**Adult Weir Data Standards**

**Objective:** The primary goal of the ***Adult Weir*** dataset is to collect all data of this type in a central location in order to reduce the time needed to provide summary level adult salmonid return information.

# Collection Standards and Procedures

There are currently five projects that conduct adult weir data collection at the following locations: Three Mile Falls Dam (TMFD), Nursery Bridge (NB), Catherine Creek (CC), Upper Grande Ronde River (UGR), Isqúulktpe Creek (ISK), and Dillion and Feed Canal Diversion Dams. Each individual project states their individual operation methods in their annual reports (they also reference their Annual Operations Plans). These annual reports are readily available on the cbfish website (public facing side of BPA contracts).

Umatilla/Walla Walla Fish Passage Operation

<http://www.cbfish.org/Project.mvc/Publications/1988-022-00/Documents>

Grande Ronde Supplementation O&M on Catherine Creek/Upper Grande Ronde River

<http://www.cbfish.org/Project.mvc/Publications/1998-007-03/Documents>

Steelhead Supplementation Evaluation

<http://www.cbfish.org/Project.mvc/Publications/2002-030-00/Documents>

Pacific Lamprey Research and Restoration

<http://www.cbfish.org/Project.mvc/Publications/1994-026-00/Documents>

Walla Walla River Basin Monitoring and Evaluation

<http://www.cbfish.org/Project.mvc/Publications/2000-039-00/Documents>

# Data Entry Field Standards

**CDMS / COMMON – DATASET ACTIVITY FIELDS**

The following fields are common fields available to all Datasets in the CDMS. This defines how these fields will be used in the context of the AdultWeir dataset, specifically.

| Column Name | Attribute Label | Attribute Description | DataType | ControlType | Validation/Units | Projects1 |
| --- | --- | --- | --- | --- | --- | --- |
| ActivityDate | Activity Date | The day the weir was checked | Date | Date | mm/dd/yyyy | All |
| QAStatusId | QA Status | QA Workflow Status field | Int | Select | Approved (Default-all but PL, ISK);  Ready for QA (Only appears for PL, ISK and is the Default) | All |
| LocationId | Location | Location of the weir for this data | Int | Select | Three Mile Falls Dam (TMFD), Nursery Bridge (NB), Catherine Creek (CC), Upper Grande Ronde River (UGR), Isqúulktpe Creek (ISK),Dillion Diversion Dam (DDD), and Feed Canal Diversion Dam (FCDD). | All |

**Weir Information – HEADER FIELDS**

These are the fields that appear on the header of an activity sheet and for the whole day of collection activity.

| Column Name | Attribute Label | Attribute Description | DataType | ControlType | Validation/Units | Projects1 |
| --- | --- | --- | --- | --- | --- | --- |
| CollectionType | Collection Type | The method used to enumerate the fish2 | String | Select | Live  Video | All |
| Technicians | Technicians | The person/person who are conducting the activity at the time | String | Text |  | ISK |
| WaterTemperature | Water Temp | The temperature of the water at the time the weir was checked | Float | Number | -18 to 39 °C | All |
| AirTemperature | Air Temp | The temperature of the air at the time the weir was checked | Float | Number | -18 to 39 °C | ISK |
| WaterFlow | Stream Flow | The water discharge in a natural channel.  Streamflow is measured in cubic feet per second (cfs). | Float | Number | 1 to 9000 cfs | UM, ISK, PL |
| TimeStart | Time Start | The time the crew started working the weir | String | Text |  | ISK, PL |
| TimeEnd | Time End | The time the crew stopped working the weir | String | Text |  | ISK, PL |
| TransportTankUnit | Transport Tank Unit Number | Indicates the tank unit that was used on that particular day if the fish were transported. Catherine Creek (CC); Upper Grande Ronde (UGR); | String | Select | CTUIR Tanker Unit  CTUIR Trailer Unit  750 Tank Unit  300 Slip Tank Unit  ODFW Tanker Unit | UM  CC; UGR |
| TransportReleaseTemperature | Transport Release Temp | If the fish transportation occurred on this day what was the temperature of the body of water at the time of release | Float | Number | -18 to 39 °C | UM, GR |
| TransportMortality | Transport Mortality | If there were any mortalities after transport how many | Int | Number |  | UM, GR |
| Comments | Comments | Any comments made during the collection activity | String | TextArea |  | All |

1All = All projects; UM = Umatilla; GR = Grande Ronde Supplementation O&M; ISK = Steelhead Supplementation Evaluation; PL = Pacific Lamprey Research and Restoration; WW=Walla Walla Basin Monitoring and Evaluation.

2Currently UM and PL conduct both Live and Video enumerations. The WW group collects only Video from Nursery Bridge and GR and ISK only conduct live trapping.

**Attributes collected for each fish – DETAIL FIELDS**

| Column Name | Attribute Label | Description of attribute | DataType | ControlType | Validation/Units | Projects |
| --- | --- | --- | --- | --- | --- | --- |
| RunYear | Run Year | The run year the fish belongs to. Normally it would be the current year however once in a while you will get a fish (STS) in early for the next run year (October 1-September 30) | String | Text | /4 digit number/  i.e.2012, 2013, 2014  ***Required: all***. | UM |
| Species | Species | The species of the fish: Fall Chinook (CHF); Spring Chinook (CHS); Summer Steelhead (STS); Coho (CO); Bull Trout (BUT); Rainbow Trout (RBT); Pacific Lamprey (PL); | String | Select | CHF; CHS; STS; CO; BUT; RBT; PL;  ***Required: all***. | All |
| Sex | Sex | The sex of the fish: Male (M), Female (F), Unknown (UNK) | String | Select | M; F; UNK  ***Required: all***. | UM, GR, ISK |
| Origin | Origin | Refers to whether or not the fish appears to be a Natural (NAT); Hatchery (HAT); Unknown Origin (UNK) | String | Select | NAT; HAT; UNK  ***Required: all***. | All |
| LifeStage | Life Stage | The approximate age of the fish: Adult (A), Jack (J), Mini/SubJack (SJ), STS-One Salt Year (S1), STS-Two Salt Year (S2), Kelt (K) | String | Select | A; J; SJ; S1; S2; K  ***Required: all***. | UM, GR, ISK |
| TotalLength | TL | The total length of the fish. Measured from the tip of the snout to the tip of the longer lobe of the caudal fin, usually measured with the lobes compressed along the midline. It is a straight-line measure, not measured over the curve of the body (mm). | Int | Number | >1,500 mm | ISK, PL |
| ForkLength | FL | The fork length of the fish. Measured from the tip of the snout to the end of the middle caudal fin rays and is used in fishes in which it is difficult to tell where the vertebral column ends (mm). | Int | Number | >1,300 mm | UM, GR, ISK |
| Weight | Weight | The total weight of the fish at the time of handling (g) | Int | Number | >9,999 g | ISK |
| TotalFishRepresented | Total Count | The total number of fish of a specific category | Int | Number | >500 | UM, GR |
| Mark | Mark | Any man made mark: None; Adipose fin (AD); Left ventricle (LV); Right ventricle (RV); Hatchery Unmarked (HU); Not Available (NA); 1 Right Opercule Punch (1ROP); 1 Left Opercule Punch (1LOP); 2 Right Opercule Punches (2ROP); 2 Left Opercule Punches (2LOP);  Multiple selections are allowed. | String | MultiSelect | NONE; NA;  AD; LV; RV;  HU; 1ROP; 1LOP; 2ROP; 2LOP; 3ROP; 3LOP | All |
| Tag | Tag | Does the fish have a Tag of any sort  Wire Tag (W); Radio (R); Floy (F); PIT; Visible Implant Elastomer (VIE); Other (O) | String | MultiSelect | W; R; F, PIT; VIE; O | UM, GR, PL, ISK |
| PITNumber | PIT Number | The number of the PIT tag if it is read. This could be a half or full duplex number. | String | Text |  | PL, GR |
| RadioTagId | Radio Tag Id | The number on the radio tag if the fish has one | String | Text | i.e. 151.36.032 | UM, GR, PL, ISK |
| CWTTagId | CWT Tag Id | The number of the Coded Wire Tag if the fish has one | String | Text |  |  |
| OtherTagId | Tag Number or Color | If some other tag what is the number or color if VIE | String | Text |  | UM, GR, PL, ISK |
| Ripeness | Ripeness | Refers to whether or not the fish is ready to spawn: Ripe (R); Green (G); | String | Select | R; G; | GR |
| PercentSpawned | Percent Spawned | Some fish who present at the weir may have already spawned. Used to determine pre-spawn mortality. | Int | Number | 0-100 % | GR |
| Disposition | Disposition | Refers to what happens to the fish after handling (Multiple selections are allowed):  Broodstock (B); Mortality (M); Out-plant (O); Pass Above (PA); Pass Below (PB); Sacrifice (S); Transported (T); | String | MultiSelect | B; M; O; PA; PB; S; T | All |
| Recapture | Recap | Has this fish been capture at the structure once before | String | Select | Y, N | GR, ISK |
| ScaleId | Scale ID | The number on the scale card in which the scale sample is placed for future analysis | String | Text |  | GR, ISK |
| GeneticSampleId | Gsample | The number of the genetic envelope or bottle in which a genetic sample is placed for future analysis. | String | Text |  | GR, ISK |
| SnoutId | SnoutID | The number on the snout tag card which is placed in the bag to be transported with the snout for determination of the Wire Tag (CWT) | String | Text |  | UM, GR |
| ReleaseSite | Release Site | Refers to where the fish went to if it was transported or used as Broodstock:  Bear Creek (BC); Barnhart (BH); Indian Creek (IC); Lookingglass (LG); Minthorn Springs Adult Pond (MSAP); Sheep Creek (SC); SF Walla Walla Adult Pond 1 (SFAP1); SF Walla Walla Adult Pond 2 (SFAP2); SF Walla Walla Adult Pond 3 (SFAP3); SF Walla Walla Adult Pond 4 (SFAP4); SF Walla Walla Adult Pond 5 (SFAP5); Thorn Hollow (TH); Three Mile Falls Dam Pond 1 (TM1); Three Mile Falls Dam Pond 2 (TM2); Three Mile Falls Dam Pond 3 (TM3); | String | Select | BC; BH; IC; LG; MSAP; SC; SFAP1; SFAP2; SFAP3; SFAP4; SFAP5; TH;TM1; TM2; TM3; | UM, GR |
| Solution | Solution | Refers to whether or not the fish got a Strontium (Sr) or a Saline solution injection | String | Select | Strontium; Saline | ISK |
| SolutionDosage | Dose | The total dose of Strontium or Saline a fish received | Int | Number | 0-10 cc | ISK |
| OtolithGenetics | Otolith Genetics | The number on the envelope used for a genetic sample from the fish that otoliths were removed from | String | Text |  | GR |
| OtolithNumber | Otolith Number | Refers to the number on the otoliths envelope or box | String | Text |  | GR |
| FishComments | Comments | Comments about the specific fish that is viewed | String | TextArea |  | All |

# QA Standards

Minimum standard data entry QA procedures are to be that one person enters the field sheets into the system. Once completed, a second person reviews the data entry and verifies the data is correct and accurate to the best of their ability.

The CDMS system will have data validation standards built into the work flow to check data and flag data if necessary, as it comes via data entry forms or imports.

# Data Grading

Not applicable to this dataset

# Accessibility

Summary level data will be freely available to the public.  All raw data will be available by request.  Public can make a request for data to the project lead by a web form.  The project lead has the authority to approve/deny any request and will be responsible for providing the information.