

Fishes of Indiana Database Dictionary

Simon, Fisher, Dufour, Worden

Structure of: **site** tab in **fish database template.xls**

This table contains information that pertains strictly to sampling locations. The key field in this table will be “FieldNum”, which will be assigned once the majority of the latitude and longitude data is filled in. The “FieldNum” will relate to the sampling event table, which in turn will be linked to the raw fisheries data table.

Field Name	Description of Field
FieldNum	Number assigned to individual site locations. Key field linking site data to event data. This field will begin with alpha fields in the form of the main collectors' (or organization's) initials.
QC	Quality control (V) has been performed on data
QCLatLong	Quality control (TRUE) has been performed on latitude and longitude data
Waterbody	This is the name of the stream, lake, wetland etc. Assignment of name used here may come from several different sources (ie RF3 file from USEPA, or from 7.5 topological maps etc.).
Location	Location description of site. Often contains names of street, bridge or facility.
NearTown	Name of town nearest to the sampling location.
Township1	Township in which the sample is collected.
Township2	Additional Township used when sampling location overlaps two township areas.
County 1	County (for Township1) in which the sample was collected.
County 2	Additional County listing (for Township2) used when sampling occurs on a waterbody dividing county boundaries.
State1	State (for County1) in which the sample was collected.
State2	Additional State (for County2) listing used when sampling occurs on a waterbody dividing state boundaries.
TRS	Township, Range and Section (ex.: T6N R3W S16).
LATDEG	Latitude degrees.
LATMIN	Latitude minutes.
LATSEC	Latitude seconds.
LATDD	Latitude in decimal degrees.
LONGDEG	Longitude degree (negative number).
LONGMIN	Longitude minutes.
LONGSEC	Longitude seconds.
LONGDD	Longitude in decimal degrees (negative number).
Country	Country in which the sample was collected.
HUC	8-14 digit Hydrologic Unit Code, assigned to delineate watersheds, sub-watersheds etc.
Gradient	Slope of site in feet/mile.
DrainArea	Drainage area in square miles.
Comments	Comments regarding this particular site.

Fishes of Indiana Database Dictionary

Simon, Fisher, Dufour, Worden

Structure of: **event** tab in **fish database template.xls**

This table contains information specific to each individual sampling event. It will relate back to the site table (via “FieldNum”) in a one to many relationship, and forward into the raw fisheries data (via “SiteCode”) in a one to many relationship. It will serve as the pivotal table (or “bridge”) between these two sources of data.

Field Name	Description of Field
Fieldnum	Number assigned to individual site locations. Key field linking site data to event data. This field will begin with alpha fields in the form of the main collectors’ (or organization’s) initials.
SiteCode	Number assigned to individual sampling events at site locations. Key field linking event data to fish data. This field will begin with alpha fields in the form of the main collectors’ (or organization’s) initials.
QC	Quality control (V) has been performed on data
TaxaCode	Numeric code for type of taxa collected (1=fish, 2=mussel, 3=crustacean, 4=fish and mussel, 5=fish and crustacean, 6=mussel and crustacean, and 7=fish, mussel, and crustacean).
Project code	Replaces UMMZ from older format. This is an alpha field (sometimes includes numeric entry) that describes the agency, school, individual etc. in charge of the sampling event (for example, IDNR, IDEM, SIMON, FISHER), followed by the project name (for example, Interior River Lowland, Central Corn Belt Plain).
Collectors	Name(s) (usually in the form of initials of first and middle name followed by surname) of the crew members involved in the sample collection separated by a comma.
Month	Month (numeric) of the Year.
Day	Day of the Month.
Year	Year in which sample was collected.
Date	Combined date (mm/dd/yyyy format).
FishGear	Gear used in collection (see table below) of fish.
MusselGear	Gear used in collection (see table below) of mussels.
CrustGear	Gear used in collection (see table below) of crayfish.
FishEffort	If electrofishing gear was used to collect fish, time spent shocking (in seconds).
MusselEffort	If electrofishing gear was used to collect mussels, time spent shocking (in seconds).
CrustEffort	If electrofishing gear was used to collect crustaceans, time spent shocking (in seconds).
QHEI	Overall QHEI (Qualitative Habitat Evaluation Index) score. Do not fill out if entering entire QHEI form.
IBI	Overall IBI (Index of Biotic Integrity) score.
Comments	Comments regarding this particular sampling event.

Fishes of Indiana Database Dictionary

Simon, Fisher, Dufour, Worden

This table contains numeric codes for specimen collection gear. If a gear description is not listed, please contact the collection manager at the Indiana Biological Survey – Aquatic Research Center to add the gear description.

Gear	Description	Gear Type	Fish	Crustacean	Mussel
0	Unknown Gear		X	X	X
1	Boat	Electrofishing	X	X	
2	Tote Barge	Electrofishing	X	X	
3	Scanoë (sport canoe)	Electrofishing	X	X	
4	Longline	Electrofishing	X	X	
5	Backpack	Electrofishing	X	X	
6	Electric Seine	Electrofishing	X	X	
7	Seine	Net	X	X	
8	Gill Net	Net	X		
9	Trammel Net	Net	X		
10	Dip Net	Net	X	X	
11	Trawl	Net	X		
12	Fyke Net	Net	X		
13	Hoop Net	Net	X		
14	Backpack with seine (kick-shock)	Other	X	X	
15	Angling	Other	X		
16	Visual	Other	X	X	
17	Hand	Other	X	X	
18	Rotenone	Other	X	X	
19	Dynamite	Other	X	X	
20	Brail	Other			X
21	Diving	Other			X
22	Physical Search	Other			X
23	Quadrat Sampling	Other			X
24	Plunger	Other		X	
25	Spade	Other		X	
26	Activity Trap	Other		X	

Fishes of Indiana Database Dictionary

Simon, Fisher, Dufour, Worden

Structure of: **fish** tab in **fish database template.xls**

This table contains all of the raw fisheries data collected during the sampling event. It is connected to the sampling event via “fieldnum”. It is also connected to the fish characteristics table (bigfishname) via “species code”.

Field Name	Description of Field
SiteCode	Number assigned to individual site locations. Key field linking event data to fish data. This field will begin with alpha fields in the form of the main collectors' (or organization's) initials.
QC	Quality control (V) has been performed on data
SpeciesCode	3-digit species (voucher) code used to distinguish individual species. Key field linking raw data to the fish characteristics table.
MuseumNum	Indiana Biological Survey museum number. Assigned by collection manager.
CommonName	Common name of fish species
VoucherType	1=specimen (actually handled, kept or released), 2=photo, 3=literature, 4=C&S, 5=skeleton, 6=dried, 7=confirmed/discarded, 8=personal communication.
NumCollected	Number of individuals collected per species.
NumVouchered	Number of individuals kept per species.
DeterminedBy	Initials of first and middle name followed by surname of individual determining correct species identification.
Subspecies	Fish subspecies name
LengthMin	Minimum length of individual from batch (in millimeters). Default for single individuals.
LengthMax	Maximum length of individual from batch (in millimeters). Leave blank if only one individual was measured.
Weight	Total weight of individuals for a species (in grams).
NumPhoto	Number and roll number of photographs taken of species
NumCandS	
NumSkeleton	
NumDried	
Deformity	External Deformity (total number per species).
Erosion	External Erosion (total number per species).
Lesion	External Lesion (total number per species).
Tumor	External Tumor (total number per species).
Multiple DELT	Multiple DELT anomalies (total number per species).
VoucherComments	Comments regarding vouchers
SpeciesComments	Comments regarding this particular species. External anomalies description (other than DELT, for example, blackspot, swirl scale) and number of individuals with the anomalies.

Last updated: May 11, 2006