

Rice Field Fisheries Enhancement Project - USAID
Catch and Consumption Monitoring

Dear Interviewee, My name is _____
_____. I am here as a researcher studying the fisheries on catch and consumption by households. Our study is funded by USAID

To complete our study, more than XXXX households have been chosen at random. Yours is one of them. The authenticity of the results of the study will depend upon the sincerity and accuracy of your answers to the questions on this questionnaire. Please be aware of the following:

- We are not government officials and none of the information we will collect will be given to the government or anyone else
- The information we collect will in no way affect your taxes
- We are not going to be implementing a development project and this data will not be used for other development projects
- It is completely anonymous.

We mention this so that you will give answers that are as accurate as possible.

Our questions cover several subjects relating to yourself, to members of your family, and your daily activities (your activities, the expenses involved in carrying out these activities, your food consumption, your savings, other household consumption, etc.). An incentive of XXXXXX Riels will be presented to you for spending time with us. You will receive compensation regardless of the answers you give us. Thank you in advance.

CONFIDENTIALITY

Participation is completely voluntary. You are free to ask questions at any time. If there is any question you intend not to answer, please tell the enumerator. We assure you that the information collected during this study is confidential, and will be used exclusively for this study. Your answers will not be revealed to your neighbours or to other parties without your permission.

Following the assessment of this questionnaire, done by computer, neither your name nor those of your family members will be used for any other purposes.

Does the respondent agree to be interviewed and understand that the survey is voluntary? (Yes or No)

Enumerator name

HOUSEHOLD Identification Number

Respondents / Interviewees Name(s) (include family name)

Contact number:

Date of interview (dd/mm/yyyy)

Village

Commune

District

Province

CFR Name

Module E1 Fish and Other Aquatic Catches

Q 1 In the last 7 days, did your household members go for fishing ? (Yes = 1, No = 2)

If "NO" Then go to Q 9	1	2
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Q2: Where did go for fishing in last 7 days ? Please tick on box for answer

No	Items	Trap pond in ZOI of CFR	Trap pond Not in ZOI of CFR	Flooded rice fields in ZOI of CFR	Other flooded rice field not connecte	Communi ty pond	Stream, Canals and Rivers (B)	Tonle Sap lake (open area) C	Flooded Forest (D)	Reservoir and Lake (E)	Others (specify)
1	Fish										
2	OAA										
3	Aquatic plants										

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

Member of fam	1 day	2days	3 days	4 days	5 days	6 days	7 days
Husband							
Spouse							
Son > 5yrs (Nr.)							
Daughter >5yrs (Nr.)							
Other members (specify sex							

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

Member of fam	Nr of member	Only night (15.00-07.00)	Only day time (06.00-17.00)	full over night & day time(24	More than one day
Husband					
Spouse					
Son > 5yrs (Nr.)					
Daughter >5yrs (Nr.)					
Other members (specify sex					

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

Indicate the % of the catch per fishing from each location														
No	Items	Trap pond in ZOI of CFR	Trap pond outside ZOI of CFR	Flooded rice fields in ZOI of CFR	Flooded rice field outside ZOI of CFR	Community pond	Stream, Canals and Rivers (B)	Tonle Sap lake (open area) C	Flooded Forest (D)	Reservoir and Lake (E)	Others (specify)	Total	Estimate Total Catch (Kg/last 7 day)	Please write in this box the breakdown of the calculation of the catch explained by the respondent during the interview
1	Fish											100%		
2	OAA											100%		
3	Aquatic plants											100%		

Q6: What fishing gears did you use in last seven days ?

Provide detailed information on fishing gear (number, or length or volume)																
No	Items	hand/pump	Morng/ Gillnet	Samnanh/ Cashnet	Tru/ Horizontal cylinder trap for rice fields	Santouch Ronong/ hook and line	Chhbok/ Three pronged barbed spear	Bongkai/ Single hook set pole and line/month	Angruth/ Plunge basket (size)	Chhnieng / bamboo basket (size)	Lop/horizontal cylinder trap with vertical entrance (LxID ,m)	Bamboo Tube Trap for Eel (LxID ,m) (# of trap)	Eel Clamp(???) (???) (# of gear)	Multi spiked Eel Rakes (???) (# of gear)	Vertical Rice Field Cylinder (???) (# of gear)	others specify
1	Fish															
2	OAA															
3	Gear Details		Mesh size Length	Nbr. and volume(m	Nbr Hook	Nbr	Nbr hook	Volume	Volume	Volume	Volume	Nbr	Nbr	Nbr	Nbr	

Q7:Fish Species catches in last 7 days (using fish identification card)

Code in cart	Items	Fish type	Tick fish species you caught	Indicate the % of fish/ groups (from total kg in Q5)	% sold fresh	% consumed fresh	% processed	% lost in preparation (consumed and processed)	% others
001	<i>Mystus albolineatus</i>	G							
002	<i>Mystus singaringan</i>	G							
003	<i>Mystus multiradiatus</i>	G							
004	<i>Mystus mysticetus</i>	G							
005	<i>Mystus atrifasciatus</i>	G							
006	<i>Mystus gulio</i>	G							
007	<i>Mystus bocourti</i>	G							
008	<i>Hemibagrus spilopterus/ Hemibagrus nemurus</i>	G							
009	<i>Cyclocheilichthys apogon</i>	G							
010	<i>Cyclocheilichthys repasson</i>	G							
011	<i>Cyclocheilichthys armatus</i>	G							
012	<i>Cyclocheilichthys lagleri</i>	G							
013	<i>Hypsibarbus lagleri</i>	G							
014	<i>Hypsibarbus malcolmi</i>	G							
015	<i>Barbonymus gonionotus</i>	G							
100	<i>Hypsibarbus vernayi</i>	G							
016	<i>Puntius brevis</i>	G							
017	<i>Puntius sp. (cf. masyai)</i>	G							
018	<i>Puntius aurotaeniatus</i>	G							
019	<i>Puntius rhombeus</i>	G							
020	<i>Labiobarbus siamensis/ Dangila spilopleura</i>	G							
021	<i>Labiobarbus leptocheila</i>	G							
022	<i>Cirrhinus siamensis</i>	G							
023	<i>Cirrhinus lobatus</i>	G							
054	<i>Lobocheilos rhabdoura</i>	G							
024	<i>Esomus metallicus</i>	G							
025	<i>Esomus longimanus</i>	G							
026	<i>Danio albolineatus</i>	G							
027	<i>Amblypharyngodon chulabhornae</i>	G							
028	<i>Rasbora daniconius</i>	G							
029	<i>Rasbora tornieri / aurotaenia</i>	G							
030	<i>Rasbora pauciperforata/Trigonopoma pauciperforatum</i>	G							
031	<i>Trigonopoma pauciperforatum</i>	G							

Code in cart	Items	Fish type	Tick fish species you caught	Indicate the % of fish/ groups (from total kg in Q5)	% sold fresh	% consumed fresh	% processed	% lost in preparation (consumed and processed)	% others
031	<i>Rasbora myersi/Rasbora dusonensis</i>	G							
032	<i>Rasbora borapetensis</i>	G							
033	<i>Rasbora tornieri</i>	G							
034	<i>Rasbora paviana</i>	G							
035	<i>Rasbora dusonensis</i>	G							
055	<i>Lobocheilos melanotaenia</i>	G							
036	<i>Clupeoides borneensis</i>	G							
106	<i>Coria Laciniata</i>	w							
126	<i>Clupeichthys s assarnensis</i>	w							
127	<i>Clupeichthys goniognathus</i>	w							
037	<i>Puntioplites proctozysron</i>	G							
039	<i>Puntioplites falcifer</i>	B							
038	<i>Anabas testudineus</i>	B							
040	<i>Clarias batrachus</i>	B							
041	<i>Clarias macrocephalus</i>	B							
042	<i>Clarias meladerma</i>	B							
043	<i>Channa striata</i>	B							
044	<i>Datnioides undecimradiatus</i>	B							
045	<i>Nandus nandus</i>	B							
046	<i>Nandus oxyrhynchus</i>	B							
047	<i>Pristolepis fasciata</i>	B							
048	<i>Parambassis apogonoides</i>	G							
049	<i>Parambassis wolffii</i>	G							
050	<i>Parambassis siamensis</i>	G							
051	<i>Trichopodus pectoralis</i>	B							
052	<i>Trichopodus microlepis</i>	B							
053	<i>Trichogaster trichopterus</i>	B							
056	<i>Trichopsis schalleri</i>	B							
057	<i>Trichopsis Pumila</i>	B							
058	<i>Trichopsis vittata</i>	B							
059	<i>Notopterus notopterus</i>	G							
060	<i>Chitala blanci</i>	G							
061	<i>Chitala ornata</i>	G							
062	<i>Cosmochilus harmandi</i>	W							

Code in cart	Items	Fish type	Tick fish species you caught	Indicate the % of fish/ groups (from total kg in Q5)	% sold fresh	% consumed fresh	% processed	% lost in preparation (consumed and processed)	% others
063	<i>Xenentodon cancila</i>	G							
064	<i>Kryptopterus hexapterus</i>	G							
065	<i>Kryptopterus dissitus</i>	G							
066	<i>Kryptopterus cheveyi</i>	G							
067	<i>Ompok bimaculatus/Hemisilurus Mekongensis</i>	G							
110	<i>Ompok Hypophthalmus/Ompok urbaini</i>	G							
068	<i>Macrognathus siamensis</i>	G							
069	<i>Macrognathus simiocoellatus</i>	G							
070	<i>Mastacembelus armatus</i>	G							
071	<i>Mastacembelus favus</i>	G							
072	<i>Acantopsis</i> sp. "large spot"	G							
073	<i>Acantopsis thiemmedhi</i>	G							
074	<i>Acantopsis</i> sp. "stripe"	G							
075	<i>Acanthopsoidea/Acantopsis spp</i>	G							
076	<i>Monopterus albus</i>	B							
077	<i>Ophisternon bengalense</i>	B							
078	<i>Oxyeleotris marmorata</i>	G							
079	<i>Hampala macrolepidota</i>	G							
080	<i>Pangio fusca</i>	G							
081	<i>Yasuhikotakia morleti</i>	w							
082	<i>Yasuhikotakia lecontei</i>	w							
083	<i>Syncrossus beauforti</i>	w							
084	<i>Syncrossus helodes</i>	w							
085	<i>Yasuhikotakia modesta</i>	w							
086	<i>Pangasianodon hypophthalmus</i>	W							
099	<i>Puntius orphoides</i>	G							
101	<i>Poropuntius normani</i>	G							
102	<i>Osteochilus hasselti/Osteochilus lini</i>	G							
103	<i>Puntius/Systomus partipentazona</i>	G							
104	<i>black sharkminnow</i>	G							
105	<i>Osteochilus melanopleurus</i>	G							
107	<i>Oxygasger Pointoni</i>	W							
108	<i>Paralaubuca typus</i>	W							
109	<i>Luciosoma bleekeri</i>	W							
111	<i>Channa Micropeltes</i>	B							
112	<i>Oreochromis niloticus</i>	B							
113	<i>Hypophthalmichthys molitrix</i>	G							
114	<i>Cyprinus carpio carpio</i>	G							

Q8: Other Aquatic Animal Species catches aquatic plants collected in last 7 days

Code in cart	Items	Tick fish species you caught	Indicate the % of the OAA per groups (total kg in Q5)	% sold fresh	% consumed fresh	% processed	% lost in preparation (consumed and process)	% others
087	<i>Macrobrachium Rosenagii</i>	OAA						
088	<i>Enhydris Enhydris</i>	OAA						
089	<i>Enhydris longicauda</i>	OAA						
090	<i>Enhydris Bocouti</i>	OAA						
115	<i>Xenochrophis Piscator</i>	OAA						
118	<i>Pors och</i>	OAA						
091	<i>Hoplobatrachus tigerinus</i>	OAA						
092	<i>Corbicula moreletiana</i>	OAA						
093	<i>Pila Polita</i>	OAA						
094	<i>Mekongina pongensis</i>	OAA						
117	<i>Limnoperna siamensis</i>	OAA						
095	<i>Somaniathelpusa sexpunctata</i>	OAA						
096	<i>Somaniathelpusa sp.</i>	OAA						
097	<i>Somanniathelpusa sp.</i>	OAA						
098	<i>Other small animal</i>	OAA						
116	<i>Waterbird</i>	OAA						
119	<i>Ipomoea aquatica</i>	Plant						
120	<i>Eichhornia crassipes</i>	Plant						
121	<i>Seshania Javanica</i>	Plant						
122	<i>Neptunia oleracea</i>	Plant						
123	<i>Nymphaea lotus</i>	Plant						
124	<i>Nelumbo nucifera</i>	Plant						

Q 9 How often did your family consumed fish and process fish for last seven days? (please tick in the box if yes)

No	Fish /OAA	from their wildcatch	daily	5-6 days	3-4 days	1-2 days	Total weight, kg
1	Wild Catch Fish*	Black fish					
2		White Fish					
3		Grey Fish					
4	OAA Catch	Shrimps					
5		shell (snail,, crab, clam..)					
6		Watersnake					
7		waterbirds					
8		Frogs					
9		Other (specify)					
10	Aquaculture Fish (Own production)	Black fish					
11		White Fish					
12		Grey Fish					
13	Processed Fish Home produced from their wild catch	Salted dried fish					
14		Smoked Fish					
15		Fermented Fish (Pa ork, Maim, ...)					
16		Fish fillet					
17		Prahoc					
18		Fish Sauce					
19		Fish Ball					
20		Other (specify)					
21	Aquatic plant Collected						
22	Market Fish and OAA and Process	Black fish					
23		White Fish					
24		Grey Fish					
25		OAA					
26		Processed					
27	Other (from neighbour /gift)	Black fish					
28		White Fish					
29		Grey Fish					
30		OAA					
31		Processed					

* total weight for 'wild' should equal amount in Q5 if all fish caught are consumed . Also cross- check total consumed fish Q7

MICRO-NUTRIENT RICE FISH SPECIES CATCH & CONSUMPTION

Q10 Did you or members of family consume MN rich fish species ? Yes ☐ No ☐ Children only ☐
If NO but caught fish then go to Q14 . If yes but children only then to Q17, module E4
If Yes (whole family) proceed to Q11 Check spp # 24-35,52-53 and 57-58

Q11 Complete table for approximate weight of MN rich fish consumed from all possible sources (incl those not caught)

Wild catch	market	Preserved (in house)	Neighbours/gift	Total (kg)	

"Wild Catch" should equal Q7 (MN rich species)
 (kgx %consumed in Q7)

Check spp # 24-35,52-53 and 57-58

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

				Frequency			
Species	See Q7	%	Weight	daily	5-6 days	3-4 days	2 days
Esomus Gp	# 24-35						
Gouramis	# 52-53						
Trichopsis	#57+58						
	Total	100		equal "Total" in Q11 above			

Use % as proportions to calculate from total known in Q12

Species listed below get relative proportion (%) using picture card then calculate weight
 (note that this is not same total as Q7 because this includes MN rich species from other sources)

Q13 Were some of the small MN rich species caught not consumed Yes ☐ No ☐
If No go to Q15

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

	Fed to animals	Process	Give away	Sell	Other	Total
Amount in kg						

Therefore the following is true:- Q7 (MN rich species) = Q11 (wild catch) + Q14 (total)

Q15 If you or your family consumed these fish in the past 7 days how were the fish prepared
write narrative in the box

Summarize by ticking boxes

- 1:Eviscerate
- 2:Eviscerate and head removed
- 3:Whole
- 4: Other

Q16 What were the main recipes for the MN rich fish (use codes given)

Main	Secondary	Tertiary

Soup recipes

- Fish soup: 1
- Fish soup with vegetable: 2
- Toek Kreourng (fish and veg.): 3
- KhorTrey/Pork : 4
- Samlor Kokor: 5
- Proher : 6
- Machu Yuon: 7
- Machu Sre: 8

Fried or roasted

- Trey Aing (fresh): 9
- Trey Aing (salted):10
- Fried fish (fresh): 11
- Fried fish (salted):12
- Fried fish with ginger: 13
- MN fish Prahoc with vegetable: 14
- Pa ork Chou/ Praiy (small fish): 15
- smoke fish: 16

- Ngoarm Korn trey: 17
- Prahet kroeing:18
- Trey Korb/Khcheab:19

MODULE E4: CONSUMPTION OF FISH BY UNDER 5'S

Q17 Do you have children , 60 months (5 years old) (1: Yes/2: No)

If yes proceed

Q18 Age (month)

Children			
1	2	3	4

*if more than 4 children use another form enter **months** for age*

Q19 Feeding type

Breastfeeding

Supple (borbor +)

staple (rice meat veg)

1	2	3	4

*(1:Yes/2: no)
number of meals per week
number of meals per week*

Enter number of time meals of each type given to each child of different age **per week**

Q20 Common supplementary food

Borbor salt

Borbor meat

Borbor egg

Borbor fish

Borbor fish+egg

Borbor fish+egg +veg

Other (specify)

1	2	3	4

B+salt+egg+C oil

total should equal supple (borbor+) in Q19

Q21 Childs consumption of fish as borbor porridge and also staple, and also source

What is the approximate weight of fish given to children over past week?

500 GRAMS

Fish caught from fields and market etc.

Use different questions like how many fish, what size and calculate amount based on answers. Grey Cells are Calculated, not Question

	Child #1		child # 2		Child #3		Child #4	
	%	weight	%	weight	%	weight	%	weight
Proportion to children (%)	25	125	25	0	50	0		0

Note
could be less for smaller children. % of cell H23

	%	weight	%	weight	%	weight	%	weight
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Source of fish	check to know if some fish come from other sources							
Wild	50	62.5						
Market	30	37.5						
Aquaculture		0						
Processed	20	25						
Neighbours / gift		0						

Total should be less than Q12 as answer for Q12 is total for whole family

For this question you need to elicit the approximate % sources.

Q22 Did your children eat any MN rich fish species in past 7 days Yes (1) No (2) (Species listed below)

Q23 If Yes, what was the proportion of MN rich fish to all fish fed to children from total in Q21 30% % you may prompt with stones or corn

Note

A key research question is: "How much in weight of MN rich fish that are caught from the wild sources are consumed by children under 5 years old?" [note: Q7 is MN rich fish caught and consumed by whole family. Therefore need to recalculate by Sum of Wild fish in Q22 for all children (e.g. D37+F37+H37+J37) multiply by percent in Q23]

Q24 Enter computer 18.75 GRAMS check calculation

List of Fish Species MN rich

Esomus Gp

- 024 *Esomus metallicus*
- 025 *Esomus longimanus*
- 026 *Danio albolineatus*
- 027 *Amblypharyngodon chulabhornae*
- 028 *Rasbora daniconius*
- 029 *Rasbora tornieri / aurotaenia*
- 030 *Rasbora pauciperforata/Trigonopoma pauciperforatum*
- 031 *Rasbora myersi/Rasbora dusonensis*
- 032 *Rasbora borapetensis*
- 033 *Rasbora tornieri*

034 *Rasbora paviana*

035 *Rasbora dusonensis*

Gouramis

052 *Trichopodus microlepis*

053 *Trichogaster trichopterus*

Trichopsis

056 *Trichopsis schalleri*

057 *Trichopsis Pumila*

058 *Trichopsis vit*

