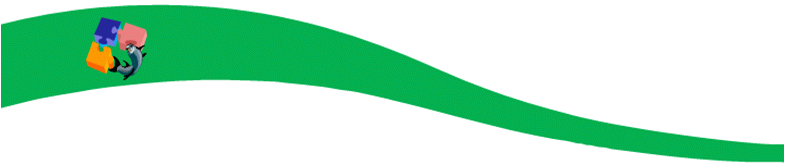
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**Rice Field Fishery Enhancement Project**

*Project funded by USAID*

**RICE FIELD FISHERY ENHANCEMENT PROJECT**

**DATABASE REPORT**

**Modifications**

**Detection and Correction of the Errors**

**2016.08.04**

**Philippe Poulin**1

**Vichet Sean**1

**Vanvuth Try**1

1 WorldFish Center, Phnom Penh, Cambodia.

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# Main Modifications in the Database

As the data of the Rice Field Fishery Enhancement Project was divided in many different databases and formats, some modifications were needed to allow the merge of all the data. Some of the modifications listed below were also done to simplify the use of the data.

## CFR Characteristics data

* CFR characteristics were gathered in different files (Excel files and brochures). The values were not always consistent, because of the seasonality variability and also because those data were collected by different stakeholders. The data has been clarify and corrected with the help of the project staff so now the values in the database are consistent.

## Biological Monitoring Data

Original file: *15.08.15-BioM monitoring 1-13-OK.accdb*

* Those tables have been deleted:
* tblkCFR – Merged into the CFR\_Characteristics table;
* tblkspecieslist – Merged with the CATCH & CONSUMPTION species list to form a single species list in the database;
* tblkGeartype – Table only used for data entry in the Access form;
* tblkProvince - Table only used for data entry in the Access form.
* The tables *tblBioSample* and *tblFormB* were merged together as they were providing information on the same events. The resulting table (*Biological Monitoring\_FormB*) have been standardizing so each record describes an event when a fishing gear was set to sample the CFR.
* The names of all the tables of the biological monitoring survey has been changed to a more relevant name (e.g. *tblBasicInfo* -> *Biological Monitoring\_BasicInfo)*
* The field ‘GillnetLength’ was added to the table *Biological Monitoring\_FormB* which provide the size of the gillnet used to sample the CFR.

## Catch & Consumption Data

Original files*: 1st-5th CATCH & CONSUMPTION data.accdb   
6th CATCH & CONSUMPTION data.accdb   
7th-19th CATCH & CONSUMPTION data.accdb*

* The data was divided in three different Access database according to the date of the interview so the tables has been merged together. The merging of the tables *tblQ7* and *tblQ8* was more complex as the design of those tables for the 1st-5th survey were different than for the rest of the survey.
* The table *tblkSpecies* was deleted and the data was merged with the Biological Monitoring species list to form a unique species list for the entire database.
* The name of all the tables of the catch & consumption survey has been changed to a more relevant name (*tblQ13-16* -> *Catch & Consumption\_Q13-16*).

## Livelihood Data

*Original files: 39 Stata Dataset tables*

* The livelihood tables have been exported from the Stata software to the Access database.
* The name of all the tables of the livelihood survey has been changed to a more relevant name (e.g. module\_a\_q2 -> Livelivehood\_PersonalInfo\_Q2).
* The table Livelihood\_Fishing\_Q35 has been deleted because the information was already in the table Livelihood\_Fishing\_Q34 rename Livelihood\_Fishing\_Q34-35.
* In those tables, the were empty fields and they have been deleted:

Livelihood\_Assets\_Q15 trap pond information

Livelihood\_Livestock\_Q26 household’s livestock

Livelihood\_Fishing\_Q31 trap pond productivity

Livelihood\_Fishing\_Q33\_2 high value fish and OAA selling price

Livelihood\_Fishing\_Q36 aquaculture productivity

Livelihood\_Fishing\_Q37 aquaculture species

Livelihood\_Shock\_Q42-46 shocks

Livelihood\_Food\_Q41 food level suffiency

Livelihood\_Food\_Q52a healthy food for women

Livelihood\_Food\_Q52b healthy food for children

Livelihood\_Food\_Q53 reason why no access to healthy food

* For some tables, the question number was not corresponding with the question number in the questionnaire so for those table the name have been changed and the variables name to:

Q41-45 -> Q42-46  
Q46 -> Q41  
Q47 -> Q49  
Q48 -> Q50  
Q49 -> Q51  
Q50 -> Q52   
Q51 -> Q53  
Q52 -> Q47  
Q53 -> Q48

* There was lots of mismatch with the household identification number and household member identification number in the table Livelihood\_PersonnalInfo\_Q2. The correct data has been retraced and the table Livelihood\_PersonnalInfo\_Q2 has been updated with the good values.

## Fish\_perception Table

Original file: *Fish Perception all 400 households.xlsx*

* The fish perception table has mostly stay identical as the original file except that 100 household identification number (Household\_ID) were missing which has been retraced by using the Khmer name of the respondents.

# Remaining Errors within the Database

Even with a strong effort of solving the errors found in the Rice Field Fishery Enhancement Project database, there are still some errors remaining among the different tables. In this section, only the tables with remaining errors are presented and the errors are described. There are also some general errors which affect all the tables of a same survey so they are described at the beginning of each sub-section.

Sometime the errors are highlighted in red to help visualizing them.

## Biological Monitoring Data

The second and third sampling (occasion 2 & 3) of the community fish refuge Boeng Tramses was impossible to conduct because the CFR was dry so there is no data for those two occasions for all the variables of the biological monitoring survey.

### Biological Monitoring\_BasicInfo

518 records in total

In the table Biological Monitoring\_BasicInfo, the water temperature (WaterTem) is not available for those 7 records because the thermometer was broken.

| CFRName | Occasion | WaterTem |
| --- | --- | --- |
| Boeng Thmor Koul | 1 |  |
| Othom Sranal | 1 |  |
| Pur Sdey | 1 |  |
| Trapaing Thlong | 1 |  |
| Tumnub Kandole | 1 |  |
| Tumnub Mkak | 1 |  |
| Tumnub Rumdeng | 1 |  |

The water flow in and out (variables: Inflow & Outflow) of the community fish refuges (CFR) are not available for all the sampling of the CFR located in Siem Reap or Kampong Thom province (23 CFR), because the field crew responsible of those two provinces were not equipped and formed to measure this data.

The variable ‘BrushPark’ was measured at the beginning of the project for some CFR’s by the number of branches composing Brush Parks in the CFR’s instead of the area (m2) covered by them.

### Biological Monitoring\_FormB

28,220 records total

During the first sampling (occasion 1) of the community fish refuges, the scale used was not precise enough to weight fish below 1g so 300 records don’t have value in the field ‘Total weight’ which provide the weight of all the specimen of same species caught by a fishing gear.

For the same reason as above and also because before the occasion 9 field staff didn’t weight individually the shrimp species (Macrobrachium spp., species #087), 1373 records don’t have value in the field ‘Min\_weight’ and 879 records don’t have records in the field ‘Max\_weight’.

434 records don’t have value in the field ‘Min\_length’ and 346 records don’t have value in the field ‘Max\_length’, because before the occasion 9 the field staffs didn’t measure individually the length of the shrimp species (Macrobrachium spp., species #087)and also because some fish specimens were damaged so it was not possible to measure them.

## Catch & Consumption Data

It was not always the same households that have been interviewed during the 19 catch and consumption surveys, but there were always ten households interviewed per community fish refuge.

### Catch & Consumption\_Q3

Q 3 - How many days did your family members go to fish in last seven days?

12 errors on a total of 6917 records

For those 7 records, it is impossible to know how many days household member has went fishing.

| HouseHoldID | DateInter | Family Member | 1day | 2day | 3day | 4day | 5day | 6day | 7day |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 040 | 8/23/2013 | Son>5yrs(Nr.) | YES | YES | NO | NO | NO | NO | NO |
| 064 | 3/14/2014 | Other member family (son-in-law,28) | NO | NO | YES | NO | NO | YES | NO |
| 079 | 3/18/2014 | Spouse | YES | NO | NO | YES | NO | NO | NO |
| 120 | 5/24/2013 | Husband | NO | YES | NO | YES | NO | NO | NO |
| 135 | 9/16/2013 | Husband | NO | NO | YES | NO | NO | NO | YES |
| 462 | 8/19/2013 | Husband | NO | YES | NO | NO | NO | NO | YES |
| 620 | 11/29/2012 | Husband | YES | NO | YES | NO | NO | NO | NO |

The number of fishing day per household member is not available for those 5 records.

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| HouseHoldID | DateInter | Family Member | 1day | 2day | 3day | 4day | 5day | 6day | 7day |
| 180 | 3/20/2014 | Son>5yrs(Nr.) | NO | NO | NO | NO | NO | NO | NO |
| 192 | 11/28/2012 | Daughter>5yrs(Nr.) | NO | NO | NO | NO | NO | NO | NO |
| 306 | 3/14/2013 | Daughter>5yrs(Nr.) | NO | NO | NO | NO | NO | NO | NO |
| 318 | 1/15/2013 | Husband | NO | NO | NO | NO | NO | NO | NO |
| 551 | 3/21/2014 | Son>5yrs(Nr.) | NO | NO | NO | NO | NO | NO | NO |

### Catch & Consumption\_Q4

Q 4 - In average how long did you spend fishing per outing?

9 errors on a total of 6920 records

The fishing frequency for those 9 records is not available.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| HouseHoldID | DateInter | Family Member | OnlyNight | OnlyDay | FullOverNight | MoreOneDay |
| 180 | 3/20/2014 | Son>5yrs(Nr.) | FALSE | FALSE | FALSE | FALSE |
| 192 | 11/28/2012 | Daughter>5yrs(Nr.) | FALSE | FALSE | FALSE | FALSE |
| 195 | 11/27/2013 | Son>5yrs(Nr.) | FALSE | FALSE | FALSE | FALSE |
| 211 | 11/20/2015 | Husband | FALSE | FALSE | FALSE | FALSE |
| 231 | 3/26/2014 | Spouse | FALSE | FALSE | FALSE | FALSE |
| 326 | 8/15/2013 | Son>5yrs(Nr.) | FALSE | FALSE | FALSE | FALSE |
| 326 | 3/19/2014 | Husband | FALSE | FALSE | FALSE | FALSE |
| 326 | 3/19/2014 | Son>5yrs(Nr.) | FALSE | FALSE | FALSE | FALSE |
| 389 | 3/20/2014 | Husband | FALSE | FALSE | FALSE | FALSE |

### Catch & Consumption\_Q9

Q9: How often did your family consumed fish (fresh or processed) for last seven days?

45 errors on a total of 21,670 records

For those 38 records, the consummation frequency of fish and OAA is not available.

| HouseHold ID | DateInter | Source\_Fish\_OAA | Type\_Fish\_OAA | Daily | Day5-6 | Day3-4 | Day1-2 |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 074 | 11/28/2013 | Wild Catch Fish\* | Black fish | FALSE | FALSE | FALSE | FALSE |
| 113 | 1/23/2014 | Processed Fish Home produced from their wild catch | Prahoc | FALSE | FALSE | FALSE | FALSE |
| 123 | 3/19/2014 | Market Fish and OAA and Process | Black fish | FALSE | FALSE | FALSE | FALSE |
| 132 | 9/16/2013 | Wild Catch Fish\* | Grey Fish | FALSE | FALSE | FALSE | FALSE |
| 135 | 1/22/2014 | Wild Catch Fish\* | Grey Fish | FALSE | FALSE | FALSE | FALSE |
| 174 | 1/24/2014 | Wild Catch Fish\* | Black fish | FALSE | FALSE | FALSE | FALSE |
| 180 | 11/25/2013 | OAA Catch | Watersnake | FALSE | FALSE | FALSE | FALSE |
| 183 | 9/19/2013 | OAA Catch | Frogs | FALSE | FALSE | FALSE | FALSE |
| 193 | 11/27/2013 | Aquatic plant Collected |  | FALSE | FALSE | FALSE | FALSE |
| 194 | 9/18/2013 | Wild Catch Fish\* | Grey Fish | FALSE | FALSE | FALSE | FALSE |
| 211 | 5/6/2014 | Wild Catch Fish\* | Black fish | FALSE | FALSE | FALSE | FALSE |
| 217 | 1/28/2014 | Aquatic plant Collected |  | FALSE | FALSE | FALSE | FALSE |
| 225 | 3/25/2014 | OAA Catch | Other (specify) | FALSE | FALSE | FALSE | FALSE |
| 233 | 3/26/2014 | Processed Fish Home produced from their wild catch | Smoked Fish | FALSE | FALSE | FALSE | FALSE |
| 252 | 3/19/2014 | Market Fish and OAA and Process | Grey Fish | FALSE | FALSE | FALSE | FALSE |
| 253 | 3/20/2014 | OAA Catch | Shrimps | FALSE | FALSE | FALSE | FALSE |
| 259 | 5/8/2014 | OAA Catch | Frogs | FALSE | FALSE | FALSE | FALSE |
| 265 | 5/8/2014 | Processed Fish Home produced from their wild catch | Fish fillet | FALSE | FALSE | FALSE | FALSE |
| 271 | 7/22/2015 | Processed Fish Home produced from their wild catch | Fish fillet | FALSE | FALSE | FALSE | FALSE |
| 363 | 3/21/2014 | Market Fish and OAA and Process | Processed | FALSE | FALSE | FALSE | FALSE |
| 381 | 3/19/2014 | Wild Catch Fish\* | Black fish | FALSE | FALSE | FALSE | FALSE |
| 381 | 3/19/2014 | Wild Catch Fish\* | Grey Fish | FALSE | FALSE | FALSE | FALSE |
| 387 | 5/24/2015 | Other (from neighbour /gift) | Grey Fish | FALSE | FALSE | FALSE | FALSE |
| 401 | 9/18/2013 | Aquatic plant Collected |  | FALSE | FALSE | FALSE | FALSE |
| 452 | 3/25/2014 | Processed Fish Home produced from their wild catch | Prahoc | FALSE | FALSE | FALSE | FALSE |
| 454 | 9/20/2013 | Aquatic plant Collected |  | FALSE | FALSE | FALSE | FALSE |
| 473 | 11/19/2013 | Market Fish and OAA and Process | Black fish | FALSE | FALSE | FALSE | FALSE |
| 473 | 11/19/2013 | Market Fish and OAA and Process | White Fish | FALSE | FALSE | FALSE | FALSE |
| 494 | 3/20/2014 | Processed Fish Home produced from their wild catch | Fish fillet | FALSE | FALSE | FALSE | FALSE |
| 494 | 3/20/2014 | Processed Fish Home produced from their wild catch | Prahoc | FALSE | FALSE | FALSE | FALSE |
| 515 | 9/11/2013 | Market Fish and OAA and Process | Black fish | FALSE | FALSE | FALSE | FALSE |
| 515 | 9/11/2013 | Market Fish and OAA and Process | White Fish | FALSE | FALSE | FALSE | FALSE |
| 519 | 9/11/2013 | Market Fish and OAA and Process | Black fish | FALSE | FALSE | FALSE | FALSE |
| 519 | 9/11/2013 | Market Fish and OAA and Process | White Fish | FALSE | FALSE | FALSE | FALSE |
| 519 | 5/7/2014 | Market Fish and OAA and Process | Grey Fish | FALSE | FALSE | FALSE | FALSE |
| 547 | 9/17/2013 | Processed Fish Home produced from their wild catch | Prahoc | FALSE | FALSE | FALSE | FALSE |
| 597 | 5/7/2014 | Processed Fish Home produced from their wild catch | Fermented Fish (Pa ork, Maim, …) | FALSE | FALSE | FALSE | FALSE |
| 597 | 5/7/2014 | Processed Fish Home produced from their wild catch | Prahoc | FALSE | FALSE | FALSE | FALSE |

In those 7 records, household has consumed fish, but the weight is not available.

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| HouseHoldID | DateInter | Source\_Fish\_ OAA | Type\_Fish\_OAA | Daily | Day5-6 | Day3-4 | Day1-2 | Total Weight |
| 412 | 9/24/2015 | Market Fish and OAA and Process | Black fish | FALSE | FALSE | FALSE | TRUE |  |
| 412 | 9/24/2015 | Market Fish and OAA and Process | Grey Fish | FALSE | FALSE | TRUE | FALSE |  |
| 414 | 11/20/2015 | Market Fish and OAA and Process | Black fish | FALSE | TRUE | FALSE | FALSE |  |
| 414 | 11/20/2015 | Market Fish and OAA and Process | White Fish | FALSE | FALSE | FALSE | TRUE |  |
| 414 | 11/20/2015 | Market Fish and OAA and Process | Processed | FALSE | FALSE | TRUE | FALSE |  |
| 546 | 7/15/2014 | Processed Fish Home produced from their wild catch | Fish fillet | FALSE | FALSE | TRUE | FALSE |  |
| 601 | 7/18/2014 | Processed Fish Home produced from their wild catch | Fish fillet | FALSE | TRUE | FALSE | FALSE |  |

### Catch & Consumption\_Q12

Q12: For those MN rich species consumed, give approximate proportions for different types and consumption frequency.

51 errors on a total of 3261 records

For those 19 records, the consummation frequency of Esomus group is not available.

| HouseHold ID | DateInter | EsomusGp\_ percenage | EsomusGp\_ weight | EsomusGp\_ Daily | EsomusGp\_ 5-6days | EsomusGp\_ 3-4days | EsomusGp 2days |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 474 | 8/13/2013 | 100 | 0.6 | FALSE | FALSE | FALSE | FALSE |
| 113 | 11/26/2013 | 100 | 2.7 | FALSE | FALSE | FALSE | FALSE |
| 188 | 9/14/2015 | 100 | 0.4 | FALSE | FALSE | FALSE | FALSE |
| 190 | 9/14/2015 | 100 | 1 | FALSE | FALSE | FALSE | FALSE |
| 371 | 9/25/2015 | 100 | 0.48 | FALSE | FALSE | FALSE | FALSE |
| 312 | 11/18/2015 | 100 | 0.38 | FALSE | FALSE | FALSE | FALSE |
| 318 | 11/18/2015 | 100 | 0.35 | FALSE | FALSE | FALSE | FALSE |
| 348 | 11/18/2015 | 100 | 0.5 | FALSE | FALSE | FALSE | FALSE |
| 458 | 11/20/2015 | 100 | 0.3 | FALSE | FALSE | FALSE | FALSE |
| 380 | 11/28/2015 | 100 | 0.3 | FALSE | FALSE | FALSE | FALSE |
| 336 | 11/19/2015 | 94 | 3.995 | FALSE | FALSE | FALSE | FALSE |
| 460 | 11/27/2015 | 78 | 0.2808 | FALSE | FALSE | FALSE | FALSE |
| 278 | 11/18/2015 | 67 | 0.1809 | FALSE | FALSE | FALSE | FALSE |
| 638 | 9/19/2013 | 60 | 0.624 | FALSE | FALSE | FALSE | FALSE |
| 567 | 9/9/2013 | 50 | 0.145 | FALSE | FALSE | FALSE | FALSE |
| 532 | 8/16/2013 | 45 | 0.5265 | FALSE | FALSE | FALSE | FALSE |
| 394 | 11/30/2015 | 44 | 1.496 | FALSE | FALSE | FALSE | FALSE |
| 516 | 9/11/2013 | 40 | 1.196 | FALSE | FALSE | FALSE | FALSE |
| 462 | 11/27/2015 | 17 | 0.102 | FALSE | FALSE | FALSE | FALSE |

For those 31 records, the consummation frequency of Gouramis group is not available.

| HouseHoldID | DateInter | Gouramis\_ percenage | Gouramis\_ weight | Gouramis\_ Daily | Gouramis\_ 5-6days | Gouramis\_ 3-4days | Gouramis\_ 2days |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 012 | 9/17/2015 | 74.29 | 2.60015 | FALSE | FALSE | FALSE | FALSE |
| 590 | 3/13/2013 | 100 | 2 | FALSE | FALSE | FALSE | FALSE |
| 394 | 11/30/2015 | 56 | 1.904 | FALSE | FALSE | FALSE | FALSE |
| 058 | 11/19/2015 | 100 | 1.8 | FALSE | FALSE | FALSE | FALSE |
| 516 | 9/11/2013 | 60 | 1.794 | FALSE | FALSE | FALSE | FALSE |
| 529 | 1/30/2013 | 100 | 1 | FALSE | FALSE | FALSE | FALSE |
| 577 | 1/31/2013 | 100 | 1 | FALSE | FALSE | FALSE | FALSE |
| 396 | 3/24/2014 | 100 | 1 | FALSE | FALSE | FALSE | FALSE |
| 451 | 3/25/2014 | 100 | 1 | FALSE | FALSE | FALSE | FALSE |
| 470 | 1/30/2013 | 100 | 0.9 | FALSE | FALSE | FALSE | FALSE |
| 386 | 9/19/2013 | 100 | 0.82 | FALSE | FALSE | FALSE | FALSE |
| 329 | 11/19/2015 | 100 | 0.8 | FALSE | FALSE | FALSE | FALSE |
| 385 | 3/20/2014 | 100 | 0.45 | FALSE | FALSE | FALSE | FALSE |
| 638 | 9/19/2013 | 40 | 0.416 | FALSE | FALSE | FALSE | FALSE |
| 151 | 11/28/2012 | 100 | 0.4 | FALSE | FALSE | FALSE | FALSE |
| 400 | 3/24/2014 | 100 | 0.4 | FALSE | FALSE | FALSE | FALSE |
| 462 | 11/27/2015 | 64 | 0.384 | FALSE | FALSE | FALSE | FALSE |
| 507 | 8/14/2013 | 100 | 0.33 | FALSE | FALSE | FALSE | FALSE |
| 424 | 5/16/2013 | 100 | 0.3 | FALSE | FALSE | FALSE | FALSE |
| 087 | 11/23/2015 | 100 | 0.3 | FALSE | FALSE | FALSE | FALSE |
| 117 | 3/20/2014 | 100 | 0.28 | FALSE | FALSE | FALSE | FALSE |
| 162 | 9/17/2015 | 58.06 | 0.269979 | FALSE | FALSE | FALSE | FALSE |
| 336 | 11/19/2015 | 6 | 0.255 | FALSE | FALSE | FALSE | FALSE |
| 293 | 11/30/2015 | 100 | 0.25 | FALSE | FALSE | FALSE | FALSE |
| 083 | 8/22/2013 | 100 | 0.2 | FALSE | FALSE | FALSE | FALSE |
| 226 | 9/14/2015 | 28.58 | 0.180054 | FALSE | FALSE | FALSE | FALSE |
| 567 | 9/9/2013 | 50 | 0.145 | FALSE | FALSE | FALSE | FALSE |
| 463 | 11/27/2015 | 100 | 0.1 | FALSE | FALSE | FALSE | FALSE |
| 103 | 5/21/2013 | 100 | 0.095 | FALSE | FALSE | FALSE | FALSE |
| 278 | 11/18/2015 | 33 | 0.0891 | FALSE | FALSE | FALSE | FALSE |
| 460 | 11/27/2015 | 22 | 0.0792 | FALSE | FALSE | FALSE | FALSE |

For this record, the consummation frequency of Trichopis group is not available.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| HouseHoldID | DateInter | Trichopis\_ percenage | Trichopis\_ weight | Trichopis\_ Daily | Trichopis\_ 5-6days | Trichopis\_ 3-4days | Trichopis\_ 2days |
| 462 | 11/27/2015 | 16 | 0.096 | FALSE | FALSE | FALSE | FALSE |

## Livelivehood Data

The following households have been only interviewed at the beginning of the project in 2012, but in 2015 they were not living anymore in the study area so there is no end line survey for those households.

005

006

015

017

036

046

052

057

073

080

099

112

137

174

218

274

299

302

315

317

325

331

345

346

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383

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404

419

441

456

475

479

482

483

484

499

518

539

544

562

569

579

593

603

623

640

The data from the baseline survey has been lost for those 3 households so only the data from the 2015 survey is available.

534 630 634

### Livelivehood\_PersonalInfo\_Q2

**\*\*\*There is currently an issue with the ‘hhid’ field. There are lots of records with the wrong household identification number. The project staffs are currently trying to retrace older tables with no errors. \*\*\***

### Livelihood\_Assets\_Q15

1 error on total of 516 records

The size of the trap pond owned by this household in 2012 is missing.

| **hhid** | **year** | **item** | **q15\_1** | **q15\_2** |
| --- | --- | --- | --- | --- |
| 276 | 2012 | Trap pond 1 | 0 | 0.01 |

### Livelihood\_Farming\_Q24

13 errors on total of 2158 records

For those 11 records, the quantity harvested (q24\_3) and the quantity consumed (q24\_4), sold (q24\_5) and bartered (q24\_6) are unavailable for different reasons such as the crop has not been harvested yet or it has been damaged or lost.

| hhid | Year | item | q24\_2 | q24\_3 | q24\_4 | q24\_5 | q24\_6 |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 272 | 2012 | Deep water rice | 1 |  | 0 | 0 | 0 |
| 385 | 2012 | Rainfed rice | 11 |  | 0 | 0 | 0 |
| 394 | 2012 | Rainfed rice | 10 |  | 0 | 0 | 0 |
| 413 | 2012 | Rainfed rice | 11 |  | 0 | 0 | 0 |
| 522 | 2012 | Rainfed rice | 12 |  | 0 | 0 | 0 |
| 493 | 2012 | Fruit crops/trees | 0 |  | 0 | 0 | 0 |
| 166 | 2015 | Cassava | 0 |  | 0 | 0 | 0 |
| 224 | 2015 | Vegetable | 0 |  | 0 | 0 | 0 |
| 265 | 2015 | Cassava | 0 |  | 0 | 0 | 0 |
| 271 | 2015 | Cassava | 0 |  | 0 | 0 | 0 |
| 560 | 2015 | Vegetable | 0 |  | 0 | 0 | 0 |

The quantity consumed (q24\_4), sold (q24\_5) and bartered (q24\_6) are not available for those 2 records.

| hhid | Year | item | q24\_2 | q24\_3 | q24\_4 | q24\_5 | q24\_6 |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 145 | 2012 | Vegetable | 12 | 100 |  |  |  |
| 102 | 2015 | Vegetable | 10 | 10 |  |  |  |

### Livelihood\_Fishing\_Q30

In the table Livelihood\_Fishing\_Q30, the variable q30\_6 should indicate the number of months in a year household has access to a specific type of processed food in their storage, but the question seems to have been interpreted differently by the interviewers: some values are higher than 12 months, other seems to include other source of processed than household’s wild catches, etc. It was impossible to correct the data irregularities.

### Livelihood\_Fishing\_Q31

5 errors on total of 367 records

The peak month of the catches (q31\_2) in the trap ponds is not available for those 5 records.

| **hhid** | **year** | **item** | **q31\_1** | **q31\_2** |
| --- | --- | --- | --- | --- |
| 550 | 2012 | Trap pond 2 | 500 | 0 |
| 525 | 2015 | Trap pond 3 | 3 | 0 |
| 395 | 2012 | Trap pond 2 | 5 | 0 |
| 384 | 2015 | Trap pond 2 | 3 | 0 |
| 384 | 2015 | Trap pond 1 | 60 | 0 |

### Livelihood\_Fishing\_Q33\_1

4 errors on total of 2454 records

The sum of the proportion of the different usage of high value fish or OAA (q33\_1, q33\_2 and q33\_3) doesn’t equal to 100% and it was impossible to find the good data.

| Hhid | year | item | q33\_1 | q33\_2 | q33\_3 | Total |
| --- | --- | --- | --- | --- | --- | --- |
| 321 | 2015 | high value fish | 20 | 80 | 2 | 102 |
| 349 | 2015 | high value OAA | 10 | 70 | 30 | 110 |
| 396 | 2012 | high value fish | 0 | 90 | 0 | 90 |
| 398 | 2015 | high value fish | 0 | 30 | 20 | 50 |

### Livelihood\_Fishing\_Q34-35

1 error on total of 1227 records

The total area of the aquaculture pond (q35\_2) owned by this household is not available and it was impossible to find the data.

| hhid | year | q34 | q35\_1 | q35\_2 |
| --- | --- | --- | --- | --- |
| 467 | 2012 | Yes | 1 | 0 |

### Livelihood\_Fishing\_Q36

7 errors on total of 28 records

For those 7 records, the field q36\_3, q36\_4, q36\_5 and q36\_6 are empty, because the household haven’t harvested yet their fish production.

| hhid | year | item | q36\_2 | q36\_3 | q36\_4 | q36\_5 | q36\_6 |
| --- | --- | --- | --- | --- | --- | --- | --- |
| 009 | 2015 | Pond | 1 |  |  |  |  |
| 034 | 2015 | Pond | 1 |  |  |  |  |
| 166 | 2015 | Pond | 1 |  |  |  |  |
| 167 | 2012 | Pond | 1 |  |  |  |  |
| 198 | 2012 | Pond | 1 |  |  |  |  |
| 467 | 2012 | Pond | 1 |  |  |  |  |
| 532 | 2012 | Pond | 1 |  |  |  |  |

### Livelihood\_Income\_Q40

There were some errors when the data was collected (e.g. the amounts was entered in US dollar, the time frame don’t seems to be a year, etc.). The project staffs also think that quite often the interviewed people were over estimating their expenditures. For those reasons, it was impossible to correct the irregularity among the data.

### Livelihood\_Food\_Q41

21 errors on total of 7348

For those 21 records, the level of food sufficiency for different kind of food (item) is not available and for all the different periods of the year (q41\_1; q41\_2; q41\_3; q41\_4).

| hhid | year | item | q41\_1 | q41\_2 | q41\_3 | q41\_4 |
| --- | --- | --- | --- | --- | --- | --- |
| 006 | 2012 | Fruit |  | Less than desire to meet basic need of the HH | Less than desire to meet basic need of the HH | Less than desire to meet basic need of the HH |
| 013 | 2012 | Fish | Surplus and able to sell | Surplus and able to sell | Sufficient and satisfied |  |
| 237 | 2015 | Fruit |  | Less than desire to meet basic need of the HH | Less than desire to meet basic need of the HH | Less than desire to meet basic need of the HH |
| 249 | 2012 | Fruit | Less than desire to meet basic need of the HH |  | Less than desire to meet basic need of the HH | Severe shortage |
| 261 | 2015 | Vegetable | Sufficient and satisfied | Less than desire to meet basic need of the HH |  | Sufficient and satisfied |
| 280 | 2015 | Vegetable |  | Sufficient and satisfied | Sufficient and satisfied | Sufficient and satisfied |
| 294 | 2015 | Vegetable | Less than desire to meet basic need of the HH | Less than desire to meet basic need of the HH |  | Severe shortage |
| 297 | 2015 | Rice | Sufficient and satisfied | Less than desire to meet basic need of the HH | Less than desire to meet basic need of the HH |  |
| 300 | 2015 | Vegetable | Less than desire to meet basic need of the HH |  | Sufficient and satisfied | Sufficient and satisfied |
| 304 | 2015 | Oaa | Less than desire to meet basic need of the HH |  | Sufficient and satisfied | Sufficient and satisfied |
| 311 | 2015 | Fish | Less than desire to meet basic need of the HH | Sufficient and satisfied | Sufficient and satisfied |  |
| 312 | 2015 | Fish |  | Less than desire to meet basic need of the HH | Sufficient and satisfied | Less than desire to meet basic need of the HH |
| 343 | 2012 | Rice | None at all | None at all |  |  |
| 343 | 2012 | Rice | None at all | None at all |  |  |
| 354 | 2015 | Fish | Less than desire to meet basic need of the HH | Sufficient and satisfied | Less than desire to meet basic need of the HH |  |
| 369 | 2015 | Fish | Less than desire to meet basic need of the HH | Less than desire to meet basic need of the HH |  | Less than desire to meet basic need of the HH |
| 379 | 2015 | Oaa |  | Severe shortage | Less than desire to meet basic need of the HH | Severe shortage |
| 395 | 2015 | Fish | Less than desire to meet basic need of the HH | Less than desire to meet basic need of the HH | Less than desire to meet basic need of the HH |  |
| 396 | 2012 | Fish |  | Sufficient and satisfied | Sufficient and satisfied | Sufficient and satisfied |
| 418 | 2015 | Vegetable | Sufficient and satisfied | Less than desire to meet basic need of the HH |  | Sufficient and satisfied |
| 508 | 2012 | Meat | Sufficient and satisfied | Sufficient and satisfied | Severe shortage |  |

### Livelihood\_Food\_Q50

70 errors on total of 1227 records

For those 70 records, the age when children start eating OAA (q50\_2) and/or fish (q50\_1) is not available. Sometime, it is because the households don’t have young children at home so the question was not very relevant for them.

| hhid | year | q50\_1 | q50\_2 |
| --- | --- | --- | --- |
| 036 | 2012 | 6 |  |
| 038 | 2012 | 12 |  |
| 076 | 2012 | 8 |  |
| 087 | 2012 | 12 |  |
| 121 | 2012 | 12 |  |
| 127 | 2012 | 6 |  |
| 128 | 2012 | 36 |  |
| 131 | 2012 | 6 |  |
| 140 | 2012 | 24 |  |
| 203 | 2012 | 12 |  |
| 205 | 2012 | 6 |  |
| 212 | 2012 | 15 |  |
| 214 | 2012 | 12 |  |
| 216 | 2012 | 6 |  |
| 218 | 2012 | 12 |  |
| 220 | 2012 | 12 |  |
| 222 | 2012 | 6 |  |
| 224 | 2012 | 12 |  |
| 233 | 2012 | 6 |  |
| 235 | 2012 | 12 |  |
| 236 | 2012 | 12 |  |
| 248 | 2012 | 12 |  |
| 249 | 2012 | 6 |  |
| 250 | 2012 | 8 |  |
| 251 | 2012 | 8 |  |
| 252 | 2012 | 6 |  |
| 254 | 2012 | 12 |  |
| 256 | 2012 | 6 |  |
| 263 | 2012 | 120 |  |
| 270 | 2012 | 6 |  |
| 281 | 2012 | 6 |  |
| 281 | 2015 | 7 |  |
| 283 | 2012 | 7 |  |
| 285 | 2012 | 12 |  |
| 288 | 2012 | 6 |  |
| 361 | 2012 | 9 |  |
| 375 | 2012 | 7 |  |
| 381 | 2012 | 6 |  |
| 400 | 2012 | 6 |  |
| 437 | 2012 | 6 |  |
| 442 | 2012 | 12 |  |
| 472 | 2015 | 6 |  |
| 516 | 2015 | 6 |  |
| 525 | 2015 | 6 |  |
| 543 | 2015 | 6 |  |
| 555 | 2015 | 6 |  |
| 561 | 2015 | 6 |  |
| 571 | 2015 | 6 |  |
| 594 | 2015 | 8 |  |
| 622 | 2015 | 6 |  |
| 200 | 2015 |  |  |
| 204 | 2012 |  |  |
| 312 | 2012 |  |  |
| 328 | 2012 |  |  |
| 352 | 2012 |  |  |
| 362 | 2015 |  |  |
| 396 | 2012 |  |  |
| 441 | 2012 |  |  |
| 481 | 2015 |  |  |
| 529 | 2015 |  |  |
| 549 | 2015 |  |  |
| 552 | 2012 |  |  |
| 554 | 2015 |  |  |
| 557 | 2015 |  |  |
| 581 | 2015 |  |  |
| 586 | 2015 |  |  |
| 602 | 2012 |  |  |
| 629 | 2015 |  |  |
| 631 | 2015 |  |  |
| 638 | 2015 |  |  |

# Errors Checking and Correction in the Database

In this section are presented the outliers, missing data and mismatches that have been found and corrected with the help of the project staffs. The project staffs also confirm that some outliers’ values were exact and it is noticed to in this section. Missing data, outliers and other errors were simply identified by doing queries in Access and by scattering the data on Excel

## Error Checking Among The Catch & Consumption Tables

### Catch & Consumption\_Q5

Q5: Estimate the catch of the Fish and OAA from different habitats.

The following values for total fish, OAA or Plant catch are abnormally high compare to the other values, but according to the project staff those values are correct.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| HouseHoldID | DateInter | Fish\_EstTotalCatch | OAA\_EstTotalCatch | AP\_EstimateCatch |
| 055 | 1/14/2015 | 850 |  |  |
| 321 | 7/23/2014 |  | 145 |  |
| 007 | 11/18/2015 |  |  | 1001 |
| 055 | 9/18/2013 |  |  | 700 |
| 055 | 8/21/2013 |  |  | 700 |
| 007 | 9/17/2015 |  |  | 600 |

### Catch & Consumption\_Q8 & Catch & Consumption\_Q8sub

Q8: Other aquatic animal species catches or aquatic plants collected in last 7 days?

The species # 117 (*Limnoperna siamensis*) should be classified in the ‘SpeciesGroup’ #53 for the table Catch & Consumption\_Q8 and Catch & Consumption\_Q8Sub, but at the beginning of the project it was not the case, it was in the Group 53 and Group 54. Appropriate corrections have been made to the following records in tables Catch & Consumption\_Q8 and Catch & Consumption\_Q8Sub which involve changing the group name and adjusting the proportion and the weight of those catches.

| HouseHoldID | DateInter | speciescode | SpeciesGroup |
| --- | --- | --- | --- |
| 115 | 1/17/2013 | 117 | Group 58 |
| 190 | 11/28/2012 | 117 | Group 58 |
| 205 | 11/18/2012 | 117 | Group 58 |
| 249 | 5/27/2013 | 117 | Group 58 |
| 275 | 1/10/2013 | 117 | Group 58 |
| 278 | 1/10/2013 | 117 | Group 58 |
| 321 | 3/19/2014 | 117 | Group 54 |
| 322 | 3/19/2014 | 117 | Group 54 |
| 326 | 3/19/2014 | 117 | Group 54 |
| 346 | 3/21/2014 | 117 | Group 54 |
| 361 | 11/29/2012 | 117 | Group 58 |
| 449 | 3/25/2014 | 117 | Group 54 |
| 464 | 3/26/2014 | 117 | Group 54 |
| 494 | 11/30/2012 | 117 | Group 58 |
| 541 | 11/27/2012 | 117 | Group 58 |
| 620 | 11/29/2012 | 117 | Group 58 |
| 631 | 11/29/2012 | 117 | Group 58 |
| 632 | 1/29/2013 | 117 | Group 58 |

### Catch & Consumption\_Q13-16

Q14: If some MN rich species that were caught but not consumed how were they used and what were the amounts in kg?

The amount of mineral rich fish sold (q14\_Sell) for those 2 records is very higher than the other records, but the data is correct.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| HouseHoldID | DateInter | q13 | q14\_FedToAnimal | q14\_process | q14\_GiveAway | q14\_Sell |
| 055 | 1/14/2015 | Yes |  |  |  | 750 |
| 050 | 1/14/2015 | Yes |  |  |  | 300 |

### Catch & Consumption\_Q17-19

This child received 42 meals of Supple in 7 days (q19\_staple\_1), but according to the project staff this values is correct.

|  |  |  |  |
| --- | --- | --- | --- |
| HouseHoldID | DateInter | q18\_1 | q19\_Supple\_1 |
| 248 | 5/27/2013 | 9 | 42 |

For this record, it was written that this child has received 220 meals of staple in 7 days (q19\_staple\_1). It has been corrected to 22 meals instead.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| HouseHoldID | DateInter | q18\_1 | q19\_staple\_1 | **New value** |
| 147 | 9/19/2013 | 48 | 220 | **22** |

## Error Checking among the Livelihood Tables

### Livelihood\_Assets\_Q17

The number of pond for aquaculture owned by the household was not 24 but 1. It has been corrected in the database.

| hhid | year | item | q17 | **New value** |
| --- | --- | --- | --- | --- |
| 009 | 2015 | Pond for aquaculture | 24 | **1** |

### Livelihood\_Farming\_Q18-23

The area of the household’s chamkar land that gets inundated or flooded (q20\_3) was higher (8ha) than the total area (0.09ha) of chamkar land owned by HH (q20\_2). It has been corrected to 0.09 in the database.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| hhid | year | q20\_2 | q20\_3 | **New value** |
| 388 | 2012 | 0.09 | 8 | **0.09** |

The area of garden land (q22) for this household was very higher (100ha) than the other values. It has been corrected to 0.01ha in the database.

|  |  |  |  |
| --- | --- | --- | --- |
| hhid | year | q22 | **New value** |
| 143 | 2015 | 100 | **0.01** |

### Livelihood\_Farming\_Q24

For those 32 records, the total of crop harvested (q24\_3) was different than the sum of the quantity consumed (q24\_4), sold (q24\_5) and bartered (q24\_6). The project staff couldn’t explain this difference **so the value of the sum has replaced the value of the column q24\_3.**

| hhid | year | item | q24\_2 | q24\_3 | q24\_4 | q24\_5 | q24\_6 | Sum(q24\_4 + q24\_5+ q24\_6) |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| 004 | 2012 | Dry season rice | 3 | 8000 | 3000 | 8000 | 0 | 11000 |
| 034 | 2012 | Rainfed rice | 12 | 20000 | 4000 | 9000 | 6000 | 19000 |
| 040 | 2012 | Rainfed rice | 12 | 15000 | 5000 | 9000 | 0 | 14000 |
| 040 | 2012 | Maize | 5 | 15 | 5 | 0 | 0 | 5 |
| 047 | 2012 | Rainfed rice | 12 | 24000 | 5000 | 9000 | 0 | 14000 |
| 049 | 2012 | Rainfed rice | 12 |  | 5000 | 9000 |  | 14000 |
| 050 | 2012 | Rainfed rice | 12 |  | 5000 | 9000 |  | 14000 |
| 051 | 2012 | Rainfed rice | 12 |  | 5000 | 9000 |  | 14000 |
| 052 | 2012 | Rainfed rice | 12 |  | 5000 | 9000 |  | 14000 |
| 062 | 2012 | Maize | 7 | 1500 | 0 | 1400 | 0 | 1400 |
| 073 | 2012 | Upland rice | 12 | 2250 | 900 | 1000 | 10 | 1910 |
| 094 | 2012 | Fruit crops/trees | 3 | 7 | 7 | 640 |  | 647 |
| 135 | 2012 | Vegetable | 1 | 20 | 20 | 0 | 30 | 50 |
| 156 | 2012 | Rainfed rice | 12 | 7200 | 5000 | 0 | 0 | 5000 |
| 157 | 2012 | Fruit crops/trees | 12 | 667 | 100 | 640 | 0 | 740 |
| 215 | 2012 | Dry season rice | 1 | 8000 | 2000 | 8000 | 0 | 10000 |
| 216 | 2012 | Rainfed rice | 11 | 10700 | 700 | 9000 | 0 | 9700 |
| 219 | 2012 | Fruits | 12 | 6000 | 500 | 6000 | 0 | 6500 |
| 304 | 2012 | Rainfed rice | 10 | 14000 | 1000 | 9000 | 0 | 10000 |
| 326 | 2012 | Rainfed rice | 12 | 18000 | 5000 | 0 | 0 | 5000 |
| 333 | 2012 | Vegetable | 3 | 2500 | 1000 | 0 | 30 | 1030 |
| 375 | 2012 | Rainfed rice | 12 | 12000 | 5000 | 6000 | 0 | 11000 |
| 377 | 2012 | Rainfed rice | 12 | 4000 | 1970 | 2000 | 24 | 3994 |
| 378 | 2012 | Rainfed rice | 10 | 15000 | 5000 | 9000 | 0 | 14000 |
| 379 | 2012 | Rainfed rice | 12 | 2720 | 2250 | 450 | 0 | 2700 |
| 432 | 2012 | Rainfed rice | 11 | 12500 | 5000 | 2000 | 0 | 7000 |
| 464 | 2012 | Rainfed rice | 12 | 12000 | 5000 | 3000 | 0 | 8000 |
| 484 | 2012 | Fruit crops/trees | 12 | 667 | 300 | 640 | 0 | 940 |
| 497 | 2012 | Rainfed rice | 12 | 20000 | 5000 | 6000 | 4000 | 15000 |
| 545 | 2012 | Rainfed rice | 12 | 16000 | 2000 | 9000 | 0 | 11000 |
| 584 | 2012 | Rainfed rice | 11 | 15000 | 5000 | 9000 | 0 | 14000 |
| 614 | 2012 | Fruits | 11 | 5 | 5 | 20 | 0 | 25 |

### Livelihood\_Livestock\_Q26

The quantity of chicken purchased (q26\_3) for this household is way higher compare to the other values, but according to the project staff the data (500 chickens) is good.

|  |  |  |  |
| --- | --- | --- | --- |
| hhid | year | item | **q26\_3** |
| 062 | 2012 | Chicken | **500** |

The quantity of duck bartered (q26\_5) by this HH is way higher compare to the others values. It has been corrected from 600 to 6.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| hhid | year | item | q26\_5 | **New value** |
| 232 | 2015 | Duck | 600 | **6** |

### Livelihood\_Fishing\_Q28

The field ‘GroupSp’ has been added to this table essential to indicate if the records is about fish or OAA catches. The information has been retraced by using the value code used in Stata and in the questionnaire.

### Livelihood\_Fishing\_Q31

The month of peak of catches (q31\_2) should be in between 1-12. For this record, the value 18 has been changed to 1 (January).

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| hhid | year | item | q31\_1 | q31\_2 | **New value** |
| 525 | 2015 | Trap pond 2 | 25 | 18 | **1** |

### Livelihood\_Fishing\_Q33\_2

In this table the fish species name (q33\_3\_1) was in Khmer and it has been translated in English by the project staff.

The price for this record was very higher than the rest of the record for the same species so it has been corrected to 12,000 instead of 120,000.

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| hhid | year | q33\_3\_1 | q33\_3\_2 | **New Value** |
| 496 | 2015 | Channa striata | 120000 | **12000** |

### Livelihood\_Fishing\_Q36

For this record, the total aquaculture production (q36\_3) was higher than the sum of the quantity consumed (q36\_4), bartered (q36\_5) and sold (q36\_6). So, the value of the field q36\_3 has been changed from 1500 kg to 150 kg and the value of the field q36\_4 has been changed from 20 kg to 2 kg.

|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| hhid | year | item | q36\_2 | q36\_3 | q36\_4 | q36\_5 | q36\_6 |
| 075 | 2012 | Pond | 1 | 1500 | 20 | 0 | 148 |
| **New values** | | | | **150** | **2** |  |  |

### Livelihood\_Income\_Q38

The sum of the percentage of each activities contributing to household consumption (q38\_2) was higher than 100%. The percentage of the “NFTP and timber product” contribution has been corrected from 100% to 0%.

| hhid | year | item | q38\_1 | q38\_2 | **New value** |
| --- | --- | --- | --- | --- | --- |
| 259 | 2015 | Fisheries | 0 | 40 |  |
| 259 | 2015 | Handicraft | 0 |  |  |
| 259 | 2015 | Livestock | 0 | 10 |  |
| 259 | 2015 | NFTP and timber product | 0 | 100 | **0** |
| 259 | 2015 | Other farming (chamkar, plantation, garden) | 0 | 0 |  |
| 259 | 2015 | Other source of income | 0 |  |  |
| 259 | 2015 | Remittances received | 0 |  |  |
| 259 | 2015 | Rice farming | 0 | 50 |  |
| 259 | 2015 | Small bussiness & petty trade | 0 |  |  |
| 259 | 2015 | Wage labour and salaried worker | 0 |  |  |

### Livelihood\_Income\_Q39

The sum of the percentage of each fishing habitat contributing to income (q39\_1) did not equal 100%. The proportion of the contribution of the “Rice field fisheries (including OAA) but trap pond excluded” has been corrected from 10% to 100%.

| hhid | year | item | q39\_1 | **New value** |
| --- | --- | --- | --- | --- |
| 465 | 2015 | Canal and river fisheries | 0 |  |
| 465 | 2015 | Flooded forest | 0 |  |
| 465 | 2015 | Rice field fisheries (including OAA) but trap pond excluded | 10 | **100** |
| 465 | 2015 | Tanle sape lake (open) fisheries | 0 |  |
| 465 | 2015 | Trap ponds | 0 |  |

### Livelihood\_Shock\_Q42-46

For those 2 records, the amount of the expenditure (q44\_2) incurred by the shock was entered in American dollar instead of in Riel so instead of 14 USD it has been corrected to 56,000 Riels.

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| hhid | year | q42 | q43 | q44\_1 | q44\_2 | **New value** |
| 489 | 2015 | Death, illness or health emergency in household member | August | 300000 | 14 | **56000** |
| 509 | 2015 | Other | November | 800 | 14 | **56000** |

### Livelihood\_Health\_q47

In this record, the children older than 5 years in this household (q47\_5) were sick 121 times from cold/flu in a year. The value has been corrected from 121 to 12 in the database.

| hhid | year | item | q47\_3 | q47\_4 | q47\_5 | **New value** |
| --- | --- | --- | --- | --- | --- | --- |
| 417 | 2015 | Cold/flu | 6 | 0 | 121 | **12** |

In this record, the children younger than 5 years in this household (q47\_4) were sick 60 times from cold/flu in a year. The value is higher than the other value of the same variables, but according to the project staff this value is correct.

| hhid | year | item | q47\_3 | q47\_4 |
| --- | --- | --- | --- | --- |
| 072 | 2015 | Cold/flu | 5 | 60 |

### Livelihood\_Food\_Q50

The kids in this household start eating fish at 10 years old (q50\_1, age in months). It seems late, but it is possible according to the project staff.

|  |  |  |
| --- | --- | --- |
| hhid | year | q50\_1 |
| 263 | 2012 | 120 |

## Error Checking among the Biological Monitoring Tables

### Biological Monitoring\_BasicInfo

| **Variables** | **CFR** | **Occasion** | **Problems** | **Old data** | **New data** | **Reason** |
| --- | --- | --- | --- | --- | --- | --- |
| Occasion | Boeng Tramses | 2 and 3 | Instead of 13 records such as all other CFR, Boeng Tramses only has 11 records. Occasion 2 and occasion 3 are missing. **For all the other variables of the table, the CFR Boeng Tramses has records for 11 occasions or less (specified if it’s less).** | - | - | For occasion 2 and 3 the CFR was dry, surveying was impossible. |
| Data\_s | All | All | Suggestion: change variable name to ‘Date\_s’ | ‘Data\_s’ | ‘Date\_s’ | Already correct. |
| Data\_e | All | All | Suggestion: change variable name to ‘Date\_e’ | ‘Data\_e’ | ‘Date\_e’ | Already correct |
| Time\_e | Trapaing Neangnoy | 5 | Wrong record, it should be “13:14” | 1:14 | 13:14 | Already correct. |
| sitePrepareDate | See problem | - | Instead of having records for 13 occasion, the following CFRs have some occasion with no record for this variable (actual number of occasion with records in between parentheses): Entark Komar (0); Boeng Kamhengsa (0); Boeng Prahauch (0); Boeng Rolum (0); Trapaing Thlok Meanchey (0); Krasaing Rithy (0); Obosmakak (0); Trapaing Neangnoy (1); Boeng Thea (1); Bakong (2); Preah Neang Korl (2); Boeng Chheutrav (12) | - | - | Blanks mean that we didn’t prepare the CFR site (e.g. Cleaning the CFR; Remove aquatic plants) before conduction biological monitoring survey |
| TotalHours | Boeng Kampeng | 3 | There is a mismatch between the TotalHours (27h) and the difference between Time\_s (16:15) and Time\_e (6:30) | 27 | 17 | Corrected |
| Boeng Tramper | 3 | There is a mismatch between the total hours(27h) and the difference between Time\_s (16:05) and Time\_e (6:30) | 27 | 17 | Corrected |
| GaugeStart | Boeng Krong | 2 | The value “-50” is impossible. | -50 | 133.68 | Already corrected. |
| GaugeStart | Sla Slak | 6 | The value is abnormally low. | 0.242 | 24.2 | Already corrected |
| GaugeStart | Aren | 12 | The value is abnormally low. | 1.5 | 150 | Corrected |
| GaugeStart | Otaky | 2 | The value is abnormally low. | 3 | 300 | Already corrected. |
| GaugeStart | Boeng Prang | 2 | The value is abnormally low. | 3.8 | 38 | Already corrected. |
| GaugeFinish | Boeng Krong | 2 | The value “0” is impossible. | 0 | 133.68 | Already corrected. |
| GaugeFinish | Sla Slak | 6 | The value is abnormally low. | 0.2 | 20 | Already correct |
| GaugeFinish | Aren | 12 | The value is abnormally low. | 1.5 | 150 | Corrected |
| GaugeFinish | Otaky | 2 | The value is abnormally low. | 3 | 300 | Already corrected. |
| GaugeFinish | Boeng Prang | 2 | The value is abnormally low. | 3.8 | 38 | Already corrected. |
| WhaterTem | All | All | Suggestion: change variable name to ‘WaterTem | WhaterTem | WaterTem | Already corrected in database. |
| Secchi\_depth | Lboeuk Keteyuos | 9 | Abnormaly high value compared to the other records (closest record at 85) | 128 | 128 | This is correct |
| Boeng Kantuot | 11 | Abnormaly high compared to the other records (around 20-30) | 113 | 13 | This is correct |
| Ph | Otamoan | 7 | Abnormaly low value compared to the other records | 4.5 | 4.5 | Because of the rain and erosion make the water too much turbid. |
| Boeng Tramses | 4 | Abnormaly high value compare to the other records | 10 | 10 | The value is good. |
| Phosphate | Tumnub Mkak | 12 | Abnormaly high | 2.5 | 0.25 | The correct value is 0.25 |
| Sla Slak | 13 | Extremely high | 12.5 | 2 | The correct value is 2. |
| Nitrogen | Boeng Kamhengsa | 7 | Abnormaly high value | 40 | 40 | The value is correct. It’s caused by the kit |
| Krasaing Rithy | 5 | Abnormaly high value | 40 | 40 | The value is correct. It’s caused by the kit |
| Otamoan | 6 | Abnormaly high value | 40 | 40 | The value is correct. It’s caused by the kit |
| Trapaing Kuy | 4 | Abnormaly high value | 40 | 40 | The value is correct. It’s caused by the kit |
| Boeng Prahauch | 7 | Abnormaly high value | 20 | 20 | The value is correct. It’s caused by the kit |
| Boeng Rolum | 5 | Abnormaly high value | 20 | 20 | The value is correct. It’s caused by the kit |
| Boeng Rolum | 7 | Abnormaly high value | 20 | 20 | The value is correct. It’s caused by the kit |
| Entark Komar | 5 | Abnormaly high value | 20 | 20 | The value is correct. It’s caused by the kit |
| Trapaing Neangnoy | 7 | Abnormaly high value | 20 | 20 | The value is correct. It’s caused by the kit |
| Conductivity | Boeng Chheutrav; Boeng Kampeng; Boeng Preah Ponley; Kuch Noub; Damnak Kranh; Boeng Tramper; Boeng Tramses; Boeng Romlech; Boeng Kantuot; Aren; | 1 | Missing the 'Conductivity' records for those CFR for occasion 1 | - |  | Corrected with the appropriate value. |
| Lboeuk Keteyuos | 13 | Abnormally high | 1 | 0 | The correct value is 0 |
| Tumnub Mkak | 13 | Abnormally high | 1 | 0.1 | The correct value is 0.1 |
| Category | Trapaing Kuy | 10 | Classified as a category 2 CFR instead of 3 | 2 | 3 | Change for the good data in Access (Vichet). Already correct |
| Weather | Kork Lhong; Trapaing Veng; Otamoan; Pur Sdey; Trapaing Kuy; Othom Sranal; Lboeuk Keteyuos; Tumnub Rumdeng; Tumnub Mkak; Tumnub Kandole; Trapaing Thlong; Boeng Thmor Koul | 10 | Missing the 'Weather' records for those CFR for occasion 10 | - |  | Corrected with the appropriate value. |

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### Biological Monitoring\_FormB

| **Variables** | **CFR** | **Occasion** | **Gear type** | **Replicate** | **Problems** | **Old data** | **New data** | **Reason** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Replicate | Aren; Boeng Kamhengsa; Boeng Thmor Koul; Krasaing Rithy; Preah Neang Korl; Othom Sranal | All | All | All | Those CFRs only have 5 replicates/occasion/gear type instead of 8 | - | - | Those CFRs were too small to install 8 gill nets (Not enough place in CFR to install gill net with 20 meters in between each other). |
| Replicate | Otamoan | 1 | Gill net | - | Only 7 replicates for the gill net instead of 8 replicates | - | - | This occasion, we missed a gill net so cannot install 8 gill net. |
| Replicate | Lboeuk Keteyuos | 1 | Fyke trap | - | Only 4 replicates with the fyke trap instead of 8 replicates | - | - | Spent long time to set fyke trap and there less people to set that’s why there only 4 replicates were set. |
| Replicate | Tumnub Kandole | 1 | Gill net | - | Only 7 replicates for the gill net instead of 8 replicates | - | - | This occasion, we missed a gill net so cannot install 8 gill net. |
| Replicate | Tumnub Mkak | 1 | Gill net | 8 | Replicate 8 don’t have value for ‘DepthShore’ and ‘DepthEnd’ | - | - | This occasion, we missed a gill net so cannot install 8 gill net.  Record removed |
| Processor | Ang Chork; Anlos Dong; Aren; Boeng Chheutrav; Boeng Daiphtaul; Boeng Kampeng; Boeng Kantuot; Boeng Krong; Boeng Prang; Boeng Preah Ponley; Boeng Romlech; Boeng Tramper; Boeng Tramses; Damnak Kranh; Kuch Noub; Otaky; Sla Slak; | 1 and 2 | All | All | Missing the 'Processor' records | - |  | Already corrected in database. |
| Date\_S  Time\_S  Date\_F  Time\_F | Ang Chork; Anlos Dong; Aren; Boeng Chheutrav; Boeng Daiphtaul; Boeng Kampeng; Boeng Kantuot; Boeng Krong; Boeng Prang; Boeng Preah Ponley; Boeng Romlech; Boeng Tramper; Damnak Kranh; Kuch Noub; Otaky; Sla Slak | 2 | Hook long line | All | Missing records for 'Dates\_S', ‘Time\_S’, ‘Date\_F’ and ‘Time\_F’ | - |  | Already corrected in database. |
| Time\_F | Boeng Prahauch; Boeng Rolum; Boeng Thea; Entark Komar; Krasaing Rithy; Obosmakak; Preah Neang Korl; Trapaing Neangnoy; Trapaing Thlok Meanchey; | 13 | Fyke trap | All | Missing the 'Time\_F' records | - |  | Already corrected in database. |
| Time\_F | Boeng Prahauch; Boeng Rolum; Boeng Thea; Entark Komar; Krasaing Rithy; Obosmakak; Preah Neang Korl; Trapaing Neangnoy; Trapaing Thlok Meanchey; | 13 | Gill net | All | Missing the 'Time\_F' records | - |  | Already corrected in database. |
| DepthShore | Boeng Prahauch | 1 | Fyke trap | 3 | Extremely high and DepthShore should be smaller than DepthEnd | [79](file:///C:\Users\Administrator.Bophary-PC\Desktop\Philippe%20Poulin%20Worldfish\Rice%20Field%20Fisheries\RFF%20Database%20PP\BIOM\RFF%20Error%20Checking%20in%20BioM%20databas%20PP%20v1.xlsx#'Depth (Shore+End)'!A1) | 0.79 | The correct value is 0.79. the unit is m. |
| DepthShore | Boeng Kantuot | 10 | Gill net | 1 | Extremely high and DepthShore should be smaller than DepthEnd | [70](file:///C:\Users\Administrator.Bophary-PC\Desktop\Philippe%20Poulin%20Worldfish\Rice%20Field%20Fisheries\RFF%20Database%20PP\BIOM\RFF%20Error%20Checking%20in%20BioM%20databas%20PP%20v1.xlsx#'Depth (Shore+End)'!A1) | 0.70 | Corrected |
| DepthShore | Boeng Tramper | 13 | Fyke trap | 6 | Abnormaly high and DepthShore should be smaller than DepthEnd | [14](file:///C:\Users\Administrator.Bophary-PC\Desktop\Philippe%20Poulin%20Worldfish\Rice%20Field%20Fisheries\RFF%20Database%20PP\BIOM\RFF%20Error%20Checking%20in%20BioM%20databas%20PP%20v1.xlsx#'Depth (Shore+End)'!A1) | 1.40 | Corrected |
| DepthShore | Boeng Romlech | 11 | Hook long line | 7 | Abnormaly high and DepthShore should be smaller than DepthEnd | [8](file:///C:\Users\Administrator.Bophary-PC\Desktop\Philippe%20Poulin%20Worldfish\Rice%20Field%20Fisheries\RFF%20Database%20PP\BIOM\RFF%20Error%20Checking%20in%20BioM%20databas%20PP%20v1.xlsx#'Depth (Shore+End)'!A1) | 0.8 | Corrected |
| DepthShore | Boeng Chheutrav | 3 | Gill net | 2 | Abnormaly high and DepthShore should be smaller than DepthEnd | [7](file:///C:\Users\Administrator.Bophary-PC\Desktop\Philippe%20Poulin%20Worldfish\Rice%20Field%20Fisheries\RFF%20Database%20PP\BIOM\RFF%20Error%20Checking%20in%20BioM%20databas%20PP%20v1.xlsx#'Depth (Shore+End)'!A1) | 0.7 | Corrected |
| DepthShore | Tumnub Rumdeng | 13 | Fyke trap | 1 | Abnormaly high and DepthShore should be smaller than DepthEnd | [6.5](file:///C:\Users\Administrator.Bophary-PC\Desktop\Philippe%20Poulin%20Worldfish\Rice%20Field%20Fisheries\RFF%20Database%20PP\BIOM\RFF%20Error%20Checking%20in%20BioM%20databas%20PP%20v1.xlsx#'Depth (Shore+End)'!A1) | 0.5 | The correct value is 0.5. the unit is m |
| DepthEnd | Boeng Kampeng | 11 | Hook long line | 5 | Extremely high value compare to the other value for the same CFR | [135](file:///C:\Users\Administrator.Bophary-PC\Desktop\Philippe%20Poulin%20Worldfish\Rice%20Field%20Fisheries\RFF%20Database%20PP\BIOM\RFF%20Error%20Checking%20in%20BioM%20databas%20PP%20v1.xlsx#'Depth (Shore+End)'!A1) | 1.35 | Verify this data. Change it if necessary in Access and this document. (Vichet) |
| DepthEnd | Trapaing Kuy | 10 | Gill net | 4 | Abnormaly high value compare to the other value for the same CFR | [22.4](file:///C:\Users\Administrator.Bophary-PC\Desktop\Philippe%20Poulin%20Worldfish\Rice%20Field%20Fisheries\RFF%20Database%20PP\BIOM\RFF%20Error%20Checking%20in%20BioM%20databas%20PP%20v1.xlsx#'Depth (Shore+End)'!A1) | 2.4 | The correct value is 2.4. the unit is m |
| DepthEnd | Entark Komar | 4 | Gill net | 6 | Abnormaly high value compare to the other value for the same CFR | [15](file:///C:\Users\Administrator.Bophary-PC\Desktop\Philippe%20Poulin%20Worldfish\Rice%20Field%20Fisheries\RFF%20Database%20PP\BIOM\RFF%20Error%20Checking%20in%20BioM%20databas%20PP%20v1.xlsx#'Depth (Shore+End)'!A1) | 1.5 | The correct value is 1.5 |
| DepthEnd | Boeng Kampeng | 11 | Gill net | 6 | Abnormaly high value compare to the other value for the same CFR | [13.5](file:///C:\Users\Administrator.Bophary-PC\Desktop\Philippe%20Poulin%20Worldfish\Rice%20Field%20Fisheries\RFF%20Database%20PP\BIOM\RFF%20Error%20Checking%20in%20BioM%20databas%20PP%20v1.xlsx#'Depth (Shore+End)'!A1) | 1.35 | Verify this data. Change it if necessary in Access and this document. |

### Biological Monitoring\_FormBSub

| **Variables** | **CFR** | **Occasion** | **Gear type** | **Replicate** | **Problems** | **Old data** | **New data** | **Reason** |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| Speciescode | Anlos Dong | 5 | Fyke trap | 2 | The species code for this record is wrong. 166 is the code for a plant species and the code for *Rasbora borapetensis* is 032. | 166 | 032 | Change the species code for 032 instead of 166 |
| Speciescode | Tumnub Mkak | 2 | Gill net | 1 | The species code for this record is wrong. The code 165 doesn’t exist it should be 106 for *Corica laciniata* | 165 | 106 | Change the species code for 106 instead of 165 |
| No\_fish | Tumnub Kandole | 5 | Gill net | 6 | Extremely high value; closest value 288 counts | 480 | 480 | This value is good. Many small fish. |
| No\_fish | Boeng Daiphtaul | 3 | Hook long line | 5 | High value compare to closest value 5 counts | 7 | 7 | This value is good. Correct. The line had 10 hooks. |
| No\_fish | Boeng Prahauch | 1 | Gill net | 8 | High value compare to closest value 30 counts (OAA only) | 70 | 70 | This data was the same in hard copy. |
| Total weight | Entark Komar | 13 | Fyke trap | 1 | Extremely high value compare to closest value 948.5g | 3087.4 | 3087.4 | This value is good. One of the fish was a big specimen: 2500g and 75 cm |
| Total weight | Boeng Daiphtaul | 6 | Gill net | 7 | High value | 5902.6 | 5902.6 | This value is good. High fish density in this CFR at this occasion. The fish also had dissease (eels over their body) so they didn’t have enough energy to escape from the gill net. |
| Total weight | Boeng Daiphtaul | 6 | Gill net | 8 | High value | 5400.8 | 5400.8 |
| Total weight | Boeng Daiphtaul | 6 | Gill net | 2 | High value | 4696 | 4696 |
| Total weight | Boeng Daiphtaul | 6 | Gill net | 3 | High value | 3872.1 | 3872.1 |
| Total weight | Boeng Daiphtaul | 6 | Gill net | 4 | High value | 3826.3 | 3826.3 |
| Total weight | Boeng Daiphtaul | 6 | Gill net | 5 | High value | 3816.5 | 3816.5 |
| Total weight | Boeng Daiphtaul | 6 | Gill net | 1 | High value | 3612.2 | 3612.2 |
| Total weight | Boeng Daiphtaul | 6 | Hook long line | 2 | High value | 1753.5 | 1753.5 | This value is good. |
| Total weight | Boeng Daiphtaul | 11 | Hook long line | 8 | High value | 1436 | 1436 | This value is good. |
| Total weight | Sla Slak | 1 | Gill net | 5 | High value (OAA only) | 2167 | 2167 | This value is good. They caught lots of big water snake |
| Total weight | Sla Slak | 9 | Gill net | 7 | High value (OAA only) | 1619.7 | 1619.7 |
| Total weight | Sla Slak | 1 | Gill net | 3 | High value (OAA only) | 1556 | 1556 |
| Total weight | Sla Slak | 1 | Gill net | 1 | High value (OAA only) | 1247 | 1247 |
| Total weight | Boeng tramses | 13 | Gill net | 1 | For the species 027, it should be written 6g instead 0.6g, because only 1 fish was caught and for the fields ‘Min\_weight’ and ‘Max\_weight’ it’s written 6g. | 6 | 0.6 | Change the ‘Total weight’ value for 0.6g instead of 6g |
| Min\_length | Various | Various | Various | Various | 434 records don't have a value for this variables | - | - | Before the occasion 9 they didn’t collect the detail data on the shrimp species (species 087) |
| Max\_length | Various | Various | Various | Various | 346 records don't have a value for this variables | - | - |
| Min\_weight | Various | Various | Various | Various | 1373 records don't have a value for this variables | - | - | Before the occasion 9 they didn’t collect the detail data on the shrimp species (species 087)  For occasion 1, the scale was not precise so they didn’t write the weight. |
| Max\_weight | Various | Various | Various | Various | 879 records don't have a value for this variables | - | - |

## 

### Biological Monitoring\_FormCSub

| **Variables** | **CFR** | **ID #** | **Problems** | **Old data** | **New data** | **Reason** |
| --- | --- | --- | --- | --- | --- | --- |
| GearType | See problems | - | The values are not uniform. There are many mistakes in the gear name. | - |  | Already corrected in database. |
| GearType | Anlos Dong | 278 | Missing value for this variable of one of the records of the occasion 11 | - | Hook long line | Already corrected. |
| ReplicateNo | Anlos Dong | 278 | Missing value for this variable of one of the records of the occasion 11 | - | 8 | Already corrected. |
| ReplicateNo | Boeng Rolum | 68634 | Missing value for this variable of one of the records of the occasion 2 with gill net | - | 4 | Already corrected in database |
| Speciescode | Anlos Dong | 2593 | The species code for this record (occasion5, fyke trap, replicate2) is not good. 166 is the code for a plant species and the code for *Rasbora borapetensis* is 032. | 166 | 032 | Species code has been changed to 032 instead of 166. |
| Fork\_length | Various | Various | 397 records have no value for this variable or have a “0” when the ‘SpeciesName’ is not null. | - | - | Most of the time it’s because the fish had lost its tail or its head so they couldn’t measure it. |
| Fork\_weight | All | All | Suggestion: Change field name to ‘Weight’ | ‘Fork\_weight’ | ‘Weight’ | Already corrected in database |
| Fork\_weight | Various | Various | 3590 records have no value for this variable or have a “0” when the ‘SpeciesName’ is not null. | - | - | For occasion 1, they didn’t have a precise scale to weigh small fish. |