type_cold_sp Type of water bodies found in: Cold springs

WB_type_headwater Type of water bodies found in: Headwater streams

WB_type_2-4_order Type of water bodies found in: Second-fourth order streams

WB_type_river Type of water bodies found in: Rivers

WB_type_brackish Type of water bodies found in: Brackish waters

WB_type_temp_lentic Type of water bodies found in: Temporary lentic

WB_type_eph_lotic Type of water bodies found in: Ephemeral lotic

WB_type_other "Type of water bodies found in: Other types, see text notes"

WB_type_other_specify Text notes

Primary_WB_type Primary water body where found

Study_elevation_min Lower elevation where taxon reported (in meters above sea level)

Study_elevation_max Upper elevation where taxon reported (in meters above sea level)

Max_body_size Maximal body size of immatures

Measured_length Measured body length of immatures (mm)

Measured_width Measured body width of immatures (mm)

Measured_height Measured body height of immatures (mm)

Body_shape Body shape

Body_shape_case Body shape with case/retreat

Mediate_drag Indication of whether shape mediates drag

Morph_adapt_suckers Morphological adaptation: Suckers

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Morph_adapt_friction Morphological adaptation: Friction pad or other structure to reduce friction coefficient with surface
Morph_adapt_hooks Morphological adaptation: Hooks
Morph_adapt_silk Morphological adaptation: Silk
Morph_adapt_ballast Morphological adaptation: Ballast
Morph_adapt_hairy Morphological adaptation: Hair
Morph_adapt_other "Morphological adaptation: Other, see text note"
Armor Degree of body armoring
Resp_early Respiration mode of early instars
Resp_late Respiration mode of late instars
Resp_adult Respiration mode of aquatic adults
Resp_comments Text notes
Emerge_behav_drift Emergence behavior: Drifting
Emerge_behav_climb Emergence behavior: Climbing
Emerge_behav_crawl Emergence behavior: Crawling
Emerge_behav_comment Emergence behavior: Text notes
Emerge_season_all_year Indicates whether emergence can occur all year
Emerge_synch Indicates whether emergence is synchronous
Emerge_season_1 Season that emergence begins
Emerge_season_2 Season that emergence ends
Ovipos_behav_prim Primary oviposition behavior
Ovipos_behav_sec Secondary oviposition behavior
Ovipos_behav_comments Oviposition behavior: Text notes
Eggs_cement Indicates whether eggs are cemented
Ovipos_duration Duration of oviposition period
Feed_mode_prim Primary feeding mode based on mouthpart morphology
Feed_mode_sec Secondary feeding mode based on mouthpart morphology
Feed_mode_comments Food materials consumed
Habit_prim Primary habit
Habit_sec Secondary habit
Habit_comments Habit: Text notes
Current_quiet Current preference: Quiet
Current_slow Current preference: Slow
Current_fast_lam Current preference: Fast laminar
Current_fast_turb Current preference: Fast turbulent
Microhab_sand Microhabitat substrate preference: Sand
Microhab_silt Microhabitat substrate preference: Silt
Microhab_gravel Microhabitat substrate preference: Gravel
Microhab_rocks Microhabitat substrate preference: Rocks
Microhab_boulder Microhabitat substrate preference: Boulder
Microhab_LWD Microhabitat substrate preference: Large woody debris
Microhab_detritus Microhabitat substrate preference: Detritus
Microhab_phyto Microhabitat substrate preference: Macrophytes
Microhab_algae Microhabitat substrate preference: Algae
Microhab_pelagic Microhabitat substrate preference: Pelagic
Microhab_comments Microhabitat substrate preference: Text notes
Lat_lotic_margin Lateral habitat position in water column: Margin
Lat_lentic_shore Lateral habitat position in water column: Shoreline
Lat_pool Lateral habitat position in water column: Pools
Lat_riffle Lateral habitat position in water column: Riffles
Lat_hyporheic Lateral habitat position in water column: Hyporheic
Lat_comments Lateral habitat position in water column: Text notes
Vert_surface Vertical habitat position in water column: Surface
Vert_phytes Vertical habitat position in water column: Macrophytes
Vert_pelagic Vertical habitat position in water column: Pelagic
Vert_bed Vertical habitat position in water column: Benthic
Vert_hyporheic Vertical habitat position in water column: Hyporheic
Vert_comments Vertical habitat position in water column: Text notes
Drift_early Drift propensity of early instars
Drift_late Drift propensity of late instars
Larval_dispersal Larval dispersal distance
Adult_dispersal Adult dispersal distance
Exit_temporarily Indicates ability to temporarily exit water

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No. Aquatic_stages Number of aquatic life stages
 Voltinism Voltinism
 Volt_comments "Voltinism: Text comments (e.g., overwintering of eggs or
 immatures)"
 Dev_speed Development speed
 Dev_pattern Development pattern: Text notes
 Adult_lifespan Adult lifespan
 Adult_lifespan_comments Adult lifespan: Text notes
 Fecundity Fecundity
 Eggs_single Egg type: Single
 Eggs_1mass Egg type: One mass
 Eggs_multiple_batch Egg type: Multiple batches
 Hatch_time Time required for eggs to hatch
 Hatch_time_comments Time required for eggs to hatch: Text notes
 Diapause Indicates whether diapause occurs
 O2_normal Oxygen tolerance: Normal (intermediate) DO levels
 O2_low Oxygen tolerance: Low DO levels
 Low_lethal_DO Observed lethal DO levels
 pH_acidic pH tolerance: Acidic
 pH_normal pH tolerance: Intermediate
 pH_alkaline pH tolerance: Alkaline
 Salin_fresh Salinity tolerance: Fresh
 Salin_brackish Salinity tolerance: Brackish
 Salin_saline Salinity tolerance: Saline
 Thermal_pref Thermal preference
 Min_temp_reported Minimum temperature reported
 Max_temp_reported Maximum temperature reported
 Max_lethal_temp Observed maximum lethal temperature
 Thermal_comments Thermal: Text notes
 Turbidity Turbidity tolerance